Pulse
a YAGEO company

CHILISIN ELECTRONICS CORP.

Total Solution Provider for Power, EMI and RF.

Inductors
SMD Components

Multilayer Power Inductors

The BKPx Series is a miniature type of multilayer power inductor constructed using low-loss ferrite material to support high-speed switching frequencies. The compact size and high efficiency is ideal for DC-DC converter applications in space-limited boards.

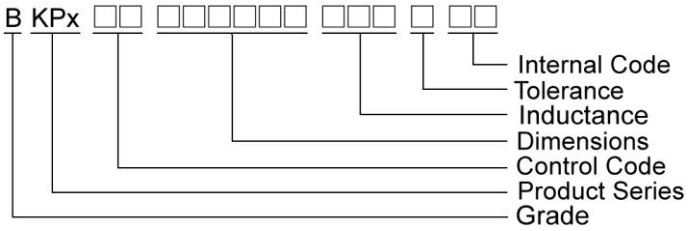
Features

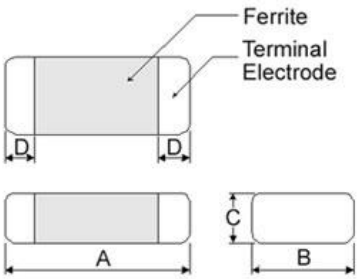
- RoHS, Halogen Free and REACH Compliance
- Small size
- Low profile
- High current
- Magnetically shielded configuration allowing for high density mounting

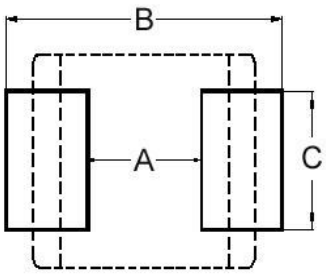
Applications

- DC-DC converters
- Power modules
- Cellular phones
- DSC, PND, DVD
- Wireless card and other electronic devices

Product Identification







Dimensions in mm

TYPE	A	B	C	D
1608FZ	1.6±0.15	0.8±0.15	0.6±0.15	0.3±0.2
1608DZ	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2
201210	2.0±0.20	1.25±0.20	1.0 Max	0.5±0.3
201610	2.0±0.20	1.6±0.20	1.0 Max	0.5±0.3
252010	2.5±0.20	2.0±0.20	1.0 Max	0.6±0.2
252012	2.5±0.20	2.0±0.20	1.2 Max	0.6±0.2

Dimensions in mm

TYPE	A	B	C
1608FZ	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
1608DZ	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
201210	0.8 ~ 1.2	2.3 ~ 2.9	1.0 ~ 1.4
201610	0.8 ~ 1.2	2.1 ~ 2.7	1.6 ~ 2.0
252010	1.3 ~ 1.9	2.7 ~ 3.5	2.0 ~ 2.6
252012	1.3 ~ 1.9	2.7 ~ 3.5	2.0 ~ 2.6

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Rated current (mA) Max
BKPA002012101R0☐00	1.0	20, 30	1	0.18	1100
BKPA002012101R5☐00	1.5	20, 30	1	0.19	1000
BKPA002012102R2☐00	2.2	20, 30	1	0.22	900
BKPA002012103R3☐00	3.3	20, 30	1	0.25	700
BKPA002012104R7☐00	4.7	20, 30	1	0.35	600

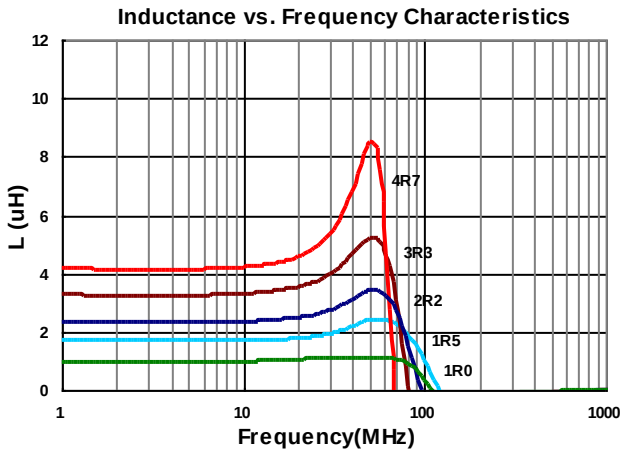
Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

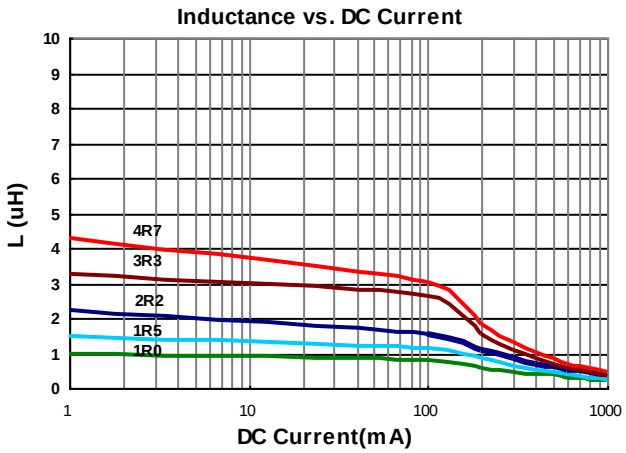
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rated Current for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

  L：Agilent HP4287A+16197A, 1MHz 200mV

  RDC：HP 4338B, or equivalent

Test Instruments：HP4287A Inductance / Material Analyzer





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BKPA002520101R0☐00	1.0	20, 30	1	0.11	1200
BKPA002520101R5☐00	1.5	20, 30	1	0.13	1100
BKPA002520102R2☐00	2.2	20, 30	1	0.15	1000
BKPA002520103R3☐00	3.3	20, 30	1	0.18	1000
BKPA002520104R7☐00	4.7	20, 30	1	0.25	900

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 55℃~125℃(Including self - temperature rise)
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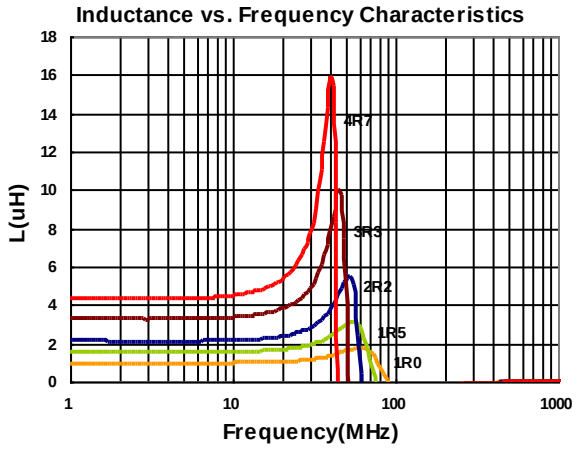
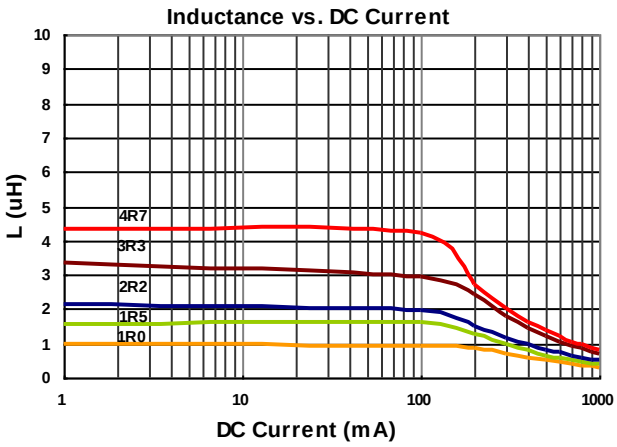
  RDC：HP 4338B, or equivalent

Test Instruments：HP4287A Inductance / Material Analyzer





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BKPB001608DZR47☐A2	0.47	20, 30	3	0.15	400	1100
BKPB001608DZ1R0☐A2	1.0	20, 30	3	0.20	200	950
BKPB001608DZ2R2☐A2	2.2	20, 30	3	0.30	150	750
BKPB001608DZ4R7☐A6	4.7	20	3	0.44±25%	80	800

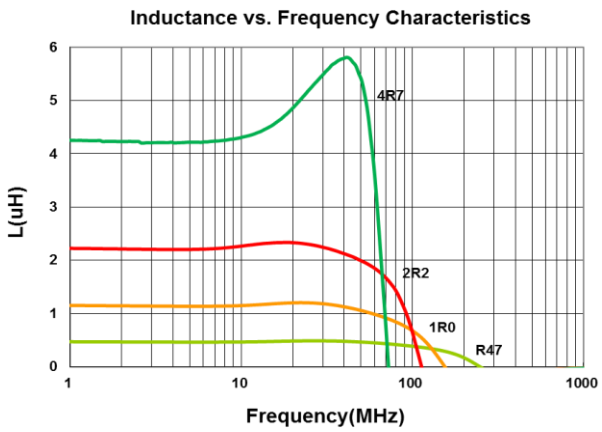
Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

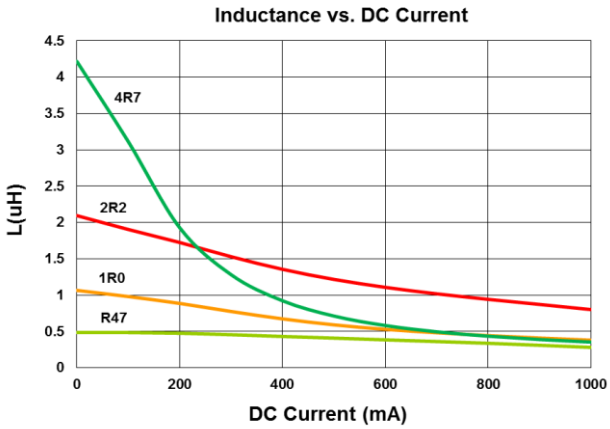
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

  L：Agilent HP4287A+16197A, 3MHz 200mV

  RDC：HP 4338B, or equivalent

Test Instruments：HP4287A Inductance / Material Analyzer





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BKPB00201210R47☐A2	0.47	20, 30	3	0.09	1100	1300
BKPB002012101R0☐A2	1.0	20, 30	3	0.12	650	1200
BKPB002012101R5☐A2	1.5	20, 30	3	0.15	450	1100
BKPB002012102R2☐A2	2.2	20, 30	3	0.19	400	1100
BKPB002012102R7☐A2	2.7	20, 30	3	0.21	300	1000
BKPB002012103R3☐A2	3.3	20, 30	3	0.24	300	800
BKPB002012104R7☐A2	4.7	20, 30	3	0.26	200	700

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

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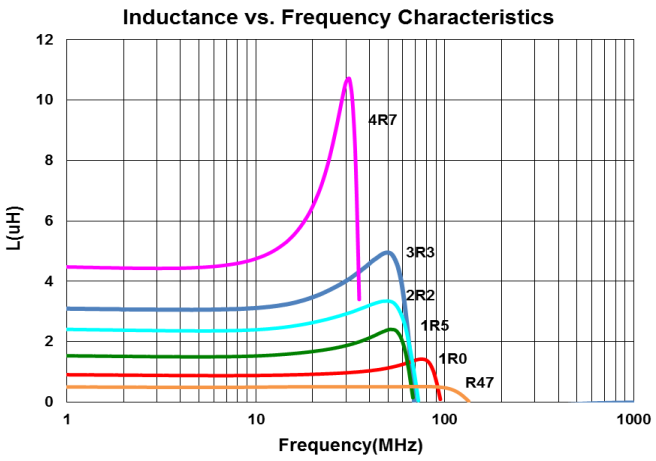
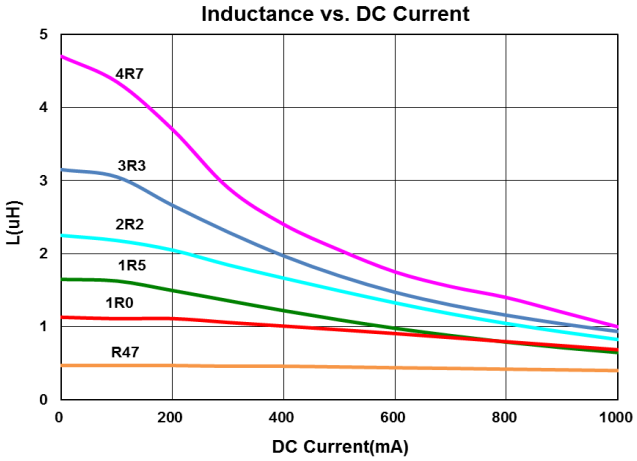
  RDC：HP 4338B, or equivalent

Test Instruments：HP4287A Inductance / Material Analyzer





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BKPB00201610R47☐A2	0.47	20, 30	3	0.06±30%	1200	1600
BKPB002016101R0☐A2	1.0	20, 30	3	0.09±30%	850	1300
BKPB002016102R2☐A2	2.2	20, 30	3	0.13±30%	400	1000
BKPB002016103R3☐A2	3.3	20, 30	3	0.17±30%	350	850
BKPB002016104R7☐A2	4.7	20, 30	3	0.21±30%	200	800
BKPB00201610R47☐A6	0.47	20, 30	3	0.06±25%	1200	1600
BKPB002016101R0☐A6	1.0	20, 30	3	0.085±25%	850	1300
BKPB002016101R5☐A6	1.5	20, 30	3	0.11±25%	600	1200
BKPB002016102R2☐A6	2.2	20, 30	3	0.11±25%	400	1200
BKPB002016103R3☐A6	3.3	20, 30	3	0.12±25%	350	850
BKPB002016104R7☐A6	4.7	20, 30	3	0.14±25%	200	1100

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 55℃~125℃(Including self - temperature rise)
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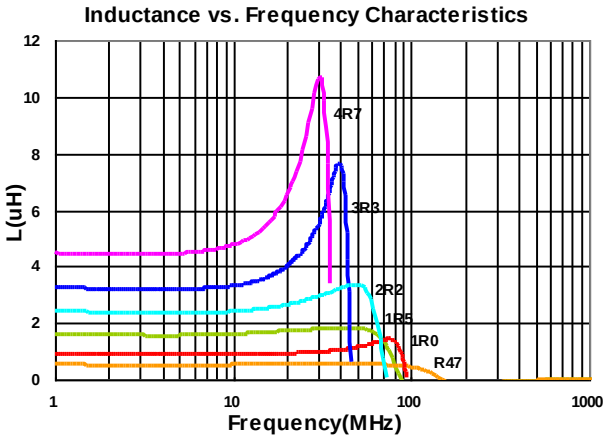
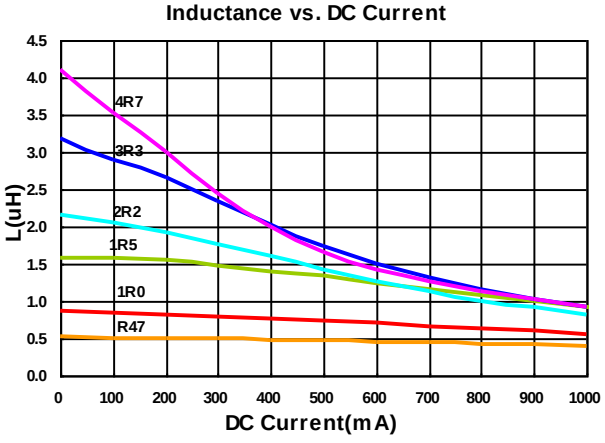
Test Instruments：HP4287A Inductance / Material Analyzer





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BKPB00252010R47☐A2	0.47	20, 30	3	0.04±30%	1500	1800
BKPB002520101R0☐A2	1.0	20, 30	3	0.06±30%	900	1500
BKPB002520101R5☐A2	1.5	20, 30	3	0.07±30%	800	1400
BKPB002520102R2☐A2	2.2	20, 30	3	0.10±30%	500	1200
BKPB002520103R3☐A2	3.3	20, 30	3	0.12±30%	400	1100
BKPB002520104R7☐A2	4.7	20, 30	3	0.14±30%	300	1000
BKPB00252010R47☐A6	0.47	20, 30	3	0.04±25%	1500	1800
BKPB002520101R0☐A6	1.0	20, 30	3	0.055±25%	900	1600
BKPB002520102R2☐A6	2.2	20, 30	3	0.08±25%	500	1300
BKPB002520103R3☐A6	3.3	20, 30	3	0.10±25%	400	1200
BKPB002520104R7☐A6	4.7	20, 30	3	0.11±25%	300	1100

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

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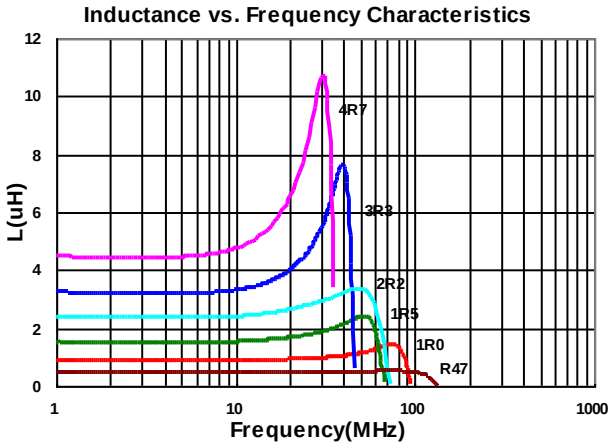
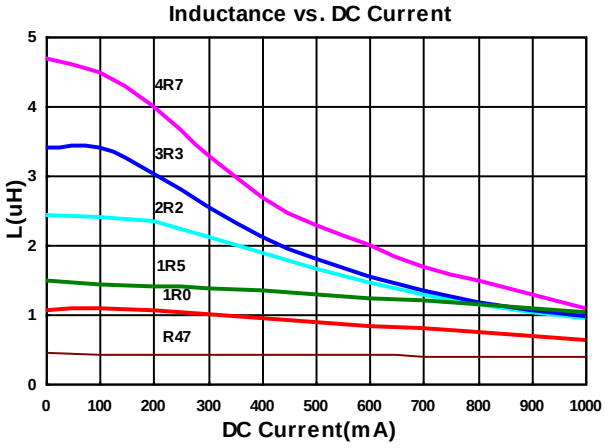
  RDC：HP 4338B, or equivalent

Test Instruments：HP4287A Inductance / Material Analyzer





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BKPB00252012R47☐A2	0.47	20, 30	3	0.04	1500	1800
BKPB002520121R0☐A2	1.0	20, 30	3	0.05	950	1600
BKPB002520121R5☐A2	1.5	20, 30	3	0.07	900	1400
BKPB002520122R2☐A2	2.2	20, 30	3	0.10	700	1200
BKPB002520123R3☐A2	3.3	20, 30	3	0.12	500	1100
BKPB002520124R7☐A2	4.7	20, 30	3	0.14	350	1000

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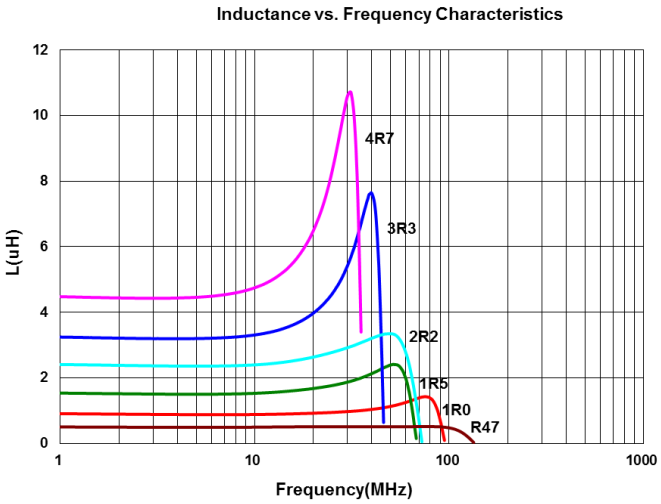

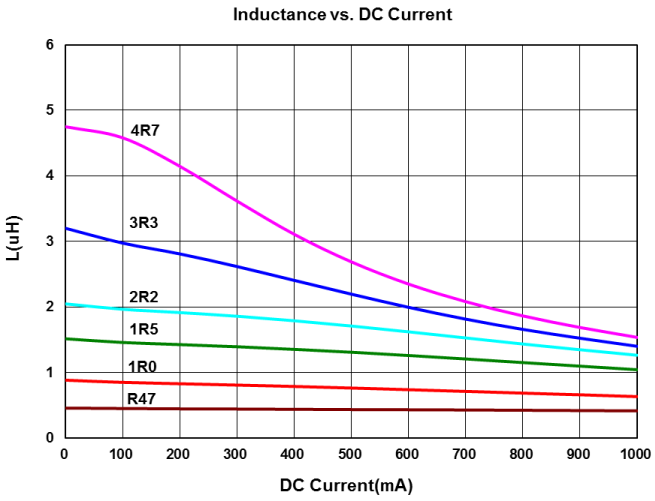

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BKPE001608FZ2R2☐A6	2.2	20, 30	3	0.38	250(300)	650(750)

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
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- Measure Equipment：
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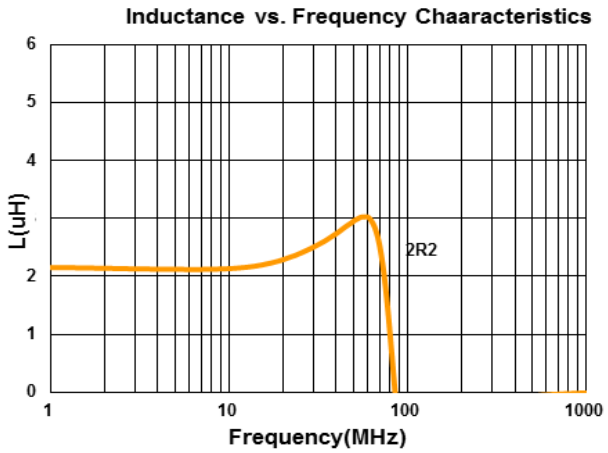
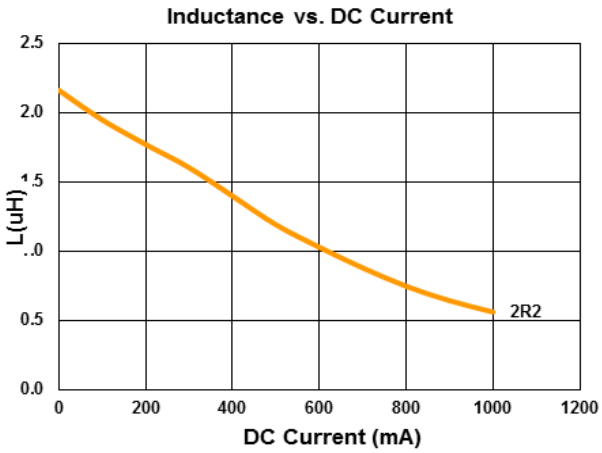
  RDC：HP 4338B, or equivalent

Test Instruments：HP4287A Inductance / Material Analyzer





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BKPE001608DZ1R0☐A6	1.0	20, 30	3	0.13	500(650)	1300(1450)
BKPE001608DZ2R2☐A6	2.2	20, 30	3	0.38	300(350)	700(900)

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

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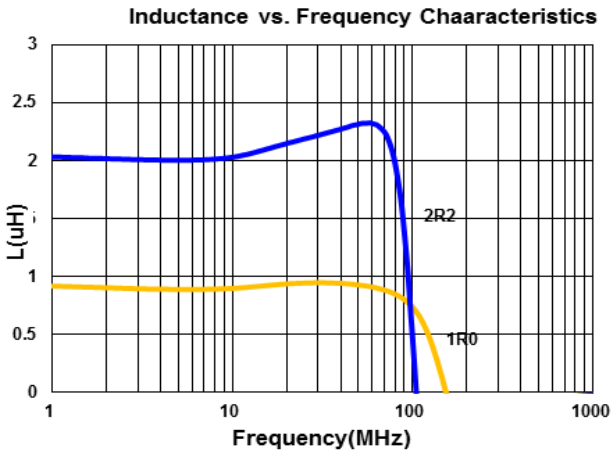

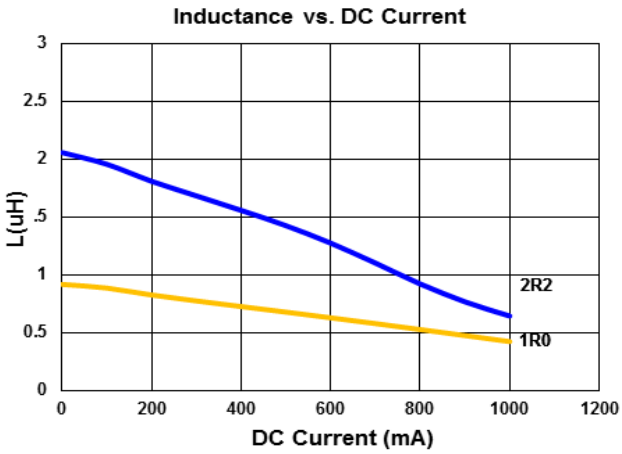

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BKPE00201210R24☐A2	0.24	20, 30	3	0.03	2700(3300)	2400(3200)
BKPE00201210R47☐A2	0.47	20, 30	3	0.06	1600(2000)	2200(3000)
BKPE002012101R0☐A2	1.0	20, 30	3	0.10	1400(1700)	1800(2100)
BKPE002012102R2☐A2	2.2	20, 30	3	0.125	500(800)	1600(1900)

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

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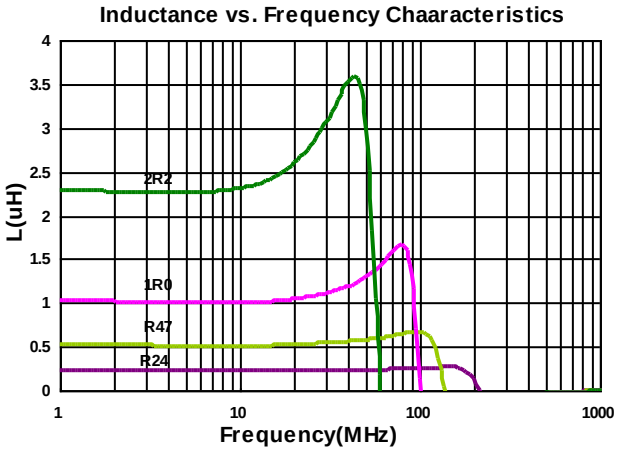
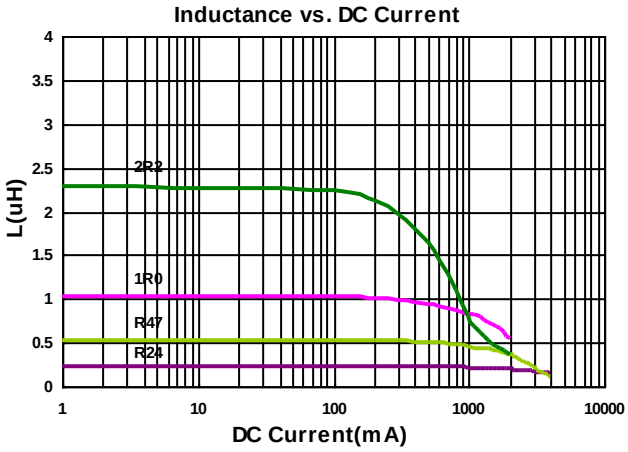
  RDC：HP 4338B, or equivalent

Test Instruments：HP4287A Inductance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±25%	Isat(mA) Max(Typ.)	Irms(mA) Max(Typ.)
BKPE00201610R24☐A2	0.24	20, 30	3	0.023	3600(4000)	3500(4200)
BKPE00201610R47☐A2	0.47	20, 30	3	0.037	2500(2900)	2600(3100)
BKPE00201610R68☐A2	0.68	20, 30	3	0.065	2500(2800)	2400(2800)
BKPE002016101R0☐A2	1.0	20, 30	3	0.068	1500(1900)	2200(2600)
BKPE002016101R5☐A2	1.5	20, 30	3	0.100	1500(1800)	1600(1900)
BKPE002016102R2☐A2	2.2	20, 30	3	0.210	1000(1300)	1500(1800)

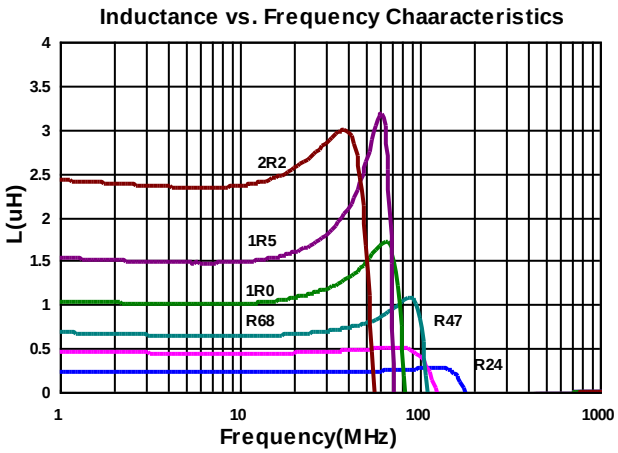
Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

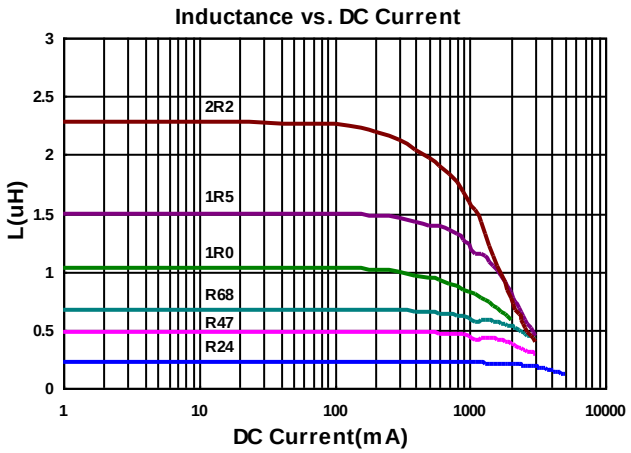
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

  L：Agilent HP4287A+16197A, 3MHz 200mV

  RDC：HP 4338B, or equivalent

Test Instruments：HP4287A Inductance / Material Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±25%	Isat(mA) Max(Typ.)	Irms(mA) Max(Typ.)
BKPE00252010R24☐A2	0.24	20, 30	3	0.024	4800(5200)	4100(4900)
BKPE00252010R47☐A2	0.47	20, 30	3	0.040	3100(3500)	3000(3600)
BKPE002520101R0☐A2	1.0	20, 30	3	0.050	1500(1900)	2900(3500)
BKPE002520102R2☐A2	2.2	20, 30	3	0.110	1400(1700)	1600(1900)

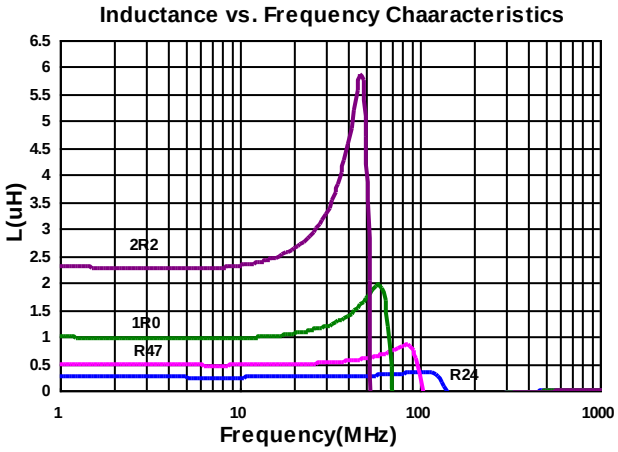
Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

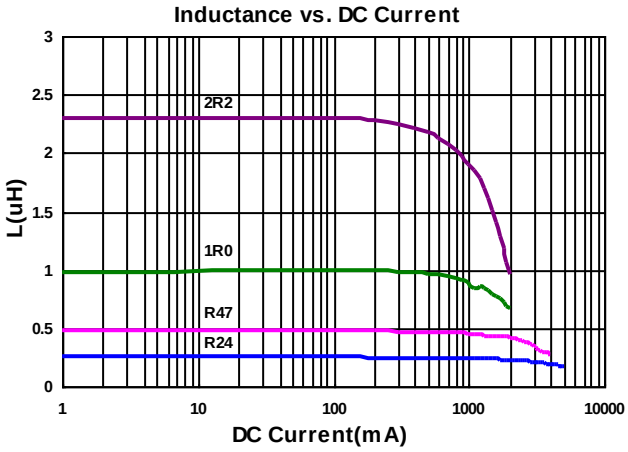
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

  L：Agilent HP4287A+16197A, 3MHz 200mV

  RDC：HP 4338B, or equivalent

Test Instruments：HP4287A Inductance / Material Analyzer





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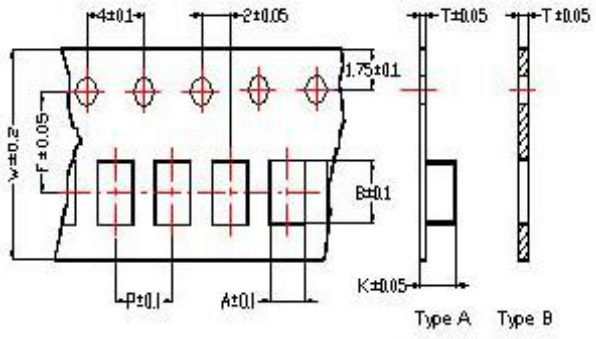
Pulse a YAGEO company

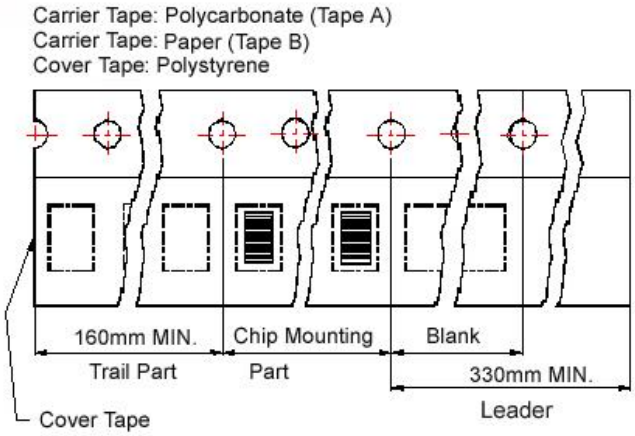
CHILISIN ELECTRONICS CORP.

Packaging Specifications

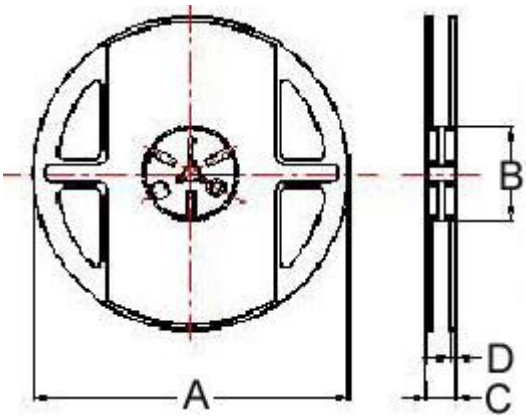
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape Type	A	B	C	D	PCS / REEL
1608FZ	1.05	1.85	0.75	8.0	4.0	3.5	-	B	178	60	12	1.5	4000
1608DZ	1.05	1.85	0.95	8.0	4.0	3.5	-	B	178	60	12	1.5	4000
201210	1.45	2.25	0.22	8.0	4.0	3.5	1.04	A	178	60	12	1.5	3000
201610	1.80	2.20	0.22	8.0	4.0	3.5	1.15	A	178	60	12	1.5	3000
252010	2.25	2.8	0.25	8.0	4.0	3.5	1.35	A	178	60	12	1.5	3000
252012	2.25	2.8	0.25	8.0	4.0	3.5	1.35	A	178	60	12	1.5	3000

Multilayer Power Inductors

The BKPB Series is a miniature type of multilayer power inductor constructed using low-loss ferrite material to support high-speed switching frequencies. The compact size and high efficiency is ideal for DC-DC converter applications in space-limited boards.

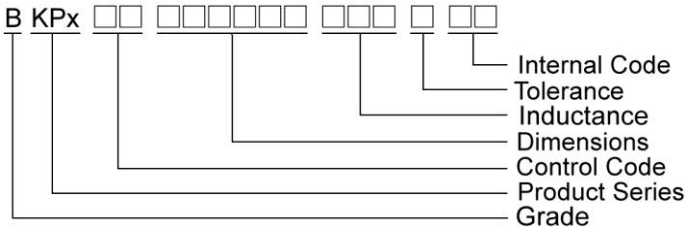
Features

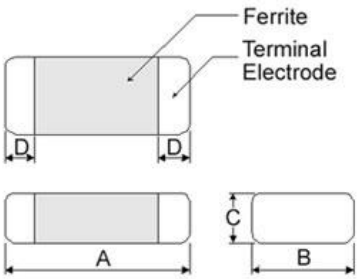
- For High Frequency SW (15MHz to 200MHz)
- Bias Current Characteristics improved.
- Low Power loss
- High DC Bias
- High Current
- Low ACR

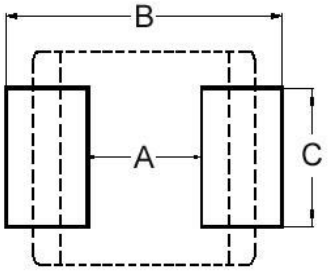
Applications

- High Frequency DC/DC converter.

Product Identification







Dimensions in mm

TYPE	A	B	C	D
2012C5	2.0±0.20	1.25±0.20	0.95 Max	0.5±0.3

Dimensions in mm

TYPE	A	B	C
2012C5	0.8 ~ 1.2	2.3 ~ 2.9	1.0 ~ 1.4

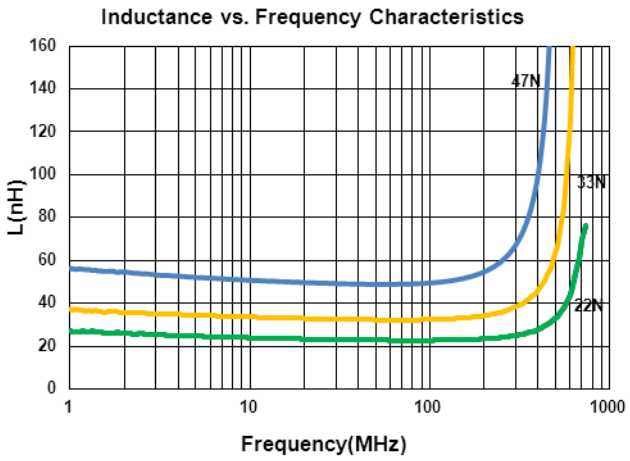
Electrical Characteristics

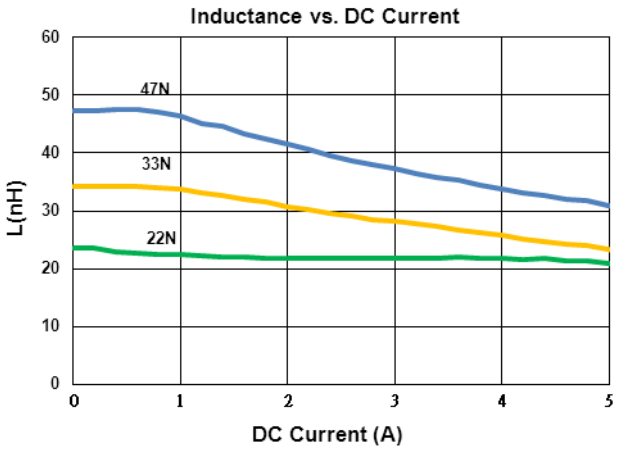
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (mA) Max	Irms (mA) Max
BKPB002012C522N□A2	0.022	10, 20	50	0.044	3000	2000
BKPB002012C533N□A2	0.033	10, 20	50	0.050	2700	1800
BKPB002012C547N□A2	0.047	10, 20	50	0.058	2400	1600

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20%

- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
  L：Agilent E4991A+16197A, 50MHz 200mV
  RDC：HP 4338B, or equivalent

Test Instruments：E4991A Inductance / Material Analyzer





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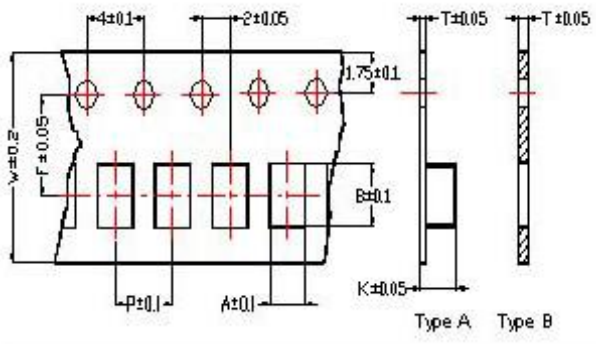
Pulse a YAGEO company

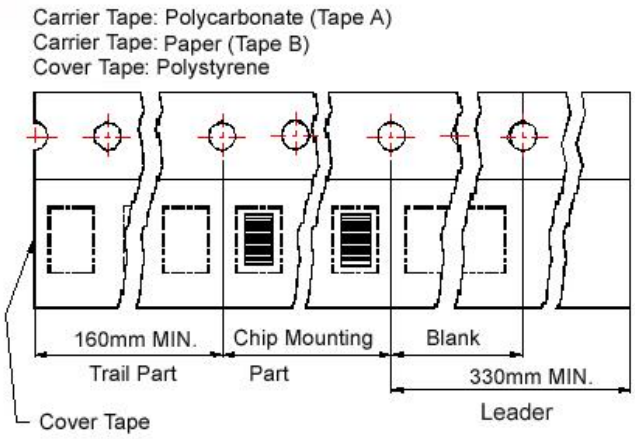
CHILISIN ELECTRONICS CORP.

Packaging Specifications

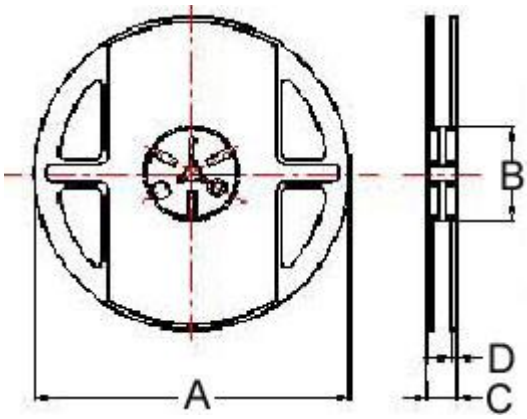
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape Type	A	B	C	D	PCS / REEL
2012C5	1.45	2.25	0.22	8.0	4.0	3.5	1.04	A	178	60	12	1.5	3000

BMQx Series

BMQx series is low profile molding power choke with low RDC and high Q factor, so the efficiency performance is also superior. Its molded magnetic shielded type is suitable for high-density mounting and ultra-low buzz noise. Soldering conditions can be easily confirmed when mounting onto the board. This series also provides customers with embossed carrier type packaging for automatic mounting machine.

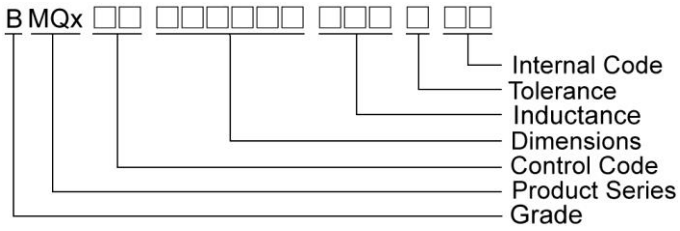
Features

- RoHS, Halogen Free and REACH Compliance
- Low RDC
- High Q
- High Efficiency
- Ultra-low buzz noise

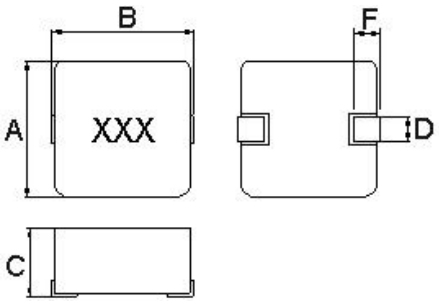
Applications

- Laptops and PCs
- Switches and servers
- Base stations
- DC/DC converters

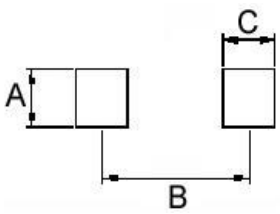
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	F
BMQE00040410	4.1±0.2	4.6±0.2	1.0Max	1.5±0.3	1.0±0.3
BMQE00040411	4.1±0.2	4.6±0.2	1.1Max	1.5±0.3	1.0±0.3
BMQE00050511	5.5±0.2	5.7±0.2	1.1Max	2.0±0.3	1.5±0.3
BMQE00060611	6.6±0.2	6.95±0.35	1.1Max	3.0±0.3	1.6±0.3

Dimensions in mm

TYPE	A	B	C
BMQE00040410	2.5	3.7	1.5
BMQE00040411	2.5	3.7	1.5
BMQE00050511	2.5	4.1	1.9
BMQE00060611	3.5	6.05	2.35

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
BMQE00040410R33MAA	0.33	20	100	14(12)	9.0(11)	6.0(7.0)	R33
BMQE000404101R0MAA	1.0	20	100	43(39)	4.0(5.0)	4.0(4.5)	1R0

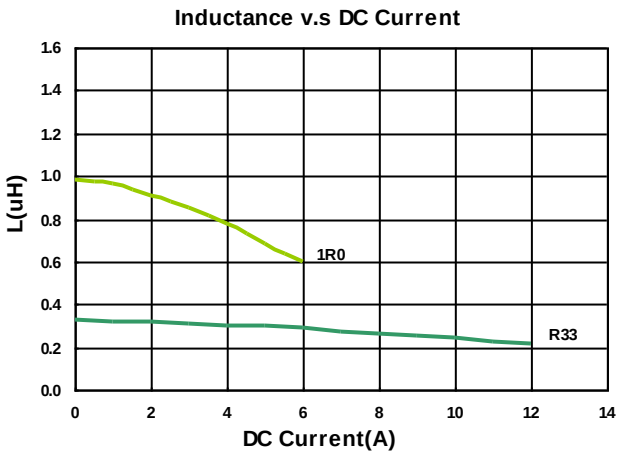
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

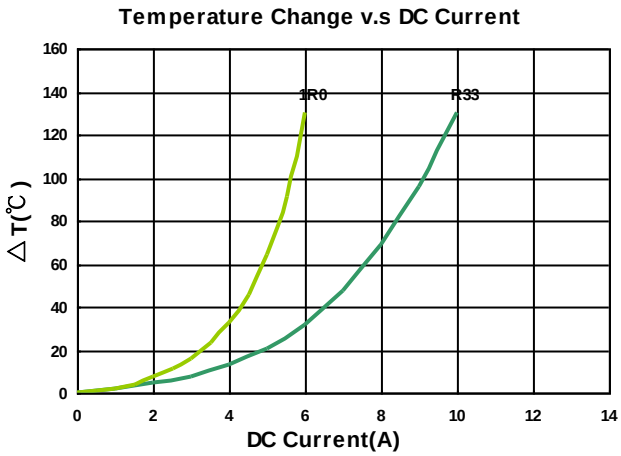
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

  L：WK 3260B or WK 6500P, 100kHz 0.5V

  RDC：CHEN HWA 502 or CHEN HWA 46502B
  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
BMQE000404111R0MAA	1.0	20	100	38.5(35)	5.4(6.0)	4.3(4.8)	1R0
BMQE000404112R2MAA	2.2	20	100	82(75)	3.5(4.0)	3.0(3.3)	2R2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

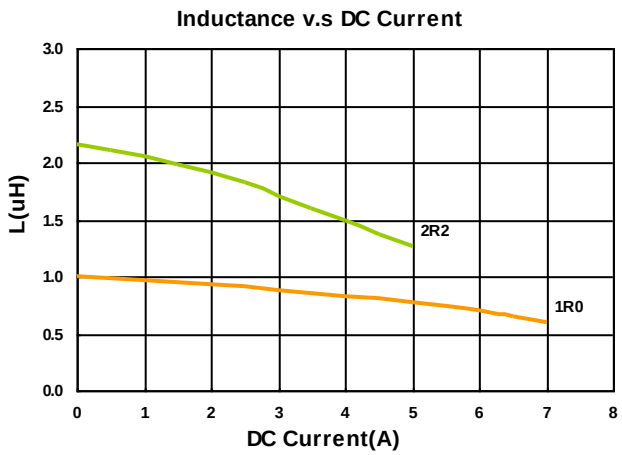
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

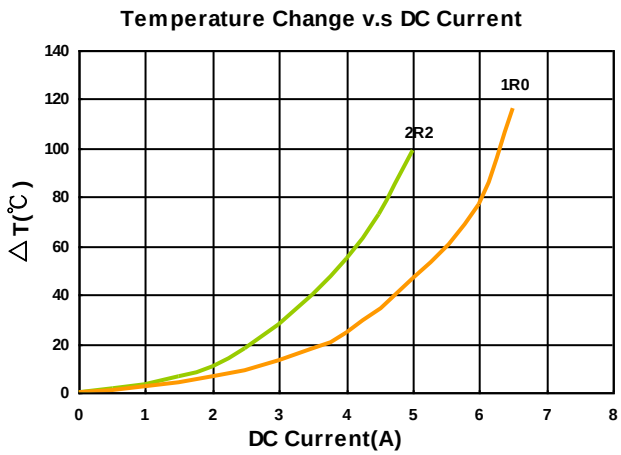
  L：WK 3260B or WK 6500P, 100kHz 0.5V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
BMQE000505111R0MAA	1.0	20	100	33(30)	7.0(7.5)	4.8(5.3)	1R0

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

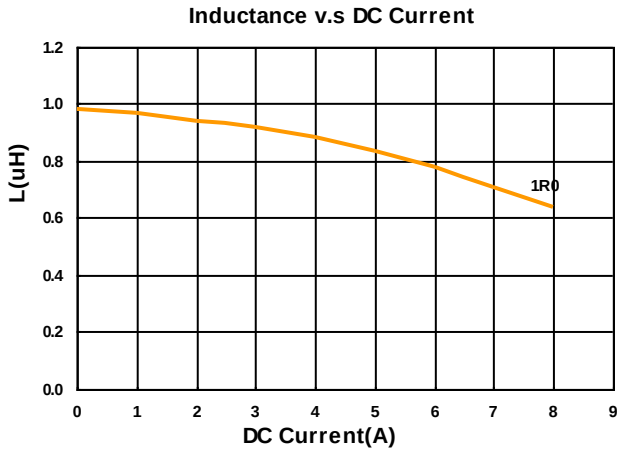
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

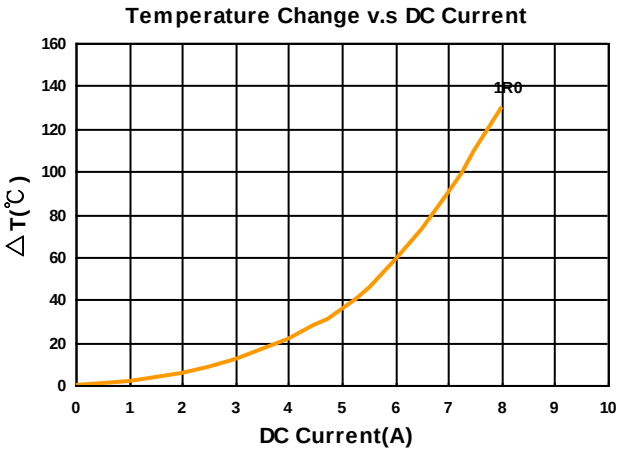
  L：WK 3260B or WK 6500P, 100kHz 0.5V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
BMQE000606111R0MAA	1.0	20	100	26(24.5)	7.0(7.8)	6.8(7.3)	1R0
BMQE000606112R2MAA	2.2	20	100	57(52)	5.0(6.0)	4.2(4.6)	2R2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

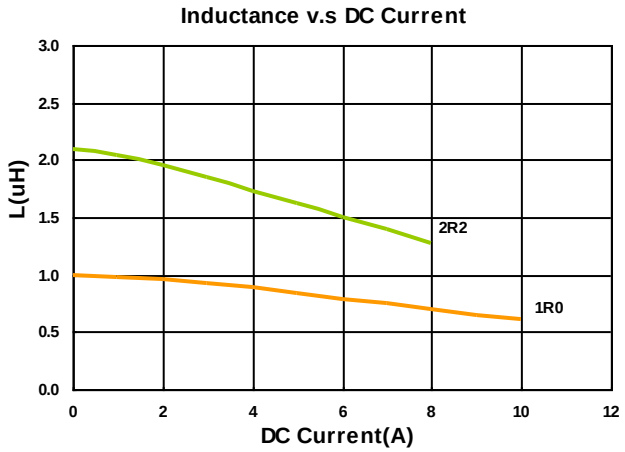
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

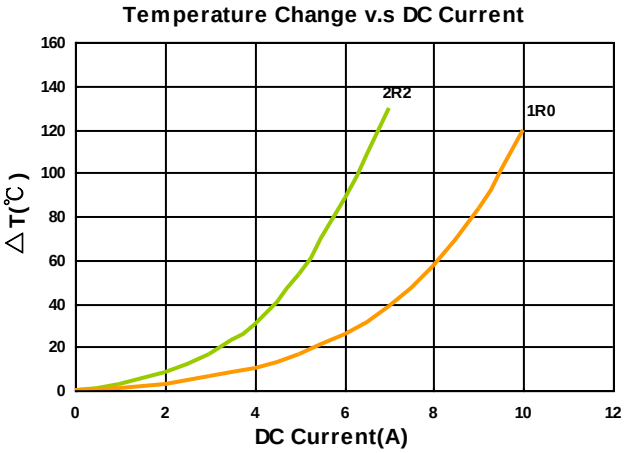
  L：WK 3260B or WK 6500P, 100kHz 0.5V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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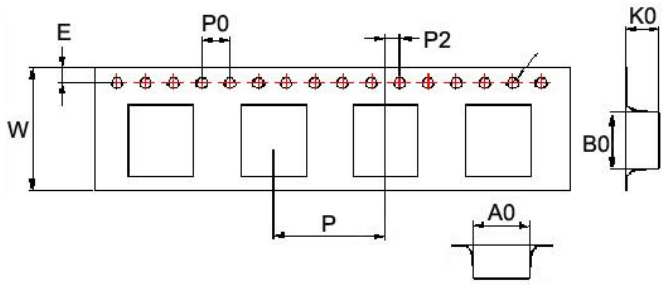
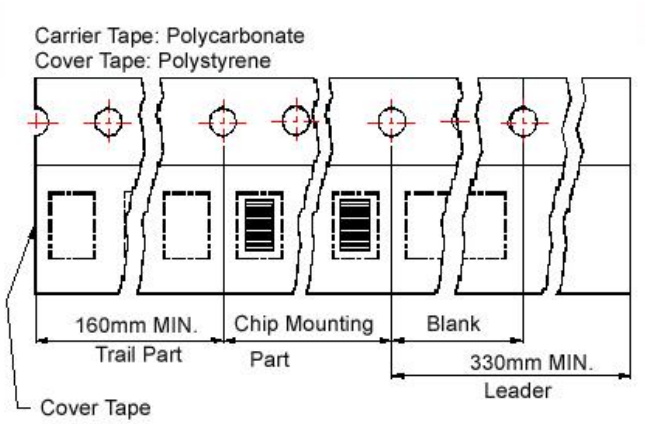
Packaging Specifications

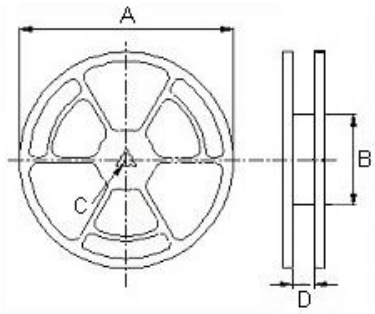
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
BMQE00040410	4.4	4.9	1.4	1.55	1.75	12	8	4	2	330	100	13	13.4	2000
BMQE00040411	4.4	4.9	1.5	1.55	1.75	12	8	4	2	330	100	13	13.4	2000
BMQE00050511	5.9	6.2	1.5	1.55	1.75	16	12	4	2	330	100	13	16	2000
BMQE00060611	6.9	7.4	1.5	1.55	1.75	16	12	4	2	330	100	13	16	1000

BMRx Series

BMRx series is designed for low profile type with low RDC and ultra large current. Its molded magnetic shielded type is suitable for high-density mounting and ultra low buzz noise. Soldering conditions can be easily confirmed when mounting onto the board. This series also provides customers with embossed carrier type packaging for automatic mounting machine.

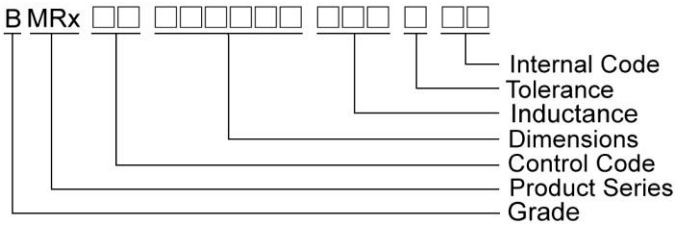
Features

- RoHS, Halogen Free and REACH Compliance
- High rated current
- Ultra low buzz noise

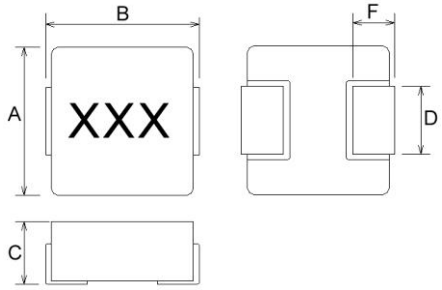
Applications

- Laptops and PCs
- Switchs and servers
- Base stations
- DC/DC converters

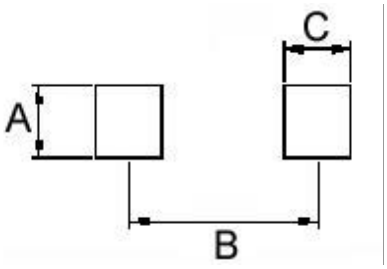
Product Identification



Shape and Dimensions



Recommended Pattern



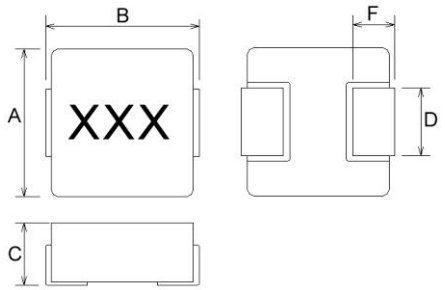
Dimensions in mm

TYPE	A	B	C	D	F
BMRx00040412	4.1±0.2	4.6±0.2	1.2Max	1.5±0.3	1.0±0.5
BMRA00040415	4.1±0.2	4.6±0.2	1.5Max	1.5±0.3	1.0±0.5
BMRA00040420	4.1±0.2	4.6±0.2	2.0Max	1.5±0.3	1.0±0.5
BMRB00050512	5.4±0.35	5.7±0.2	1.2Max	2.0±0.3	1.1±0.3
BMRx00050512-B	5.2±0.2	5.4±0.35	1.2Max	2.0±0.3	1.0±0.3
BMRx00050515	5.4±0.35	5.7±0.2	1.5Max	2.0±0.3	1.5±0.3
BMRB00050518	5.4±0.35	5.7±0.2	1.8Max	2.0±0.3	1.5±0.3
BMRB00050518-B	5.2±0.2	5.4±0.35	1.6±0.2	2.0±0.3	1.1±0.3

Dimensions in mm

TYPE	A	B	C
BMRx00040412	2.5	3.7	1.5
BMRA00040415	2.5	3.7	1.5
BMRA00040420	2.5	3.7	1.5
BMRx00050512	2.5	4.1	1.9
BMRx00050515	2.5	4.1	1.9
BMRB00050518	2.5	4.1	1.9

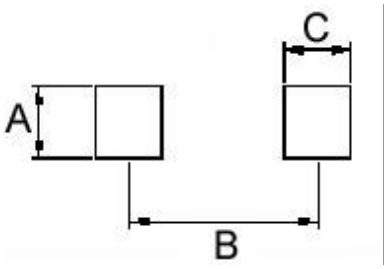
Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D	F
BMRA00050520	5.4±0.35	5.7±0.2	1.8±0.2	2.0±0.3	1.5±0.3
BMRA00050530	5.4±0.35	5.7±0.2	3.0Max	2.0±0.3	1.5±0.3
BMRB00060612	6.6±0.2	7.3Max	1.2 Max	2.9	1.6±0.5
BMRx00060615	6.6±0.2	7.3Max	1.3±0.2	2.9	1.6±0.5
BMRB00060618	6.6±0.2	7.3Max	1.6±0.2	2.9	1.6±0.5
BMRB00060624	6.6±0.2	7.3Max	2.4Max	2.9	1.6±0.5
BMRx00060630	6.6±0.2	7.3Max	3.0Max	2.9	1.6±0.5
BMRB00060650	6.6±0.2	7.3Max	5.0Max	2.9	1.6±0.5
BMRG00101030	10.1±0.3	11.6Max	3.0Max	3.0	2.5±0.5
BMRF00101040	10.1±0.3	11.6Max	4.0Max	3.0	2.5±0.5
BMRF00131350	12.6±0.2	13.8Max	5.0Max	3.7	2.7±0.7
BMRF00131360	12.6±0.2	13.8Max	5.8±0.2	5.0±0.5	2.0±0.5
BMRG00131360	12.6±0.2	13.8Max	6.0 Max	5.0±0.5	2.0±0.5
BMRF00171770	17.15Max	17.15±0.35	6.8±0.2	12±0.3	2.5±0.5

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
BMRA00050520	2.5	4.1	1.9
BMRA00050530	2.5	4.1	1.9
BMRB00060612	3.5	6.05	2.35
BMRx00060615	3.5	6.05	2.35
BMRB00060618	3.5	6.05	2.35
BMRB00060624	3.5	6.05	2.35
BMRx00060630	3.5	6.05	2.35
BMRB00060650	3.5	6.05	2.35
BMRG00101030	4.0	9.5	3.5
BMRF00101040	4.0	9.5	3.5
BMRF00131350	5.0	10.5	4.0
BMRF00131360	5.5	10.5	4.0
BMRG00131360	5.5	10.5	4.0
BMRF00171770	12.8	14.7	3.5

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
BMRA00040412R22MA1	0.22	20	100	12	11.5	8.5
BMRA00040412R33MA1	0.33	20	100	19	8.5	6.5
BMRA00040412R47MA1	0.47	20	100	25	7.0	5.0
BMRA00040412R68MA1	0.68	20	100	36	6.0	4.5
BMRA000404121R0MA1	1.0	20	100	47	5.2	4.2
BMRA000404121R5MA1	1.5	20	100	75	4.0	3.25
BMRA000404122R2MA1	2.2	20	100	83.5	3.5	2.75
BMRA000404123R3MA1	3.3	20	100	165	3.0	2.0
BMRA000404124R7MA1	4.7	20	100	195	2.8	1.8

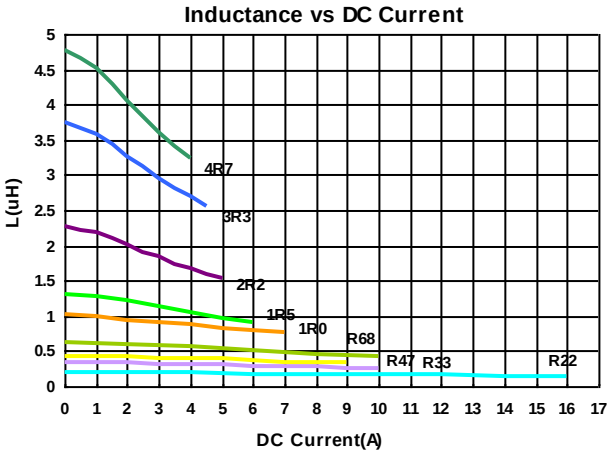
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

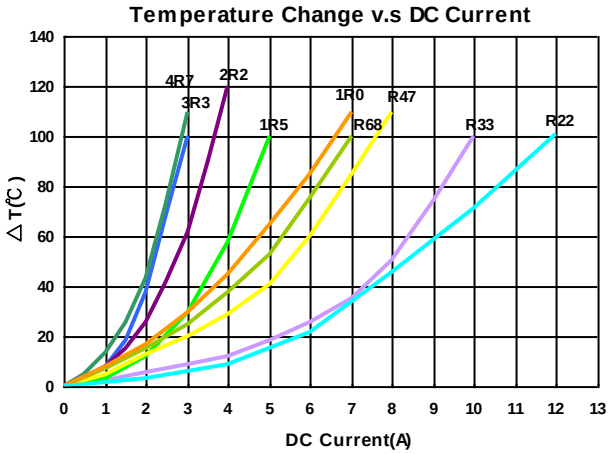
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

  L：WK 3260B or WK 6500P, 100kHz 0.5V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

Test Instruments：WK3260B Impedance / Material Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BMRB000404124R7MA1	4.7	20	100	195(175)	2.2(2.8)	1.6(1.8)
BMRB000404126R8MA1	6.8	20	100	368(320)	1.9(2.2)	1.5(1.7)

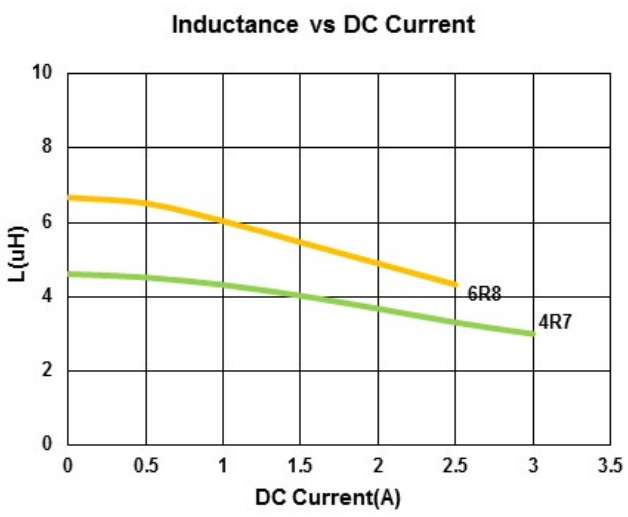
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

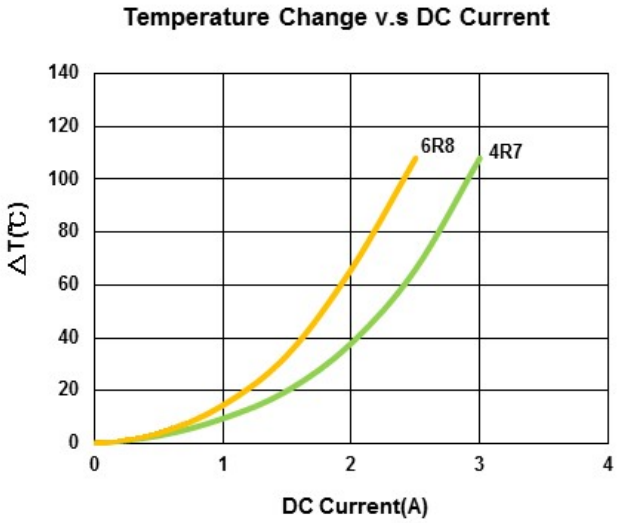
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

  L：WK 3260B or WK 6500P, 100kHz 0.5V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
BMRA000404151R0MA1	1.0	20	100	42	7	4
BMRA000404151R5MA1	1.5	20	100	50	6	3.5
BMRA000404152R2MA1	2.2	20	100	79	5	3
BMRA000404153R3MA1	3.3	20	100	132	4.5	2.3
BMRA000404154R7MA1	4.7	20	100	146	4	2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

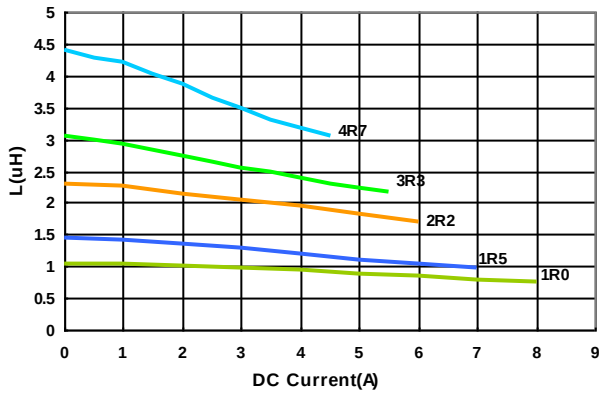
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

  L：WK 3260B or WK 6500P, 100kHz 0.5V

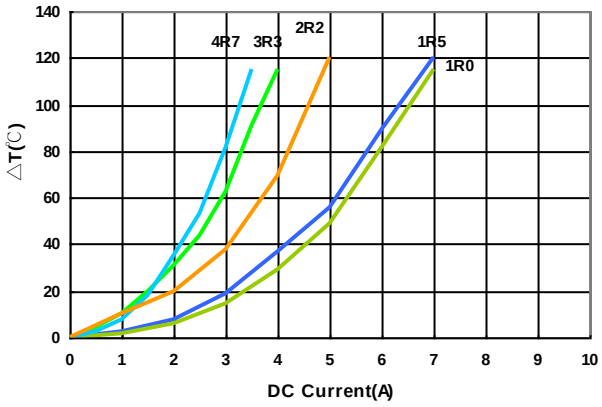
  RDC：CHEN HWA 502 or CHEN HWA 46502B

Test Instruments：WK3260B Impedance / Material Analyzer

Inductance vs DC Current



Temperature Change v.s DC Current



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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
BMRA00040420R10MA1	0.10	20	100	4	25	12.0
BMRA00040420R22MA1	0.22	20	100	6.6	12.5	9.0
BMRA00040420R47MA1	0.47	20	100	14	9.5	7.0
BMRA00040420R56MA1	0.56	20	100	16	10.0	6.5
BMRA00040420R68MA1	0.68	20	100	21	8.0	5.2
BMRA000404201R0MA1	1.0	20	100	27	7.0	4.5
BMRA000404201R5MA1	1.5	20	100	46	6.0	4.0
BMRA000404202R2MA1	2.2	20	100	58	5.0	3.0
BMRA000404203R3MA1	3.3	20	100	87	4.0	2.5
BMRA000404204R7MA1	4.7	20	100	126	3.0	2.2
BMRA000404206R8MA1	6.8	20	100	135	2.5	2.0
BMRA000404208R2MA1	8.2	20	100	216	2.5	2.0
BMRA00040420100MA1	10	20	100	258	2.0	1.6

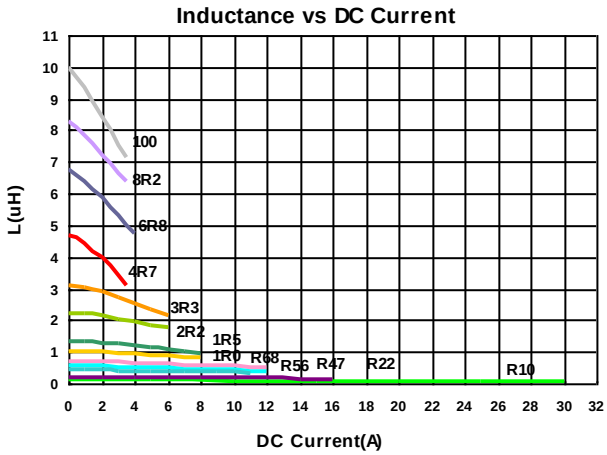
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

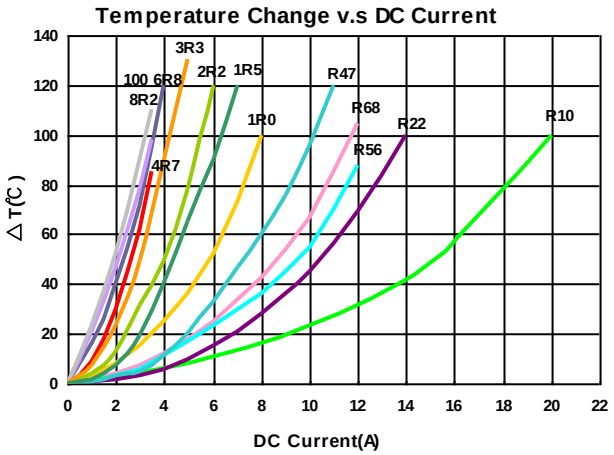
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

  L：WK 3260B or WK 6500P, 100KHz 0.5V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

Test Instruments：WK3260B Impedance / Material Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

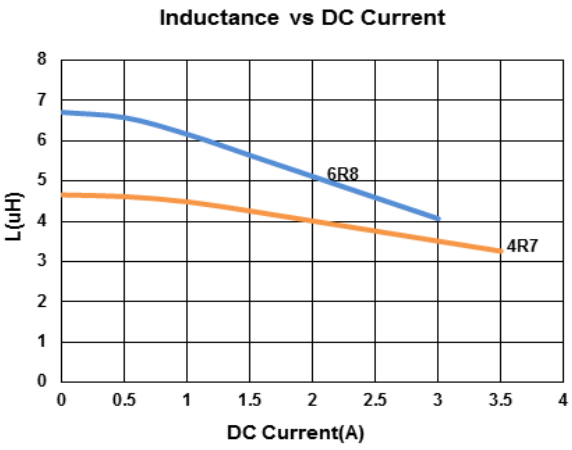
Electrical Characteristics

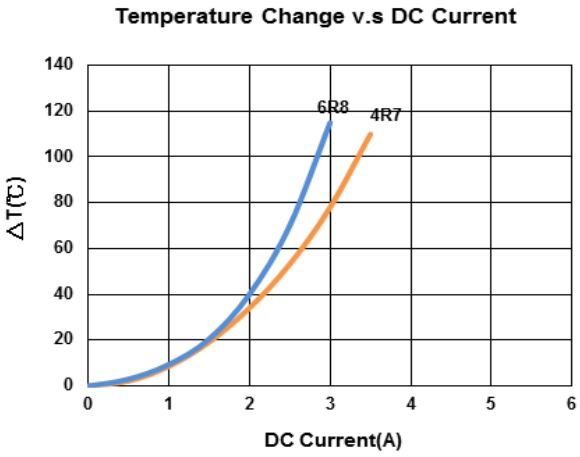
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BMRA000505124R7MB1	4.7	20	100	163(144)	2.9(3.5)	2(2.3)
BMRA000505126R8MB1	6.8	20	100	245(220)	2.2(2.4)	1.85(2)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：
  L：WK 3260B or WK 6500P, 100kHz 0.5V
  RDC：CHEN HWA 502 or CHEN HWA 46502B

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
BMRB000505121R0MA1	1.0	20	100	30	6.0	5.0
BMRB000505122R2MA1	2.2	20	100	76	4.0	3.5
BMRB000505126R8MA1	6.8	20	100	250	2.3	2.0

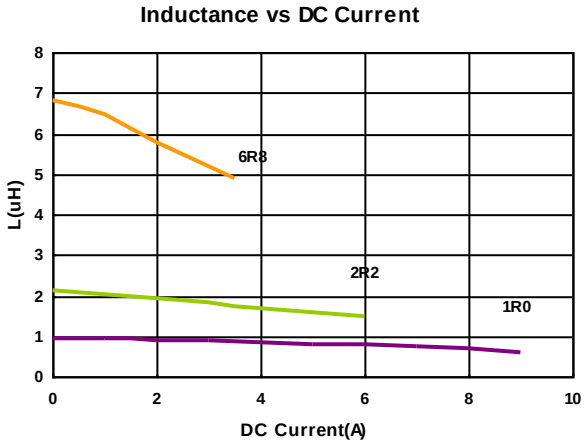
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

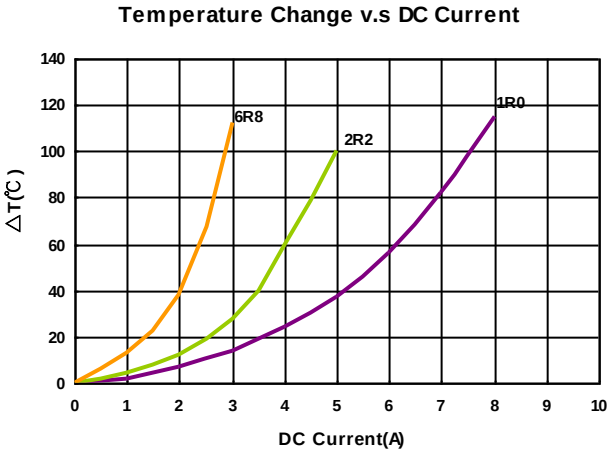
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

  L：WK 3260B or WK 6500P, 100kHz 0.5V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BMRB000505124R7MB1	4.7	20	100	135(110)	3.2(3.7)	2.7(3)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：
  L：WK 3260B or WK 6500P, 100kHz 0.5V
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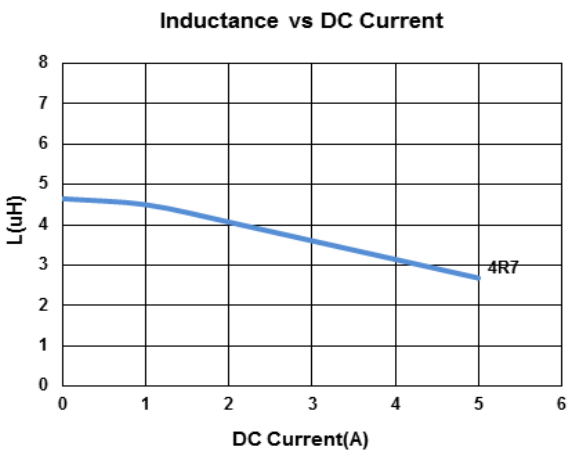
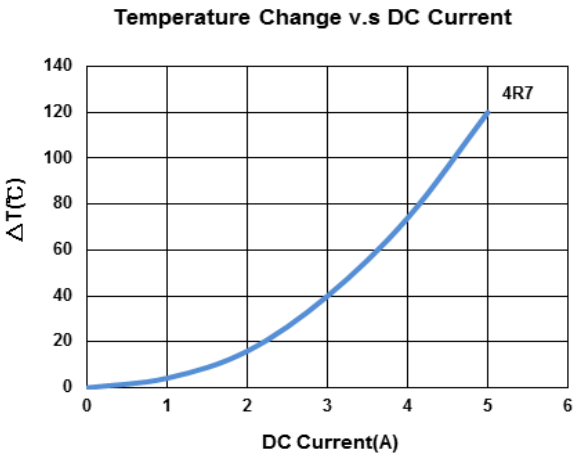
Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
BMRA00050515R47MA1	0.47	20	100	16	12	8.0
BMRA00050515R68MA1	0.68	20	100	23	10	6.0
BMRA000505151R0MA1	1.0	20	100	33	8.0	5.0
BMRA000505151R5MA1	1.5	20	100	50	6.0	4.0
BMRA000505152R2MA1	2.2	20	100	68	6.0	3.3
BMRA000505153R3MA1	3.3	20	100	84	5.0	3.0
BMRA000505154R7MA1	4.7	20	100	135	4.0	2.5
BMRA000505155R6MA1	5.6	20	100	175	3.5	2.2
BMRA000505156R8MA1	6.8	20	100	192	3.0	2.0
BMRA00050515100MA1	10	20	100	195	2.0	1.5

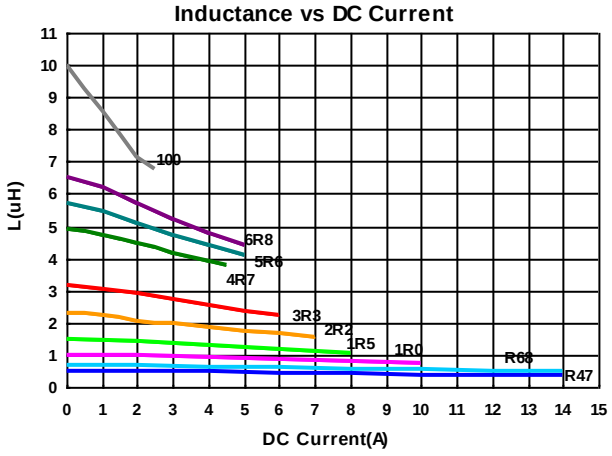
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

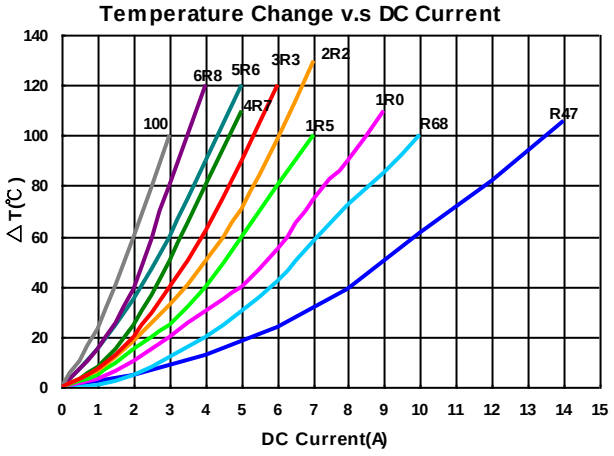
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

  L：WK 3260B or WK 6500P, 100kHz 0.5V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
BMRB000505151R0MA1	1.0	20	100	23	9	6.5
BMRB000505152R2MA1	2.2	20	100	64	6	3.3
BMRB000505154R7MA1	4.7	20	100	106	4	3.0
BMRB00050515100MA1	10	20	100	170	3	2.0

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
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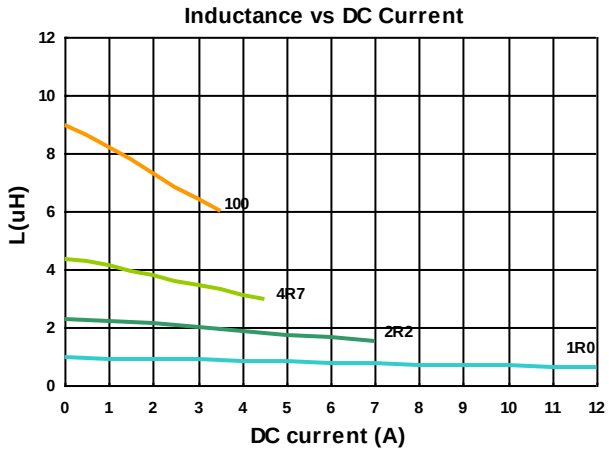

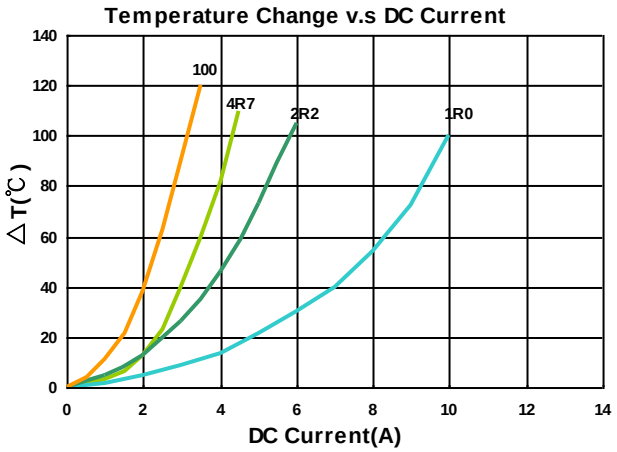

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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.
BMRB00050518R47MB1	0.47	20	100	8.5(7.6)	15.5	10.5
BMRB00050518R68MB1	0.68	20	100	13.8(12)	13	9
BMRB000505181R0MB1	1.0	20	100	18(15)	10	8
BMRB000505181R5MB1	1.5	20	100	28(23)	9	6.2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

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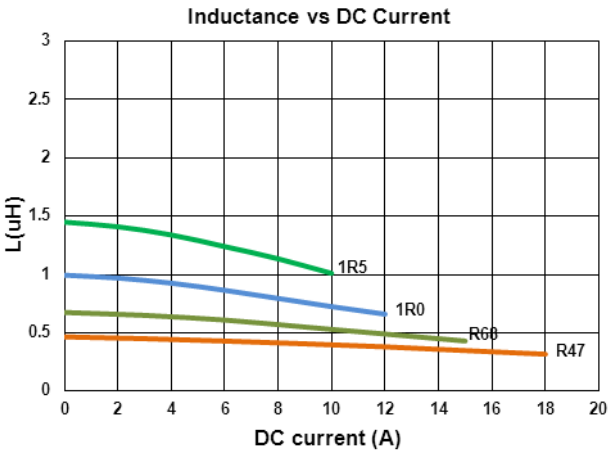
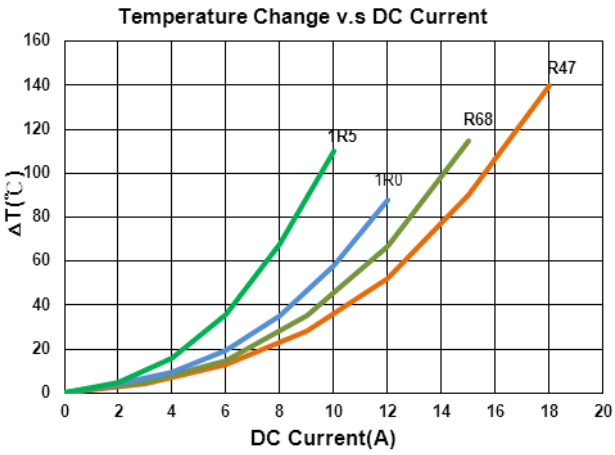
  RDC：CHEN HWA 502 or CHEN HWA 46502B

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
BMRB00050518R47MA1	0.47	20	100	9.0	15.5	10.5
BMRB000505181R0MA1	1.0	20	100	17	9.0	8.0
BMRB000505182R2MA1	2.2	20	100	35	6.5	5.0
BMRB000505183R3MA1	3.3	20	100	58	5.0	4.5
BMRB000505184R7MA1	4.7	20	100	85	4.0	3.5
BMRB000505186R8MA1	6.8	20	100	120	3.4	2.8
BMRB00050518100MA1	10	20	100	155	3.0	2.5

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
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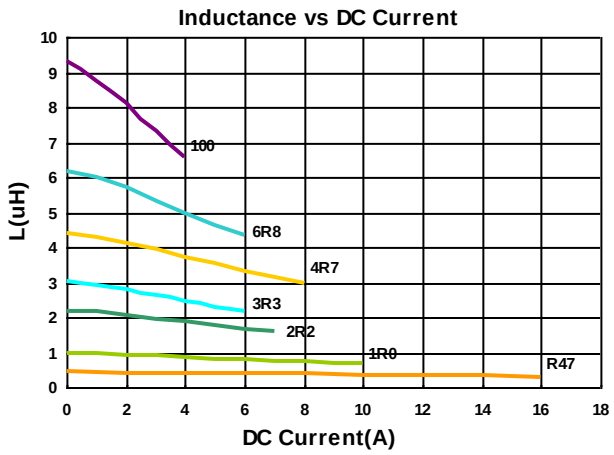

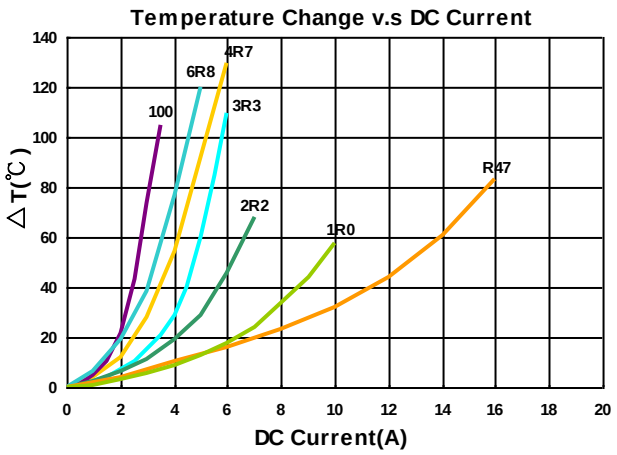

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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
BMRA00050520R47MA1	0.47	20	100	9	15.5	10.5
BMRA000505201R0MA1	1.0	20	100	30	7.0	6.0
BMRA000505201R5MA1	1.5	20	100	35	6.5	5.5
BMRA000505202R2MA1	2.2	20	100	45	6.0	4.0
BMRA000505203R3MA1	3.3	20	100	60	5.5	3.5
BMRA000505204R7MA1	4.7	20	100	90	5.0	3.0
BMRA000505205R6MA1	5.6	20	100	120	4.5	2.8
BMRA000505206R8MA1	6.8	20	100	125	4.5	2.8
BMRA00050520100MA1	10	20	100	180	4.0	2.3

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

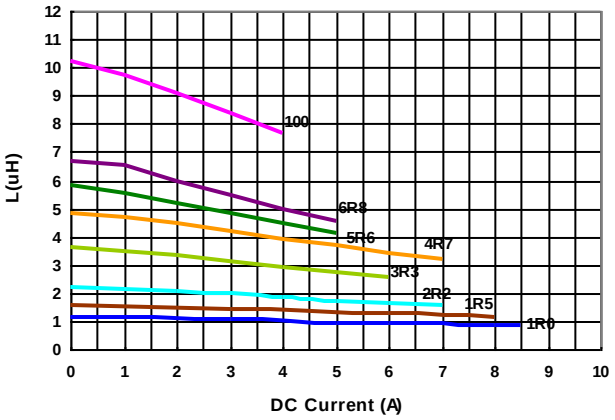
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

  L：WK 3260B or WK 6500P, 100kHz 0.5V

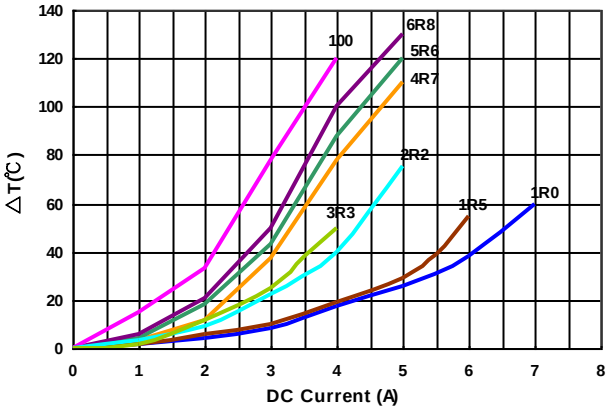
  RDC：CHEN HWA 502 or CHEN HWA 46502B

Test Instruments：WK3260B Impedance / Material Analyzer

Inductance v.s DC Current



Temperature Change v.s DC Current



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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ.	Irms (A)Typ.
BMRA00050530R20MA1	0.20	20	100	3.9	14.5	17.0
BMRA00050530R47MA1	0.47	20	100	8	14	10.0
BMRA00050530R68MA1	0.68	20	100	12	14	8.0
BMRA000505301R0MA1	1.0	20	100	15	11	7.0
BMRA000505301R2MA1	1.2	20	100	15	11	6.5
BMRA000505301R5MA1	1.5	20	100	25	10	6.0
BMRA000505302R2MA1	2.2	20	100	35	8	5.0
BMRA000505303R3MA1	3.3	20	100	46	7	4.5
BMRA000505304R7MA1	4.7	20	100	60	6	4.0
BMRA000505306R8MA1	6.8	20	100	110	5	3.0
BMRA00050530100MA1	10	20	100	126	4.5	2.5

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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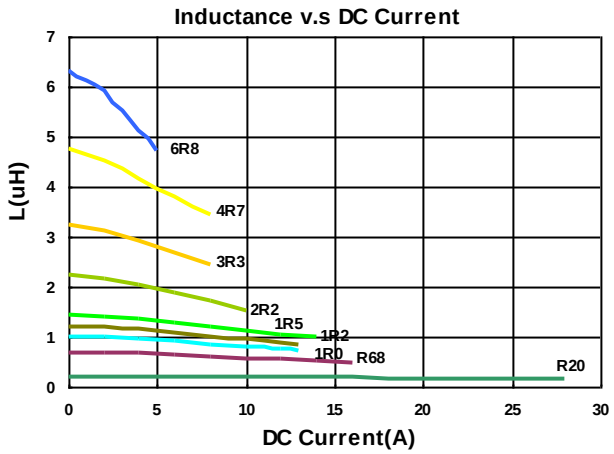

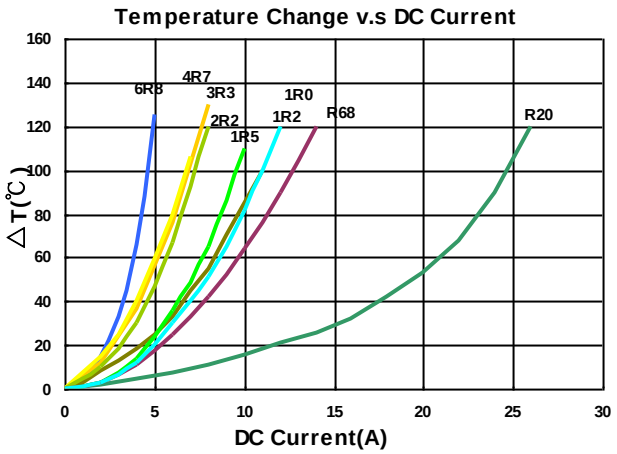

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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
BMRB000606124R7MA1	4.7	20	100	122	3.5	2.5
BMRB000606126R8MA1	6.8	20	100	210	2.8	2.2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
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- Measure Equipment：

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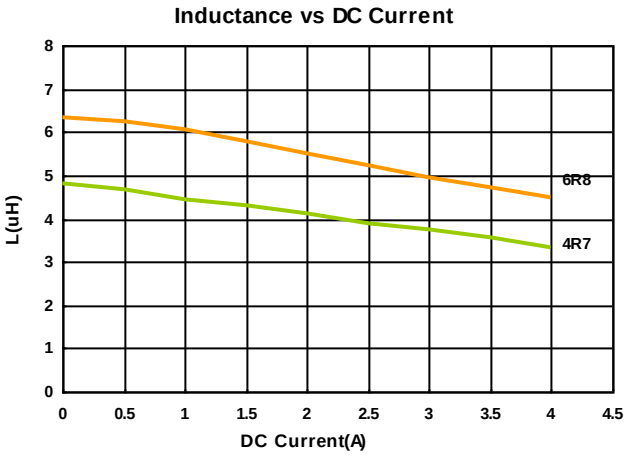

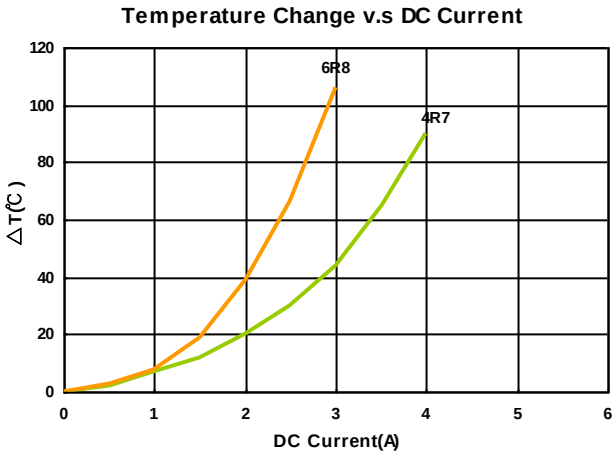

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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ.	Irms (A)Typ.
BMRA000606152R2MA1	2.2	20	100	54	6.0	3.5
BMRA000606153R3MA1	3.3	20	100	63	5.5	3.3
BMRA000606154R7MA1	4.7	20	100	105	4.5	3.2
BMRA000606156R8MA1	6.8	20	100	140	4.0	2.5

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
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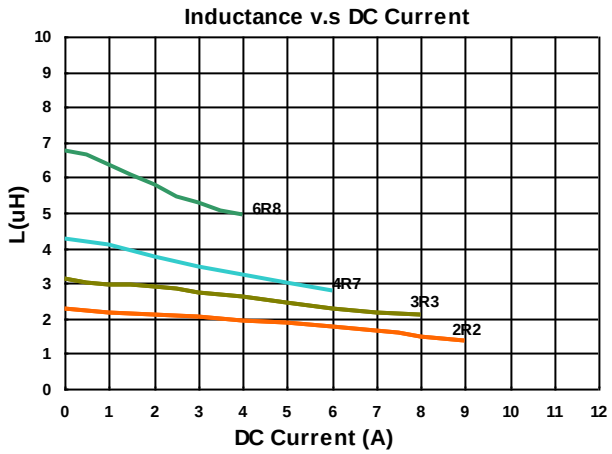

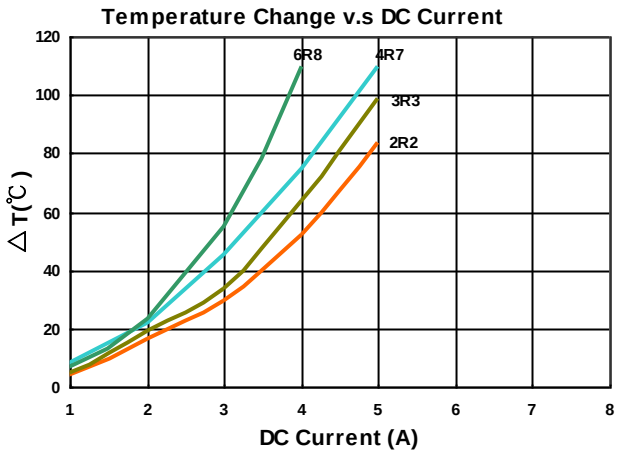

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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ.	Irms (A)Typ.
BMRB000606151R0MA1	1.0	20	100	21	9.0	5.5
BMRB000606153R3MA1	3.3	20	100	63	5.5	3.3
BMRB00060615100MA1	10	20	100	175	3.0	2.0

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
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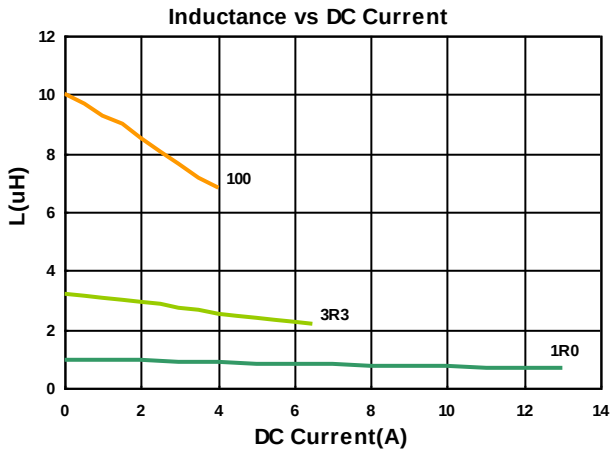

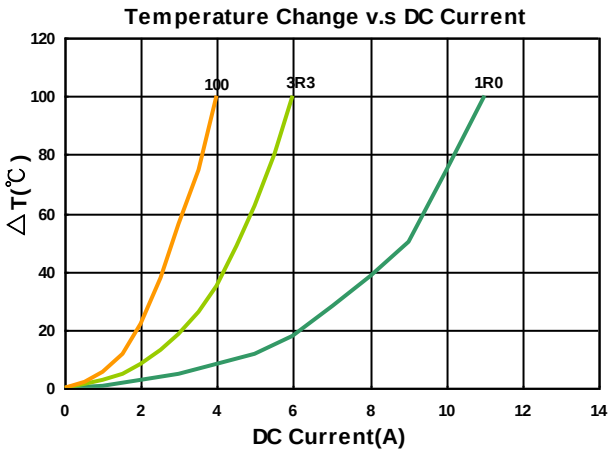

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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ.	Irms (A)Typ.
BMRB00060618R22MA1	0.22	20	100	5.2	29	14
BMRB00060618R33MA1	0.33	20	100	6.8	22	12
BMRB00060618R47MA1	0.47	20	100	8.4	18	11
BMRB00060618R68MA1	0.68	20	100	12.7	17	9
BMRB000606181R0MA1	1.0	20	100	17	14	7
BMRB000606181R5MA1	1.5	20	100	26	12	6.5
BMRB000606182R2MA1	2.2	20	100	35	10	6.0
BMRB000606184R7MA1	4.7	20	100	70	5	3.5
BMRB000606186R8MA1	6.8	20	100	110	3.5	2.8
BMRB00060618100MA1	10	20	100	155	2.5	2.3

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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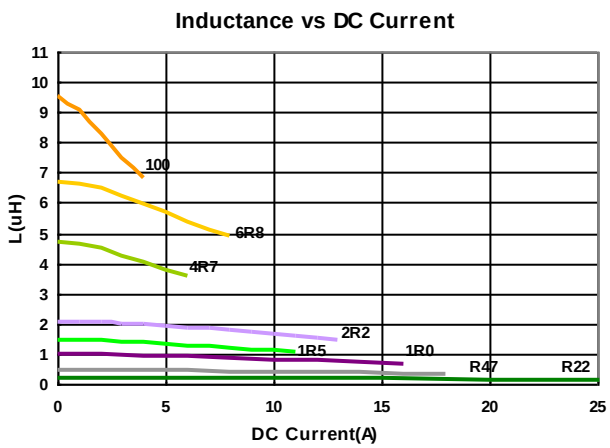

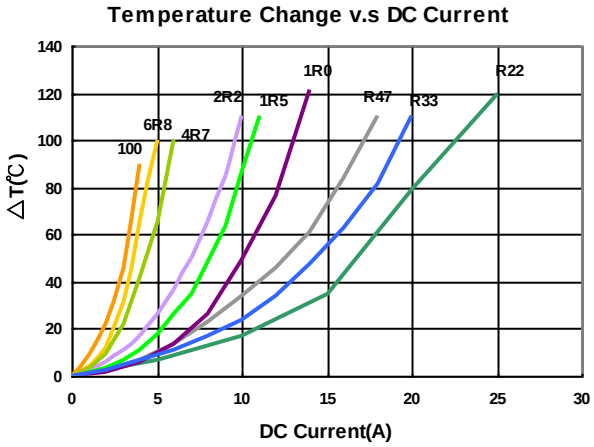

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ.	Irms (A)Typ.
BMRB00060624R22MA1	0.22	20	100	3.2	34	21
BMRB00060624R33MA1	0.33	20	100	4.1	24.5	18
BMRB00060624R47MA1	0.47	20	100	5.1	22	15
BMRB000606241R0MA1	1.0	20	100	13.5	16	9
BMRB000606241R5MA1	1.5	20	100	20	15	9
BMRB000606242R2MA1	2.2	20	100	28	11	7
BMRB000606243R3MA1	3.3	20	100	39	10	5.5
BMRB000606244R7MA1	4.7	20	100	50	10	5.0
BMRB000606246R8MA1	6.8	20	100	70	6.0	4.0
BMRB00060624100MA1	10	20	100	101	4.0	3.1
BMRB00060624150MA1	15	20	100	160	3.3	2.5

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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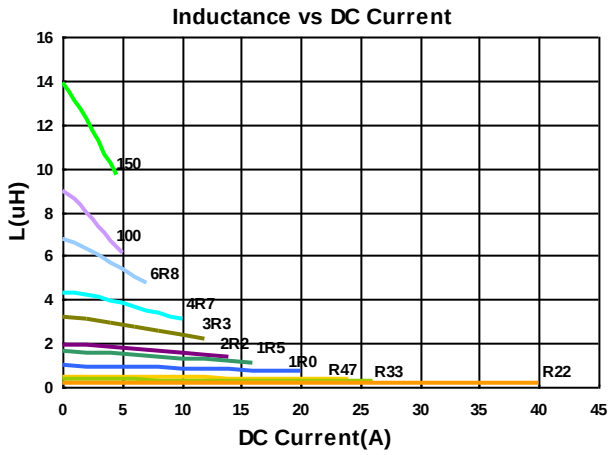

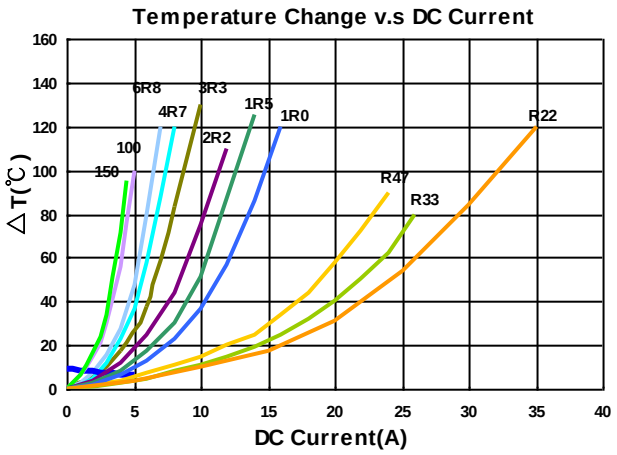

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
BMRA00060630R10MA1	0.10	20	100	1.5	45	37
BMRA00060630R22MA1	0.22	20	100	2.8	40	23
BMRA00060630R33MA1	0.33	20	100	4.2	33	20
BMRA00060630R47MA1	0.47	20	100	5.5	27	16.5
BMRA00060630R56MA1	0.56	20	100	5.5	27	16.5
BMRA00060630R68MA1	0.68	20	100	6.3	24	15
BMRA00060630R82MA1	0.82	20	100	8.0	23	13
BMRA000606301R0MA1	1.0	20	100	10	22	12
BMRA000606301R5MA1	1.5	20	100	15	18	9.5
BMRA000606301R8MA1	1.8	20	100	15	14	9.5
BMRA000606302R2MA1	2.2	20	100	20	14	8.5
BMRA000606303R3MA1	3.3	20	100	35	12	6.0
BMRA000606304R7MA1	4.7	20	100	40	9	5.5
BMRA000606305R6MA1	5.6	20	100	40	8	5.5
BMRA000606306R8MA1	6.8	20	100	60	8	4.5
BMRF000606308R2MA1	8.2	20	100	60	6	4.5
BMRF00060630100MA1	10	20	100	68	5.5	4.0
BMRA00060630150MA1	15	20	100	122	5.0	3.0
BMRA00060630220MA1	22	20	100	145	3.2	3.0
BMRA00060630330MA1	33	20	100	270	3.0	2.0

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

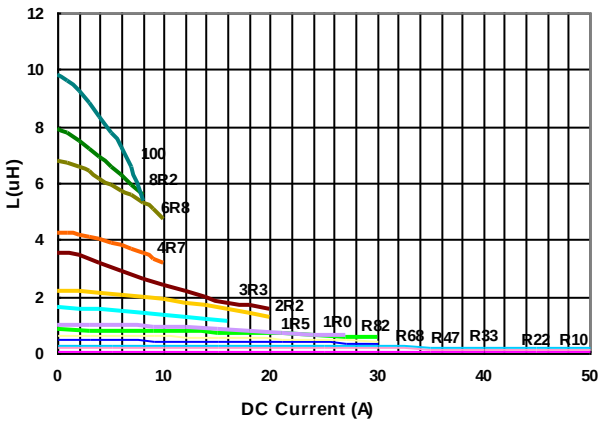
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

  L：WK 3260B or WK 6500P, 100kHz 0.5V

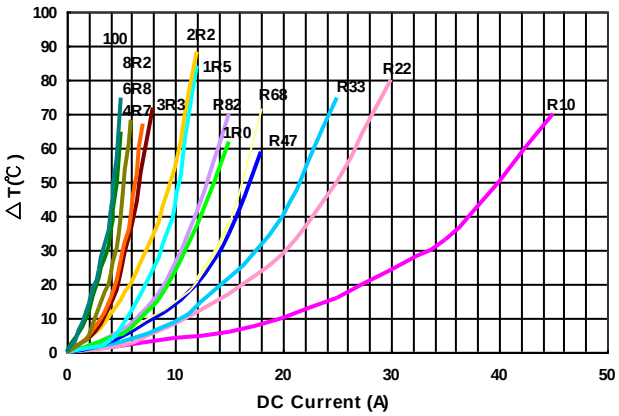
  RDC：CHEN HWA 502 or CHEN HWA 46502B

Test Instruments：WK3260B Impedance / Material Analyzer

Inductance v.s DC Current



Temperature Change v.s DC Current



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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ.	Irms (A)Typ.
BMRB00060630R10MA1	0.10	20	100	1.7	60	32.5
BMRB00060630R15MA1	0.15	20	100	2.5	40	30
BMRB00060630R22MA1	0.22	20	100	3.0	34	23
BMRB00060630R33MA1	0.33	20	100	3.5	25	21
BMRB00060630R36MA1	0.36	20	100	3.9	24	20
BMRB00060630R47MA1	0.47	20	100	4.1	20	18
BMRB00060630R56MA1	0.56	20	100	4.5	18	16.5
BMRB00060630R68MA1	0.68	20	100	5.3	17	16
BMRB00060630R82MA1	0.82	20	100	6.0	16	14
BMRB000606301R0MA1	1.0	20	100	7.4	15	12
BMRB000606301R2MA1	1.2	20	100	10	14	10
BMRB000606301R5MA1	1.5	20	100	12.1	14	10
BMRB000606302R2MA1	2.2	20	100	15	10	8
BMRB000606303R3MA1	3.3	20	100	22	9.5	6.5
BMRB000606304R7MA1	4.7	20	100	33	6.5	5.5
BMRB000606305R6MA1	5.6	20	100	42	6	5.5
BMRB000606306R8MA1	6.8	20	100	50	6	4.5
BMRB000606308R2MA1	8.2	20	100	60	6	4.5
BMRB00060630100MA1	10	20	100	68	5.5	4

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
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- Measure Equipment：

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  RDC：CHEN HWA 502 or CHEN HWA 46502B

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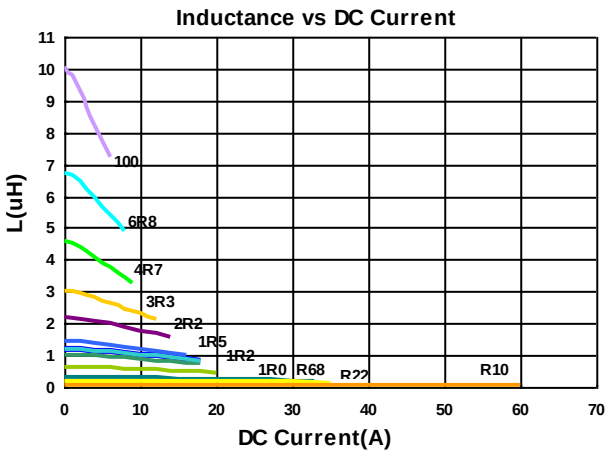

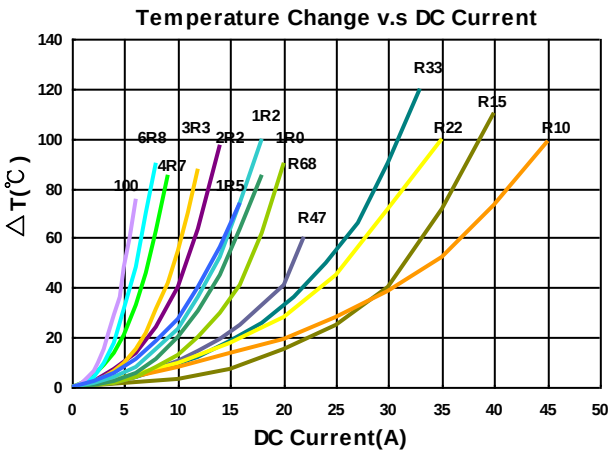

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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
BMRB00060650R56MA1	0.56	20	100	3.3	20	20
BMRB000606501R0MA1	1.0	20	100	6.5	15	13
BMRB000606502R2MA1	2.2	20	100	12.5	12	8
BMRB000606503R3MA1	3.3	20	100	20.9	9	7
BMRB000606504R7MA1	4.7	20	100	25.0	7	6.5

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
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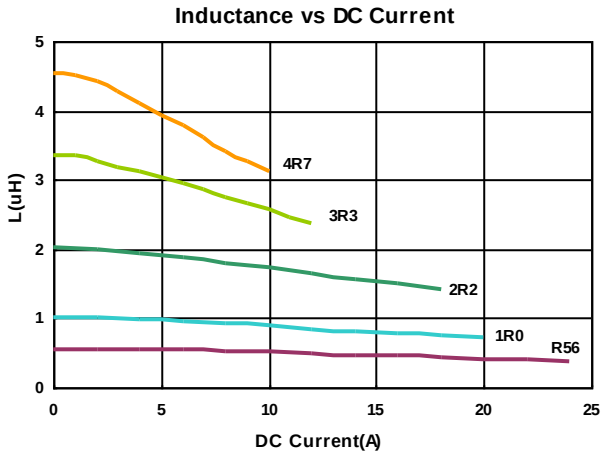
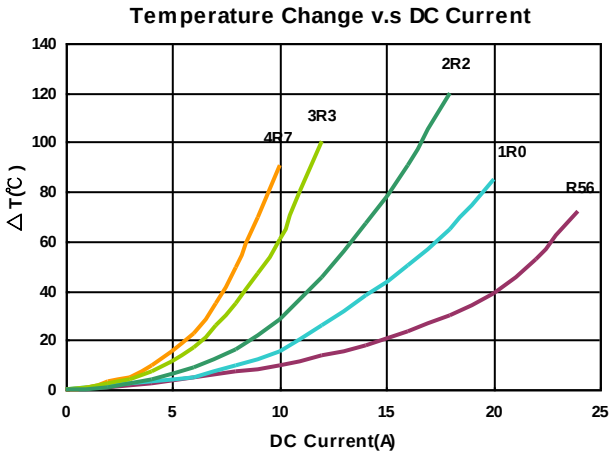
Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
BMRG00101030R33MD1	0.33	20	100	1.6	32	23
BMRG001010301R0MD1	1.0	20	100	6.0	21	15
BMRG001010303R3MA1	3.3	20	100	16.0	14	9

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
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- Absolute maximum voltage 30VDC
- Measure Equipment：

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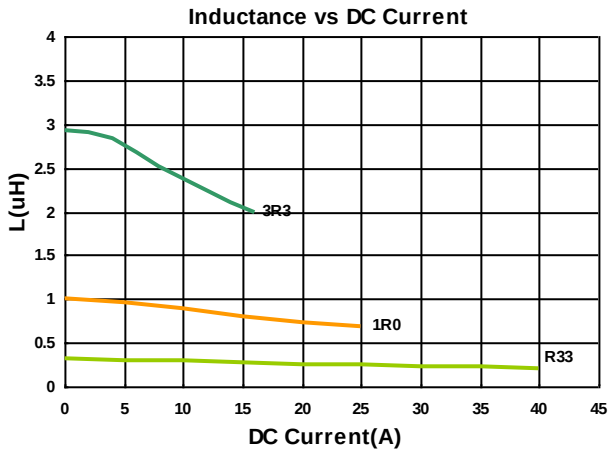

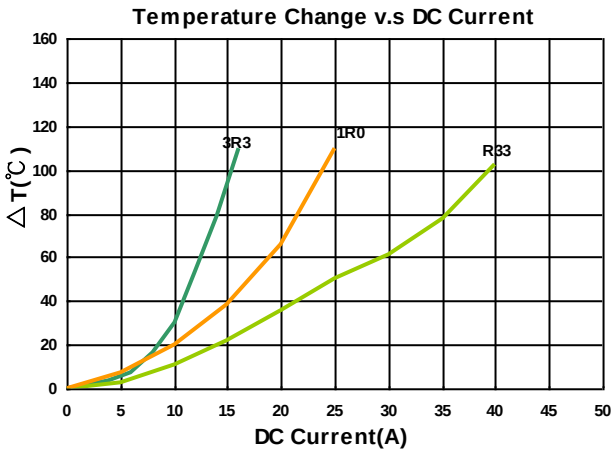

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
BMRF00101040R22MD1	0.22	20	100	0.6	45	35
BMRF00101040R36MD1	0.36	20	100	1.2	42	34
BMRF00101040R45MD1	0.45	20	100	1.2	38	33
BMRF00101040R47MD1	0.47	20	100	1.2	38	33
BMRF00101040R56MD1	0.56	20	100	1.55	32	27
BMRF00101040R68MD1	0.68	20	100	1.55	30	27
BMRF00101040R90MD1	0.9	20	100	3.0	20	22
BMRF001010401R0MD1	1.0	20	100	3.1	26	20
BMRF001010401R5MD1	1.5	20	100	4.2	22	16
BMRF001010401R8MD1	1.8	20	100	5	16	15.3
BMRF001010402R2MD1	2.2	20	100	7	16	14
BMRF001010403R3MA1	3.3	20	100	13.2	12	11
BMRF001010404R7MA1	4.7	20	100	16.5	12	9
BMRF001010406R8MA1	6.8	20	100	25	10	6
BMRF001010408R2MA1	8.2	20	100	30	9	6
BMRF00101040100MA1	10	20	100	30	7	6.5
BMRF00101040150MA1	15	20	100	45	6	6.25
BMRF00101040220MA1	22	20	100	64	4.5	4.5

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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- Absolute maximum voltage 30VDC
- Measure Equipment：

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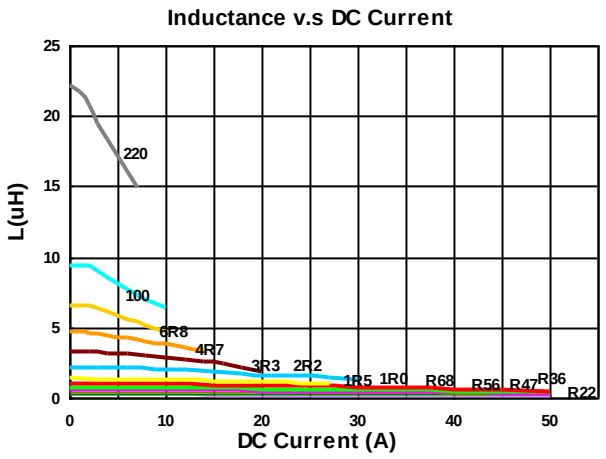
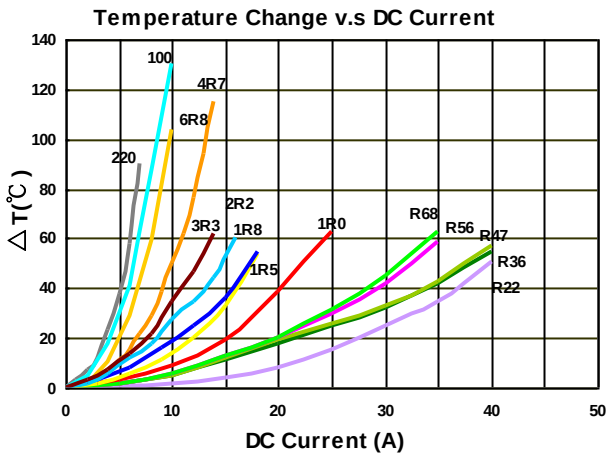
Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
BMRF00131350R47MD1	0.47	20	100	1.2	46	37
BMRF001313501R0MD1	1.0	20	100	2.5	37	29
BMRF001313501R5MD1	1.5	20	100	3.0	28	28
BMRF001313504R7MD1	4.7	20	100	11.5	16	11
BMRF001313506R8MA1	6.8	20	100	22	14	9
BMRF00131350100MA1	10	20	100	35	13	7

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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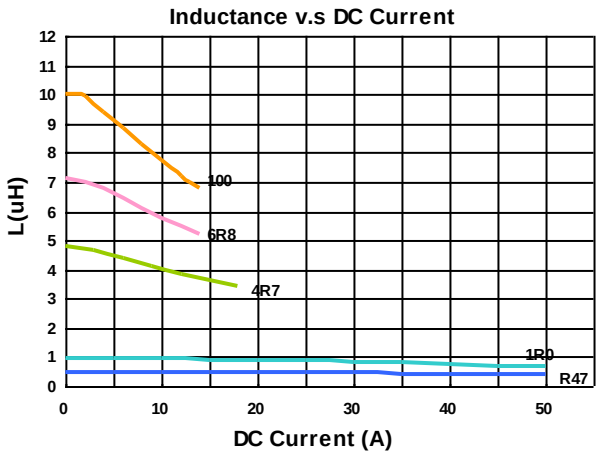

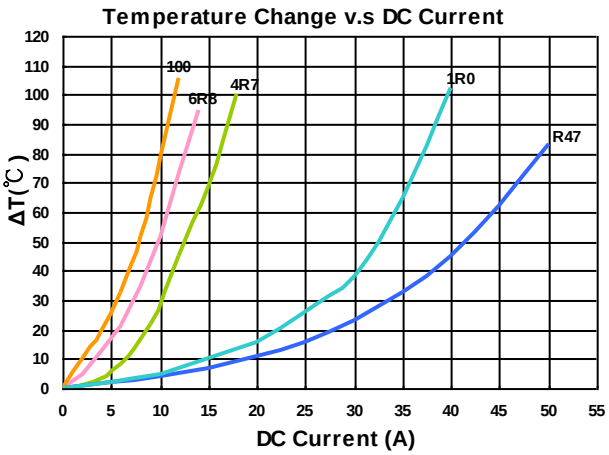

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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BMRF001313608R2MA1	8.2	20	100	16(13.5)	13.5(16)	10(11)
BMRF00131360100MA1	10	20	100	20.7(17.7)	11.5(13.5)	9.5(10)
BMRF00131360150MA1	15	20	100	27.5(24)	9(10)	7(8)
BMRF00131360220MA1	22	20	100	39(33)	6.9(7.6)	6.5(7)
BMRF00131360330MA1	33	20	100	70(60)	5.4(6.1)	4.7(5)
BMRF00131360470MA1	47	20	100	88(78)	5.2(5.7)	4(4.5)
BMRF00131360680MA1	68	20	100	140(119.5)	4.7(5.5)	3(3.5)
BMRF00131360101MA1	100	20	100	198(178)	3.5(4)	2.7(3)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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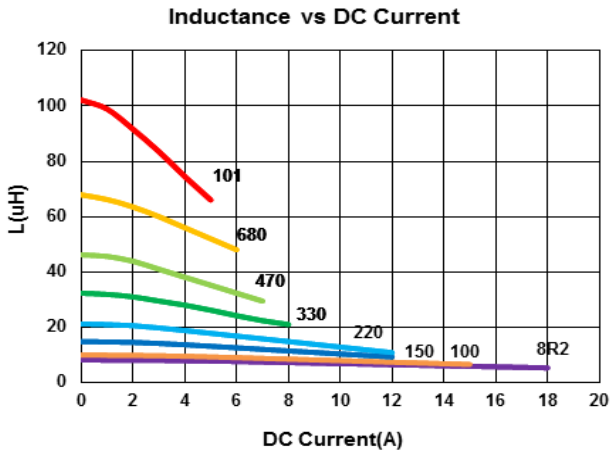

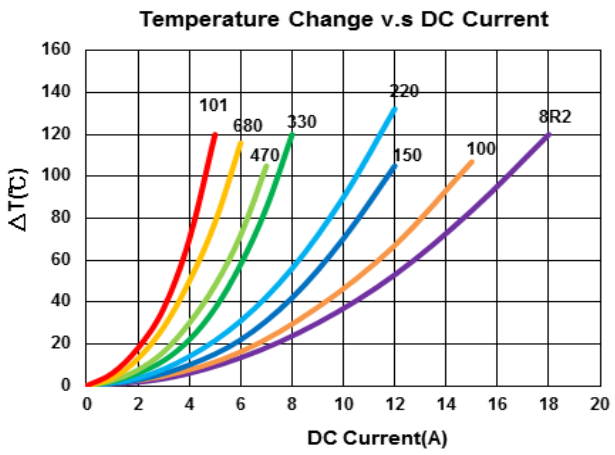

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BMRG00131360100MA1	10	20	100	20.7	12.5	10
BMRG00131360150MA1	15	20	100	29.0	9.0	6.0
BMRG00131360220MA1	22	20	100	39.5	7.5	5.0
BMRG00131360330MA1	33	20	100	75	6.0	4.0

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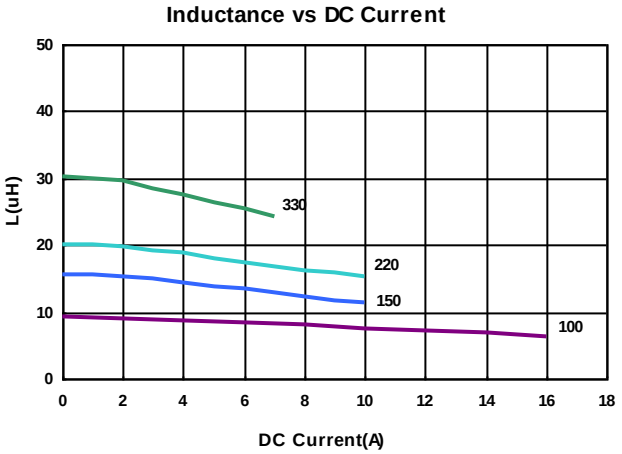

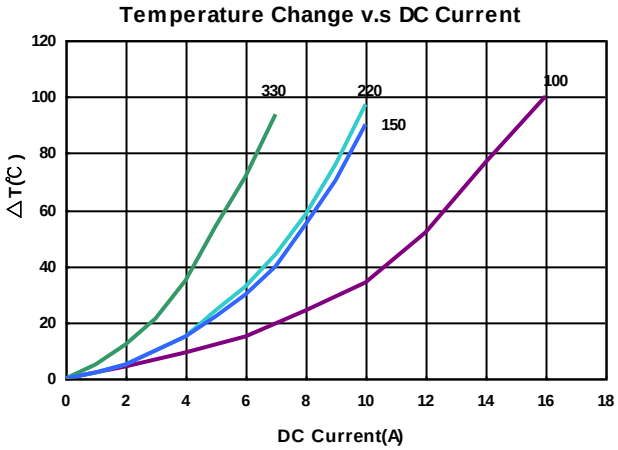

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BMRF001717708R2MB1	8.2	20	100	8.6(8)	20(22)	15(16)
BMRF00171770150MB1	15	20	100	15.3(13.8)	13.5(15.5)	11(12)
BMRF00171770220MB1	22	20	100	23(20)	10.5(12)	8.7(9.7)
BMRF00171770330MB1	33	20	100	37(32)	8.6(10.5)	8(9.2)
BMRF00171770470MB1	47	20	100	47(40)	7.5(8.5)	6(6.8)
BMRF00171770680MB1	68	20	100	85(73)	6.8(8)	4.7(5.2)

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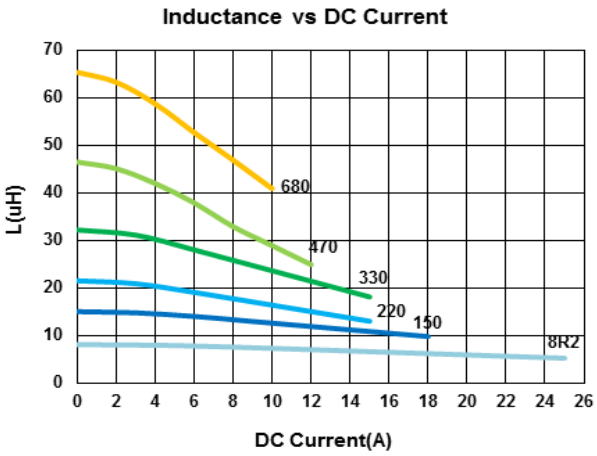

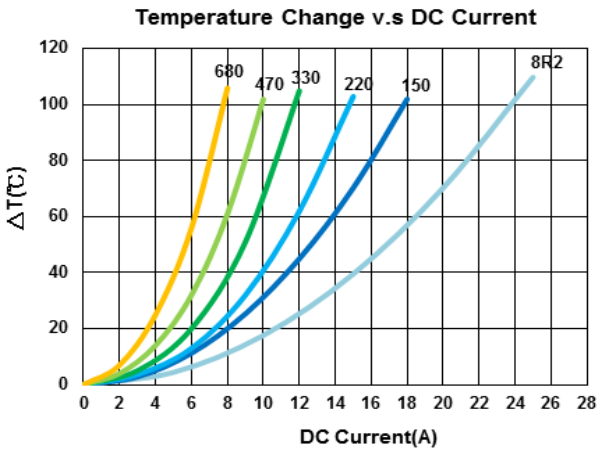

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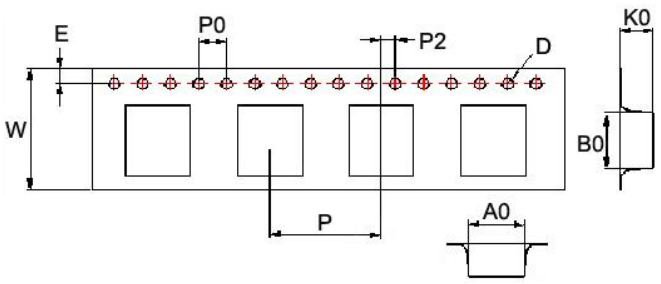
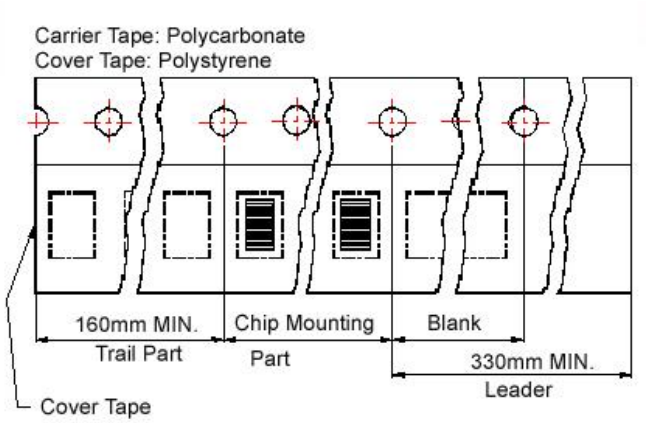
Packaging Specifications

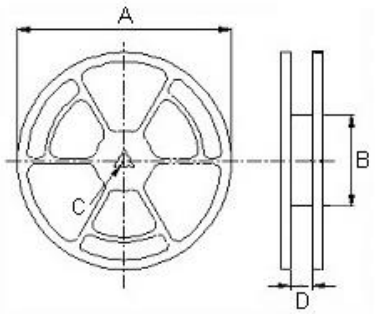
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
BMRx00040412	4.3	4.9	1.5	1.55	1.75	12	8	4	2	330	100	13	13.4	2000
BMRA00040415	4.4	4.9	1.8	1.55	1.75	12	8	4	2	330	100	13	13.4	2000
BMRA00040420	4.3	4.9	2.4	1.55	1.75	12	8	4	2	330	100	13	13.4	2000
BMRB00050512	5.9	6.2	1.5	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BMRx00050512-B	5.5	6.0	1.5	1.55	1.75	12	8	4	2	330	100	13	13.4	1000
BMRx00050515	5.7	6.1	1.9	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BMRB00050518-B	5.5	6.0	2.2	1.55	1.75	12	8	4	2	330	100	13	13.4	1000
BMRB00050518	5.9	6.2	2.2	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BMRA00050520	5.7	5.9	2.4	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BMRA00050530	5.9	6.2	3.4	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BMRB00060612	6.9	7.6	1.6	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BMRx00060615	6.9	7.6	2.1	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BMRB00060618	6.9	7.6	2.1	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BMRB00066024	7.0	7.6	2.7	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BMRx00060630	6.9	7.6	3.4	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BMRB00060650	6.9	7.6	5.4	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BMRG00101030	10.6	11.7	3.25	1.55	1.75	24	16	4	2	330	100	13	24.4	500
BMRF00101040	10.6	11.7	4.25	1.55	1.75	24	16	4	2	330	100	13	24.4	500
BMRF00131350	13	14	5.25	1.55	1.75	24	16	4	2	330	100	13	24.4	500
BMRx00131360	13	14	6.25	1.55	1.75	24	16	4	2	330	100	13	24.4	500
BMRF00171770	17.6	18.7	7.25	1.55	1.75	32	24	4	2	330	100	13	32	200

BMBx Series

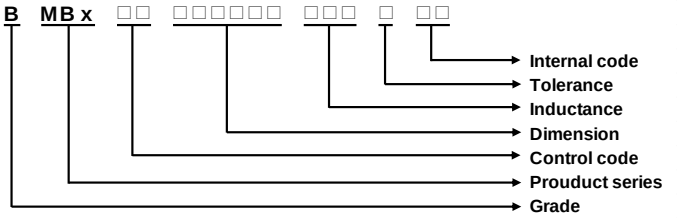
Features

- Operating Temperature up to 125℃
- Halogen Free
- High saturation current

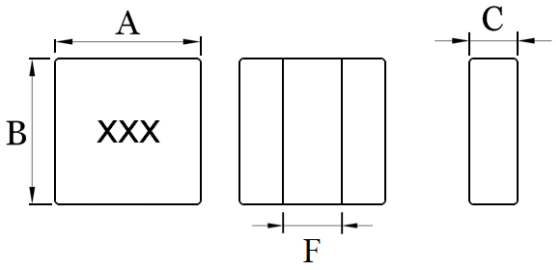
Applications

- High output current DC to DC converter

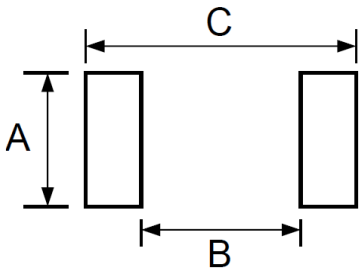
Product Identification



Shape and Dimensions



Recommended Pattern



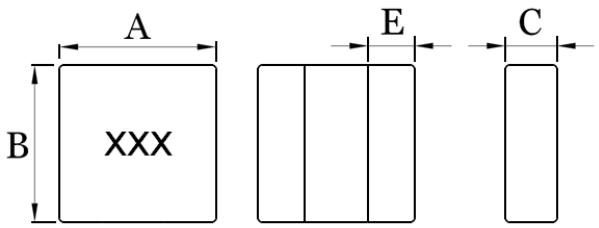
Dimensions in mm

TYPE	A	B	C	F
BMBI00040431	4.0±0.3	4.0±0.3	3.1Max	1.85typ
BMBI00050531	5.28±0.2	5.48±0.2	3.1Max	2.31±0.25
BMBI00060631	6.51±0.2	6.71±0.2	3.1Max	2.79±0.25

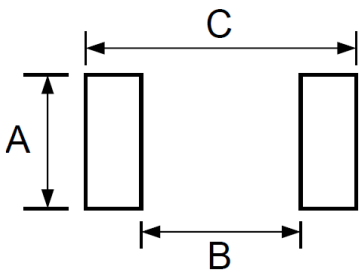
Dimensions in mm

TYPE	A	B	C
BMBI00040431	4.5	1.5	4.5
BMBI00050531	5.9	2.13	5.7
BMBI00060631	7.0	2.61	6.8

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	E
BMBA00070717	7.8±0.2	7.8±0.2	1.7Max	2.6±0.2

Dimensions in mm

TYPE	A	B	C
BMBA00070717	8.2	2.2	8.2

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

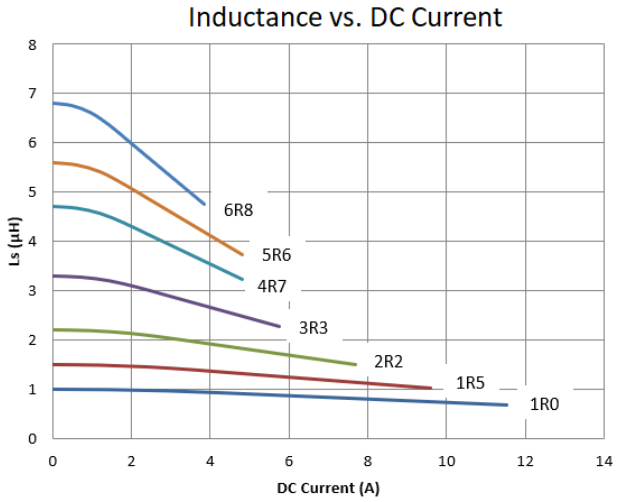
CHILISIN ELECTRONICS CORP.

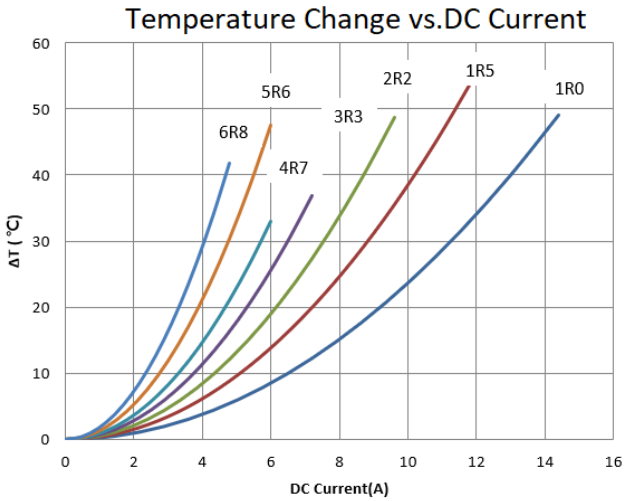
Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ	Irms (A)Typ	Marking
BMBI000404311R0MXL	1.0	20	100/0.25V	7.2	10.3	13	1R0
BMBI000404311R5MXL	1.5	20	100/0.25V	10.5	8.8	10.2	1R5
BMBI000404312R2MXL	2.2	20	100/0.25V	15	7	8.7	2R2
BMBI000404313R3MXL	3.3	20	100/0.25V	21.9	5.3	7.5	3R3
BMBI000404314R7MXL	4.7	20	100/0.25V	31.5	4.4	6.6	4R7
BMBI000404315R6MXL	5.6	20	100/0.25V	34.7	4.2	5.5	5R6
BMBI000404316R8MXL	6.8	20	100/0.25V	47.9	3.65	4.7	6R8

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current





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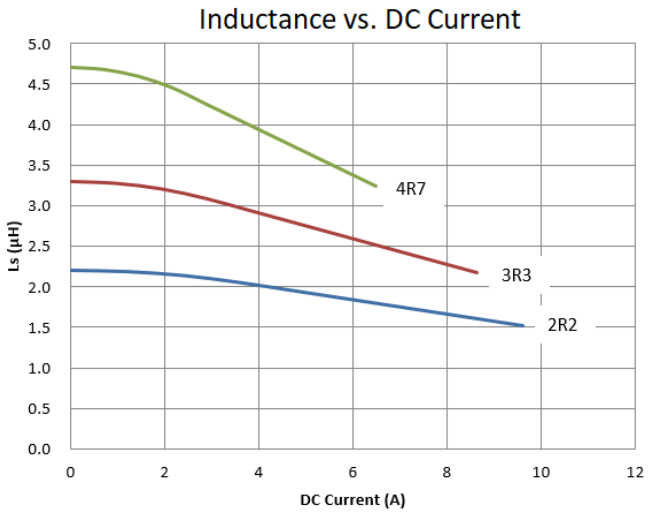
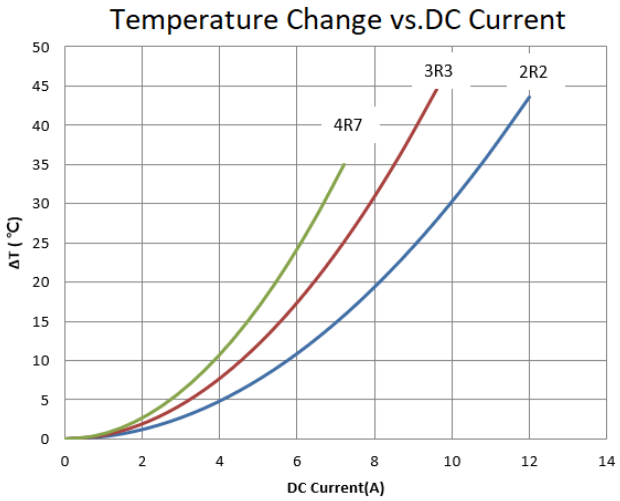
Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ	Irms (A)Typ	Marking
BMBI000505312R2MXL	2.2	20	100/0.25V	11.8	9	11.5	2R2
BMBI000505313R3MXL	3.3	20	100/0.25V	18.5	7.4	9.1	3R3
BMBI000505314R7MXL	4.7	20	100/0.25V	27	6	7.7	4R7

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current





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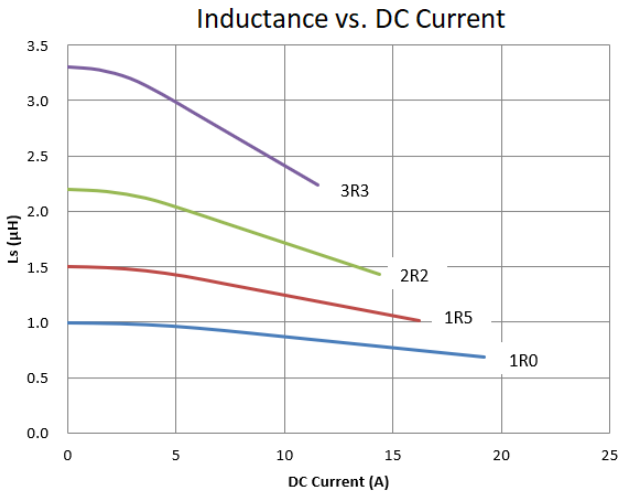
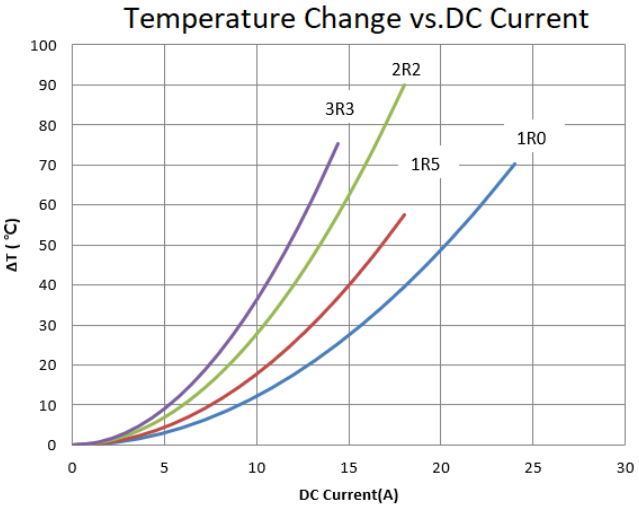
Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ	Irms (A)Typ	Marking
BMBI000606311R0MXL	1.0	20	100/0.25V	4.9	17.7	18.1	1R0
BMBI000606311R5MXL	1.5	20	100/0.25V	7.3	14.5	15	1R5
BMBI000606312R2MXL	2.2	20	100/0.25V	10.3	12.2	12	2R2
BMBI000606313R3MXL	3.3	20	100/0.25V	15.4	10.4	10.5	3R3

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current





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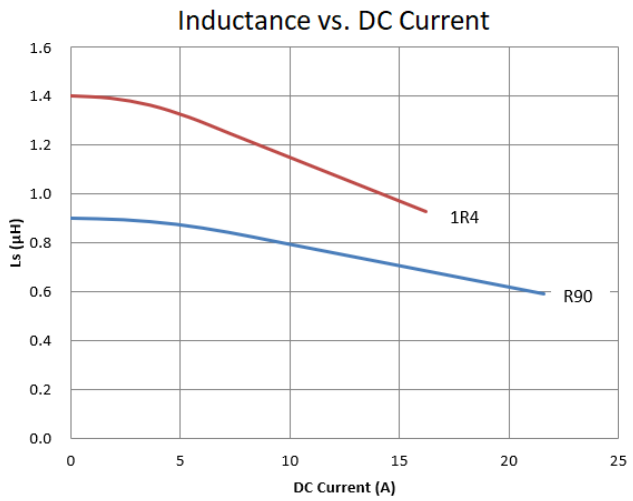
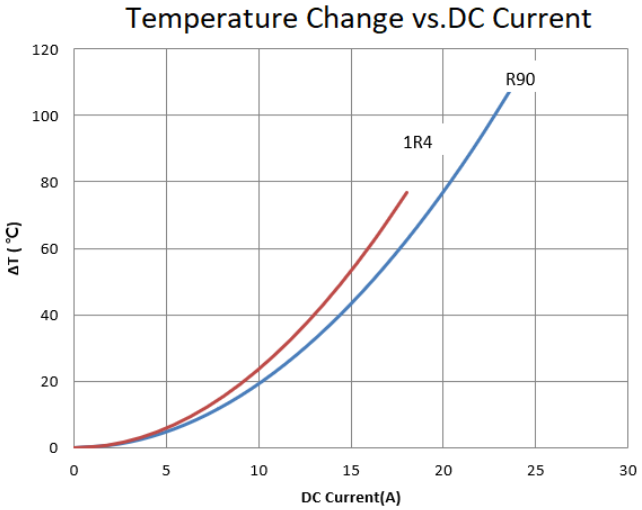
Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ	Irms (A)Typ	Marking
BMBA00070717R90MR1	0.9	20	100/0.25V	9	18.5	14.4	R90
BMBA000707171R4MR1	1.4	20	100/0.25V	10.8	14	13	1R4

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current





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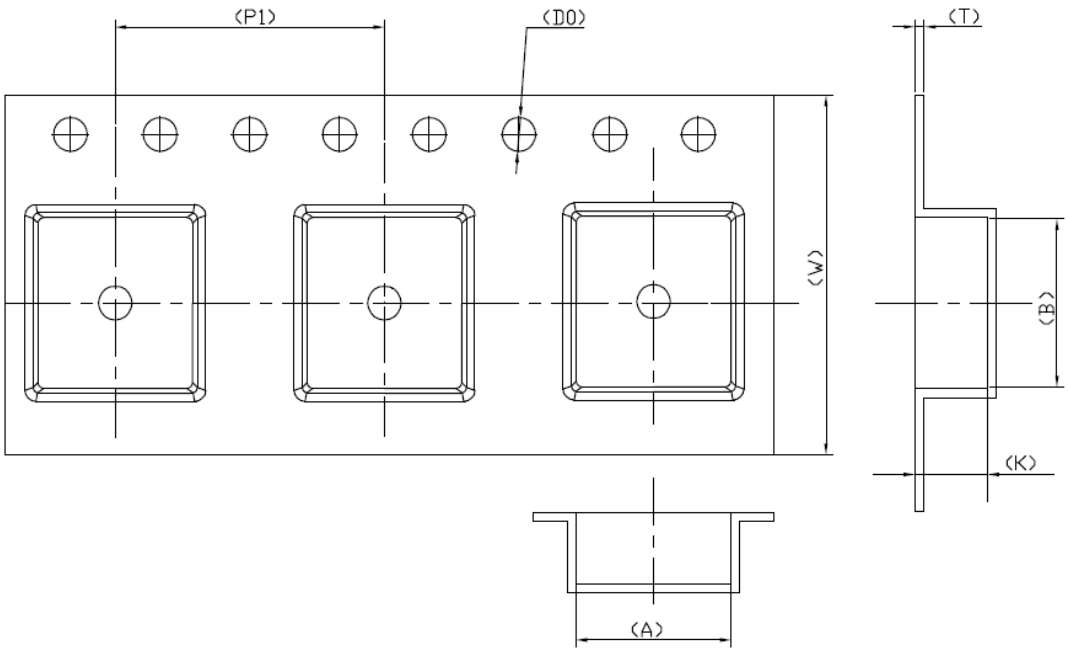
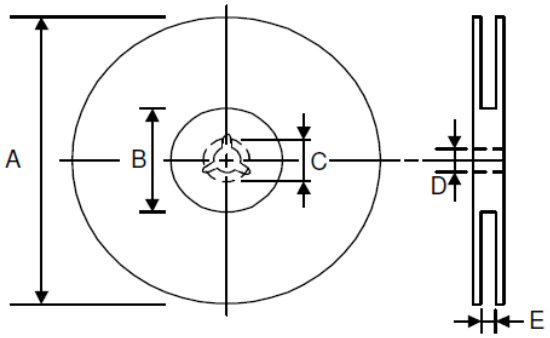
Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions					Quantity
	A	B	K	D0	W	T	P1	A	B	C	D	E	PCS / REEL
BMBI00040431	4.3	4.4	3.5	1.5	12	0.35	8	330	100	21.5	13	12.4	2000
BMBI00050531	6.1	5.9	3.3	1.5	12	0.35	8	330	100	21.5	13	12.4	1000
BMBI00060631	6.8	6.56	3.4	1.5	16	0.35	12	330	100	21.5	13	16.4	1000
BMBI00070717	8.15	8.15	1.9	1.5	16	0.3	12	330	100	21.5	13	16.4	1000

BMII Series

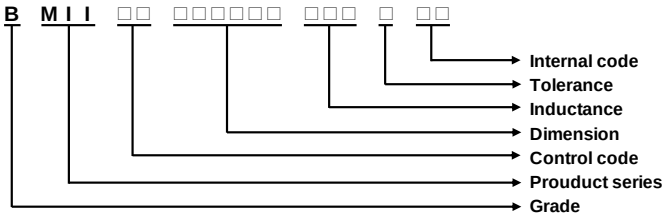
Features

- Operating Temperature up to 125℃
- Halogen Free
- High saturation current

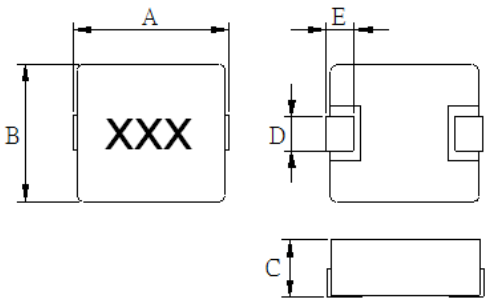
Applications

- High output current DC to DC converte

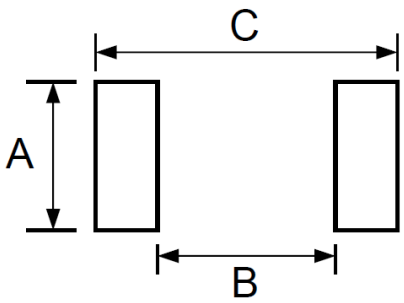
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	E
BMII00050530	5.4±0.35	5.25±0.2	3.0Max	3.0±0.3	1.1±0.3

Dimensions in mm

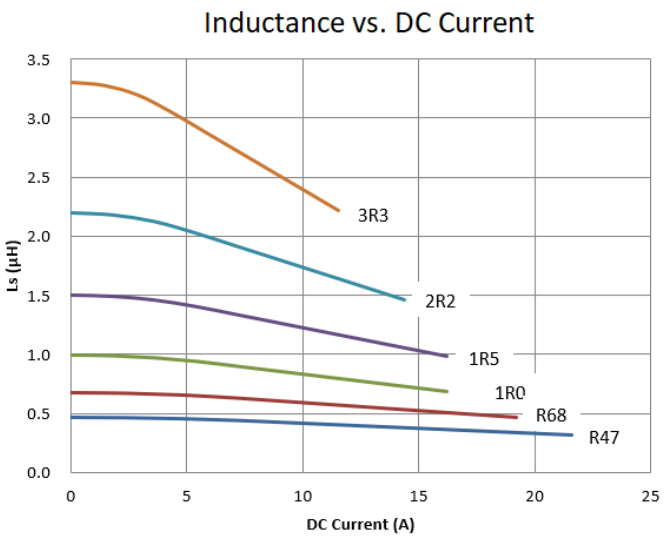
TYPE	A	B	C
BMII00050530	3.6	2.2	7.2

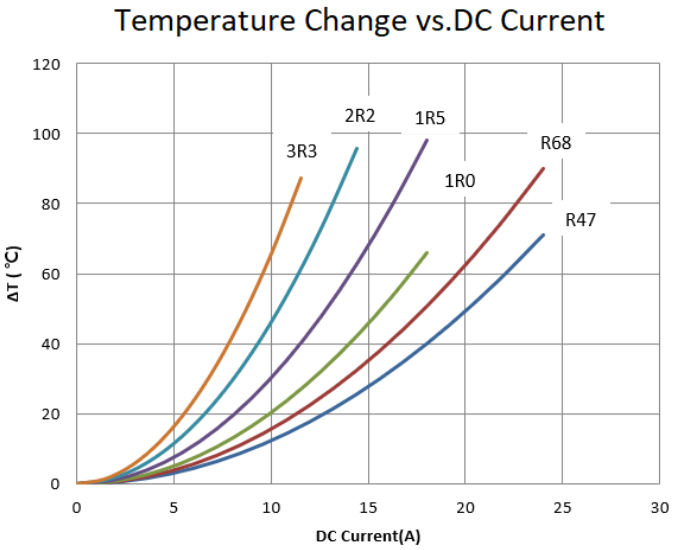
Electrical Characteristics

Part Number	Inductance (µH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ	Irms (A)Typ	Marking
BMII00050530R47MQX	0.47	20	100/0.25V	4	19.8	18	R47
BMII00050530R68MQX	0.68	20	100/0.25V	5.2	18	16	R68
BMII000505301R0MQX	1.0	20	100/0.25V	6.8	15	14	1R0
BMII000505301R5MQX	1.5	20	100/0.25V	10	13.8	11.5	1R5
BMII000505302R2MQX	2.2	20	100/0.25V	14.8	12.6	9.3	2R2
BMII000505303R3MQX	3.3	20	100/0.25V	21.7	10.2	7.8	3R3

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current





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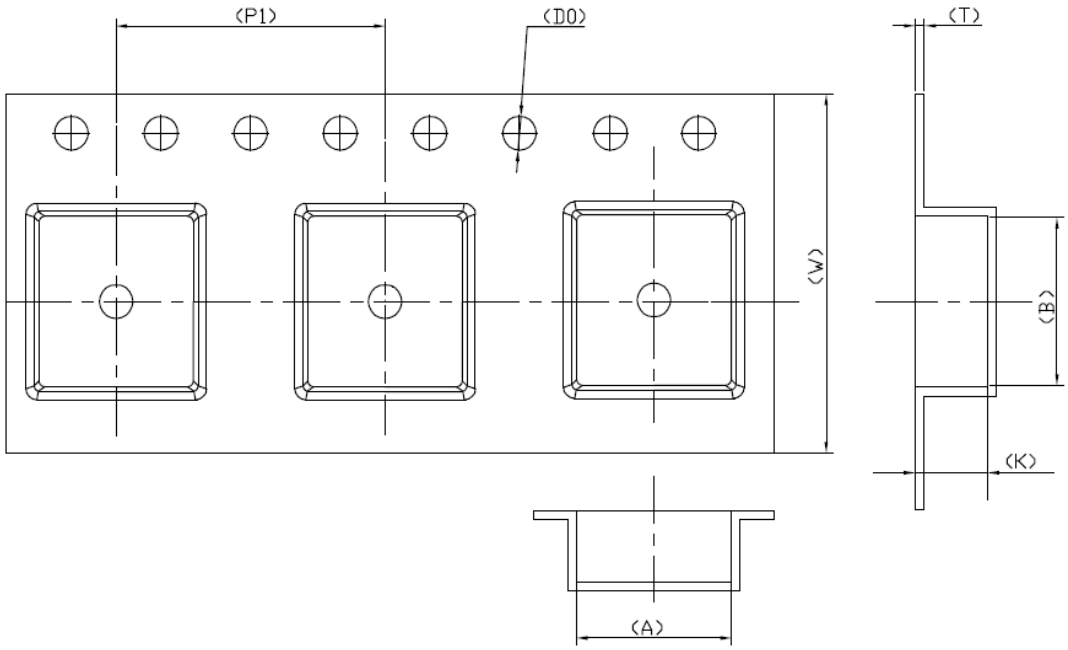
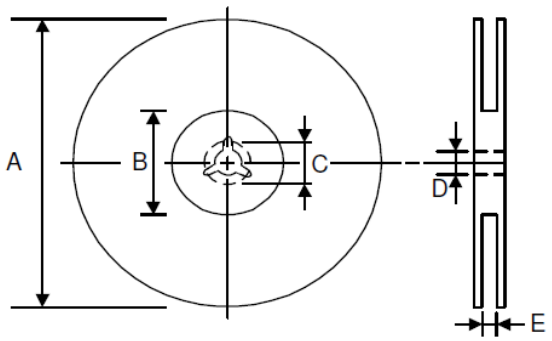
Pulse a YAGEO company
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions					Quantity
	A	B	K	D0	W	T	P1	A	B	C	D	E	PCS / REEL
BMII050530	5.5	6	3.3	1.5	12	0.35	8	330	100	21.5	13	12.4	1000

BDCD Series

BDCD Series provides high current in compact package size with magnetically shielded construction. This power
inductor is an excellent power solution for space-limited devices.

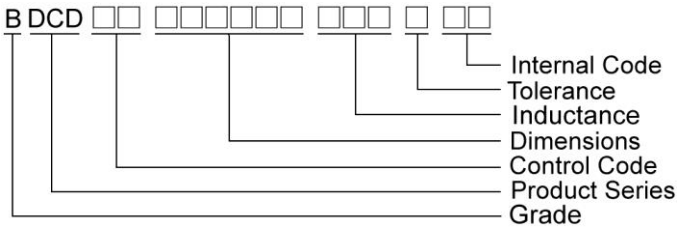
Features

- RoHS, Halogen Free and REACH Compliance
- Monolithic, magnetically shielded
- Capable for large current

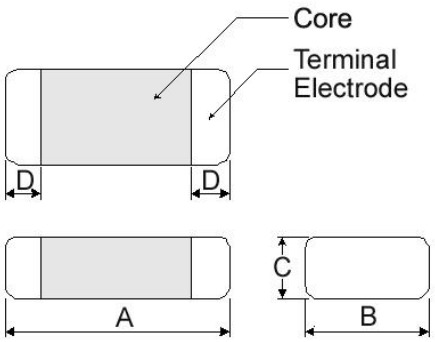
Applications

- Smartphones, tablets and wearable devices
- HDD, SSD and PC peripheral devices
- DSC, camcoders
- PND
- DC/DC converters

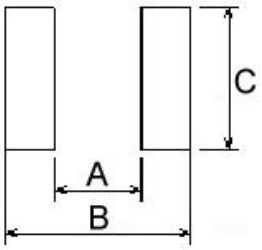
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
BDCD00201610	2.0±0.2	1.6±0.2	1.0Max	0.5±0.3
BDCD00201612	2.0±0.2	1.6±0.2	1.2Max	0.5±0.3
BDCD00252010	2.5±0.2	2.0±0.2	1.0Max	0.6±0.3
BDCD00252012	2.5±0.2	2.0±0.2	1.2Max	0.6±0.3
BDCD00322510	3.2±0.3	2.5±0.3	1.0Max	0.5±0.3
BDCD00322512	3.2±0.3	2.5±0.3	1.2Max	0.5±0.3

Dimensions in mm

TYPE	A	B	C
BDCD00201610	0.7	2.3	1.8
BDCD00201612	0.7	2.3	1.8
BDCD00252010	1.2	2.8	2.3
BDCD00252012	1.2	2.8	2.3
BDCD00322510	1.7	3.5	2.8
BDCD00322512	1.7	3.5	2.8

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDCD00201610R24MS1	0.24	20	2	40(28)	4.2(6.0)	4.0(4.5)
BDCD00201610R33MS1	0.33	20	2	48(40)	4.0(5.5)	3.5(3.8)
BDCD00201610R47MS1	0.47	20	2	54(44)	3.2(5.0)	3.0(3.6)
BDCD00201610R56MS1	0.56	20	2	59(46)	2.8(4.6)	2.8(3.3)
BDCD00201610R68MS1	0.68	20	2	72(55)	2.7(4.2)	2.4(3.0)
BDCD002016101R0MS1	1.0	20	2	96(81)	2.2(3.4)	2.0(2.3)
BDCD002016101R5MS1	1.5	20	2	150(122)	2.1(2.8)	1.6(2.0)
BDCD002016102R2MS1	2.2	20	2	204(170)	2.0(2.4)	1.3(1.6)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 20VDC
- Measure Equipment：

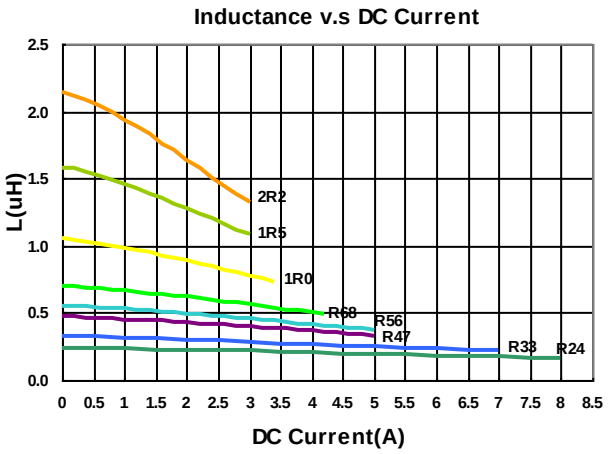
  L：Agilent E4991/HP4286A+16197A (or equivalent), 2MHz

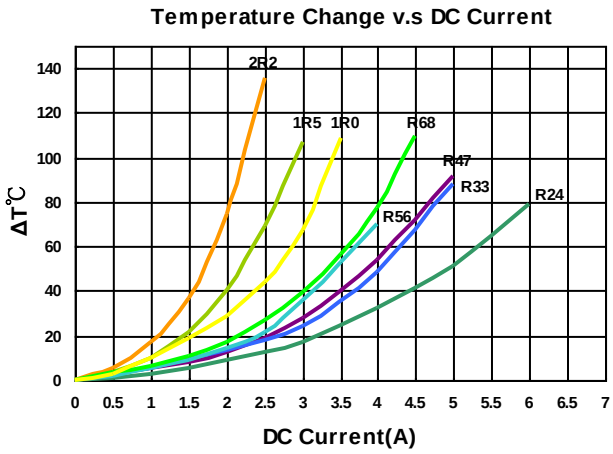
  RDC：CHEN HWA502BC/HP4338B (or equivalent)

  Isat：Agilent E4980A+HP42841A (or equivalent)

  Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)

Test Instruments：E4991A Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDCD00201610R24ML1	0.24	20	2	30(23)	5.0(6.0)	3.8(4.4)
BDCD00201610R33ML1	0.33	20	2	35(27)	4.5(5.0)	3.4(3.8)
BDCD00201610R47ML1	0.47	20	2	41(34)	4.0(4.5)	2.9(3.3)
BDCD00201610R68ML1	0.68	20	2	53(44)	3.3(3.6)	2.5(2.9)
BDCD002016101R0ML1	1.0	20	2	72(60)	2.8(3.2)	2.2(2.5)
BDCD002016101R5ML1	1.5	20	2	110(92)	2.2(2.8)	1.8(2.1)
BDCD002016102R2ML1	2.2	20	2	170(142)	1.8(2.1)	1.5(1.7)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 20VDC
- Measure Equipment：

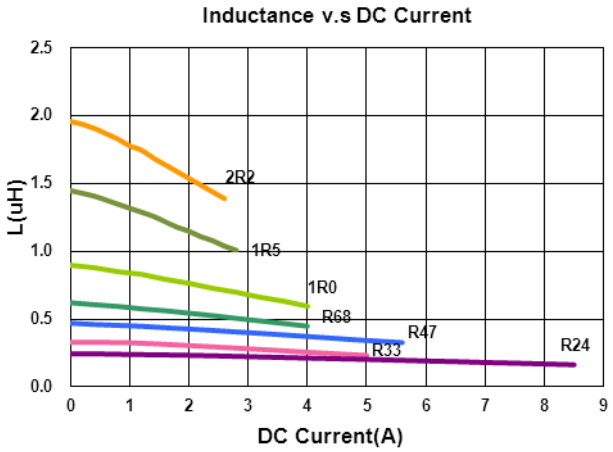
  L：Agilent E4991/HP4286A+16197A (or equivalent), 2MHz

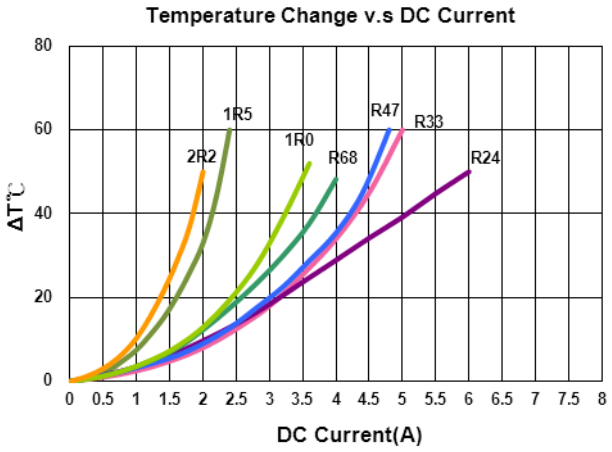
  RDC：CHEN HWA502BC/HP4338B (or equivalent)

  Isat：Agilent E4980A+HP42841A (or equivalent)

  Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)

Test Instruments：E4991A Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDCD00201612R24MS1	0.24	20	2	35(25)	5.5(6.5)	4.2(4.8)
BDCD00201612R47MS1	0.47	20	2	52(40)	3.8(5.1)	3.2(3.8)
BDCD00201612R68MS1	0.68	20	2	70(53)	3.3(4.8)	2.6(3.2)
BDCD002016121R0MS1	1.0	20	2	82(67)	3.1(3.9)	2.3(2.7)
BDCD002016121R5MS1	1.5	20	2	120(95)	2.6(3.2)	2.2(2.6)
BDCD002016122R2MS1	2.2	20	2	195(165)	2.0(2.6)	1.3(1.7)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 20VDC
- Measure Equipment：

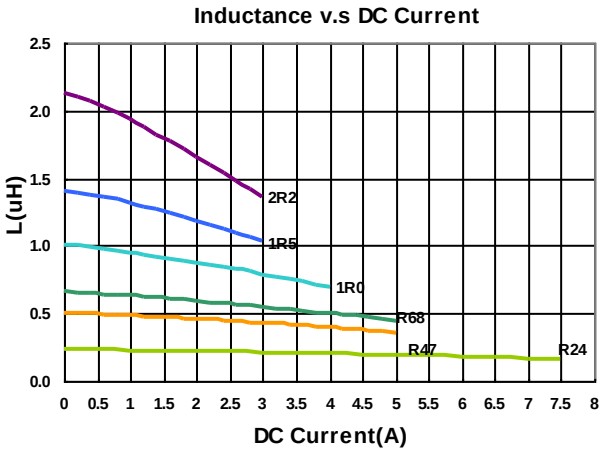
  L：Agilent E4991/HP4286A+16197A (or equivalent), 2MHz

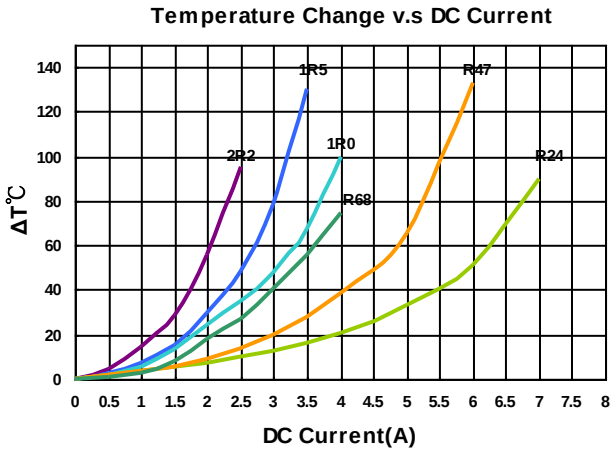
  RDC：CHEN HWA502BC/HP4338B (or equivalent)

  Isat：Agilent E4980A+HP42841A (or equivalent)

  Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)

Test Instruments：E4991A Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDCD00252010R24MS1	0.24	20	2	40(24)	7.5(9.5)	4.5(5.0)
BDCD00252010R47MS1	0.47	20	2	46(36)	5.2(6.5)	3.1(3.6)
BDCD00252010R68MS1	0.68	20	2	65(49)	3.8(5.0)	2.9(3.3)
BDCD002520101R0MS1	1.0	20	2	78(60)	3.4(4.3)	2.5(3.0)
BDCD002520101R5MS1	1.5	20	2	105(82)	3.2(4.0)	2.2(2.9)
BDCD002520102R2MS1	2.2	20	2	156(130)	2.6(3.2)	1.4(1.8)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 20VDC
- Measure Equipment：

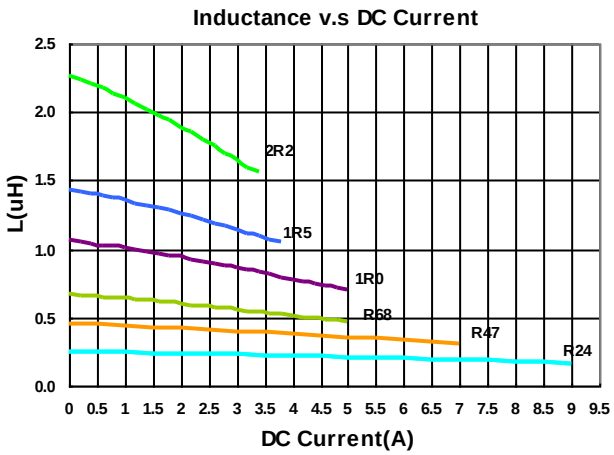
  L：Agilent E4991/HP4286A+16197A (or equivalent), 2MHz

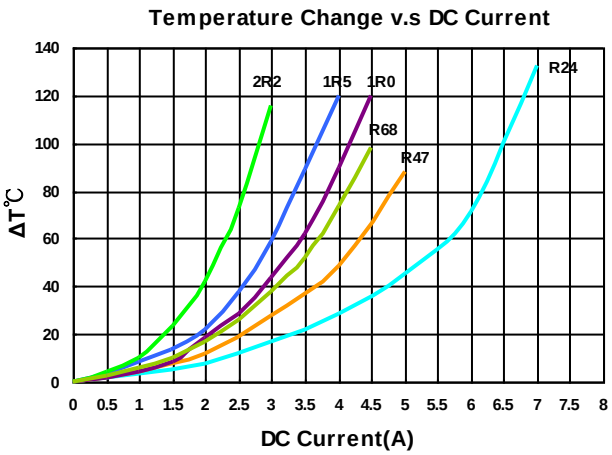
  RDC：CHEN HWA502BC/HP4338B (or equivalent)

  Isat：Agilent E4980A+HP42841A (or equivalent)

  Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)

Test Instruments：E4991A Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDCD00252010R33ML1	0.33	20	2	31(25)	5.0(6.0)	3.8(4.4)
BDCD00252010R47ML1	0.47	20	2	35(29)	4.2(4.7)	3.4(3.9)
BDCD00252010R68ML1	0.68	20	2	48(40)	3.7(4.0)	3.0(3.5)
BDCD002520101R0ML1	1.0	20	2	65(54)	3.2(3.6)	2.6(3.0)
BDCD002520101R5ML1	1.5	20	2	94(78)	2.9(3.3)	2.1(2.4)
BDCD002520102R2ML1	2.2	20	2	120(100)	2.3(2.7)	1.8(2.1)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 20VDC
- Measure Equipment：

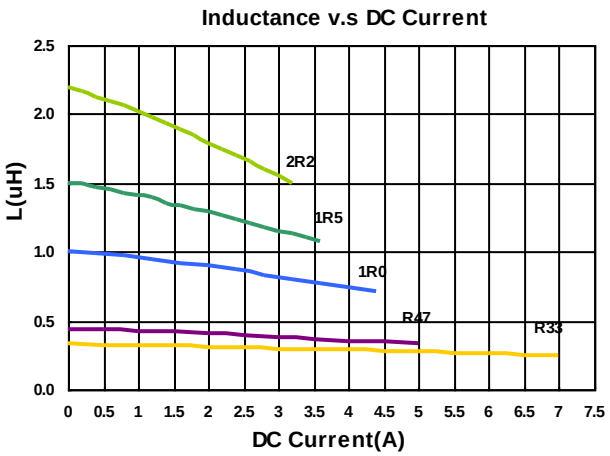
  L：Agilent E4991/HP4286A+16197A (or equivalent), 2MHz

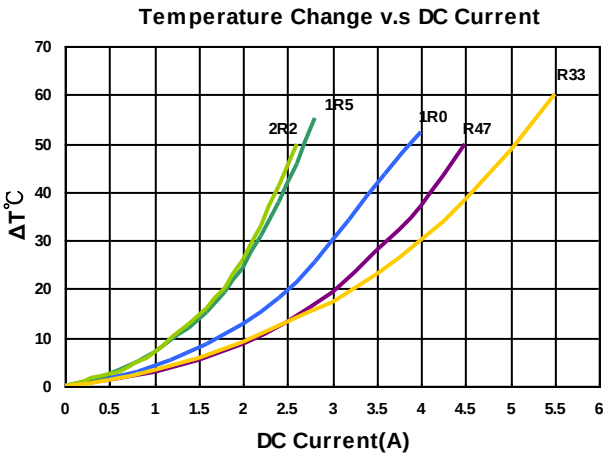
  RDC：CHEN HWA502BC/HP4338B (or equivalent)

  Isat：Agilent E4980A+HP42841A (or equivalent)

  Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)

Test Instruments：E4991A Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDCD00252012R33MS1	0.33	20	2	35(27)	6.8(8.5)	4.0(4.6)
BDCD00252012R47MS1	0.47	20	2	39(29)	6.2(7.8)	3.7(4.4)
BDCD00252012R68MS1	0.68	20	2	46(40)	5.5(6.5)	3.3(3.7)
BDCD002520121R0MS1	1.0	20	2	59(45)	4.0(5.0)	3.0(3.5)
BDCD002520121R5MS1	1.5	20	2	70(62)	3.4(4.0)	2.5(2.7)
BDCD002520122R2MS1	2.2	20	2	115(102)	3.3(3.8)	2.0(2.3)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 20VDC
- Measure Equipment：

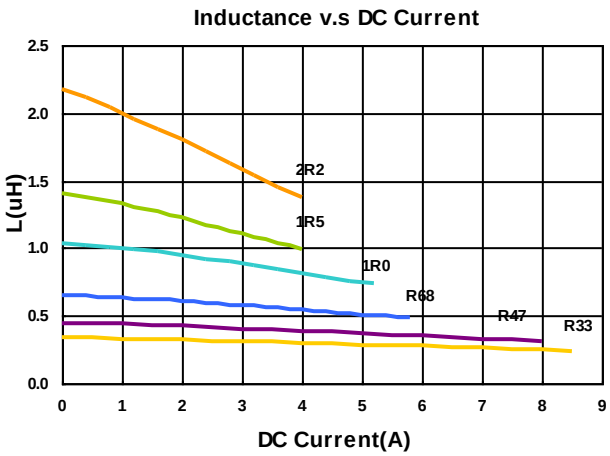
  L：Agilent E4991/HP4286A+16197A (or equivalent), 2MHz

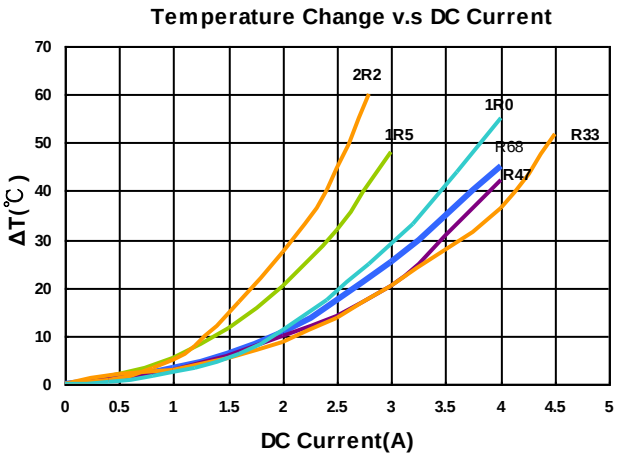
  RDC：CHEN HWA502BC/HP4338B (or equivalent)

  Isat：Agilent E4980A+HP42841A (or equivalent)

  Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)

Test Instruments：E4991A Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDCD00252012R47ML1	0.47	20	2	34(30)	5.2(6.0)	4.1(4.7)
BDCD002520121R0ML1	1.0	20	2	56(45)	3.6(4.5)	3.2(3.7)
BDCD002520122R2ML1	2.2	20	2	102(80)	2.5(3.0)	2.2(2.6)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 20VDC
- Measure Equipment：

  L：Agilent E4991/HP4286A+16197A (or equivalent), 2MHz

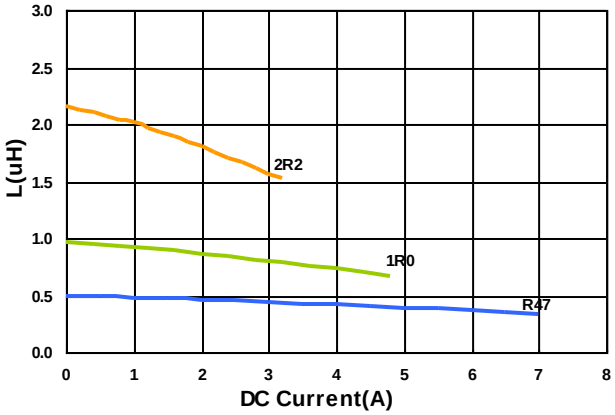
  RDC：CHEN HWA502BC/HP4338B (or equivalent)

  Isat：Agilent E4980A+HP42841A (or equivalent)

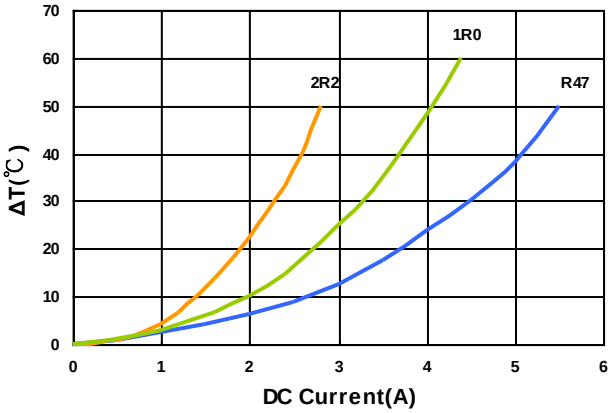
  Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)

Test Instruments：E4991A Impedance / Material Analyzer

Inductance v.s DC Current



Temperature Change v.s DC Current



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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDCD00322510R47MS1	0.47	20	2	37(30)	5.8(6.6)	3.6(4.2)
BDCD003225101R0MS1	1.0	20	2	56(49)	4.0(4.6)	3.0(3.3)
BDCD003225101R5MS1	1.5	20	2	75(66)	3.4(4.0)	2.6(3.0)
BDCD003225102R2MS1	2.2	20	2	108(95)	2.7(3.2)	2.2(2.5)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 20VDC
- Measure Equipment：

  L：Agilent E4991/HP4286A+16197A (or equivalent), 2MHz

  RDC：CHEN HWA502BC/HP4338B (or equivalent)

  Isat：Agilent E4980A+HP42841A (or equivalent)

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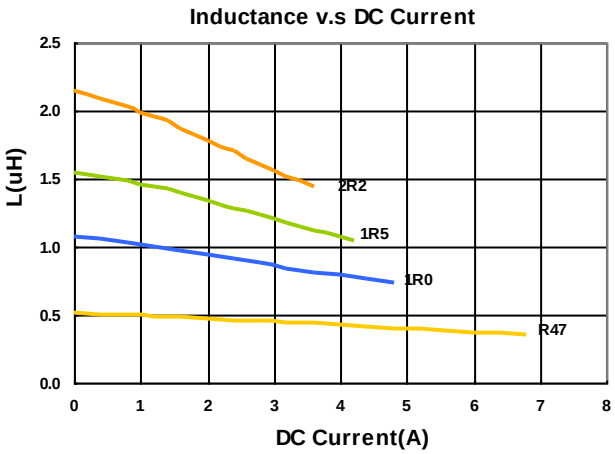
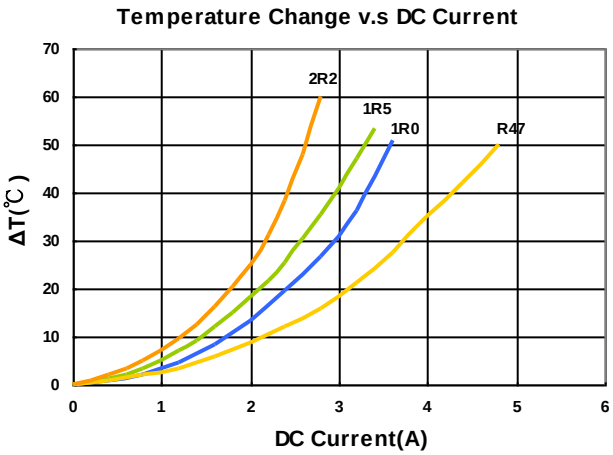
Test Instruments：E4991A Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDCD00322512R47MS1	0.47	20	2	27(21)	8.0(9.0)	5.0(5.8)
BDCD00322512R68MS1	0.68	20	2	34(26)	6.3(7.5)	4.0(4.6)
BDCD003225121R0MS1	1.0	20	2	42(34)	5.8(6.3)	3.8(4.2)
BDCD003225121R5MS1	1.5	20	2	68(58)	4.0(4.5)	2.8(3.2)
BDCD003225122R2MS1	2.2	20	2	85(75)	3.6(4.0)	2.4(2.7)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 20VDC
- Measure Equipment：

  L：Agilent E4991/HP4286A+16197A (or equivalent), 2MHz

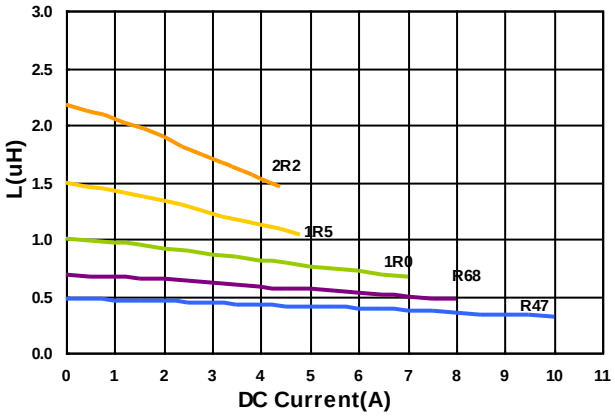
  RDC：CHEN HWA502BC/HP4338B (or equivalent)

  Isat：Agilent E4980A+HP42841A (or equivalent)

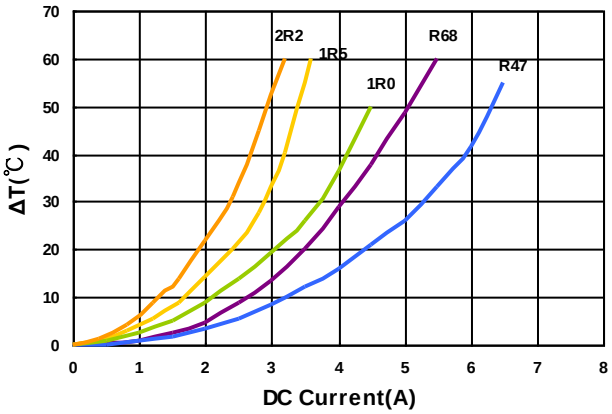
  Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)

Test Instruments：E4991A Impedance / Material Analyzer

Inductance v.s DC Current



Temperature Change v.s DC Current



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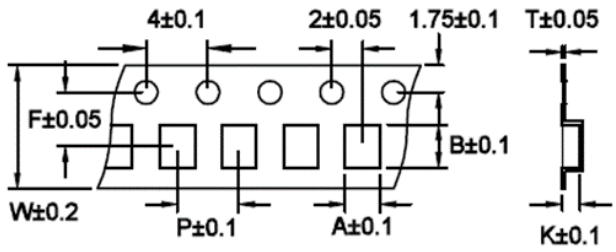
Pulse a YAGEO company

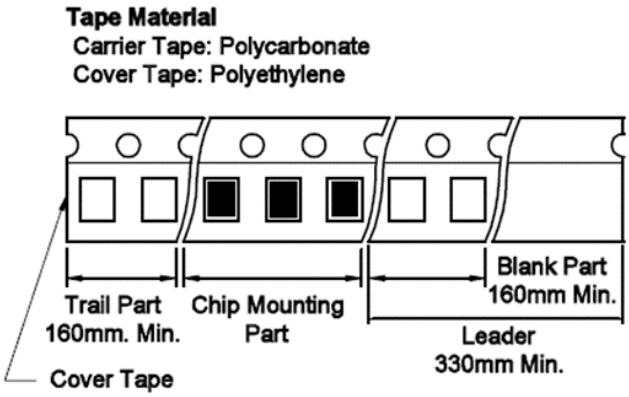
CHILISIN ELECTRONICS CORP.

Packaging Specifications

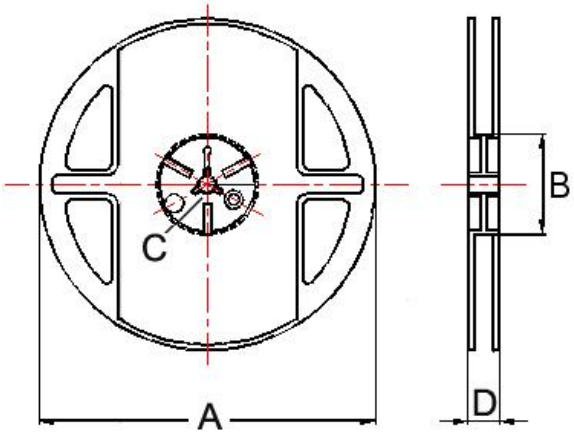
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
BDCD00201610	1.90	2.30	0.22	8	4	3.5	1.15	178	60	12	1.5	3000
BDCD00201612	1.90	2.30	0.22	8	4	3.5	1.15	178	60	12	1.5	3000
BDCD00252010	2.25	2.80	0.22	8	4	3.5	1.15	178	60	12	1.5	3000
BDCD00252012	2.30	2.80	0.22	8	4	3.5	1.35	178	60	12	1.5	3000
BDCD00322510	2.80	3.55	0.23	8	4	3.5	1.20	178	60	12	1.5	3000
BDCD00322512	2.80	3.50	0.23	8	4	3.5	1.34	178	60	12	1.5	3000

BDAA Series

The BDAA Series is designed specifically to enhance both PFM and PWM application performance. Q (Rac) value at light load and the RDC value at heavy load are both exceptional. Furthermore, the saturated current performance is also optimal, helping to reduce the ripple current and enhance the efficiency.

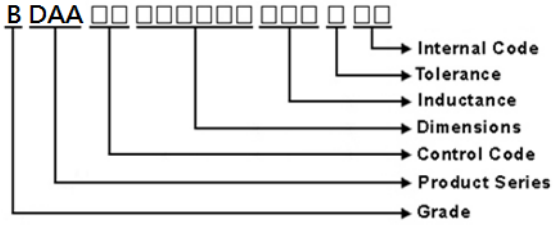
Features

- RoHS, Halogen Free and REACH Compliance
- High Efficiency
- Excellent Q, RDC and saturation current
- Low profile and miniature size down to 2.0*1.6*1.0mm

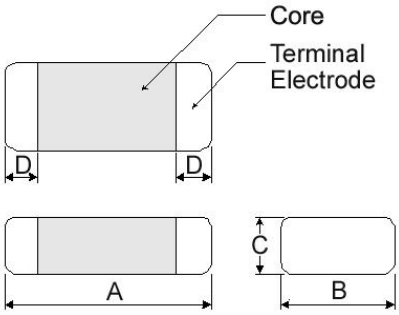
Applications

- Smartphones, tablets, laptop, and smart wearable devices
- HDD, SSD and PC peripheral devices
- Network server
- DC/DC buck converters

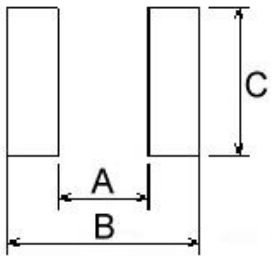
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
BDAA00201610	2.0±0.2	1.60±0.2	1.0Max	0.5±0.3
BDAA00201612	2.0±0.2	1.60±0.2	1.2Max	0.5±0.3
BDAA00252010	2.5±0.2	2.00±0.2	1.0Max	0.6±0.3
BDAA00252012	2.5±0.2	2.00±0.2	1.2Max	0.6±0.3
BDAA00322510	3.2±0.3	2.50±0.3	1.0Max	0.6±0.3
BDAA00322512	3.2±0.3	2.50±0.3	1.2Max	0.6±0.3

Dimensions in mm

TYPE	A	B	C
BDAA00201610	0.7	2.3	1.8
BDAA00201612	0.7	2.3	1.8
BDAA00252010	1.2	2.8	2.3
BDAA00252012	1.2	2.8	2.3
BDAA00322510	1.7	3.5	2.8
BDAA00322512	1.7	3.5	2.8

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDAA00201610R24MC1	0.24	20	2	27(21)	5.6(7.0)	4.6(5.3)
BDAA00201610R47MC1	0.47	20	2	34(28)	5.1(5.8)	4.5(5.0)
BDAA00201610R68MC1	0.68	20	2	43(38)	4.0(4.5)	3.1(3.7)
BDAA002016101R0MC1	1.0	20	2	62(53)	3.0(3.8)	2.7(3.4)
BDAA002016101R5MC1	1.5	20	2	85(75)	2.5(2.8)	2.3(2.7)
BDAA002016102R2MC1	2.2	20	2	135(112)	2.4(2.7)	1.8(2.2)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

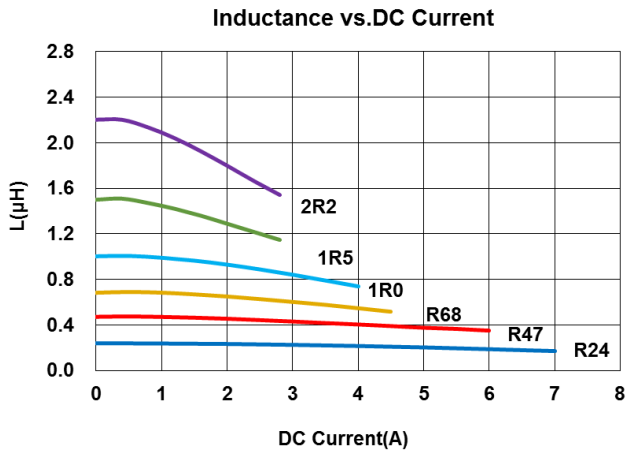
Test Instruments：

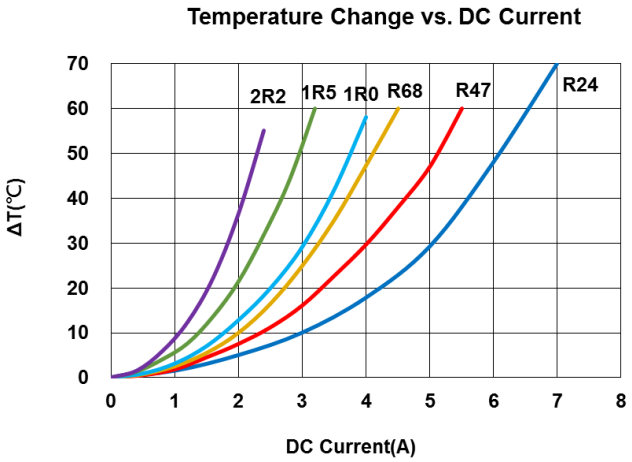
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDAA00201612R47MC1	0.47	20	2	26(20)	5.5(5.8)	4.5(4.7)
BDAA002016121R0MC1	1.0	20	2	52(43)	3.2(3.8)	3.0(3.5)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

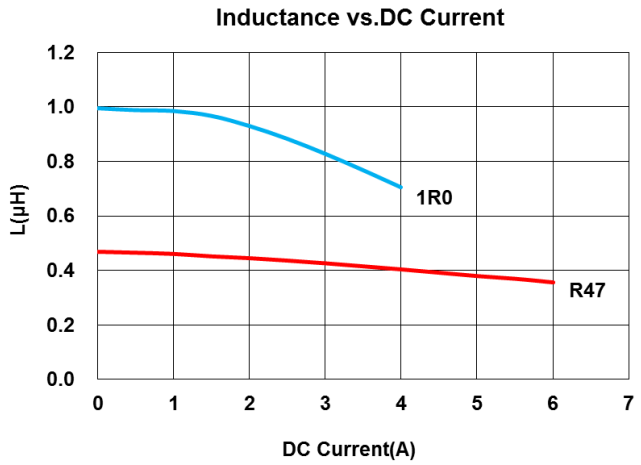
Test Instruments：

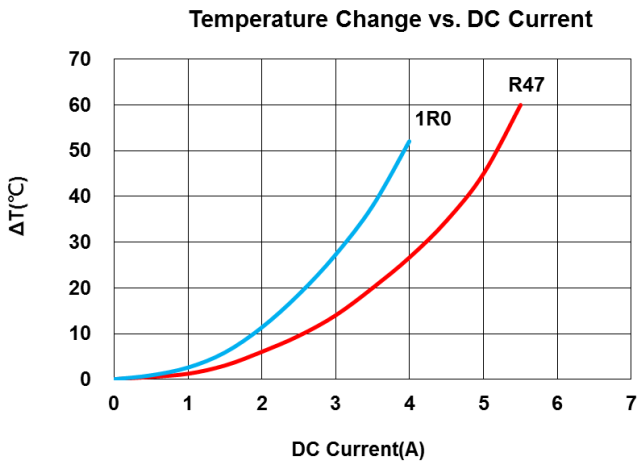
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDAA00252010R24MC1	0.24	20	2	18(13)	8.0(9.5)	5.5(6.5)
BDAA00252010R33MC1	0.33	20	2	24(18)	6.5(8.0)	4.8(5.5)
BDAA00252010R47MC1	0.47	20	2	35(27)	5.0(6.2)	3.9(4.5)
BDAA00252010R68MC1	0.68	20	2	40(32)	4.5(5.6)	3.7(4.2)
BDAA002520101R0MC1	1.0	20	2	48(40)	4.1(4.6)	3.5(4.0)
BDAA002520101R5MC1	1.5	20	2	75(68)	3.1(3.8)	2.4(2.8)
BDAA002520102R2MC1	2.2	20	2	97(87)	2.5(3.0)	2.2(2.5)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

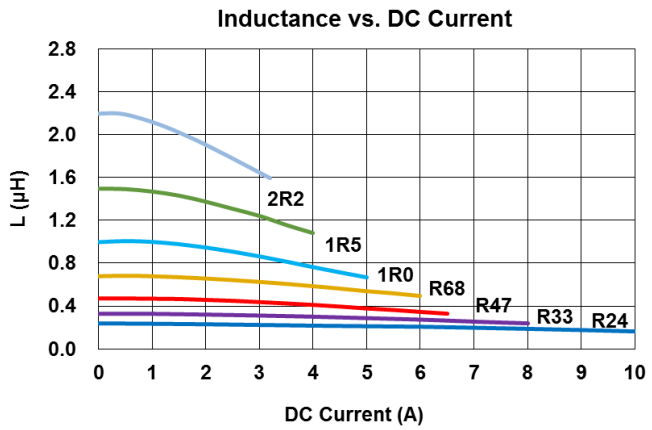
Test Instruments：

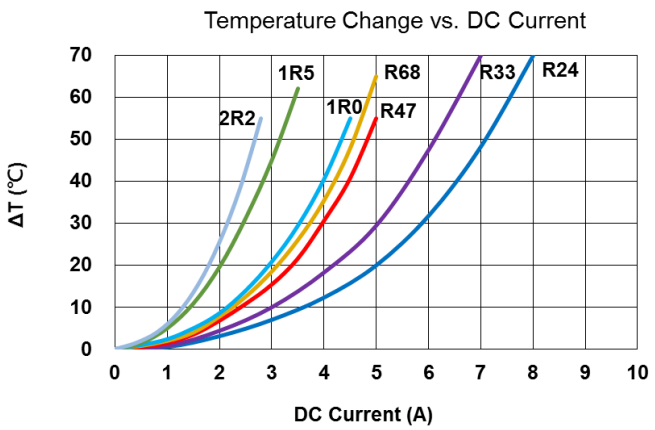
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDAA00252012R24MC1	0.24	20	2	15(11)	9.0(10.5)	6.2(7.3)
BDAA00252012R33MC1	0.33	20	2	18(15)	8.5(10.0)	5.8(6.4)
BDAA00252012R47MC1	0.47	20	2	33(28)	5.6(7.0)	3.8(4.5)
BDAA00252012R68MC1	0.68	20	2	36(30)	5.0(6.2)	3.7(4.4)
BDAA002520121R0MC1	1.0	20	2	42(35)	4.4(5.5)	3.6(4.1)
BDAA002520121R5MC1	1.5	20	2	59(52)	3.4(4.2)	2.7(3.1)
BDAA002520122R2MC1	2.2	20	2	86(80)	2.9(3.5)	2.5(2.9)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

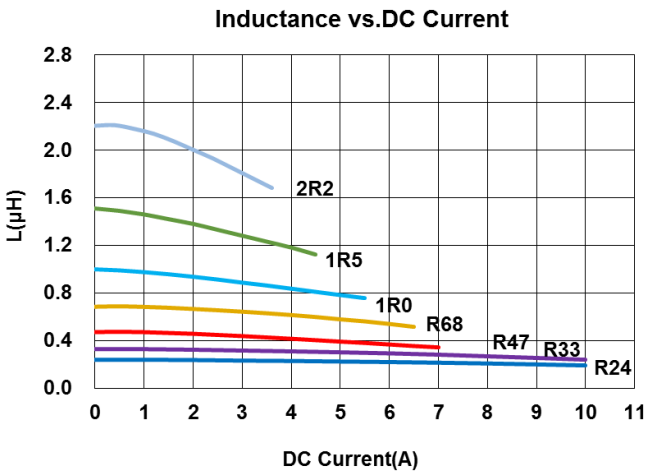
Test Instruments：

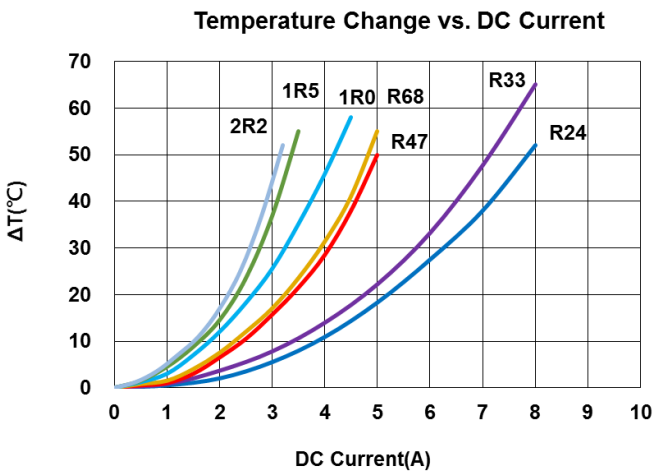
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDAA00322510R24MC1	0.24	20	2	16(12)	9.0(11.5)	6.0(6.8)
BDAA00322510R33MC1	0.33	20	2	17(13)	8.0(9.5)	5.8(6.5)
BDAA00322510R47MC1	0.47	20	2	24(19)	6.0(7.3)	4.5(5.4)
BDAA003225101R0MC1	1.0	20	2	46(39)	4.1(4.7)	3.3(3.7)
BDAA003225101R5MC1	1.5	20	2	58(50)	3.5(4.0)	3.2(3.5)
BDAA003225102R2MC1	2.2	20	2	85(73)	3.0(3.5)	2.5(2.8)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

Test Instruments：

L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

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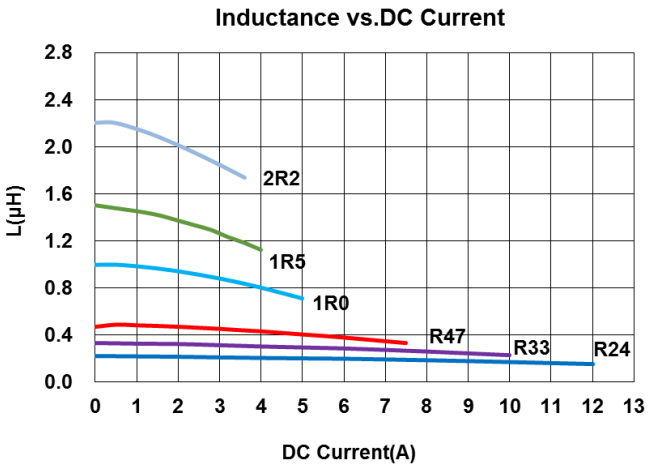

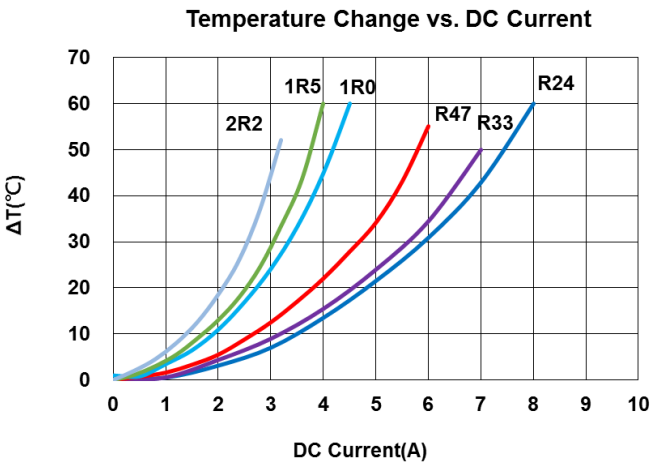

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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDAA00322512R47MC1	0.47	20	2	25(19)	7.0(8.2)	4.6(5.2)
BDAA003225121R0MC1	1.0	20	2	34(28)	5.7(6.5)	3.7(4.2)
BDAA003225121R5MC1	1.5	20	2	59(51)	4.0(4.6)	2.8(3.2)
BDAA003225122R2MC1	2.2	20	2	73(64)	3.5(4.0)	2.7(3.0)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

Test Instruments：

L: WK 6500B/HP4285A (or equivalent), 2MHz

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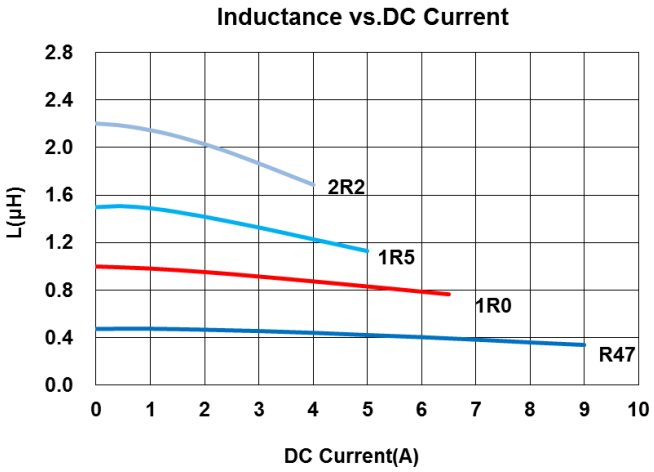

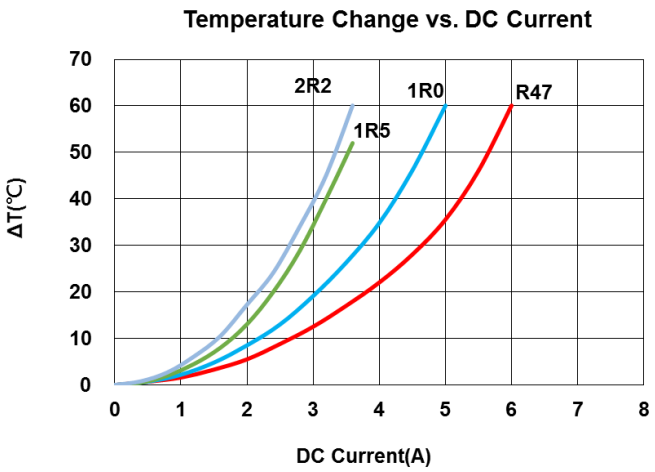

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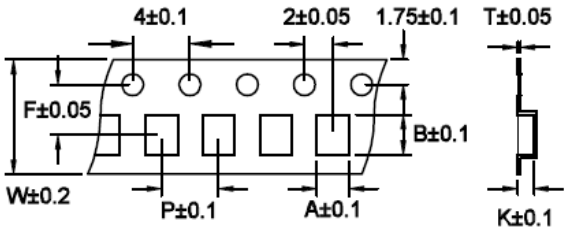
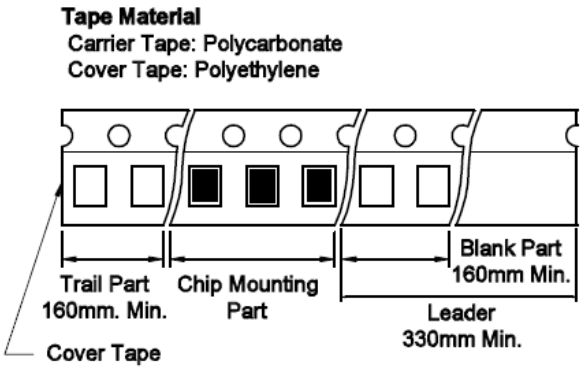
Packaging Specifications

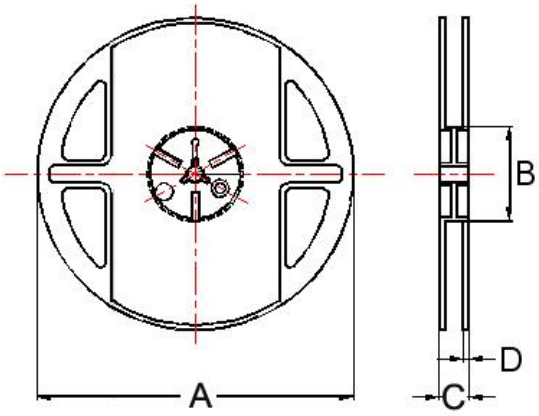
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
BDAA00201610	1.90	2.30	0.22	8	4	3.5	1.15	178	60	12	1.5	3000
BDAA00201612	1.90	2.20	0.22	8	4	3.5	1.15	178	60	12	1.5	3000
BDAA00252010	2.45	2.80	0.22	8	4	3.5	1.20	178	60	12	1.5	3000
BDAA00252012	2.30	2.80	0.22	8	4	3.5	1.35	178	60	12	1.5	3000
BDAA00322510	2.80	3.55	0.23	8	4	3.5	1.20	178	60	12	1.5	3000
BDAA00322512	2.80	3.50	0.23	8	4	3.5	1.34	178	60	12	1.5	3000

BDBB Series

The BDBB Series is designed specifically to enhance both PFM and PWM application performance. Q (Rac) value at light load and the RDC value at heavy load are both exceptional. Furthermore, the saturated current performance is also optimal, helping to reduce the ripple current and enhance the efficiency.

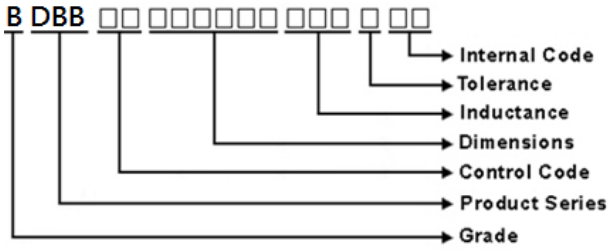
Features

- RoHS, Halogen Free and REACH Compliance
- High Efficiency
- Excellent Q, RDC and saturation current
- Low profile and miniature size down to 2.0*1.6*0.8mm

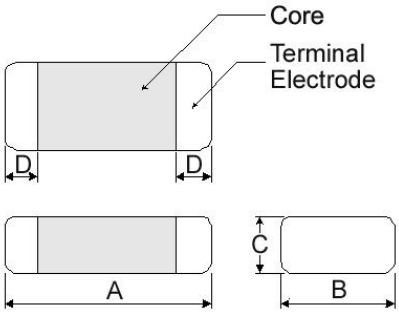
Applications

- Smartphones, tablets, laptop, and smart wearable devices
- HDD, SSD and PC peripheral devices
- Network server
- DC/DC buck converters

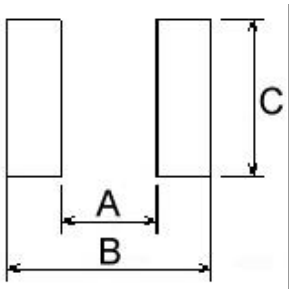
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
BDBB00201608	2.0±0.2	1.60±0.2	0.8Max	0.5±0.3
BDBB00201610	2.0±0.2	1.60±0.2	1.0Max	0.5±0.3
BDBB00201612	2.0±0.2	1.60±0.2	1.2Max	0.5±0.3
BDBB00252012	2.5±0.2	2.00±0.2	1.2Max	0.6±0.3

Dimensions in mm

TYPE	A	B	C
BDBB00201608	0.7	2.3	1.8
BDBB00201610	0.7	2.3	1.8
BDBB00201612	0.7	2.3	1.8
BDBB00252012	1.2	2.8	2.3

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDBB002016081R0MC1	1.0	20	2	48(41)	3.8(4.1)	3.7(3.8)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

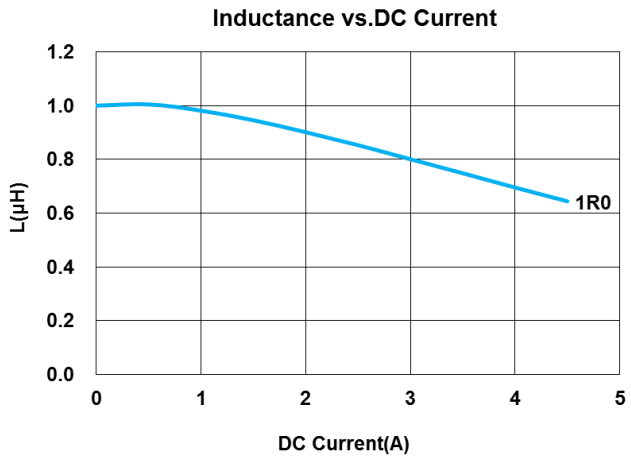
Test Instruments：

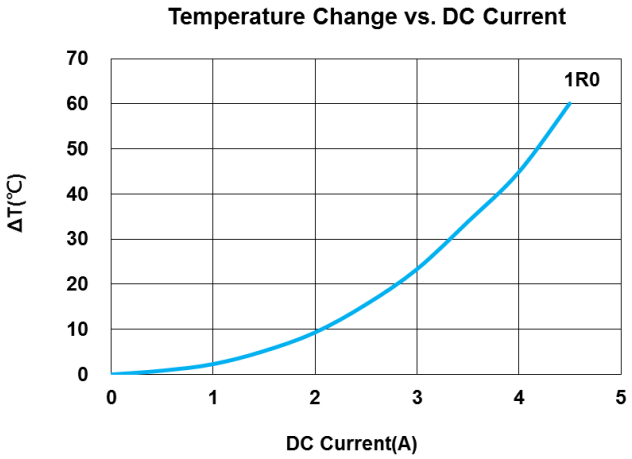
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDBB00201610R24MC1	0.24	20	2	20(15.5)	6.3(7.1)	4.7(5.5)
BDBB00201610R47MC1	0.47	20	2	26(22)	4.8(5.0)	4.0(4.3)
BDBB002016101R0MC1	1.00	20	2	43(38)	4.2(4.5)	3.6(3.9)
BDBB002016102R2MC1	2.20	20	2	112(106)	2.5(2.7)	2.3(2.5)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

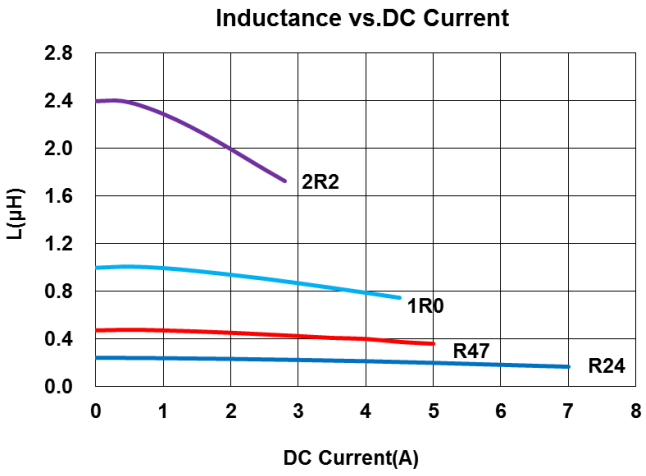
Test Instruments：

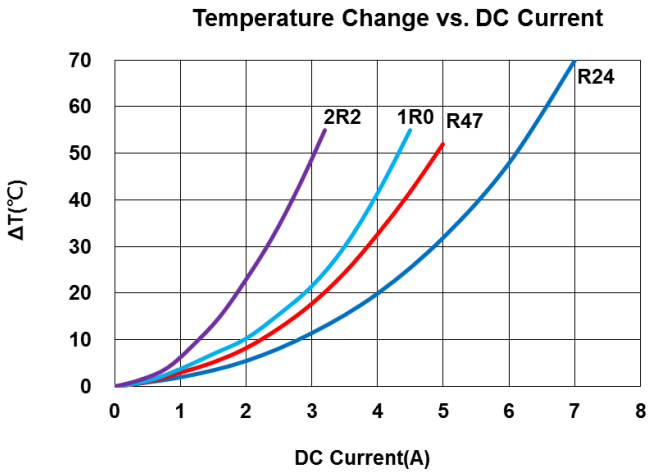
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDBB00201612R47MC1	0.47	20	2	22(18)	5.3(5.5)	4.9(5.1)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

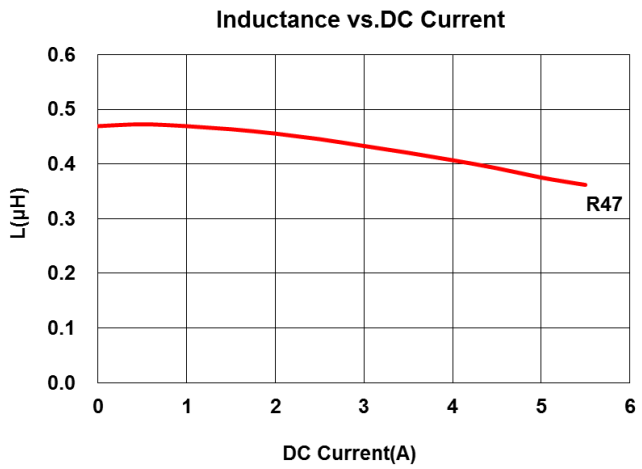
Test Instruments：

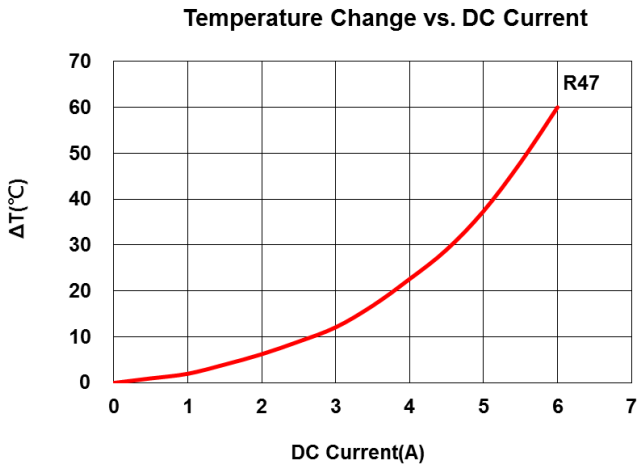
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDBB00252012R47MC1	0.47	20	2	21(16)	8.0(8.2)	4.6(4.8)
BDBB00252012R68MC1	0.68	20	2	31(25)	5.4(6.0)	3.9(4.6)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

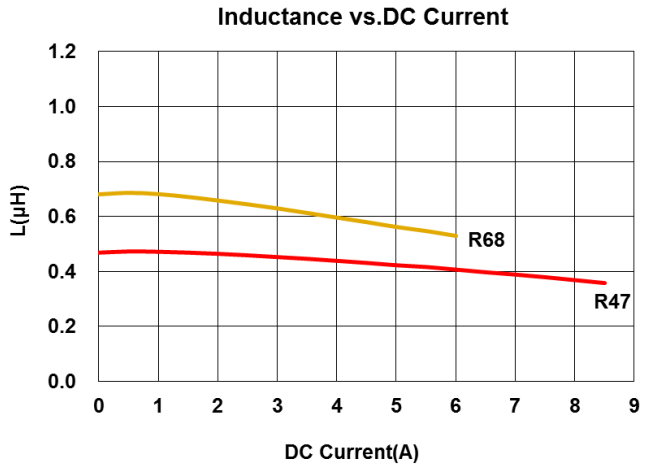
Test Instruments：

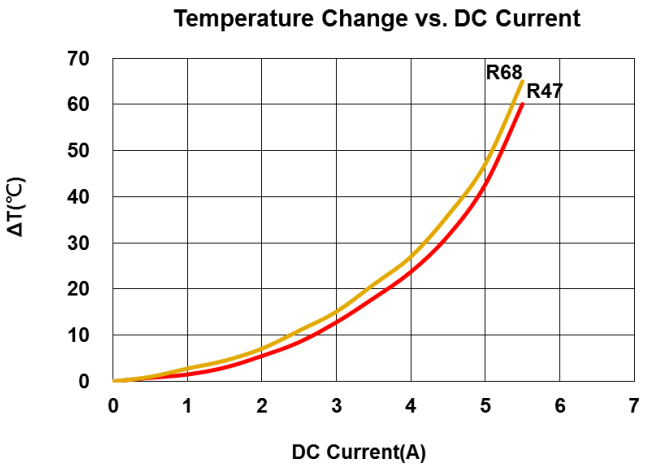
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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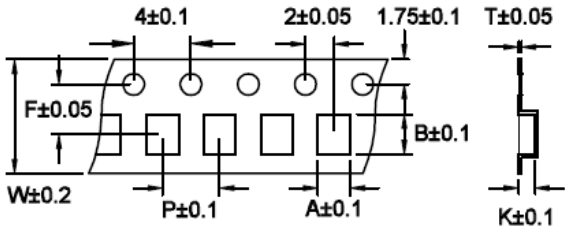
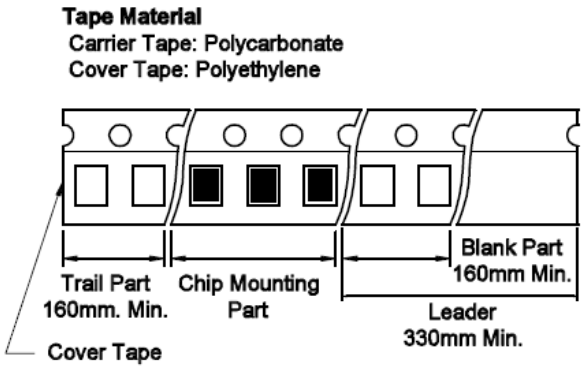
Packaging Specifications

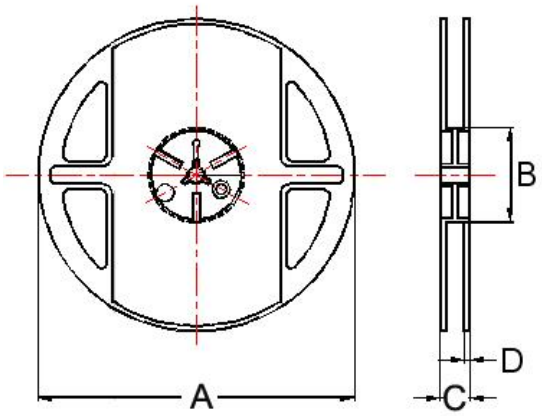
Tape Dimensions



Tape Material



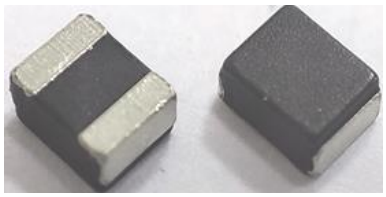
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
BDBB00201608	1.80	2.35	0.23	8	4	3.5	0.85	178	60	12	1.5	3000
BDBB00201610	1.90	2.30	0.22	8	4	3.5	1.15	178	60	12	1.5	3000
BDBB00201612	1.90	2.20	0.22	8	4	3.5	1.15	178	60	12	1.5	3000
BDBB00252012	2.30	2.80	0.22	8	4	3.5	1.35	178	60	12	1.5	3000

BDCC Series



The BDCC series is the special design to enhance the performance of PFM and PWM applications. It provides lower Rac value at light load and lower Rdc value at heavy load to improve efficiency performance. Furthermore, it provides excellent saturation current to reduce the ripple current and enhance efficiency.

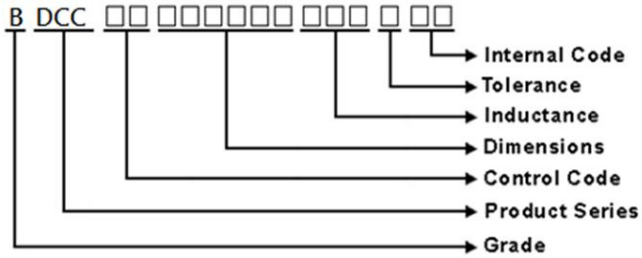
Features

- Chip Size: 2012
- Low profile: 0.8mm
- Inductance: 0.24uH ~0.47uH
- Low Rdc for better power efficiency management
- High saturation current
- L Type Termination

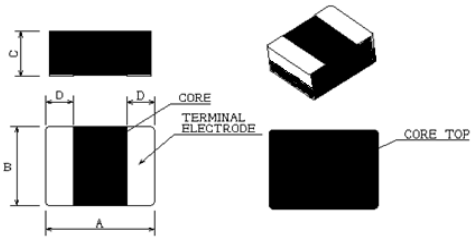
Applications

- DC-DC buck converter for power management
- 5G, Cell phone

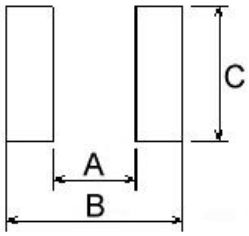
Product Identification



Chip Shape and Dimensions



Recommended Pad Pattern



Dimensions in mm

TYPE	A	B	C	D
BDCC00201208	2.0±0.2	1.25±0.2	0.8 Max.	0.5 Typ.

Dimensions in mm

TYPE	A	B	C
BDCC00201208	0.8	2.4	1.45

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (mΩ) Max(Typ)	Isat (A) Max(Typ)	Irms (A) Max(Typ)
BDCC00201208R24MWA	0.24	20	2	22(18)	5.5(6.0)	4.2(4.3)
BDCC00201208R33MWA	0.33	20	2	24(20)	4.8(5.8)	4.0(4.2)
BDCC00201208R47MWA	0.47	20	2	29(25)	4.3(4.8)	3.7(3.9)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

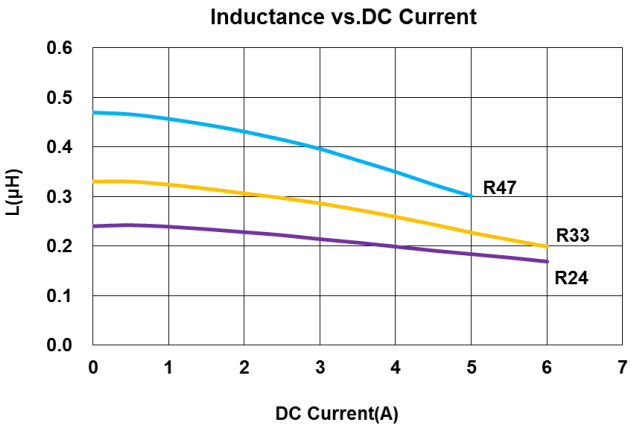
Test Instruments：

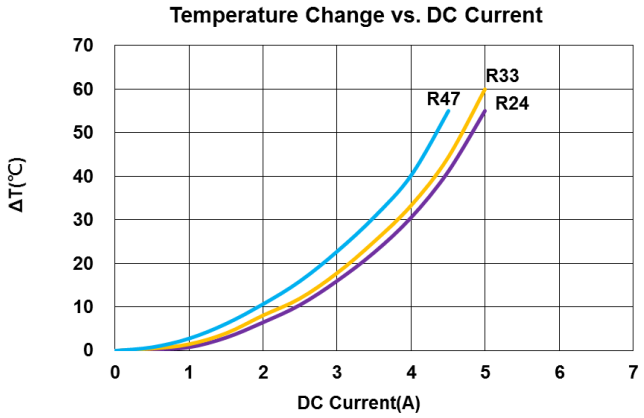
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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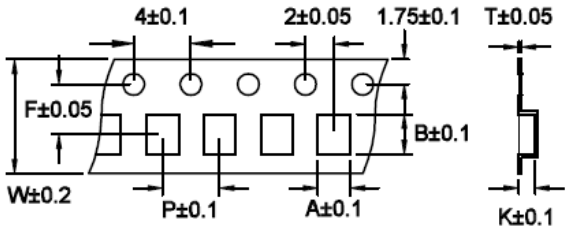
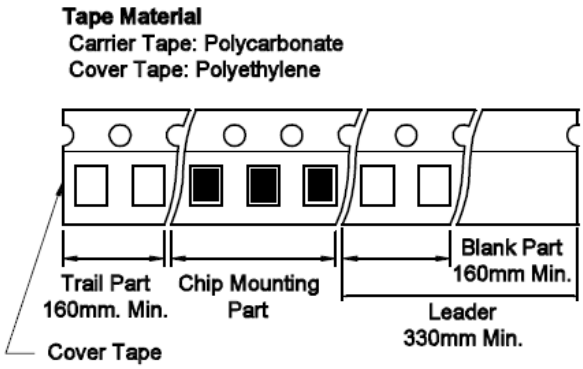
Packaging Specifications

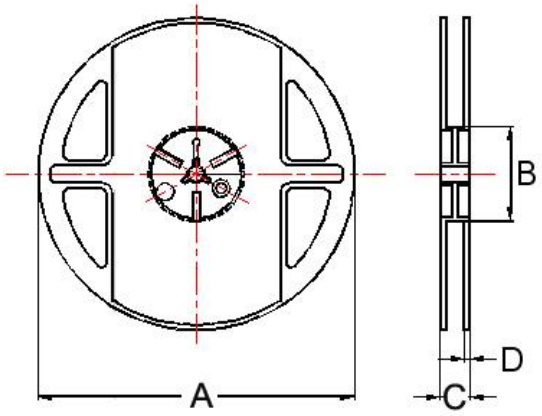
Tape Dimensions



Tape Material



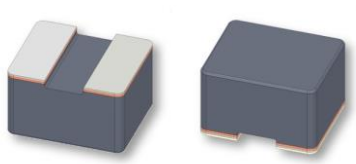
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
BDCC00201208	1.48	2.27	0.22	8	4	3.5	1.10	178	60	12	1.5	3000

BDQQ Series



The BDQQ series is the special design to enhance the performance of PFM and PWM applications. It provides lower Rac value at light load and lower Rdc value at heavy load to improve efficiency performance. Furthermore, it provides excellent saturation current to reduce the ripple current and enhance efficiency.

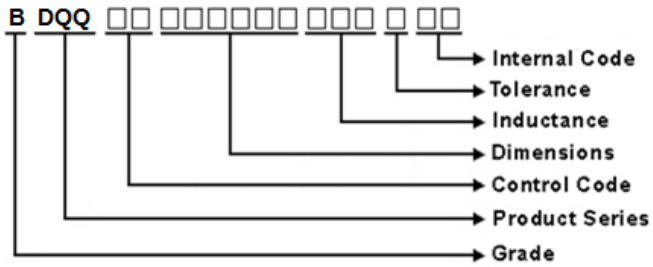
Features

- Chip Size: 1412
- Low profile: 0.65mm and 0.8mm
- Inductance: 0.11uH ~ 1.0uH
- Low Rdc for better power efficiency management
- High saturation current
- Special patented design for bottom termination

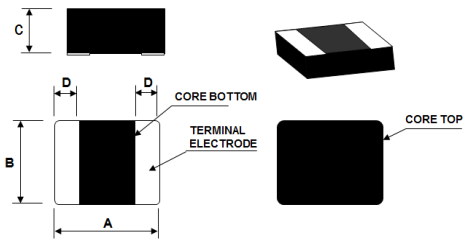
Applications

- DC-DC buck converter for power management
- 5G, Cell phone

Product Identification



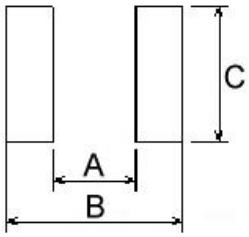
Chip Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D
BDQQ001412FE	1.4±0.2	1.2±0.2	0.65 Max.	0.5 Typ.
BDQQ00141208	1.4±0.2	1.2±0.2	0.80 Max.	0.5 Typ.

Recommended Pad Pattern



Dimensions in mm

TYPE	A	B	C
BDQQ001412FE	0.5	1.5	1.3
BDQQ00141208	0.5	1.5	1.3

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (mΩ) Max.	Isat (A) Max.	Irms (A) Max.
BDQQ001412FER11NCA	0.11	30	2	20	6.8	4.5
BDQQ001412FER24MCA	0.24	20	2	27	5.5	4.0
BDQQ001412FER33MCA	0.33	20	2	32	5.0	3.0
BDQQ001412FER47MCA	0.47	20	2	42	3.0	2.6
BDQQ001412FE1R0MCA	1.00	20	2	88	2.0	1.5

Note: Please be noted that the tolerance of 0.11uH is ±30% and others are ±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 15VDC

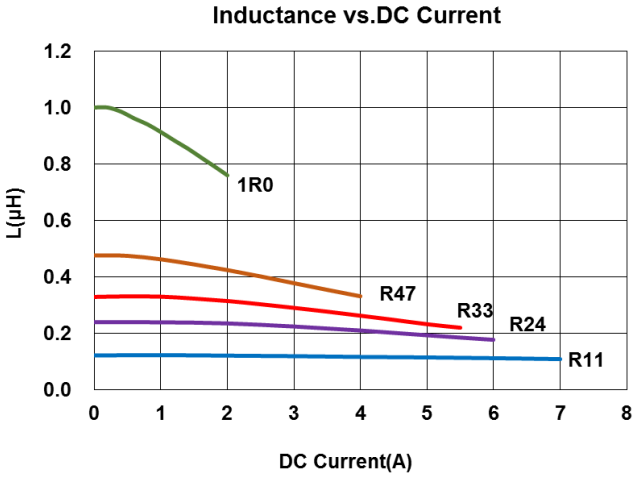
Test Instruments：

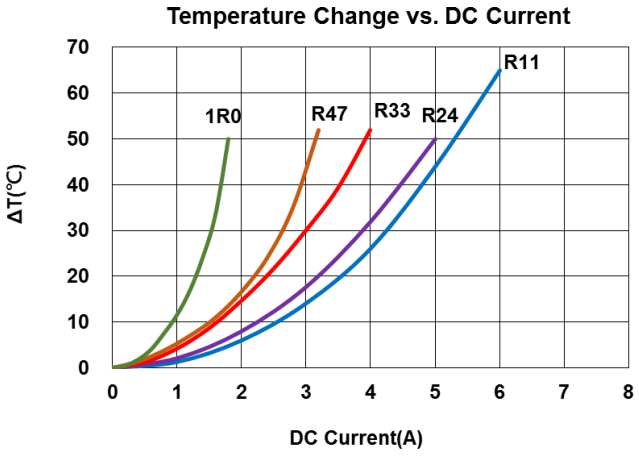
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (mΩ) Max.	Isat (A) Max.	Irms (A) Max.
BDQQ00141208R33MCA	0.33	20	2	25	5.0	4.0
BDQQ00141208R47MCA	0.47	20	2	29	4.5	3.3

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 15VDC

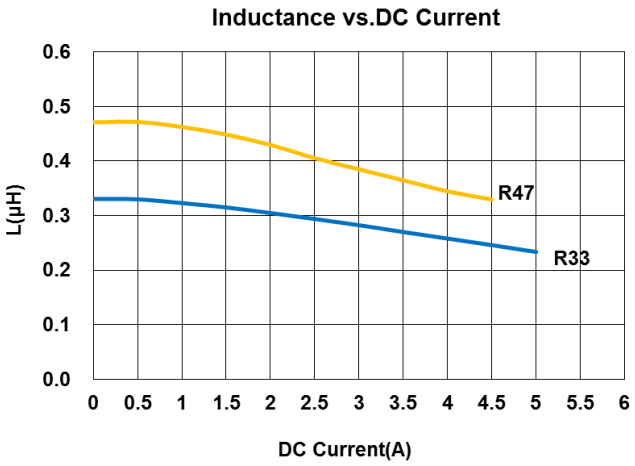
Test Instruments：

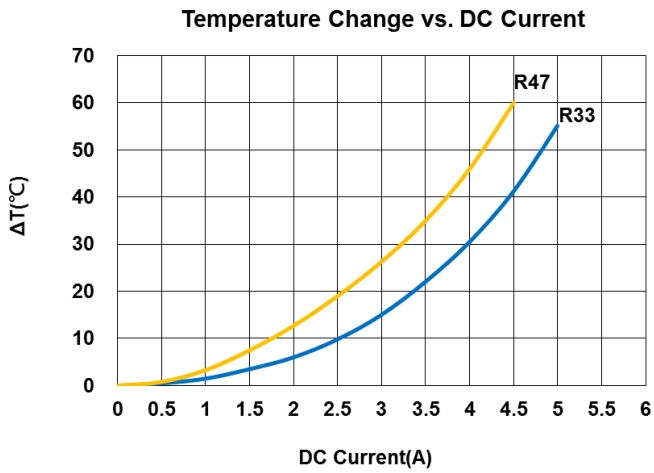
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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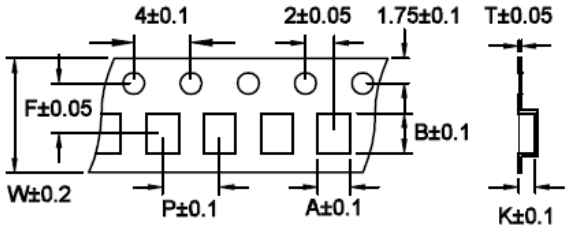
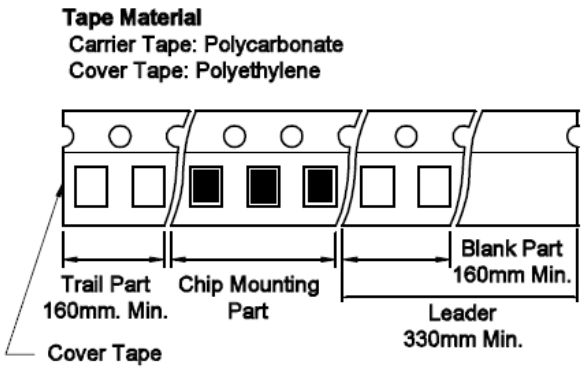
Packaging Specifications

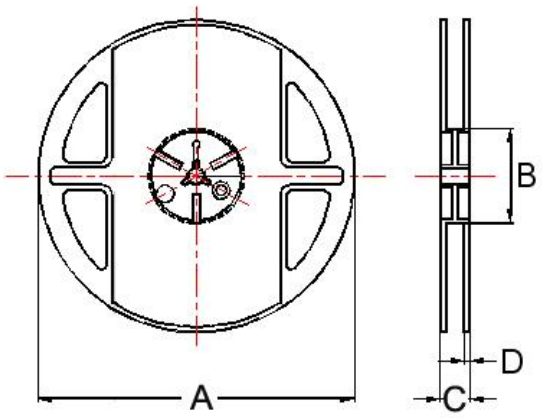
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
BDQQ001412FE	1.48	1.67	0.20	8	4	3.5	0.82	178	60	12	1.5	4000
BDQQ00141208	1.48	1.69	0.20	8	4	3.5	0.92	178	60	12	1.5	4000

BDAL Series

The BDAL Series is designed specifically to enhance both PFM and PWM application performance. Q (Rac) value at light load and the RDC value at heavy load are both exceptional. Furthermore, the saturated current performance is also optimal, helping to reduce the ripple current and enhance the efficiency.

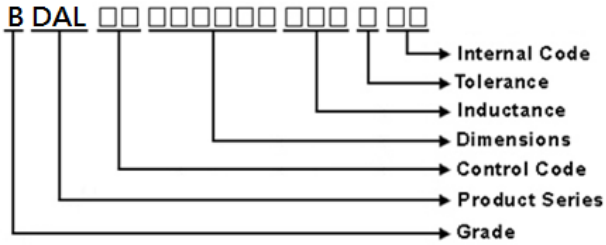
Features

- RoHS, Halogen Free and REACH Compliance
- High Efficiency
- Excellent Q, RDC and saturation current
- Low profile and miniature size down to 2.0*1.6*1.0mm

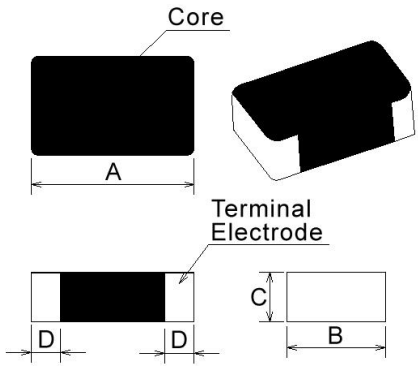
Applications

- Smartphones, tablets, laptop, and smart wearable devices
- HDD, SSD and PC peripheral devices
- Network server
- DC/DC buck converters

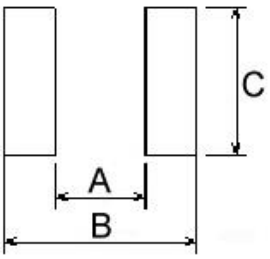
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
BDAL00201610	2.0±0.2	1.60±0.2	1.0Max	0.5±0.3
BDAL00252010	2.5±0.2	2.00±0.2	1.0Max	0.6±0.3
BDAL00252012	2.5±0.2	2.00±0.2	1.2Max	0.6±0.3

Dimensions in mm

TYPE	A	B	C
BDAL00201610	0.7	2.3	1.8
BDAL00252010	1.2	2.8	2.3
BDAL00252012	1.2	2.8	2.3

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDAL00201610R24MC1	0.24	20	2	27(21)	5.6(7.0)	4.6(5.3)
BDAL00201610R47MC1	0.47	20	2	34(28)	5.1(5.8)	4.5(5.0)
BDAL00201610R68MC1	0.68	20	2	43(38)	4.0(4.5)	3.1(3.7)
BDAL002016101R0MC1	1.0	20	2	62(53)	3.0(3.8)	2.7(3.4)
BDAL002016101R5MC1	1.5	20	2	85(75)	2.5(2.8)	2.3(2.7)
BDAL002016102R2MC1	2.2	20	2	135(112)	2.4(2.7)	1.8(2.2)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

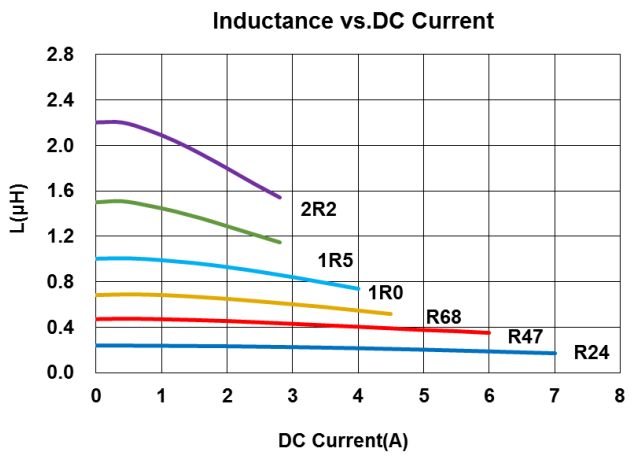
Test Instruments：

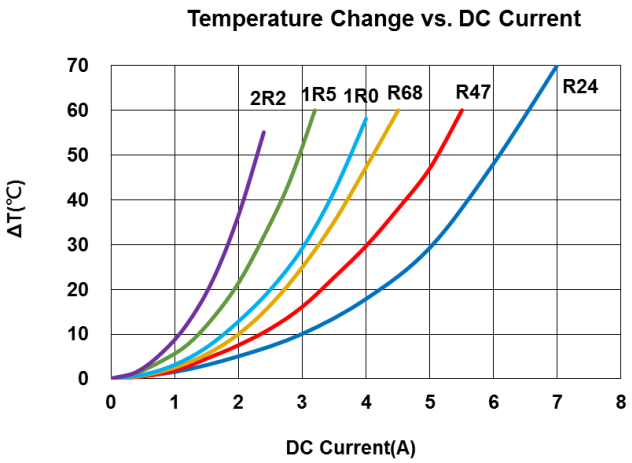
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDAL00252010R24MC1	0.24	20	2	18(13)	8.0(9.5)	5.5(6.5)
BDAL00252010R33MC1	0.33	20	2	24(18)	6.5(8.0)	4.8(5.5)
BDAL00252010R47MC1	0.47	20	2	35(27)	5.0(6.2)	3.9(4.5)
BDAL00252010R68MC1	0.68	20	2	40(32)	4.5(5.6)	3.7(4.2)
BDAL002520101R0MC1	1.0	20	2	48(40)	4.1(4.6)	3.5(4.0)
BDAL002520101R5MC1	1.5	20	2	75(68)	3.1(3.8)	2.4(2.8)
BDAL002520102R2MC1	2.2	20	2	97(87)	2.5(3.0)	2.2(2.5)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

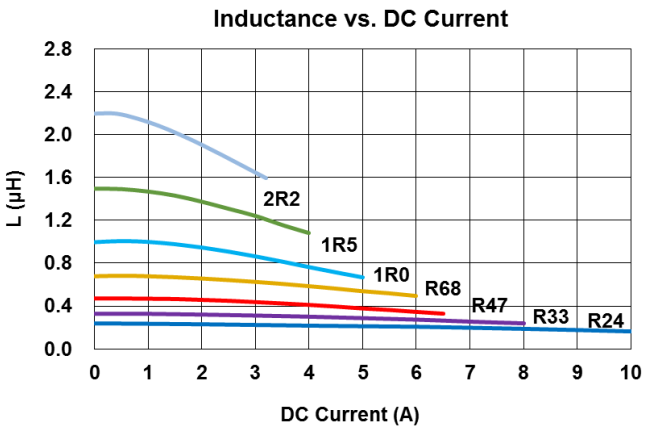
Test Instruments：

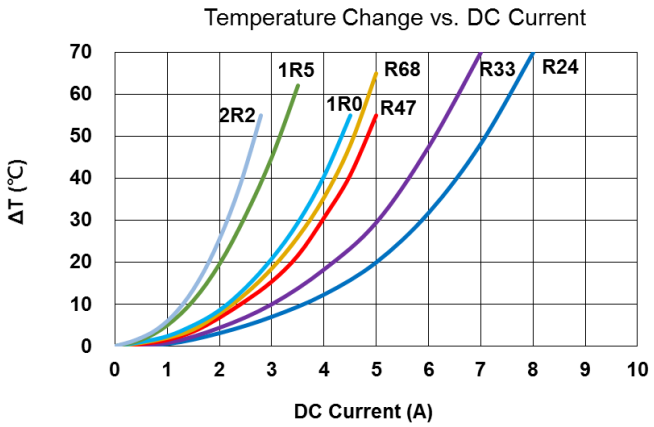
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDAL00252012R24MC1	0.24	20	2	15(11)	9.0(10.5)	6.2(7.3)
BDAL00252012R33MC1	0.33	20	2	18(15)	8.5(10.0)	5.8(6.4)
BDAL00252012R47MC1	0.47	20	2	33(28)	5.6(7.0)	3.8(4.5)
BDAL00252012R68MC1	0.68	20	2	36(30)	5.0(6.2)	3.7(4.4)
BDAL002520121R0MC1	1.0	20	2	42(35)	4.4(5.5)	3.6(4.1)
BDAL002520121R5MC1	1.5	20	2	59(52)	3.4(4.2)	2.7(3.1)
BDAL002520122R2MC1	2.2	20	2	86(80)	2.9(3.5)	2.5(2.9)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

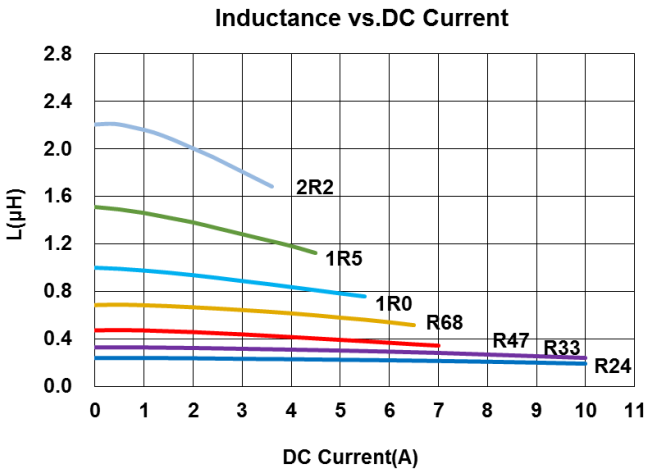
Test Instruments：

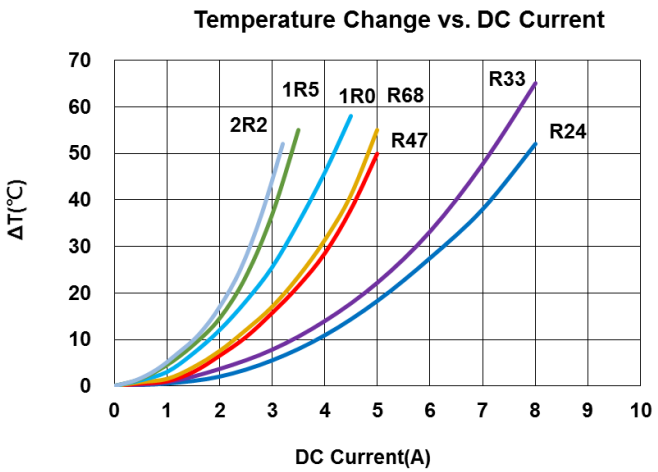
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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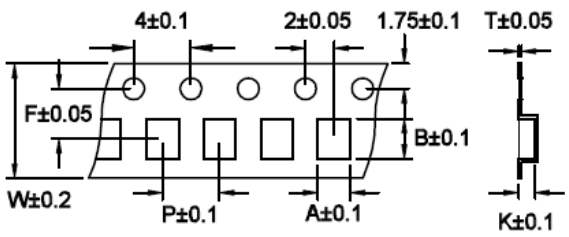
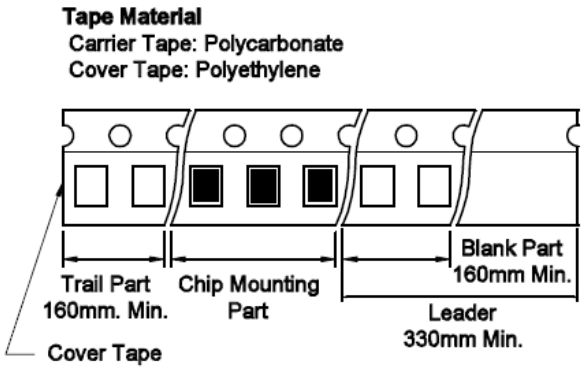
Packaging Specifications

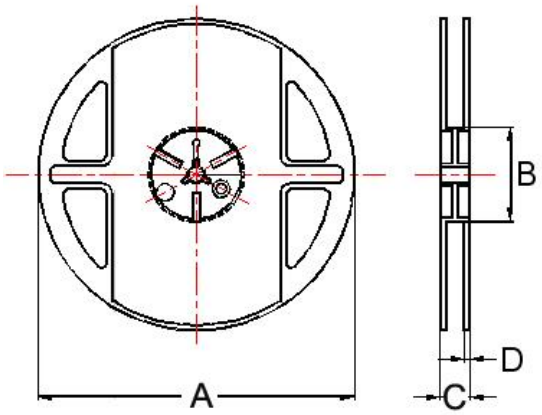
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
BDAL00201610	1.90	2.30	0.22	8	4	3.5	1.15	178	60	12	1.5	3000
BDAL00252010	2.45	2.80	0.22	8	4	3.5	1.20	178	60	12	1.5	3000
BDAL00252012	2.30	2.80	0.22	8	4	3.5	1.35	178	60	12	1.5	3000

BDBL Series

The BDBL Series is designed specifically to enhance both PFM and PWM application performance. Q (Rac) value at light load and the RDC value at heavy load are both exceptional. Furthermore, the saturated current performance is also optimal, helping to reduce the ripple current and enhance the efficiency.

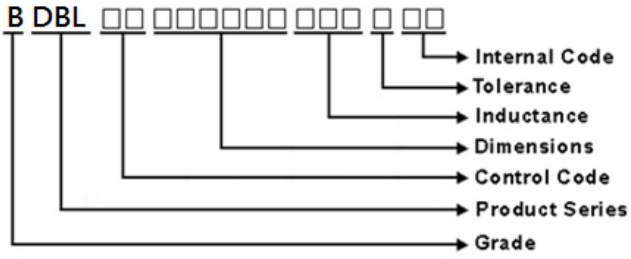
Features

- RoHS, Halogen Free and REACH Compliance
- High Efficiency
- Excellent Q, RDC and saturation current
- Low profile and miniature size down to 2.0*1.6*0.8mm

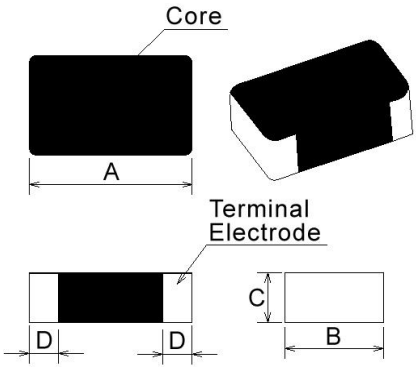
Applications

- Smartphones, tablets, laptop, and smart wearable devices
- HDD, SSD and PC peripheral devices
- Network server
- DC/DC buck converters

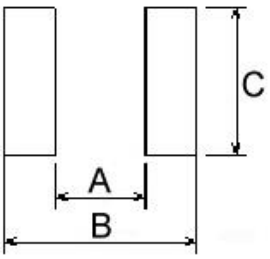
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
BDBL00201610	2.0±0.2	1.60±0.2	1.0Max	0.5±0.3
BDBL00252012	2.5±0.2	2.00±0.2	1.2Max	0.6±0.3

Dimensions in mm

TYPE	A	B	C
BDBL00201610	0.7	2.3	1.8
BDBL00252012	1.2	2.8	2.3

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDBL00201610R24MC1	0.24	20	2	20(15.5)	6.3(7.1)	4.7(5.5)
BDBL00201610R47MC1	0.47	20	2	26(22)	4.8(5.0)	4.0(4.3)
BDBL002016101R0MC1	1.00	20	2	43(38)	4.2(4.5)	3.6(3.9)
BDBL002016102R2MC1	2.20	20	2	112(106)	2.5(2.7)	2.3(2.5)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

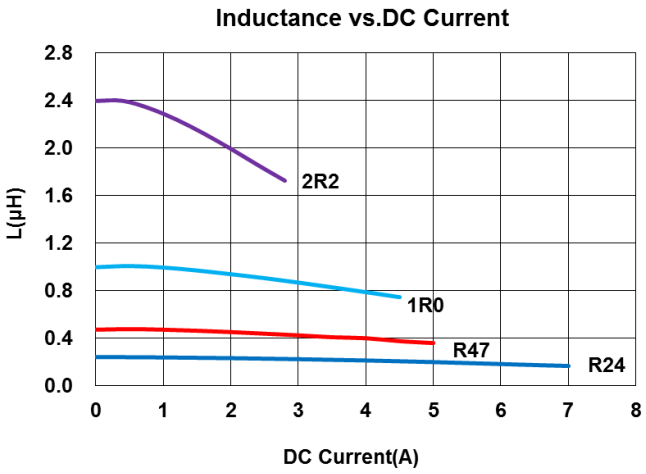
Test Instruments：

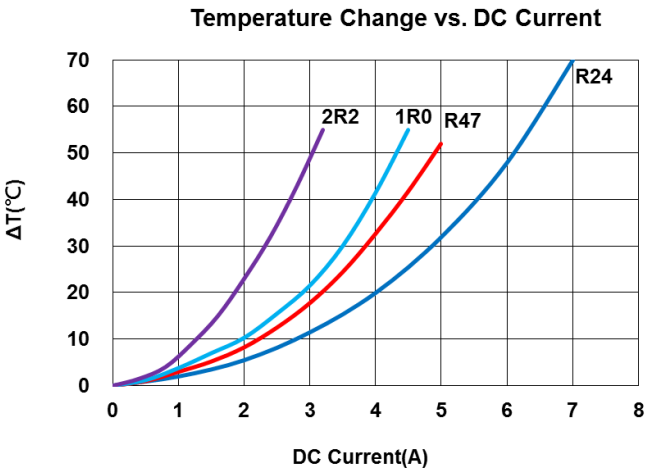
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDBL00252012R47MC1	0.47	20	2	21(16)	8.0(8.2)	4.6(4.8)
BDBL00252012R68MC1	0.68	20	2	31(25)	5.4(6.0)	3.9(4.6)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

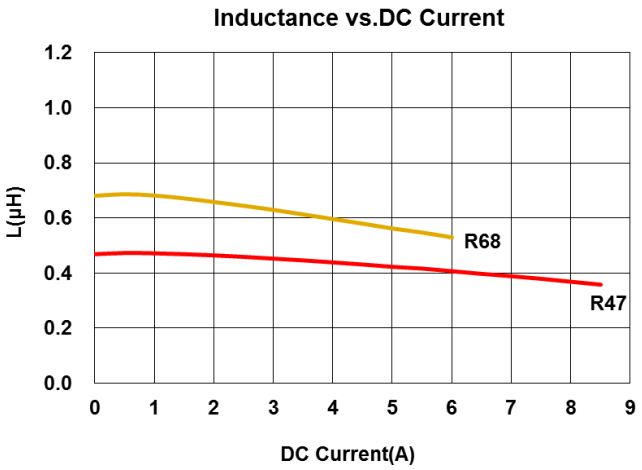
Test Instruments：

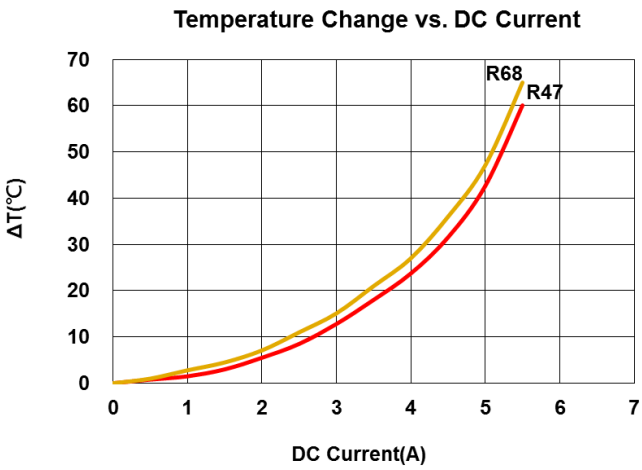
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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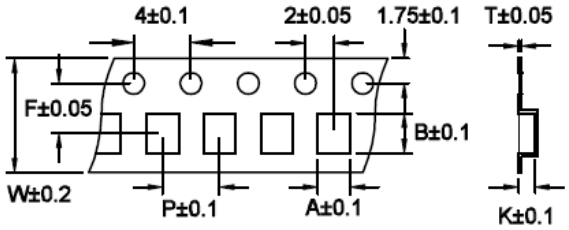
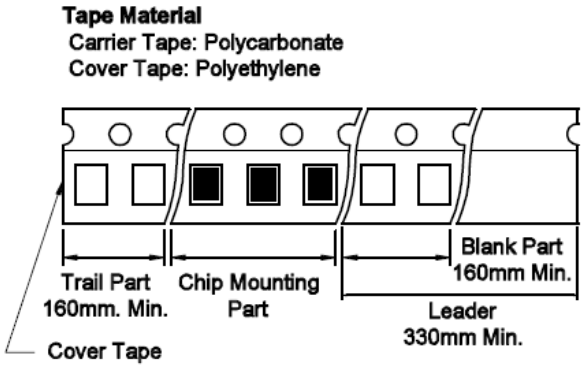
Packaging Specifications

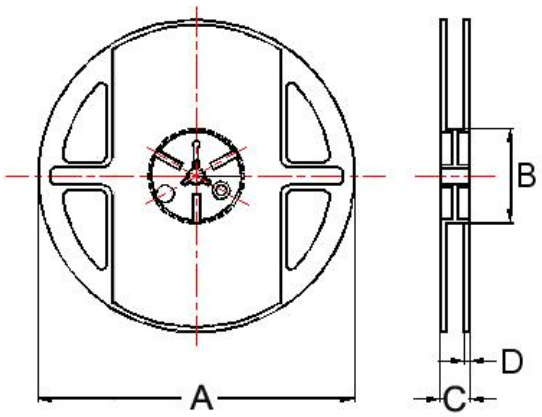
Tape Dimensions



Tape Material



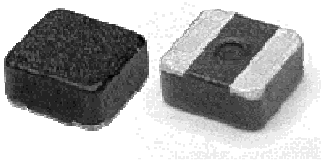
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
BDBL00201610	1.90	2.30	0.22	8	4	3.5	1.15	178	60	12	1.5	3000
BDBL00252012	2.30	2.80	0.22	8	4	3.5	1.35	178	60	12	1.5	3000

BDSP Series



The series is designed specifically to enhance DDR5 application performance. Better ACR value at light load and the DCR value at heavy load.
Furthermore, the saturation current performance is also optimal, helping to reduce the ripple current and enhance the efficiency.
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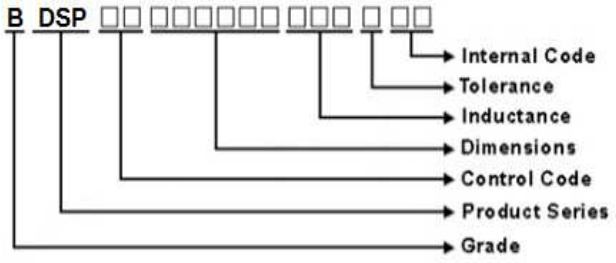
Features

- RoHS, Halogen Free and REACH Compliance
- Higher Isat and lower DCR、ACR with smaller chip size
- Low coil resistance with large currents.
- Low profile:4.3mm x 4.3mm x 2.0mm
- High Efficiency

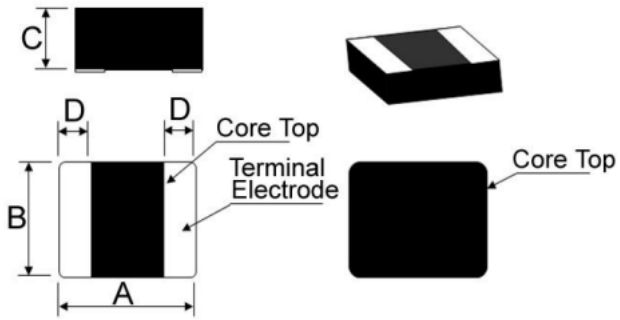
Applications

- Server
- Notebook
- SSD

Product Identification



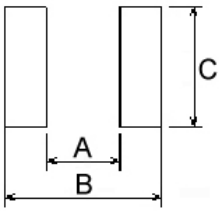
Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D
404020	4.0±0.3	4.0±0.3	2.0Max	1.3±0.3

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
404020	1.1	4.3	4.3

Electrical Characteristics

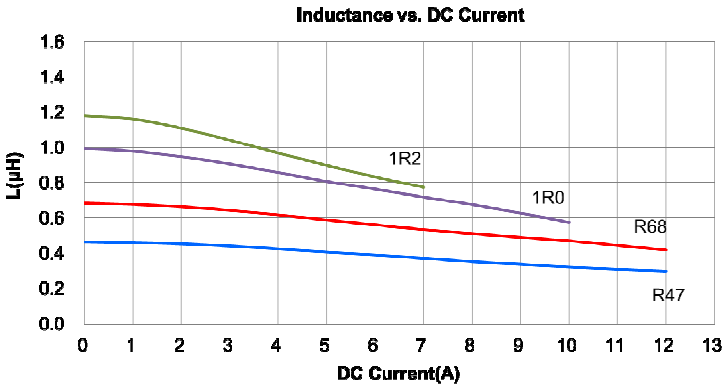
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)
BDSP00404020R47MJP	0.47	20	1	4.5(4.0)	9.2(11)	10.5(11.5)
BDSP00404020R68MJP	0.68	20	1	6.2(5.5)	8.0(9.2)	9.5(10.5)
BDSP004040201R0MJP	1.00	20	1	9.5(8.3)	6.0(7.5)	8.3(9.5)
BDSP004040201R2MJP	1.20	20	1	12.0(9.5)	5.0(6.5)	6.0(7.0)

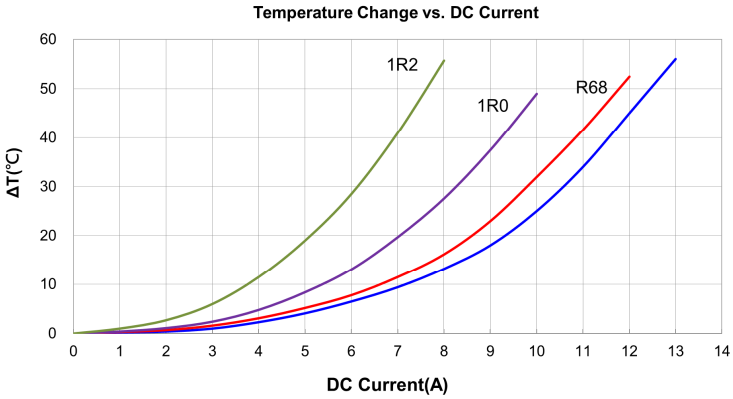
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 20VDC (Based on test method, it may not the same under different application, it is recommended to verify first.)

Test Instruments：

L：Agilent E4991/HP4286A+16197A/WP6500P (or equivalent), 1MHz 1V
DCR：CHEN HWA502BC/HP4338B (or equivalent)
Isat：Agilent E4980A+HP42841A (or equivalent)
Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)





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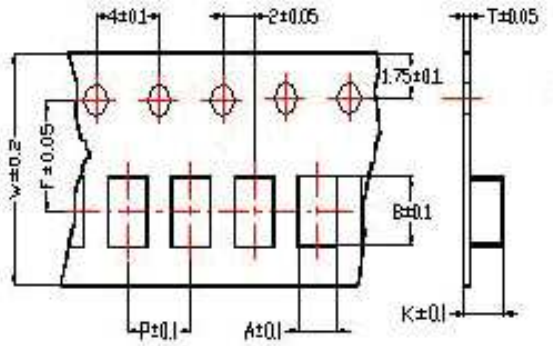
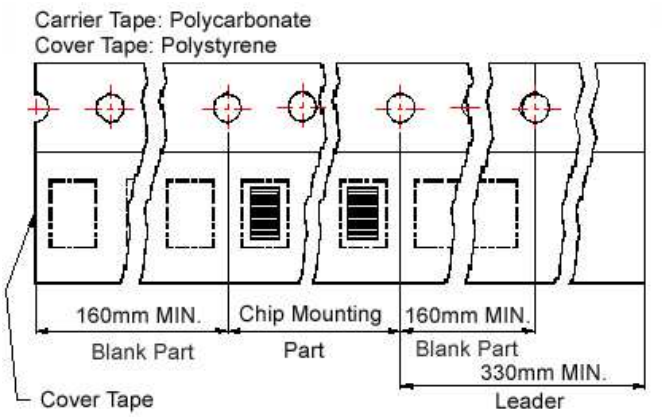
Packaging Specifications

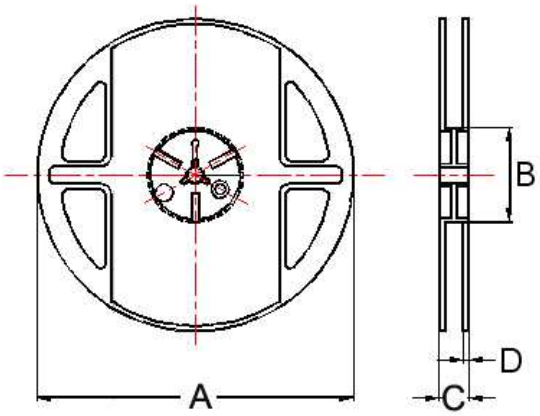
Tape Dimensions



Tape Material



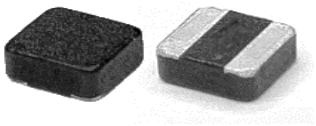
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
404020	4.4	4.5	0.25	12	8	3.5	2.4	330	100	16	2	2000

BESP Series



The series is designed specifically to enhance DDR5 application performance. Better ACR value at light load and the DCR value at heavy load.
Furthermore, the saturation current performance is also optimal, helping to reduce the ripple current and enhance the efficiency.
.

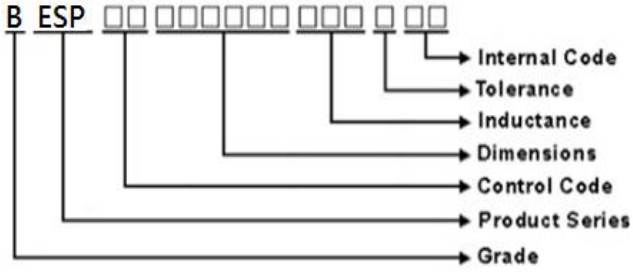
Features

- RoHS, Halogen Free and REACH Compliance
- Higher Isat and lower DCR、ACR with smaller chip size
- Low coil resistance with large currents.
- High Efficiency

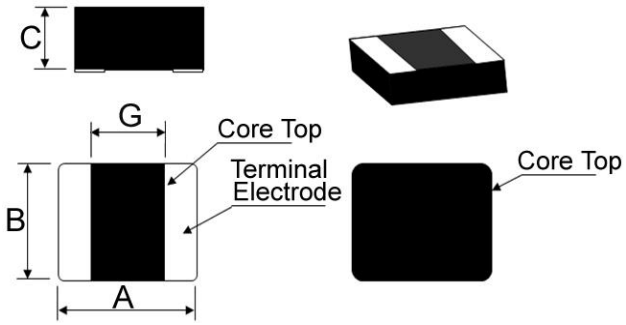
Applications

- Server
- Notebook
- SSD

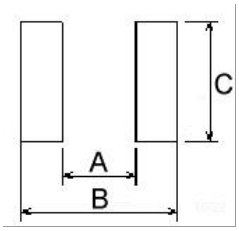
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	G
252012	2.5±0.2	2.0±0.2	1.2 Max	1.0 Typ
322512	3.2±0.2	2.5±0.2	1.2 Max	1.2 Typ

Dimensions in mm

TYPE	A	B	C
252012	1.0	2.7	2.2
322512	1.2	3.4	2.7

Electrical Characteristics

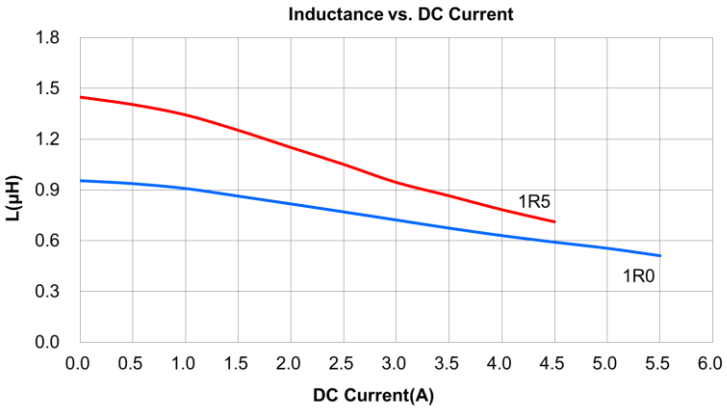
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)
BESP002520121R0MJS	1.00	20	1	28.0(25.0)	3.0(3.3)	4.2(4.7)
BESP002520121R5MJS	1.50	20	1	50.0(45.0)	2.4(2.7)	3.3(3.8)

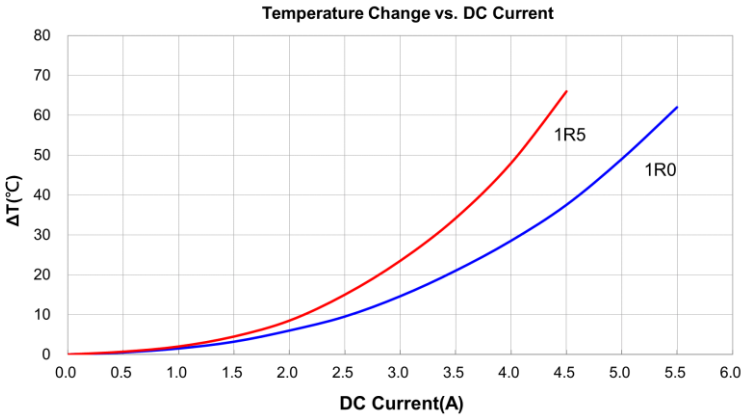
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 15VDC (Based on test method, it may not the same under different application, it is recommended to verify first.)

Test Instruments：

L：Agilent E4991/HP4286A+16197A/WP6500P (or equivalent), 1MHz 1V
RDC：CHEN HWA502BC/HP4338B (or equivalent)
Isat：Agilent E4980A+HP42841A (or equivalent)
Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)





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Electrical Characteristics

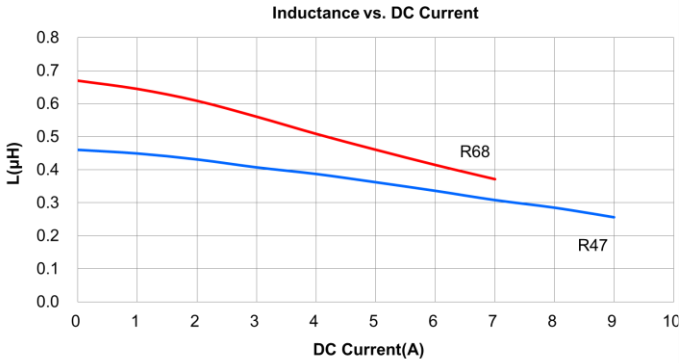
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)
BESP00322512R47MJS	0.47	20	1	12.0(10.5)	5.6(6.2)	6.0(6.5)
BESP00322512R68MJS	0.68	20	1	16.5(14.0)	4.2(4.6)	5.5(6.0)

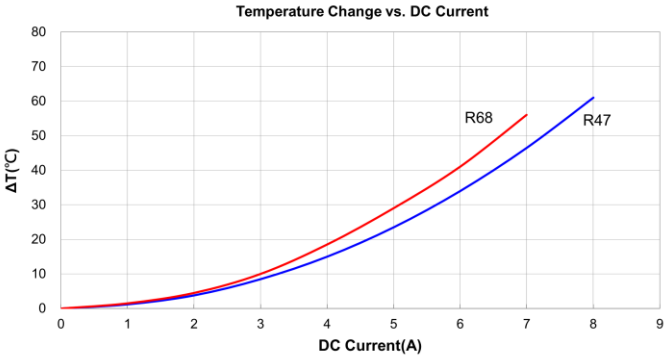
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 15VDC (Based on test method, it may not the same under different application, it is recommended to verify first.)

Test Instruments：

L：Agilent E4991/HP4286A+16197A/WP6500P (or equivalent), 1MHz 1V
RDC：CHEN HWA502BC/HP4338B (or equivalent)
Isat：Agilent E4980A+HP42841A (or equivalent)
Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)





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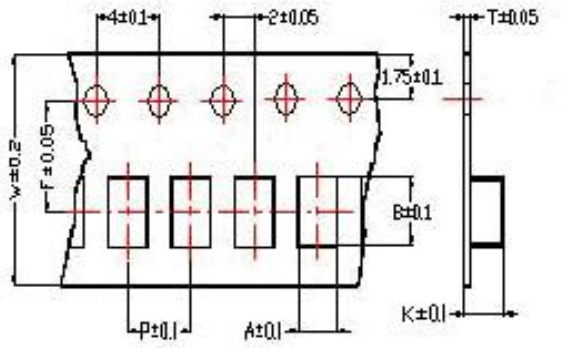
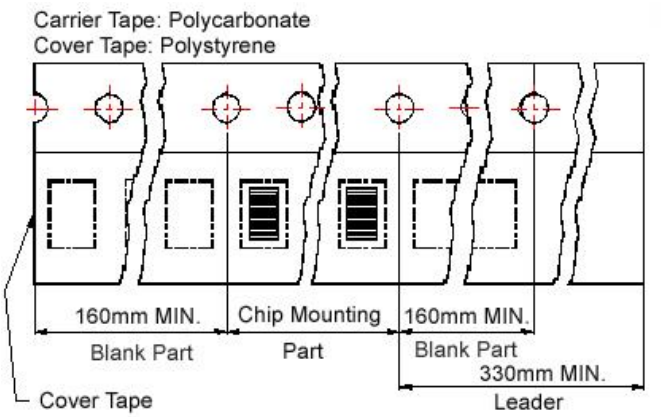
Packaging Specifications

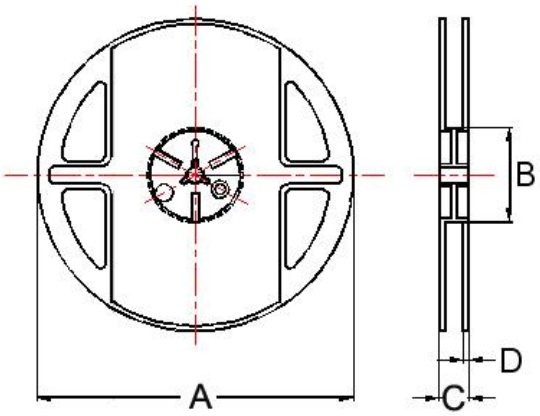
Tape Dimensions



Tape Material



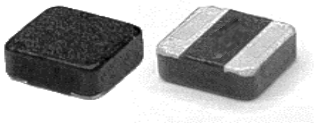
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
252012	2.35	2.90	0.25	8	4	3.5	1.35	178	60	12	1.5	3000
322512	2.85	3.50	0.25	8	4	3.5	1.35	178	60	12	1.5	2000

BEBE Series



The BEBE Series is designed specifically to enhance the performance of both PFM and PWM applications. The Rac value at light load and the DCR value at heavy load are both exceptional. Furthermore, the saturated current performance is also optimal, helping to reduce the ripple current and enhance the efficiency.

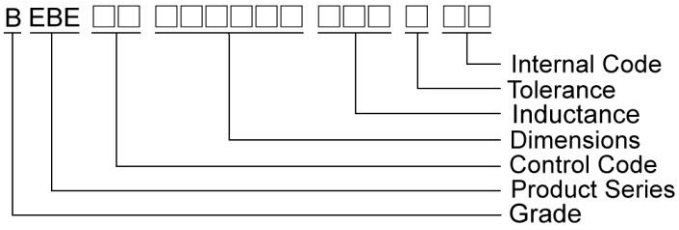
Features

- RoHS, Halogen Free and REACH Compliance
- High performance (Isat) realized by metal dust core.
- Low coil resistance with large currents.

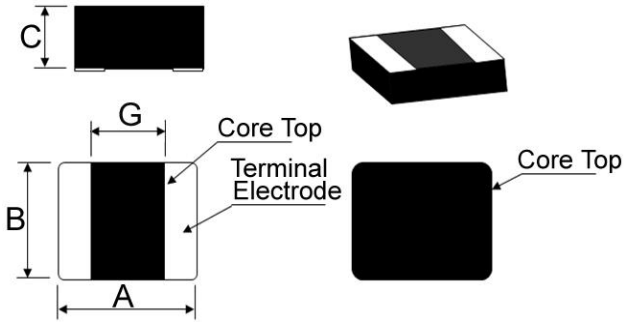
Applications

- Smartphones, wearable devices, Pad, Notebook

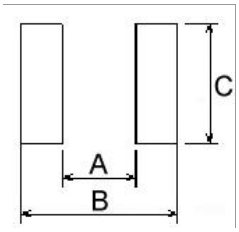
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	G
BEBE001412F5	1.4±0.2	1.2±0.2	0.65Max	0.53
BEBE00141208	1.4±0.2	1.2±0.2	0.8Max	0.53
BEBE00201208	2.0±0.2	1.2±0.2	0.8Max	0.6
BEBE00201210	2.0±0.2	1.2±0.2	1.0Max	0.6
BEBE00201212	2.0±0.2	1.2±0.2	1.2Max	0.6
BEBE00252010	2.5±0.2	2.0±0.2	1.0Max	0.7
BEBE00252012	2.5±0.2	2.0±0.2	1.2Max	0.7
BEBE00322508	3.2±0.2	2.5±0.2	0.8Max	0.9
BEBE00322510	3.2±0.2	2.5±0.2	1.2Max	0.9
BEBE00303010	3.1±0.2	2.9±0.2	1.0Max	1.1

Dimensions in mm

TYPE	A	B	C
BEBE001412F5	0.5	1.6	1.4
BEBE00141208	0.5	1.6	1.4
BEBE00201208	0.5	2.2	1.4
BEBE00201210	0.5	2.2	1.4
BEBE00201212	0.5	2.2	1.4
BEBE00252010	0.6	2.7	2.2
BEBE00252012	0.6	2.7	2.2
BEBE00322508	0.8	3.7	2.8
BEBE00322510	0.8	3.7	2.8
BEBE00303010	1.2	3.4	3.2

Electrical Characteristics

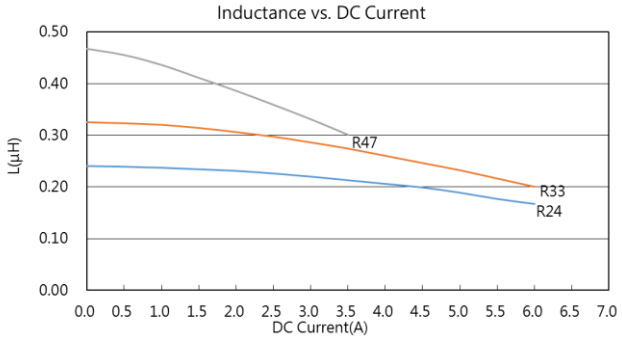
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)
BEBE001412F5R24MMA	0.24	20	1MHz,1V	28.0(25.0)	5.5(6.0)	4.0(4.5)
BEBE001412F5R33MMA	0.33	20	1MHz,1V	32.0(26.0)	5.0(5.5)	3.0(3.3)
BEBE001412F5R47MMA	0.47	20	1MHz,1V	42.0(35.0)	3.0(3.3)	2.6(2.9)

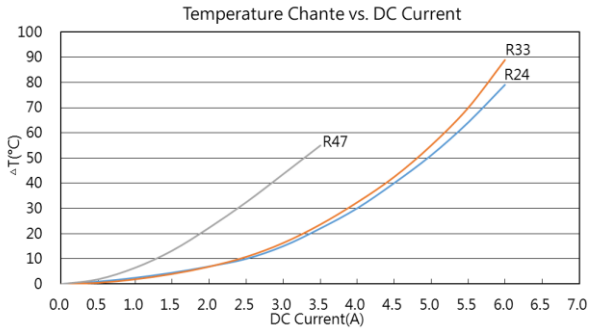
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 15VDC(Based on test method, it may not the same under different application,it is recommended to verify first.)

Test Instruments：

L：Agilent E4991/HP4286A+16197A/WP6500P (or equivalent), 1MHz 1V
DCR：CHEN HWA502BC/HP4338B (or equivalent)
Isat：Agilent E4980A+HP42841A (or equivalent)
Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

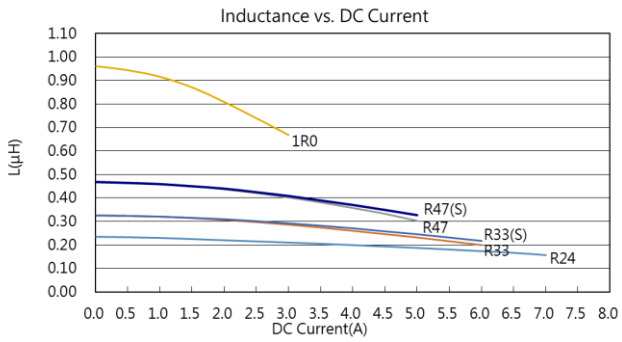
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)
BEBE00141208R24MMA	0.24	20	1MHz,1V	21.5(18.5)	6.5(7.1)	5.3(5.8)
BEBE00141208R33MMA	0.33	20	1MHz,1V	25.0(23.0)	4.5(5.0)	3.6(4.0)
BEBE00141208R47MMA	0.47	20	1MHz,1V	30.0(28.0)	4.0(4.5)	3.0(3.3)
BEBE001412081R0MMA	1.00	20	1MHz,1V	77.0(70.0)	2.5(2.8)	2.0(2.3)
BEBE00141208R33MMS	0.33	20	1MHz,1V	25.0(23.0)	5.5(5.7)	3.6(4.0)
BEBE00141208R47MMS	0.47	20	1MHz,1V	30.0(28.0)	4.8(5.0)	3.0(3.3)

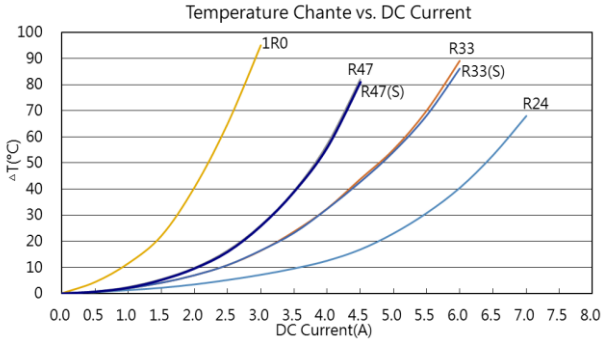
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 15VDC(Based on test method, it may not the same under different application,it is recommended to verify first.)

Test Instruments：

L：Agilent E4991/HP4286A+16197A/WP6500P (or equivalent), 1MHz 1V
DCR：CHEN HWA502BC/HP4338B (or equivalent)
Isat：Agilent E4980A+HP42841A (or equivalent)
Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)





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Pulse a YAGEO company
CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)
BEBE00201208R11MMA	0.11	20	1MHz,1V	12.0(10.0)	8.6(9.1)	6.5(7.0)
BEBE00201208R24MMA	0.24	20	1MHz,1V	20.0(17.0)	7.9(8.3)	6.0(6.5)
BEBE00201208R33MMA	0.33	20	1MHz,1V	23.0(19.0)	6.0(6.5)	4.7(5.3)
BEBE00201208R47MMA	0.47	20	1MHz,1V	25.0(23.0)	4.3(4.8)	3.7(4.2)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 15VDC(Based on test method, it may not the same under different application,it is recommended to verify first.)

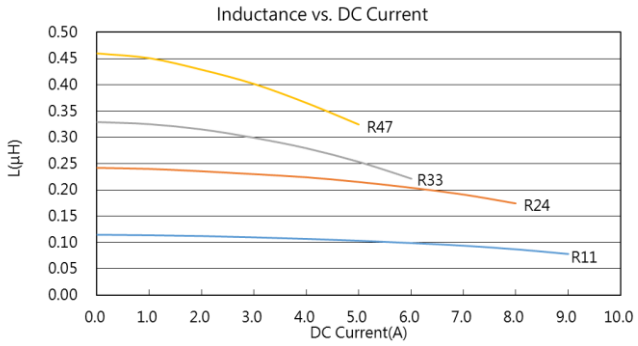
Test Instruments：

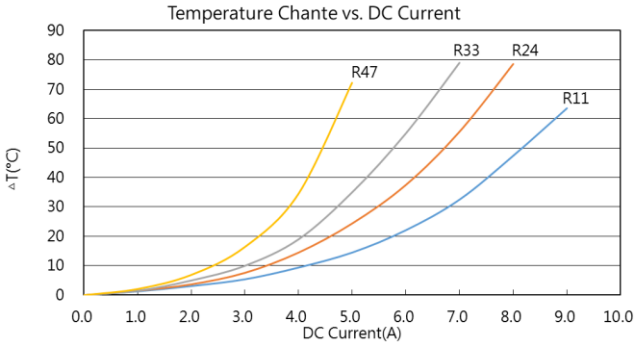
L：Agilent E4991/HP4286A+16197A/WP6500P (or equivalent), 1MHz 1V

DCR：CHEN HWA502BC/HP4338B (or equivalent)

Isat：Agilent E4980A+HP42841A (or equivalent)

Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)





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Electrical Characteristics

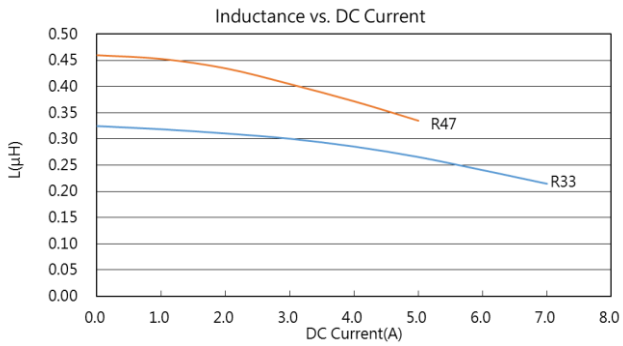
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)
BEBE00201210R33MMA	0.33	20	1MHz,1V	20.0(18.0)	6.0(6.5)	4.7(5.3)
BEBE00201210R47MMA	0.47	20	1MHz,1V	24.0(21.0)	5.0(5.5)	4.2(4.7)

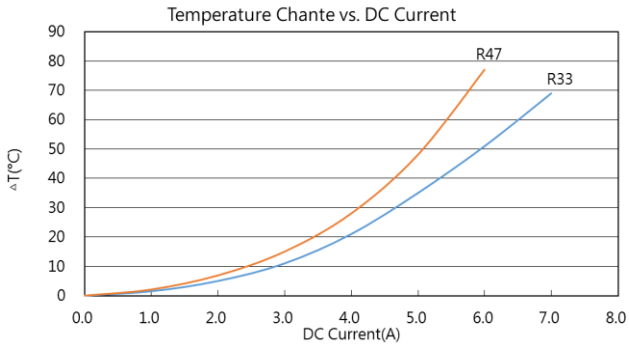
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 15VDC(Based on test method, it may not the same under different application,it is recommended to verify first.)

Test Instruments：

L：Agilent E4991/HP4286A+16197A/WP6500P (or equivalent), 1MHz 1V
DCR：CHEN HWA502BC/HP4338B (or equivalent)
Isat：Agilent E4980A+HP42841A (or equivalent)
Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)





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Electrical Characteristics

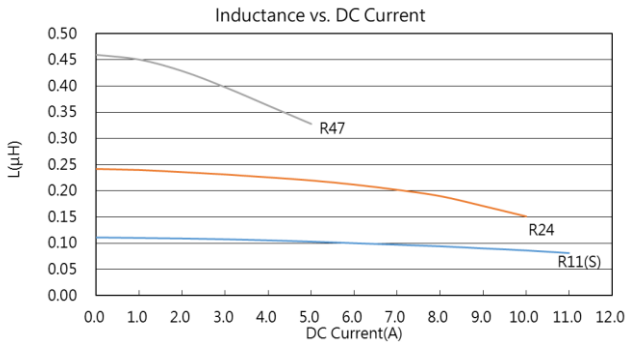
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	D Irms(A) Max(Typ)
BEBE00201212R11MMS	0.11	20	1MHz,1V	5.8(5.0)	11.0(11.5)	9.5(10.0)
BEBE00201212R24MMA	0.24	20	1MHz,1V	19.0(17.0)	8.5(9.0)	7.0(7.5)
BEBE00201212R47MMA	0.47	20	1MHz,1V	23.5(22.0)	5.0(5.5)	4.5(5.0)

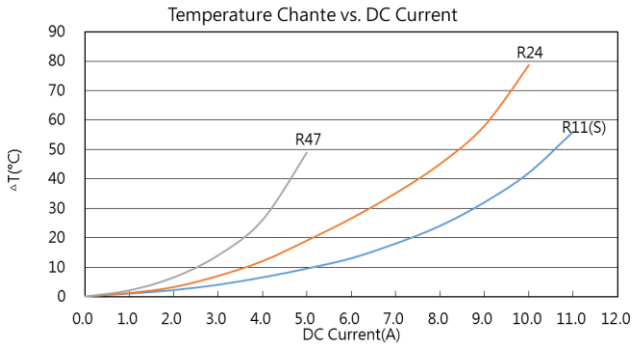
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 15VDC(Based on test method, it may not the same under different application,it is recommended to verify first.)

Test Instruments：

L：Agilent E4991/HP4286A+16197A/WP6500P (or equivalent), 1MHz 1V
DCR：CHEN HWA502BC/HP4338B (or equivalent)
Isat：Agilent E4980A+HP42841A (or equivalent)
Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)





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Electrical Characteristics

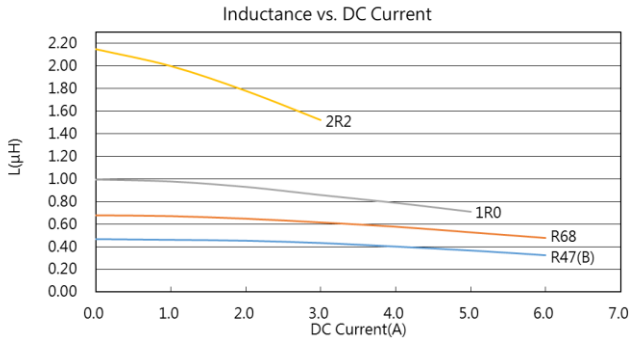
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)
BEBE00252010R47MMB	0.47	20	1MHz,1V	25.0(19.0)	5.0(5.6)	3.7(4.3)
BEBE00252010R68MMA	0.68	20	1MHz,1V	18.5(16.0)	5.5(6.0)	5.0(5.5)
BEBE002520101R0MMA	1.00	20	1MHz,1V	25.0(18.0)	5.0(5.5)	5.2(5.7)
BEBE002520102R2MMA	2.20	20	1MHz,1V	77.0(70.0)	2.5(3.0)	2.6(2.9)

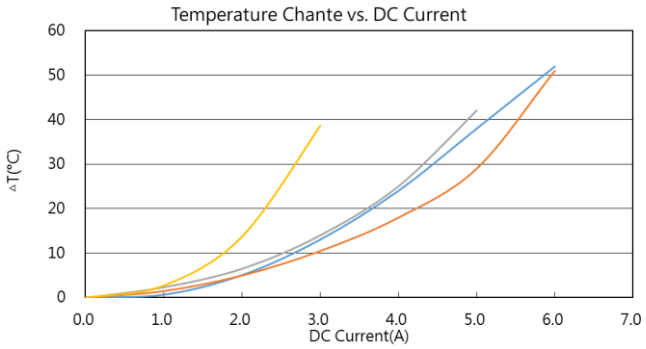
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 15VDC(Based on test method, it may not the same under different application,it is recommended to verify first.)

Test Instruments：

L：Agilent E4991/HP4286A+16197A/WP6500P (or equivalent), 1MHz 1V
DCR：CHEN HWA502BC/HP4338B (or equivalent)
Isat：Agilent E4980A+HP42841A (or equivalent)
Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)





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Electrical Characteristics

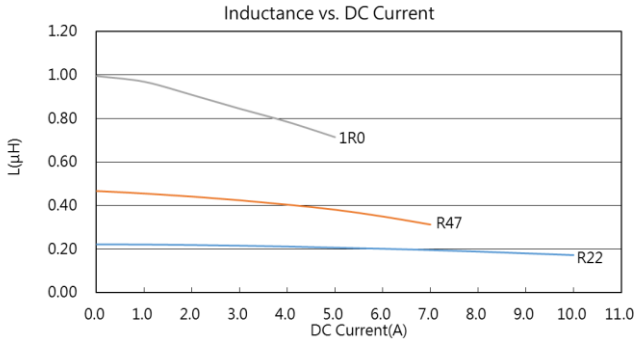
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)
BEBE00252012R22MMB	0.22	20	1MHz,1V	13.0(10.0)	9.0(9.5)	8.0(8.5)
BEBE00252012R47MMB	0.47	20	1MHz,1V	23.0(18.0)	5.9(6.5)	6.0(6.3)
BEBE002520121R0MMB	1.00	20	1MHz,1V	32.0(27.0)	4.3(4.9)	4.2(5.0)

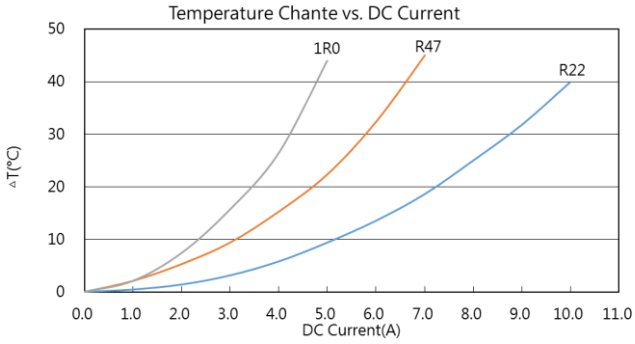
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 15VDC(Based on test method, it may not the same under different application,it is recommended to verify first.)

Test Instruments：

L：Agilent E4991/HP4286A+16197A/WP6500P (or equivalent), 1MHz 1V
DCR：CHEN HWA502BC/HP4338B (or equivalent)
Isat：Agilent E4980A+HP42841A (or equivalent)
Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)





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Electrical Characteristics

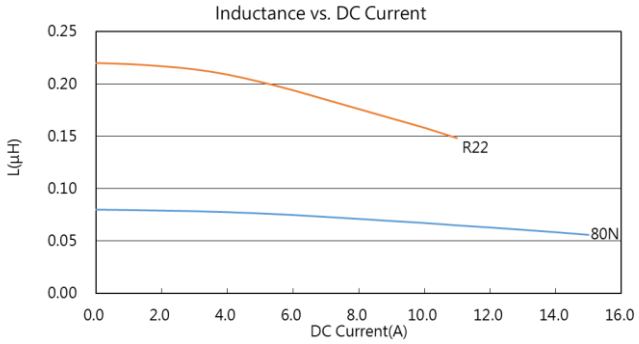
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)
BEBE0032250880NMMA	0.08	20	1MHz,1V	4.2(3.9)	14.5(15.5)	8.0(9.0)
BEBE00322510R22MMA	0.22	20	1MHz,1V	12.5(10.5)	10.0(11.0)	7.0(7.5)

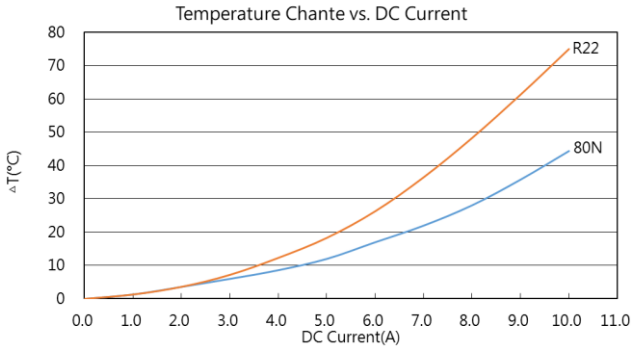
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 15VDC(Based on test method, it may not the same under different application,it is recommended to verify first.)

Test Instruments：

L：Agilent E4991/HP4286A+16197A/WP6500P (or equivalent), 1MHz 1V
DCR：CHEN HWA502BC/HP4338B (or equivalent)
Isat：Agilent E4980A+HP42841A (or equivalent)
Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)





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Electrical Characteristics

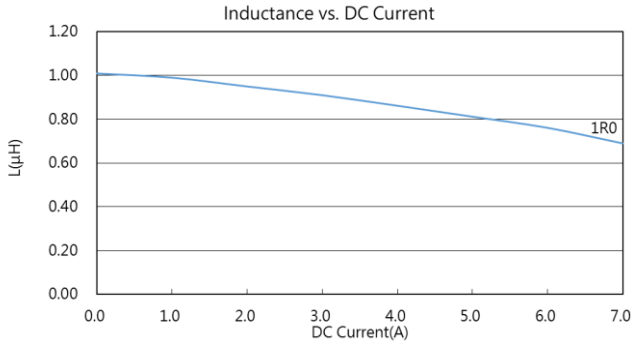
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)
BEBE003030101R0MMA	1.00	20	1MHz,1V	30.0(27.0)	6.3(6.8)	5.3(5.8)

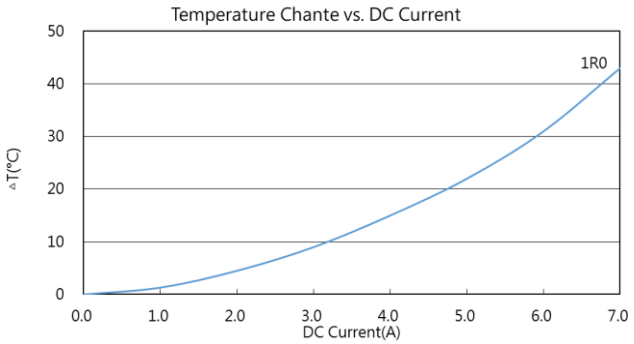
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 15VDC(Based on test method, it may not the same under different application,it is recommended to verify first.)

Test Instruments：

L：Agilent E4991/HP4286A+16197A/WP6500P (or equivalent), 1MHz 1V
DCR：CHEN HWA502BC/HP4338B (or equivalent)
Isat：Agilent E4980A+HP42841A (or equivalent)
Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)





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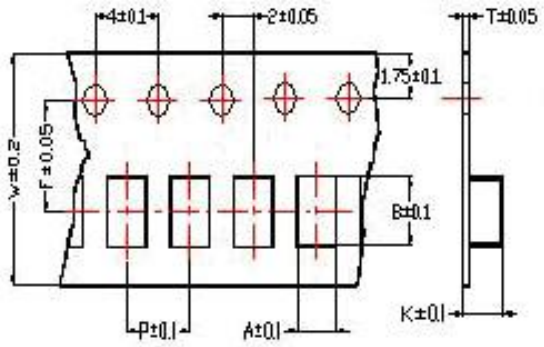
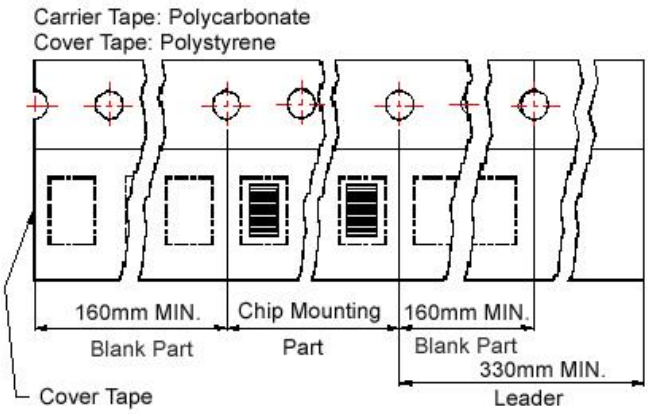
Packaging Specifications

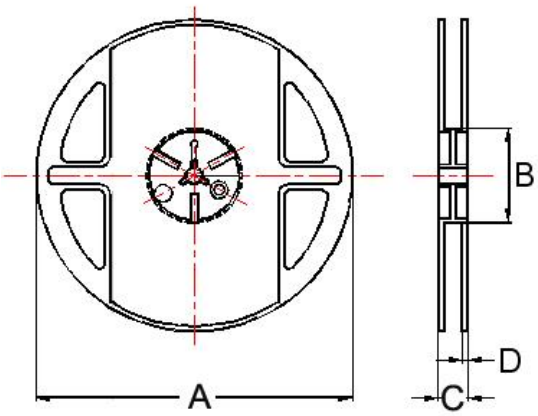
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
BEBE001412F5	1.50	1.70	0.22	8	4	3.5	0.80	178	60	12	1.5	3000
BEBE00141208	1.50	1.70	0.22	8	4	3.5	0.95	178	60	12	1.5	3000
BEBE00201208	1.50	2.30	0.22	8	4	3.5	0.95	178	60	12	1.5	3000
BEBE00201210	1.50	2.30	0.22	8	4	3.5	1.15	178	60	12	1.5	3000
BEBE00201212	1.50	2.30	0.22	8	4	3.5	1.35	178	60	12	1.5	3000
BEBE00252010	2.30	2.80	0.25	8	4	3.5	1.15	178	60	12	1.5	3000
BEBE00252012	2.30	2.80	0.25	8	4	3.5	1.35	178	60	12	1.5	3000
BEBE00322508	2.80	3.50	0.25	8	4	3.5	0.95	178	60	12	1.5	3000
BEBE00322510	2.80	3.50	0.25	8	4	3.5	1.35	178	60	12	1.5	2000
BEBE00303010	3.35	3.50	0.25	8	4	3.5	1.15	178	60	12	1.5	2000

BMCx Series

BMCx series is designed for low profile type with low RDC and ultra large current. Its molded magnetic shielded type is suitable for high-density mounting and ultra low buzz noise. Soldering conditions can be easily confirmed when mounting onto the board. This series also provides customers with embossed carrier type packaging for automatic mounting machine.

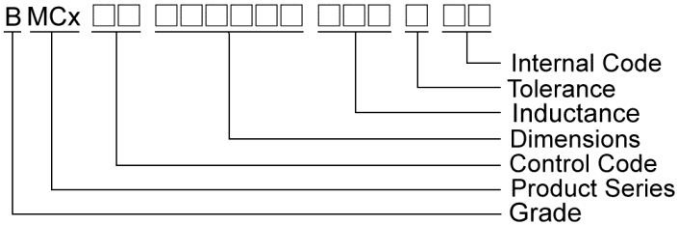
Features

- RoHS, Halogen Free and REACH Compliance
- High rated current
- Ultra low buzz noise

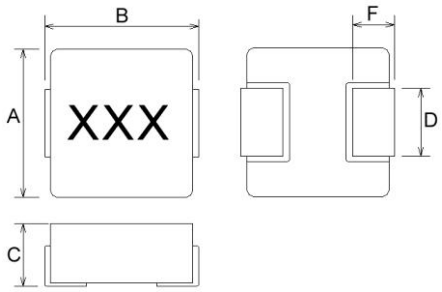
Applications

- Laptops and PCs
- Switchs and servers
- Base stations
- DC/DC converters

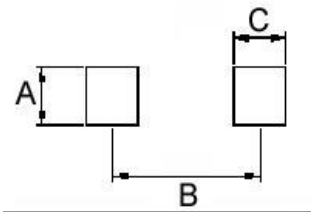
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	F
BMCA00050512	5.2±0.2	5.4±0.35	1.2Max	2.0±0.3	1.0±0.3
BMCA00060630	6.6±0.2	6.95±0.35	2.8±0.2	3.0±0.3	1.6±0.5
BMCA00101040	10.2±0.3	11.6Max	3.8±0.2	2.5±0.5 3.0±0.5	2.5±0.5

Dimensions in mm

TYPE	A	B	C
BMCA00050512	2.5	4.1	1.9
BMCA00060630	3.5	6.05	2.35
BMCA00101040	4.0	9.5	3.5

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking.
BMCA000505124R7MB1	4.7	20	100	165(150)	4.6(5.4)	2(2.3)	4R7

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

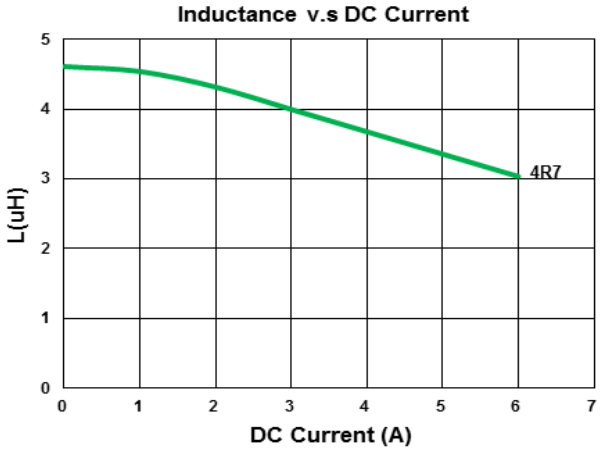
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

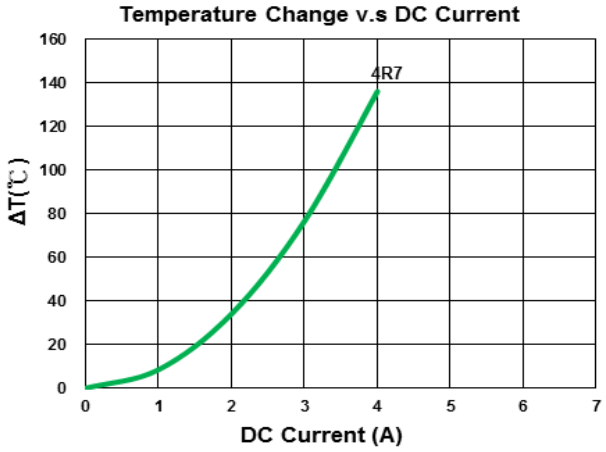
  L：WK 3260B or WK 6500P, 100kHz 0.5V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.	Marking.
BMCA00060630R10MD1	0.10	20	100	1.7	60	32.5	R10
BMCA00060630R22MD1	0.22	20	100	2.8	40	23.0	R22
BMCA00060630R33MD1	0.33	20	100	3.9	30	20.0	R33
BMCA00060630R47MD1	0.47	20	100	4.2	26	17.5	R47
BMCA00060630R68MD1	0.68	20	100	5.5	25	15.5	R68
BMCA00060630R82MD1	0.82	20	100	8.0	24	13.0	R82
BMCA000606301R0MD1	1.0	20	100	10	22	11.0	1R0
BMCA000606301R5MD1	1.5	20	100	15	18	9.0	1R5
BMCA000606302R2MD1	2.2	20	100	20	14	8.0	2R2
BMCA000606303R3MD1	3.3	20	100	30	13.5	6.0	3R3
BMCA000606304R7MD1	4.7	20	100	40	10.0	5.5	4R7
BMCA000606306R8MD1	6.8	20	100	60	8.0	4.5	6R8
BMCA00060630100MD1	10	20	100	102	7.0	3.0	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

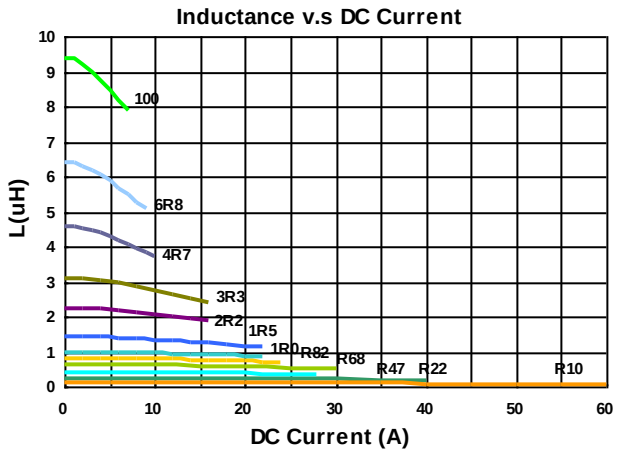
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

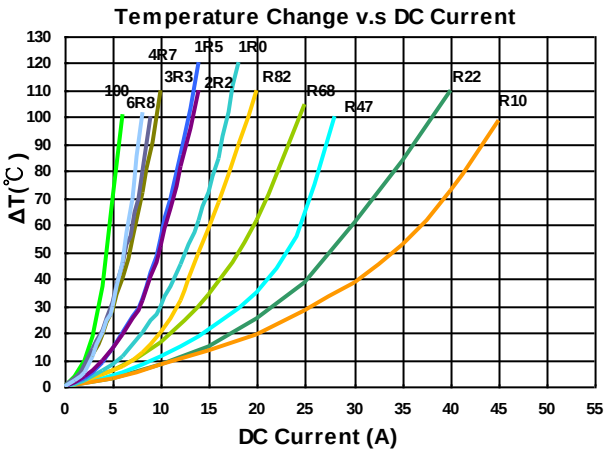
  L：WK 3260B or WK 6500P, 100KHz 0.5V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMCA001010401R0MD1	1.0	20	100	3.2(2.7)	36	18	1R0
BMCA001010401R5MD1	1.5	20	100	4.2(3.8)	33	16	1R5
BMCA001010402R2MA1	2.2	20	100	7(6.4)	27	12	2R2
BMCA001010403R3MA1	3.3	20	100	12(10)	23	10	3R3
BMCA001010404R7MA1	4.7	20	100	16.5(15)	17	9.5	4R7

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

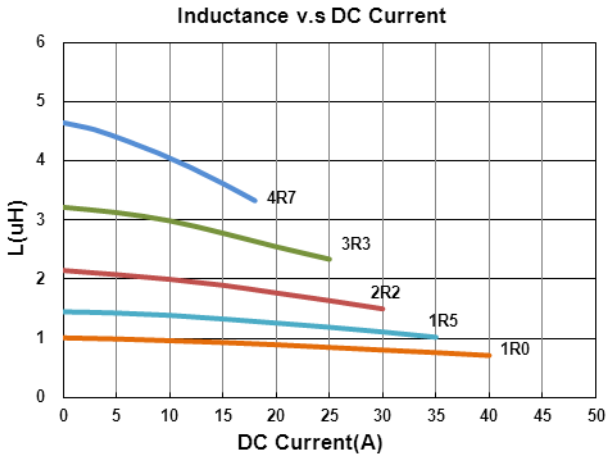
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

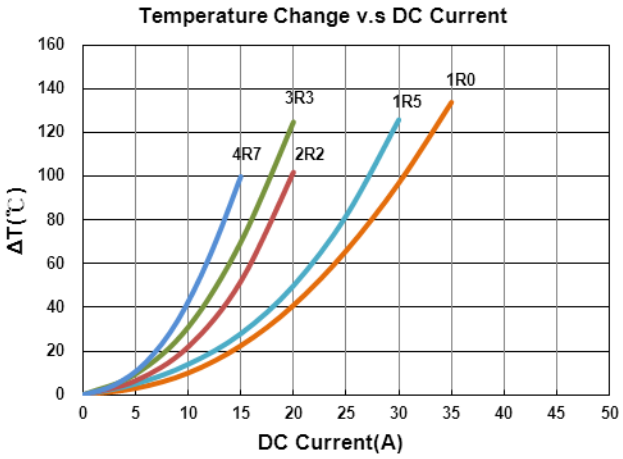
  L：WK 3260B or WK 6500P, 100kHz 0.5V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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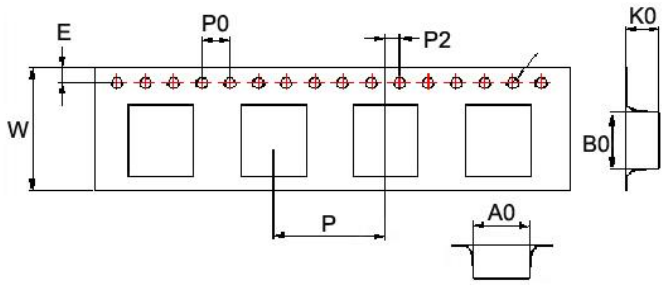
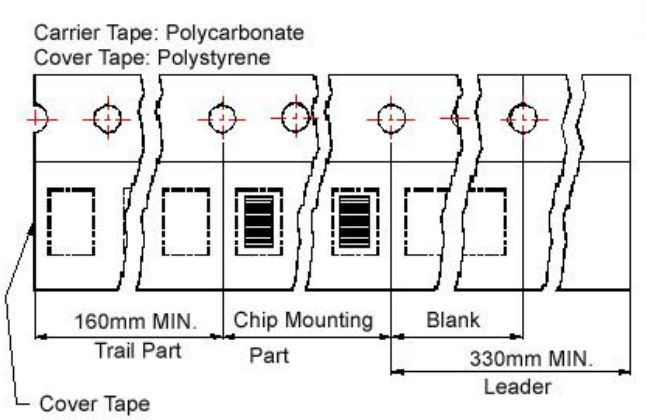
Packaging Specifications

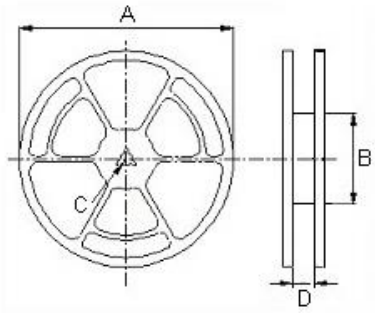
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
BMCA00050512	5.5	6.0	1.5	1.55	1.75	12	8	4	2	330	100	13	13.4	1000
BMCA00060630	6.9	7.6	3.4	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BMCA00101040	10.6	11.7	4.25	1.55	1.75	24	16	4	2	330	100	13	24.4	500

BMMA Series

BMMA Series is designed for low profile type with low RDC and ultra large current. Its molded magnetic shielded type is suitable for high-density mounting and ultra low buzz noise. Soldering conditions can be easily confirmed when mounting onto the board. This series also provides customers with embossed carrier type packaging for automatic mounting machine.

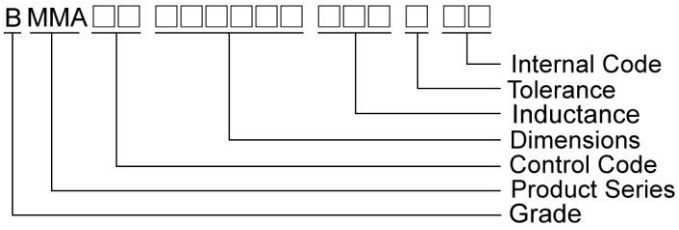
Features

- RoHS, Halogen Free and REACH Compliance
- Low resistance and high current rating
- Magnetic core made by high performance magnetic powder

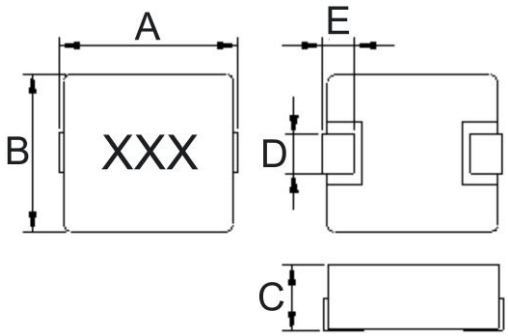
Applications

- Laptop and desktop applications
- High current power supplies
- PMIC
- DC/DC converters

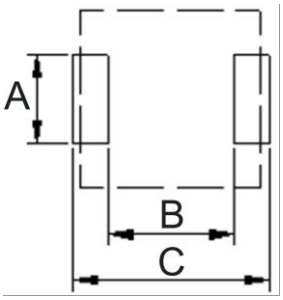
Product Identification



Shape and Dimensions



Recommended Pattern



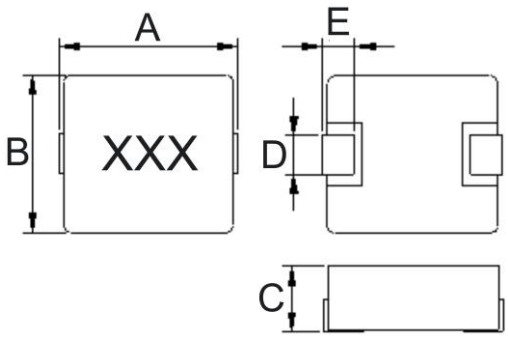
Dimensions in mm

TYPE	A	B	C	D	E
BMMA00040412-X2	4.45±0.25	4.06±0.25	1.2Max	2.0±0.3	0.76±0.3
BMMA00040412-V1	4.45±0.25	4.06±0.25	1.2Max	2.0±0.3	0.76±0.3
BMMA00040420-X2	4.45±0.25	4.06±0.25	2.0Max	2.0±0.3	0.76±0.3
BMMA00040420-V1	4.45±0.25	4.06±0.25	2.0Max	2.0±0.3	0.76±0.3
BMMA00040420-I8	4.45±0.25	4.06±0.25	2.0Max	2.0±0.3	0.76±0.3
BMMA00050512-V1	5.49±0.25	5.18±0.22	1.2Max	2.0±0.3	1.0±0.3
BMMA00050518-X2	5.49±0.25	5.18±0.22	1.8Max	2.0±0.3	1.0±0.3
BMMA00050520-X1	5.49±0.25	5.18±0.25	2.0Max	2.0±0.3	1.02±0.3
BMMA00050520-V1	5.49±0.25	5.18±0.22	2.0Max	2.0±0.3	1.0±0.3

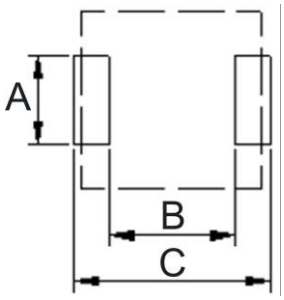
Dimensions in mm

TYPE	A	B	C
BMMA00040412-X2	2.5	2.2	5.2
BMMA00040412-V1	2.3	1.65	4.95
BMMA00040420-X2	2.5	2.2	5.2
BMMA00040420-V1	2.3	1.65	4.95
BMMA00040420-I8	2.3	1.65	4.95
BMMA00050512-V1	2.79	2.16	5.99
BMMA00050518-X2	2.5	2.2	5.99
BMMA00050520-X1	2.79	2.16	5.99
BMMA00050520-V1	2.79	2.16	5.99

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	E
BMMA00050530-Xx	5.3Max	4.7±0.2	3.0Max	2.0±0.2	1.0±0.3
BMMA00050530-V1	5.49±0.25	5.18±0.22	3.0Max	2.0±0.3	1.0±0.3
BMMA00060618-X2	7.4Max	6.6±0.2	1.8Max	3.0±0.3	1.6±0.3
BMMA00060618-V1	6.86±0.38	6.47±0.25	1.8Max	3.18±0.3	1.3±0.3
BMMA00060624-X2	7.5Max	6.6±0.2	2.4Max	3.0±0.5	1.3±0.5
BMMA00060624-V1	6.86±0.38	6.47±0.25	2.4Max	3.18±0.3	1.3±0.3
BMMA00060630-Xx	6.95±0.35	6.6±0.2	3.0Max	3.0±0.3	1.6±0.3
BMMA00060630-V1	6.86±0.38	6.47±0.25	3.0Max	3.18±0.3	1.3±0.3
BMMA00060640	6.95±0.35	6.6±0.2	4.0Max	3.0±0.3	1.6±0.3
BMMA00060650-X1	6.95±0.35	6.6±0.2	5.0Max	3.0±0.3	1.6±0.3
BMMA00060650-X2	7.4Max	6.6±0.2	5.0Max	3.0±0.5	1.6±0.3
BMMA00060650-V1	6.86±0.38	6.47±0.25	5.0Max	3.18±0.3	1.3±0.3
BMMA00080830	8.3±0.3	8.1±0.3	3.0Max	3.0±0.3	1.5±0.3
BMMA00080840	8.3±0.3	8.1±0.3	4.0Max	3.0±0.3	1.5±0.3
BMMA00101015	11.5Max	10±0.3	1.5Max	3.0±0.5	2.0±0.5
BMMA00101030	11.5Max	10±0.3	3.0Max	3.0±0.5	2.0±0.5
BMMA00101040	11.5Max	10±0.3	4.0Max	3.0±0.5	2.0±0.5
BMMA00101040-I8	11.5Max	10±0.3	4.0Max	3.0±0.5	2.2±0.3
BMMA00101045	11.5Max	10±0.3	4.5Max	3.0±0.5	2.0±0.5
BMMA00101050	11.5Max	10±0.3	5.0Max	3.0±0.5	2.0±0.5
BMMA00131335	13.2±0.5	12.9Max	3.5Max	3.5±0.5	2.3±0.3
BMMA00131350-X1	13.2±0.5	12.9Max	5.0Max	3.5±0.5	2.3±0.3
BMMA00131350-X2	13.2±0.5	12.6±0.2	5.0Max	3.5±0.5	2.3±0.3
BMMA00131350-V1	13.2±0.5	12.9Max	5.0Max	3.5±0.5	2.3±0.3
BMMA00131364	13.2±0.5	12.9Max	6.4Max	3.5±0.5	2.3±0.3
BMMA00171770	17.6±0.5	17.2Max	7.0Max	11.8±0.3	2.5±0.5

Dimensions in mm

TYPE	A	B	C
BMMA00050530-Xx	2.5	3.0	7.0
BMMA00050530-V1	2.79	2.16	5.99
BMMA00060618-X2	3.5	3.7	8.4
BMMA00060618-V1	3.43	3.71	7.37
BMMA00060624-X2	3.5	3.7	8.4
BMMA00060624-V1	3.43	3.71	7.37
BMMA00060630-Xx	3.5	3.7	8.4
BMMA00060630-V1	3.43	3.71	7.37
BMMA00060640	3.5	3.7	8.4
BMMA00060650-Xx	3.5	3.7	8.4
BMMA00060650-V1	3.43	3.71	7.37
BMMA00080830	3.5	4.2	9
BMMA00080840	3.5	4.2	9
BMMA00101015	4.1	5.4	13.6
BMMA00101030	4.1	5.4	13.6
BMMA00101040-Xx	4.1	5.4	13.6
BMMA00101040-V1	4	6	13
BMMA00101040-I8	4.1	5.4	13.6
BMMA00101045	4.1	5.4	13.6
BMMA00101050	4.1	5.4	13.6
BMMA00131335-X1	5	8	14.5
BMMA00131335-V1	4.95	7.87	13.76
BMMA00131350	5	8	14.5
BMMA00131350_V1	4.95	7.87	13.76
BMMA00131364	4.95	7.87	13.76
BMMA00171770	12.8	11.2	18.2

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00040412R47MX2	0.47	20	100	21(19)	6.8	6	R47

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

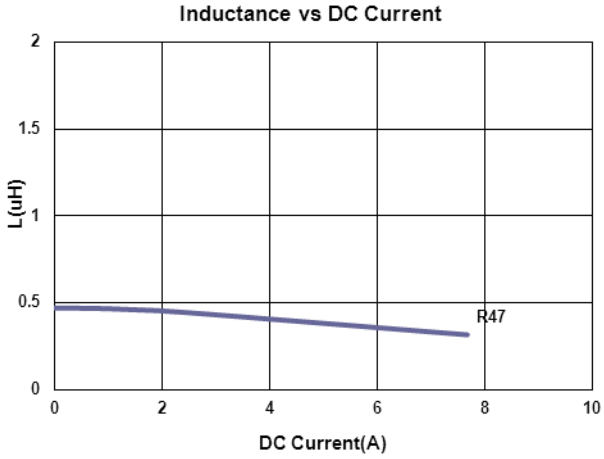
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

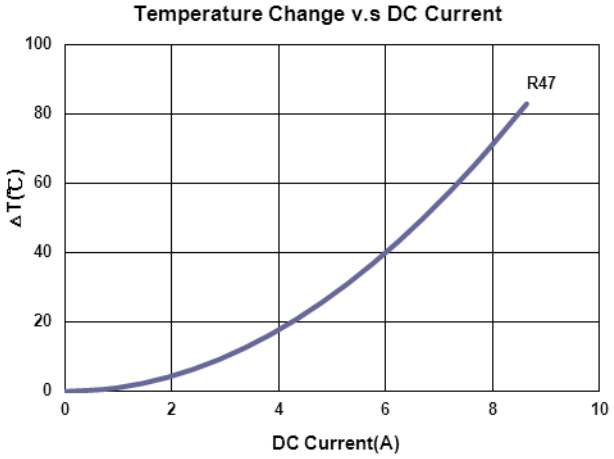
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA0004041247NMV1	0.047	20	100	3.75(3.25)	32	13	47N
BMMA00040412R10MV1	0.10	20	100	6(5.5)	25	11.5	R10
BMMA00040412R22MV1	0.22	20	100	12(11)	20	8.5	R22
BMMA00040412R47MV1	0.47	20	100	22(20)	13	5	R47
BMMA00040412R68MV1	0.68	20	100	31.4(29.3)	9.3	4.9	R68
BMMA000404121R0MV1	1.0	20	100	52.5(50)	8.5	4	1R0

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

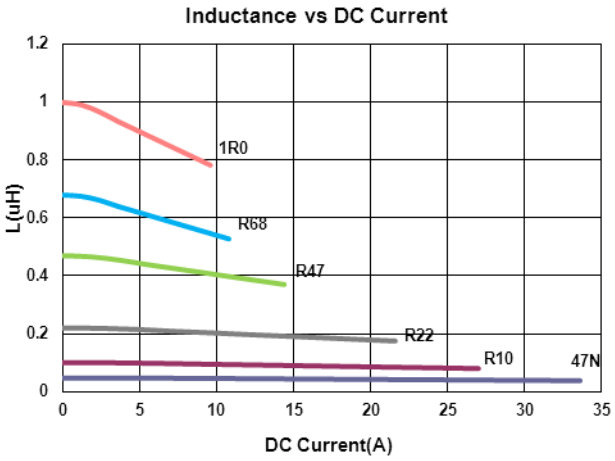
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

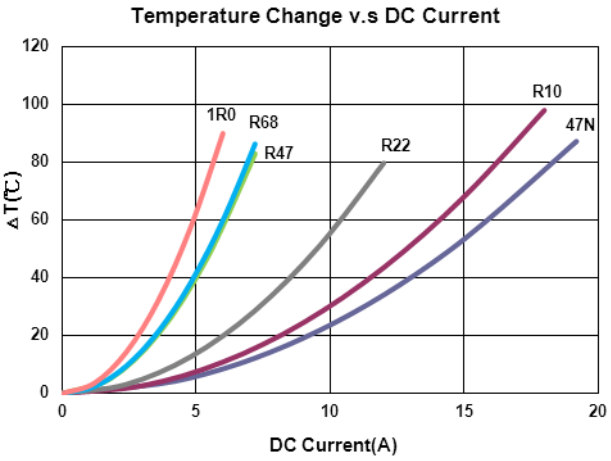
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00040420R10MX2	0.10	20	100	4(3.5)	22	12	R10
BMMA00040420R22MX2	0.22	20	100	6.6(6)	12.5	9	R22
BMMA00040420R47MX2	0.47	20	100	14(12.5)	9.5	7	R47
BMMA00040420R56MX2	0.56	20	100	16(14)	10	6.5	R56
BMMA00040420R68MX2	0.68	20	100	18(16)	9	6	R68
BMMA000404201R0MX2	1.0	20	100	27(24)	7	4.5	1R0
BMMA000404201R5MX2	1.5	20	100	43(35)	6	4	1R5
BMMA000404202R2MX2	2.2	20	100	58(52)	5	3	2R2
BMMA000404203R3MX2	3.3	20	100	87(74)	4	2.5	3R3
BMMA000404204R7MX2	4.7	20	100	105(92)	3	2.2	4R7

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

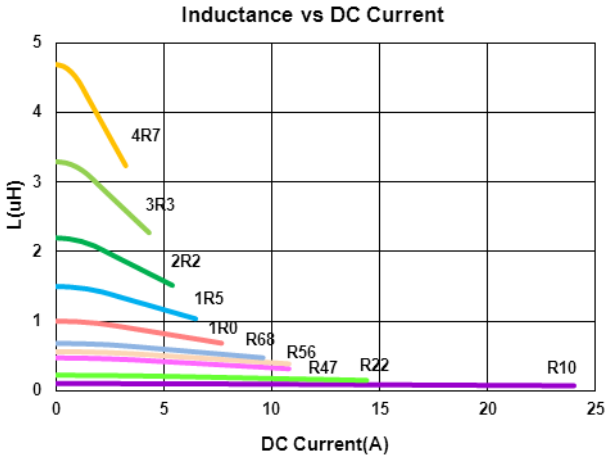
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

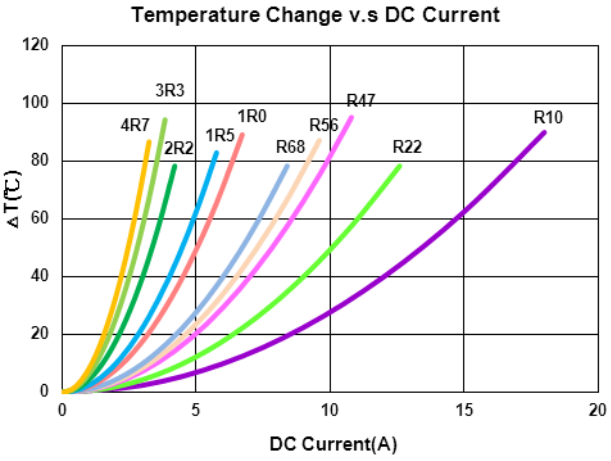
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00040420R10MV1	0.10	20	100	5(4.5)	35	16	R10
BMMA00040420R22MV1	0.22	20	100	8(7.3)	24	13	R22
BMMA00040420R47MV1	0.47	20	100	18(16)	11.5	5.6	R47
BMMA000404201R0MV1	1.0	20	100	37(33)	8.5	3.75	1R0
BMMA000404202R2MV1	2.2	20	100	90(80)	6	2.85	2R2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

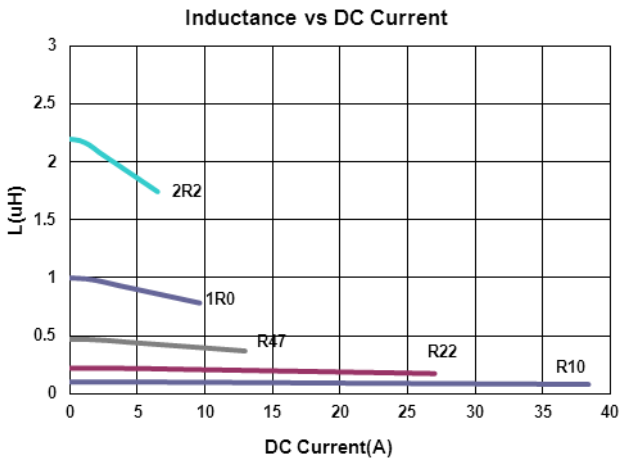
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

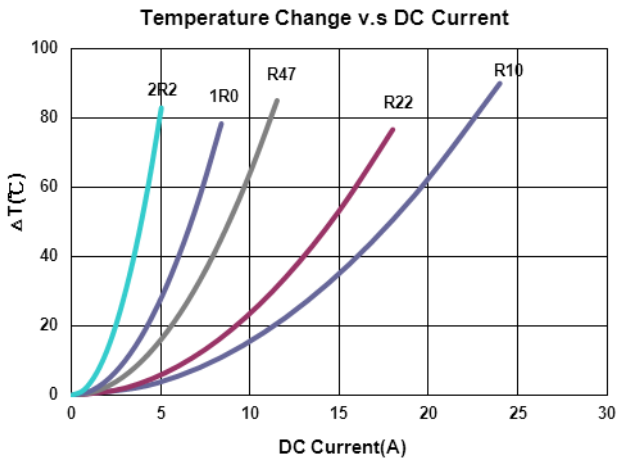
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±10%	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00040420R47MI8	0.47	20	100	12.7	12	8	R47

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

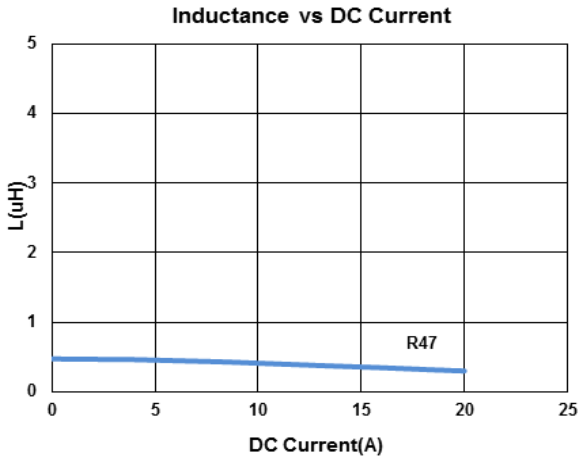
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 25% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

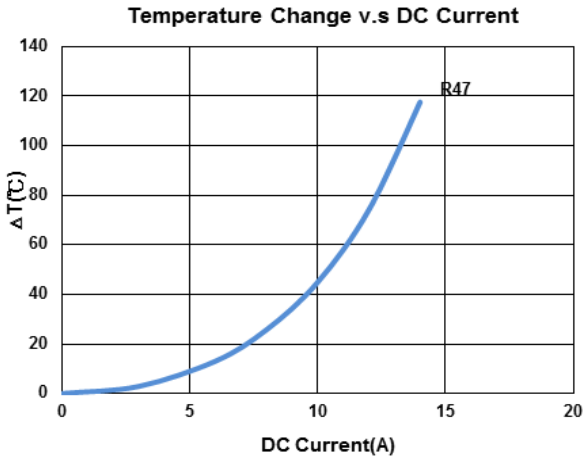
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA000505121R0MV1	1.0	20	100	46.5(44.3)	10.2	4.4	1R0
BMMA000505122R2MV1	2.2	20	100	77.3(73.6)	6	3.4	2R2
BMMA000505123R3MV1	3.3	20	100	103(98.4)	5	2.8	3R3

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

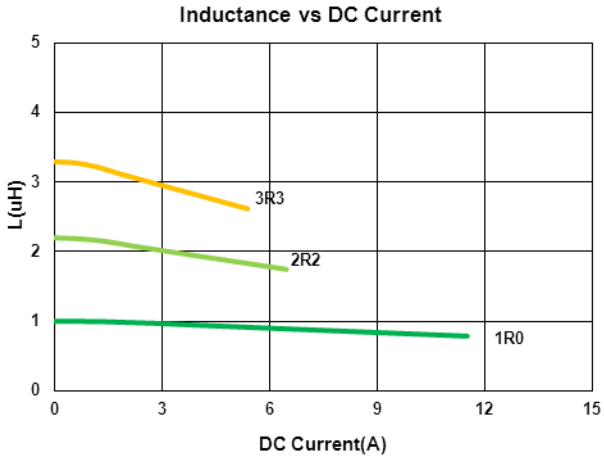
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

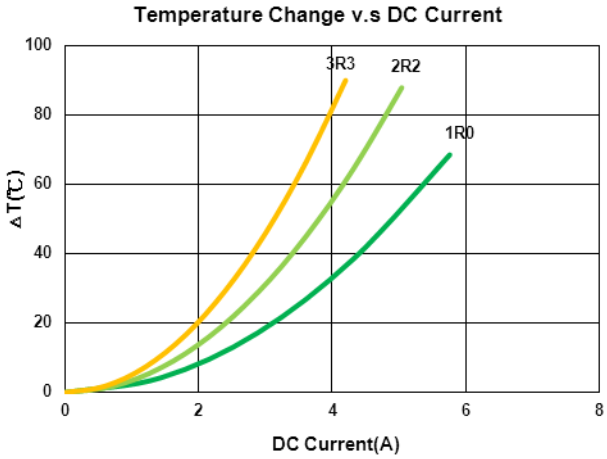
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA000505181R0MX2	1.0	20	100	17(15)	9	8	1R0
BMMA000505184R7MX2	4.7	20	100	85(78)	4	3.5	4R7
BMMA000505186R8MX2	6.8	20	100	120(107)	3.4	2.8	6R8
BMMA00050518100MX2	10	20	100	155(140)	3	2.5	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

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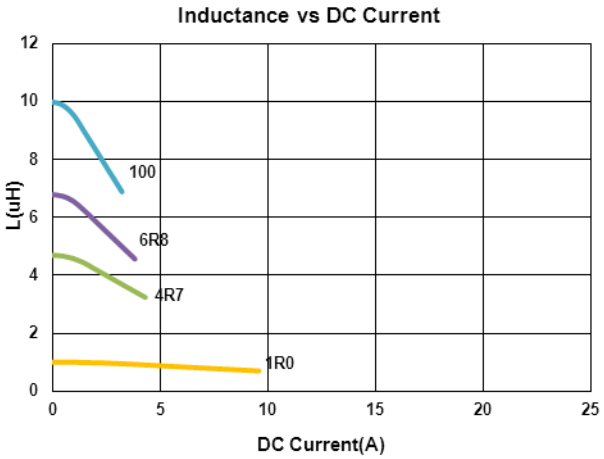
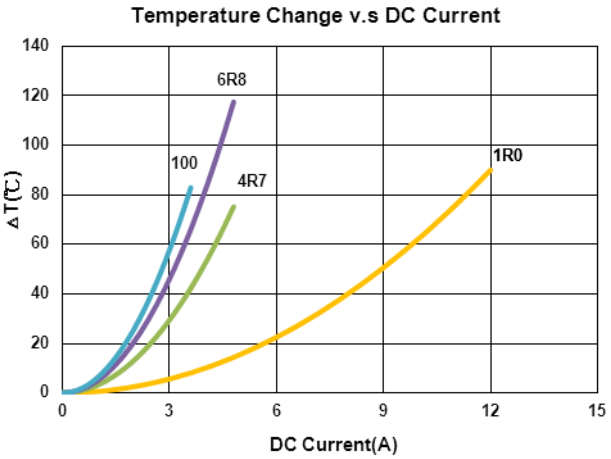
  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA000505201R0MX1	1.0	20	100	20(18.9)	16	7	1R0

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range - 55℃~125℃(Including self - temperature rise)
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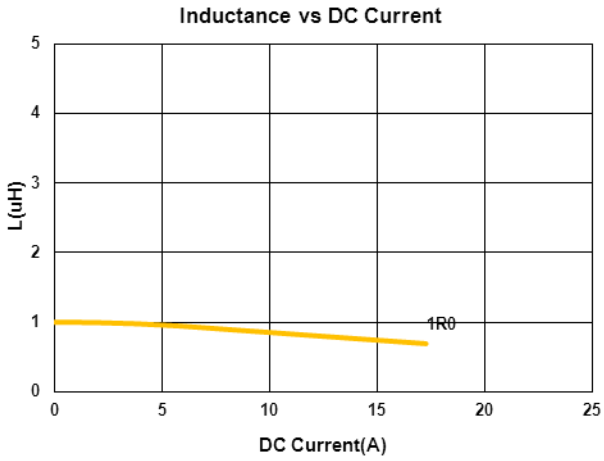
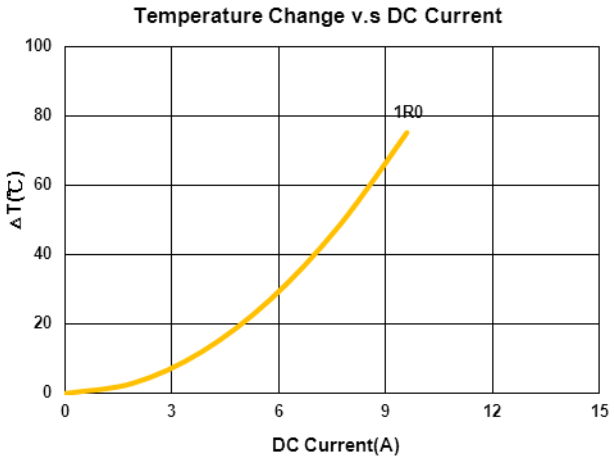
  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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BMMA00050520R10MV1	0.10	20	100	3.9(3.6)	45	17	R10
BMMA00050520R33MV1	0.33	20	100	8.2(7.6)	25	12	R33
BMMA00050520R47MV1	0.47	20	100	8.8(8.1)	21	11.5	R47
BMMA000505201R0MV1	1.0	20	100	20(18.9)	16	7	1R0
BMMA000505202R2MV1	2.2	20	100	50.1(45.6)	12.5	4.2	2R2
BMMA000505203R3MV1	3.3	20	100	85.5(79.2)	8.5	3.3	3R3
BMMA000505204R7MV1	4.7	20	100	116.6(108)	5	2.8	4R7
BMMA000505205R6MV1	5.6	20	100	122(113)	4.5	2.5	5R6
BMMA000505206R8MV1	6.8	20	100	150(139)	4.3	2.4	6R8
BMMA00050520100MV1	10	20	100	199(184)	4	2.3	100

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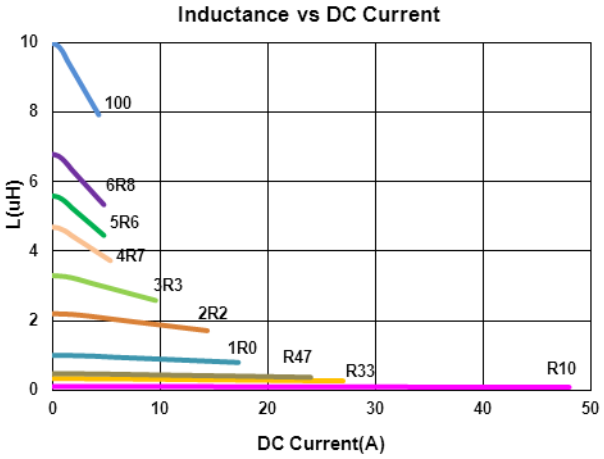

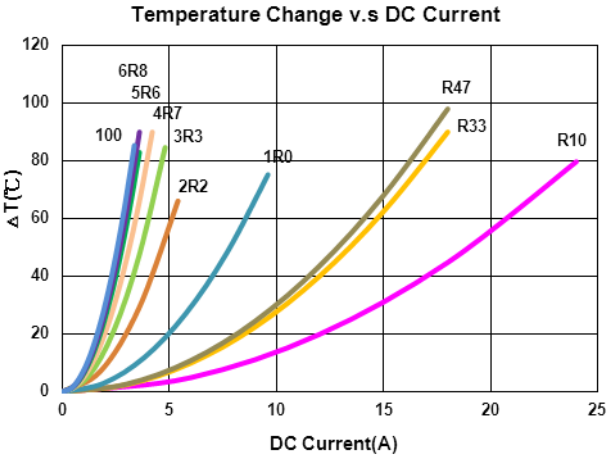

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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00050530R68MX1	0.68	20	100	12(11)	14	8.5	R68
BMMA000505301R0MX1	1.0	20	100	14(13)	11	7	1R0
BMMA000505301R2MX1	1.2	20	100	16(15)	10.5	6.5	1R2
BMMA000505301R5MX1	1.5	20	100	25(20)	10	6	1R5
BMMA000505302R2MX1	2.2	20	100	35(29)	9	5.5	2R2
BMMA000505303R3MX1	3.3	20	100	38(32)	7	5	3R3

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- Withstand voltage: 25V DC
- Measure Equipment：

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  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

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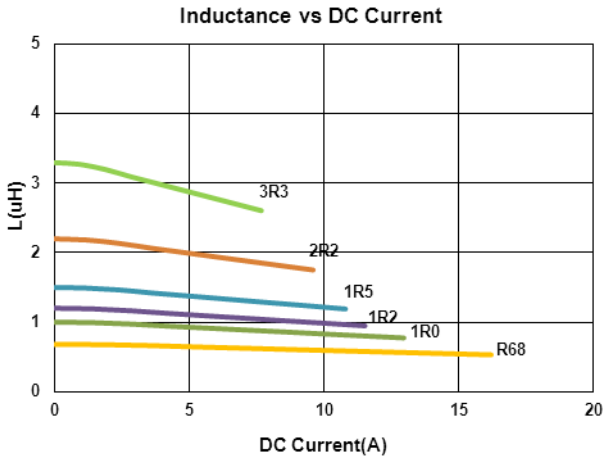

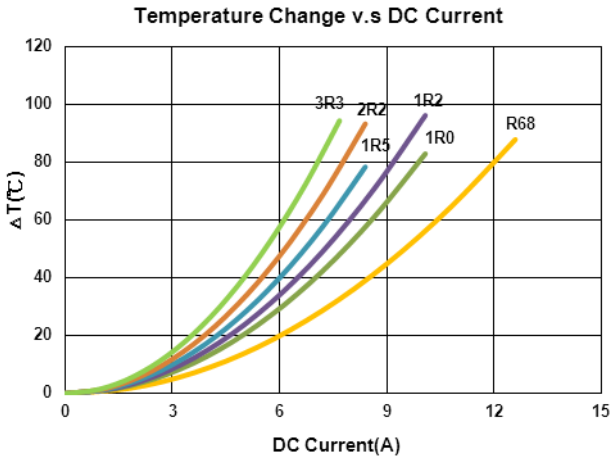

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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00050530R22MX2	0.22	20	100	3.9(3.5)	14.5	21	R22
BMMA00050530R35MX2	0.35	20	100	5(4.5)	9	16.5	R35
BMMA00050530R47MX2	0.47	20	100	8.5(7.4)	12	13	R47
BMMA00050530R68MX2	0.68	20	100	12(11)	14	8.5	R68
BMMA000505301R0MX2	1.0	20	100	14(13)	11	7	1R0
BMMA000505301R2MX2	1.2	20	100	16(15)	11	6.5	1R2
BMMA000505301R5MX2	1.5	20	100	25(20)	10	6	1R5
BMMA000505302R2MX2	2.2	20	100	35(29)	9	5.5	2R2
BMMA000505303R3MX2	3.3	20	100	38(34)	7	5	3R3

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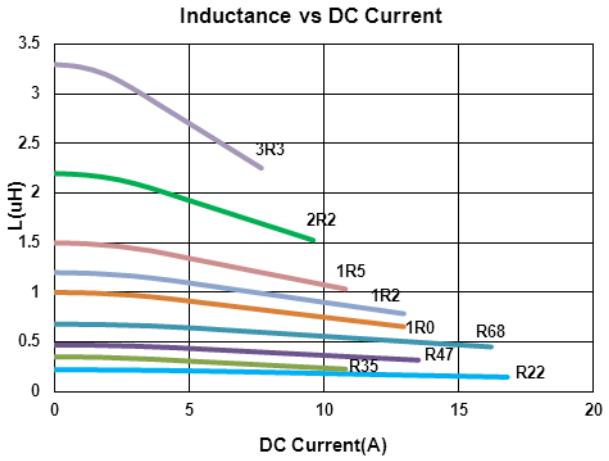

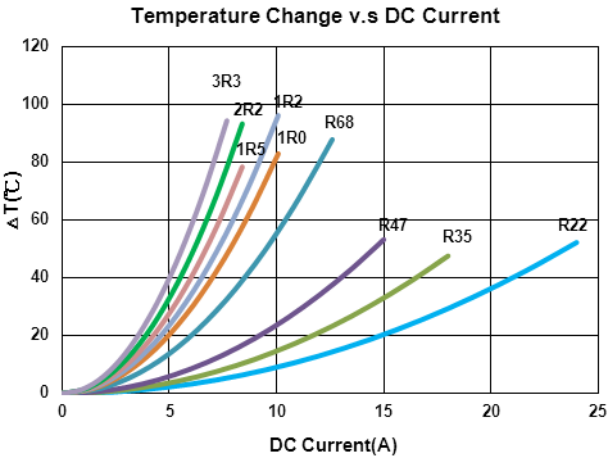

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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00050530R10MV1	0.10	20	100	3.16(3)	27	23	R10
BMMA00050530R22MV1	0.22	20	100	4.52(4.3)	21	15.5	R22
BMMA00050530R33MV1	0.33	20	100	5.56(5.3)	19	13.7	R33
BMMA00050530R47MV1	0.47	20	100	7.04(6.7)	16	12.2	R47
BMMA00050530R68MV1	0.68	20	100	8.96(8.53)	13.5	10.2	R68
BMMA00050530R82MV1	0.82	20	100	11.9(11.3)	13	9.3	R82
BMMA000505301R0MV1	1.0	20	100	13.7(13.1)	12	9.2	1R0
BMMA000505301R5MV1	1.5	20	100	20.7(19.7)	11	7.2	1R5
BMMA000505302R2MV1	2.2	20	100	29.2(27.8)	10	5.8	2R2
BMMA000505303R3MV1	3.3	20	100	54.7(52.1)	8.5	5	3R3
BMMA000505304R7MV1	4.7	20	100	77.5(73.8)	8.2	3.5	4R7
BMMA000505305R6MV1	5.6	20	100	108(103)	4.1	3	5R6
BMMA00050530100MV1	10	20	100	158(152)	4	2.5	100
BMMA00050530150MV1	15	20	100	265(252)	2.5	1.9	150

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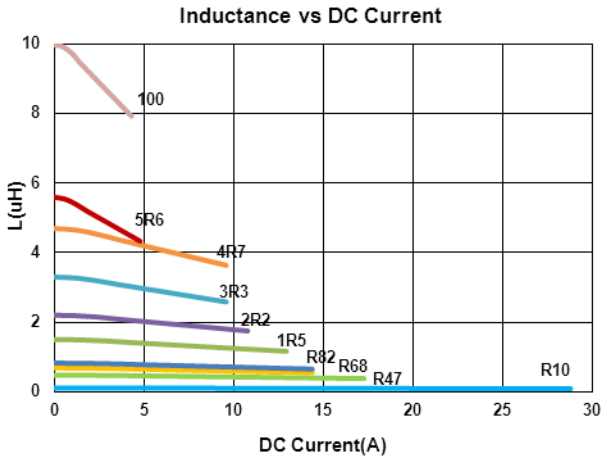
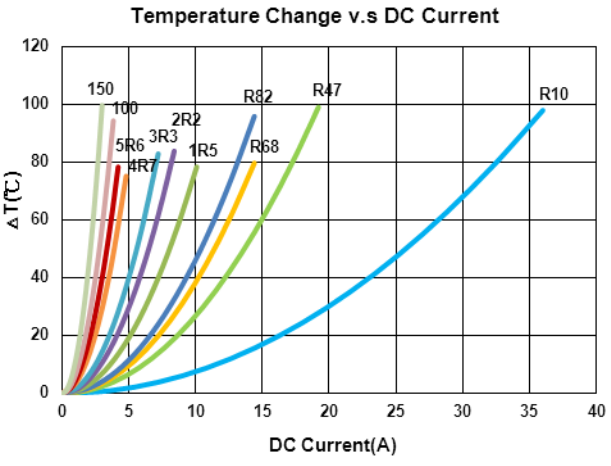
  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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BMMA00060618R10MX2	0.10	20	100	2.5(2)	45	18	R10
BMMA00060618R22MX2	0.22	20	100	5.2(4.5)	29	14	R22
BMMA00060618R33MX2	0.33	20	100	6.8(5.2)	22	12	R33
BMMA00060618R47MX2	0.47	20	100	8.4(7.3)	18	11	R47
BMMA00060618R68MX2	0.68	20	100	12.7(10.8)	17	9	R68
BMMA000606181R0MX2	1.0	20	100	17(14.5)	14	7	1R0
BMMA000606181R5MX2	1.5	20	100	26(20)	12	6.5	1R5
BMMA000606182R0MX2	2.0	20	100	32(28)	11	6	2R0
BMMA000606182R2MX2	2.2	20	100	35(31)	13	6	2R2
BMMA000606183R3MX2	3.3	20	100	60(56)	10	3.5	3R3
BMMA000606186R8MX2	6.8	20	100	110(101)	3.5	2.8	6R8

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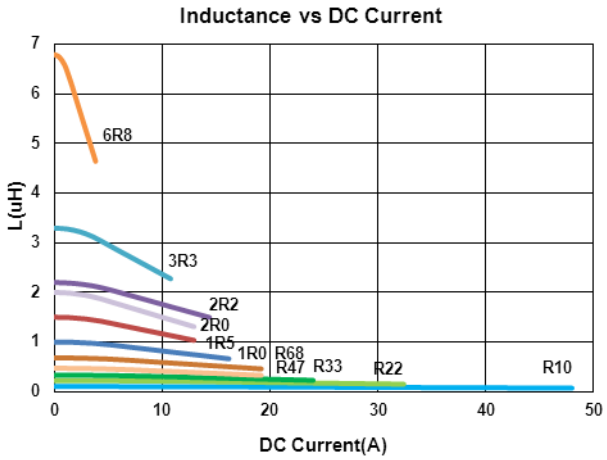

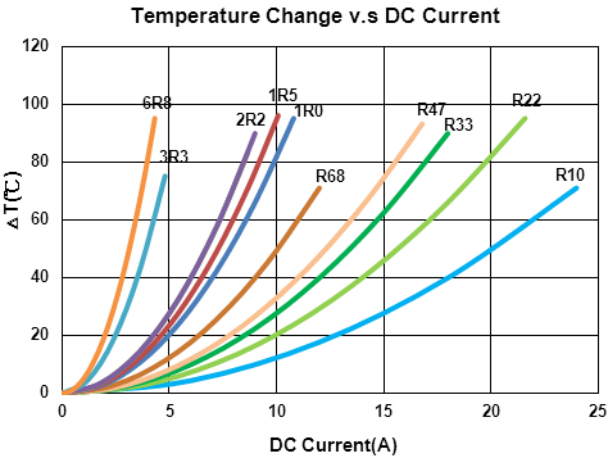

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BMMA00060618R10MV1	0.10	20	100	3.5(3)	40	18	R10
BMMA00060618R15MV1	0.15	20	100	5.2(4.7)	38	15	R15
BMMA00060618R22MV1	0.22	20	100	5.7(5.3)	26	14	R22
BMMA00060618R33MV1	0.33	20	100	7(6.6)	18	12	R33
BMMA00060618R47MV1	0.47	20	100	9.3(8.4)	18	11	R47
BMMA00060618R68MV1	0.68	20	100	13.9(12.7)	17	9	R68
BMMA00060618R82MV1	0.82	20	100	15.9(13.8)	17	8	R82
BMMA000606181R0MV1	1.0	20	100	18.3(17.5)	14	7	1R0
BMMA000606181R5MV1	1.5	20	100	34(32.6)	11.5	4	1R5
BMMA000606182R2MV1	2.2	20	100	46(40.3)	13	3.75	2R2
BMMA000606182R5MV1	2.5	20	100	52.4(49.9)	10.4	3.5	2R5
BMMA000606183R3MV1	3.3	20	100	60.1(56.2)	10	3.25	3R3
BMMA000606184R7MV1	4.7	20	100	78(76.6)	8	3	4R7

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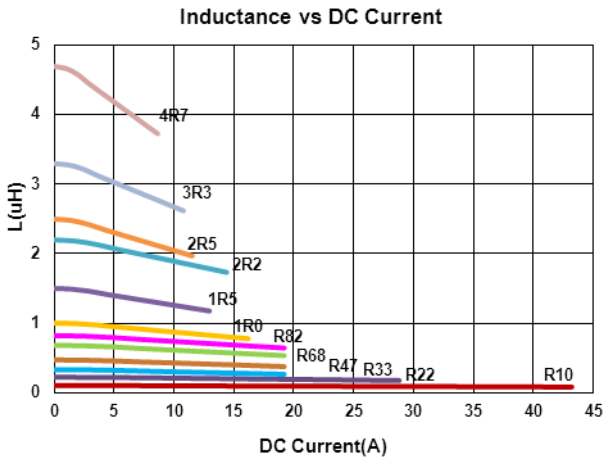

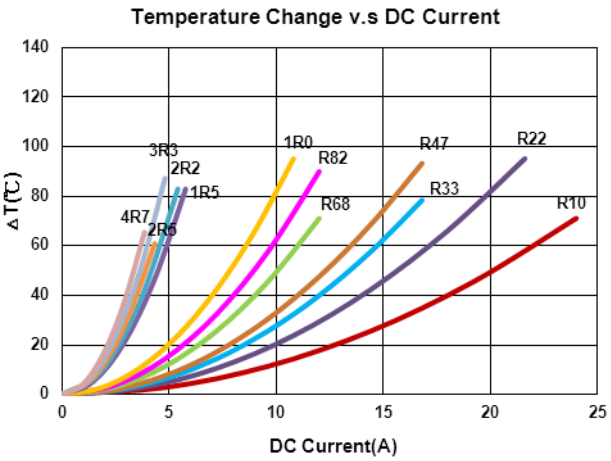

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BMMA00060624R10MX2	0.10	20	100	1.7(1.5)	70	30	R10
BMMA00060624R20MX2	0.20	20	100	2.8(2.2)	50	25	R20
BMMA00060624R33MX2	0.33	20	100	4.1(3.5)	24.5	18	R33
BMMA00060624R47MX2	0.47	20	100	5.1(4.5)	22	15	R47
BMMA000606241R0MX2	1.0	20	100	13.5(11.2)	16	9	1R0
BMMA000606241R5MX2	1.5	20	100	20(17)	15	9	1R5
BMMA000606242R2MX2	2.2	20	100	28(23)	14	7	2R2
BMMA000606243R3MX2	3.3	20	100	39(31)	13	5.5	3R3
BMMA000606244R7MX2	4.7	20	100	50(41)	10	5	4R7
BMMA000606246R8MX2	6.8	20	100	70(57)	6	4	6R8

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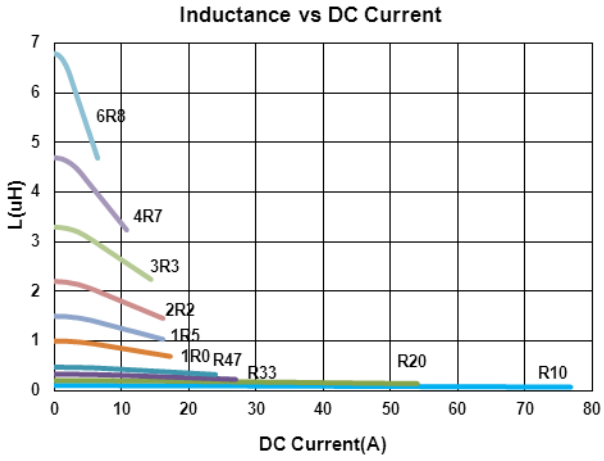
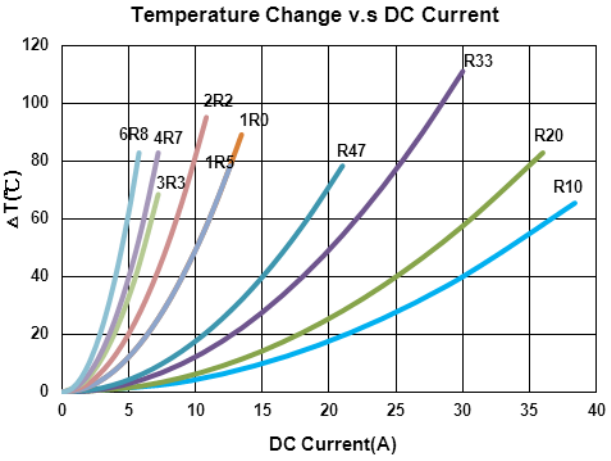
  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00060624R10MV1	0.10	20	100	1.7(1.5)	50	30	R10
BMMA00060624R22MV1	0.22	20	100	3.2(2.9)	34	21	R22
BMMA00060624R33MV1	0.33	20	100	4.1(3.7)	22	18	R33
BMMA00060624R47MV1	0.47	20	100	6.5(6)	21	13.5	R47
BMMA00060624R68MV1	0.68	20	100	9.4(8.7)	18	11	R68
BMMA00060624R82MV1	0.82	20	100	11.8(10.6)	17	10	R82
BMMA000606241R0MV1	1.0	20	100	14.2(13.1)	16	9	1R0
BMMA000606241R5MV1	1.5	20	100	21.2(18.5)	15	7.5	1R5
BMMA000606242R2MV1	2.2	20	100	34(28)	14	6.5	2R2
BMMA000606243R3MV1	3.3	20	100	51.6(36.5)	13	5	3R3
BMMA000606244R7MV1	4.7	20	100	63(45.2)	10	4.5	4R7
BMMA000606246R8MV1	6.8	20	100	95(72.5)	9	3.5	6R8
BMMA000606248R2MV1	8.2	20	100	106(84.2)	8	3	8R2
BMMA00060624100MV1	10	20	100	105(102)	7	3	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

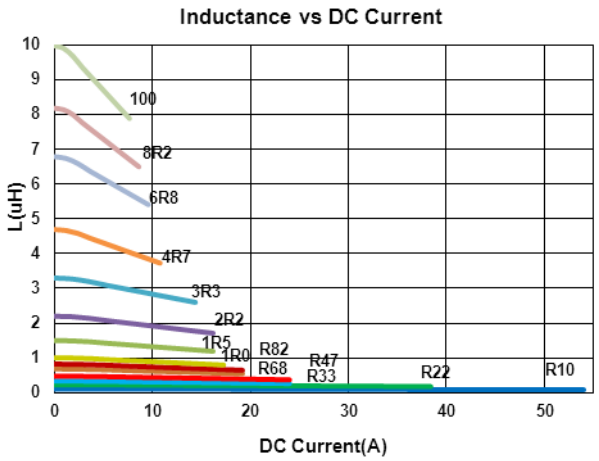
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

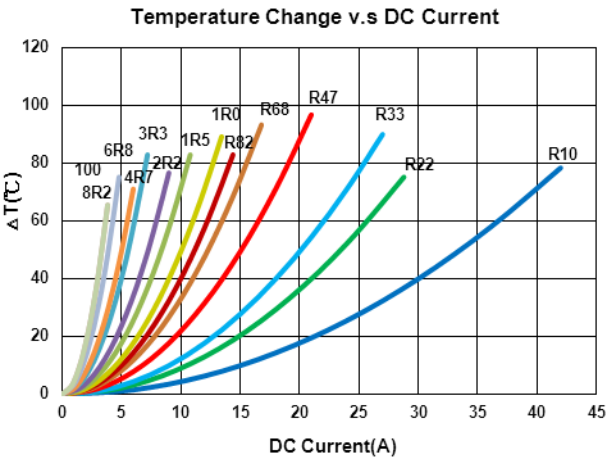
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00060630R10MX1	0.10	20	100	1.7(1.5)	60	32.5	R10
BMMA00060630R22MX1	0.22	20	100	2.8(2.5)	40	23	R22
BMMA00060630R33MX1	0.33	20	100	3.9(3.5)	30	20	R33
BMMA00060630R47MX1	0.47	20	100	4.2(4)	26	17.5	R47
BMMA00060630R56MX1	0.56	20	100	5(4.7)	25.5	16.5	R56
BMMA00060630R68MX1	0.68	20	100	5.5(5)	25	15.5	R68
BMMA000606301R0MX1	1.0	20	100	10(9)	22	11	1R0
BMMA000606301R2MX1	1.2	20	100	12(10)	20	10	1R2
BMMA000606301R5MX1	1.5	20	100	15(14)	18	9	1R5
BMMA000606302R2MX1	2.2	20	100	20(18)	14	8	2R2
BMMA000606303R3MX1	3.3	20	100	30(28)	13.5	6	3R3
BMMA000606304R7MX1	4.7	20	100	40(37)	10	5.5	4R7
BMMA000606306R8MX1	6.8	20	100	60(54)	8	4.5	6R8

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

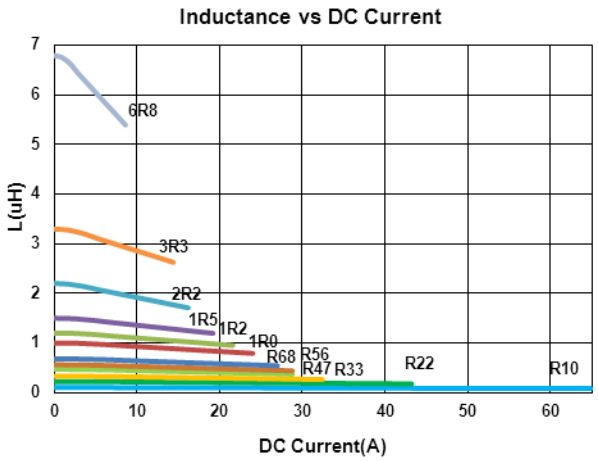
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC.
- Measure Equipment：

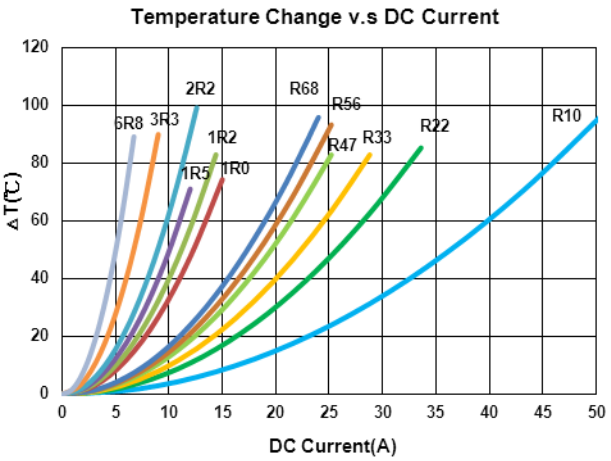
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00060630R10MX2	0.10	20	100	1.7(1.5)	60	32.5	R10
BMMA00060630R15MX2	0.15	20	100	2.5(1.9)	45	30	R15
BMMA00060630R20MX2	0.20	20	100	3(2.4)	41	24	R20
BMMA00060630R22MX2	0.22	20	100	2.8(2.5)	40	23	R22
BMMA00060630R33MX2	0.33	20	100	3.5(3)	25	21	R33
BMMA00060630R36MX2	0.36	20	100	3.9(3.3)	26	20	R36
BMMA00060630R47MX2	0.47	20	100	4.1(3.5)	20	18	R47
BMMA00060630R56MX2	0.56	20	100	4.5(3.9)	18	16.5	R56
BMMA00060630R68MX2	0.68	20	100	5(4.5)	17	16	R68
BMMA00060630R82MX2	0.82	20	100	7.5(7)	16	14	R82
BMMA000606301R5MX2	1.5	20	100	12.1(10.6)	14	10	1R5
BMMA000606303R3MX2	3.3	20	100	28(25)	10	6.5	3R3
BMMA000606304R7MX2	4.7	20	100	35(32.5)	6.5	5.5	4R7
BMMA000606305R6MX2	5.6	20	100	42(39)	6	5.5	5R6
BMMA000606306R8MX2	6.8	20	100	60(54)	8	4.5	6R8
BMMA000606308R2MX2	8.2	20	100	60(54)	6	4.5	8R2
BMMA00060630100MX2	10	200	100	68(62)	5.5	4	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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- Measure Equipment：

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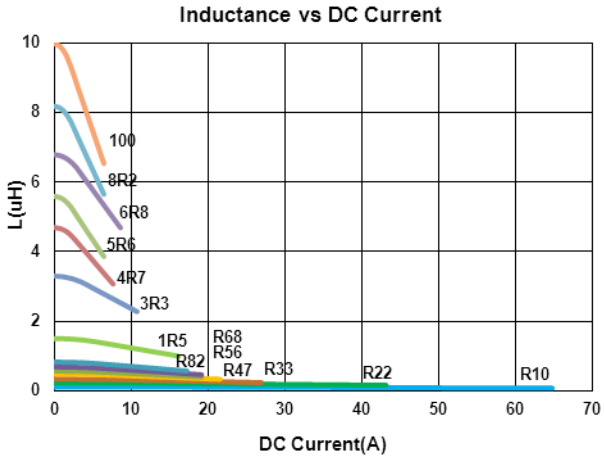
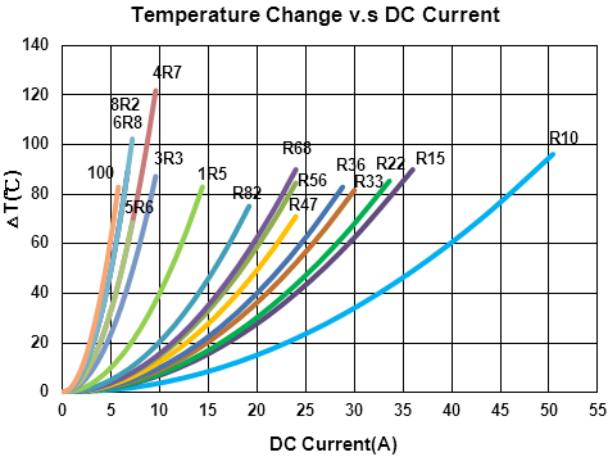
  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00060630R10MV1	0.10	20	100	1.7(1.5)	60	32.5	R10
BMMA00060630R15MV1	0.15	20	100	2.5(1.9)	52	26	R15
BMMA00060630R20MV1	0.20	20	100	3(2.4)	41	24	R20
BMMA00060630R22MV1	0.22	20	100	2.8(2.5)	40	23	R22
BMMA00060630R33MV1	0.33	20	100	3.9(3.5)	30	20	R33
BMMA00060630R47MV1	0.47	20	100	4.2(4)	26	17.5	R47
BMMA00060630R68MV1	0.68	20	100	5.5(5)	25	15.5	R68
BMMA00060630R82MV1	0.82	20	100	8(6.7)	24	13	R82
BMMA000606301R0MV1	1.0	20	100	10(9)	22	11	1R0
BMMA000606301R5MV1	1.5	20	100	15(14)	18	9	1R5
BMMA000606302R2MV1	2.2	20	100	20(18)	14	8	2R2
BMMA000606303R3MV1	3.3	20	100	30(28)	13.5	6	3R3
BMMA000606304R7MV1	4.7	20	100	40(37)	10	5.5	4R7
BMMA000606306R8MV1	6.8	20	100	60(54)	8	4.5	6R8
BMMA000606308R2MV1	8.2	20	100	68(64)	7.5	4	8R2
BMMA00060630100MV1	10	20	100	105(102)	7	3	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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- Isat for Inductance drop 20% from its value without current
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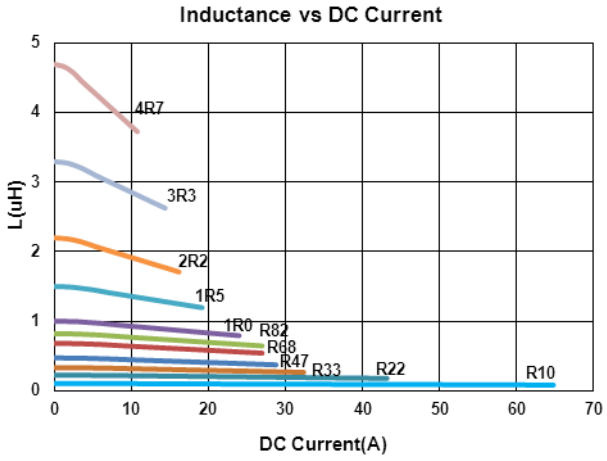
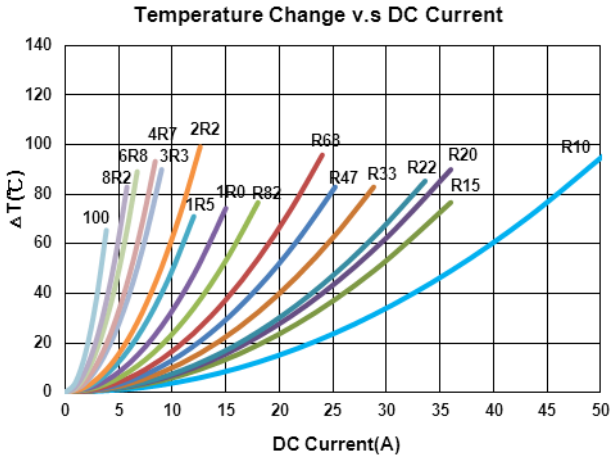
  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms(A) (A)Typ.	Marking
BMMA00060640R36MX1	0.36	20	100	2.3(1.8)	32	23	R36

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

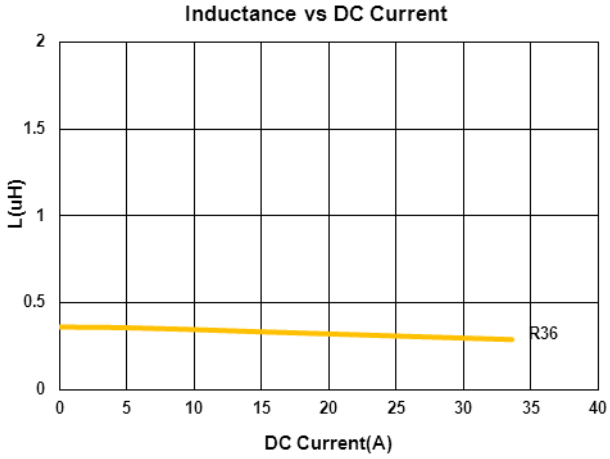
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

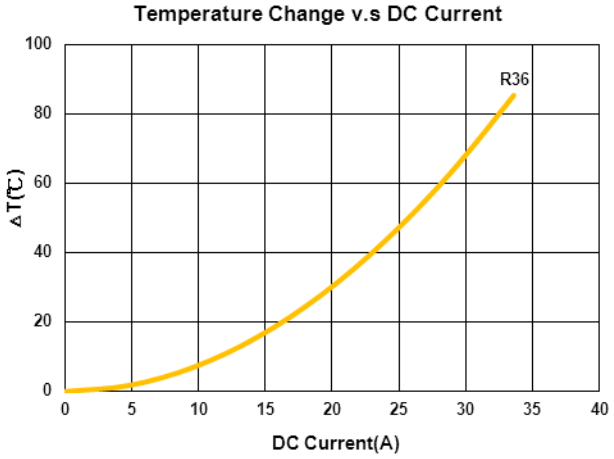
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms(A) (A)Typ.	Marking
BMMA000606403R3MX2	3.3	20	100	23(21)	13	7	3R3

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

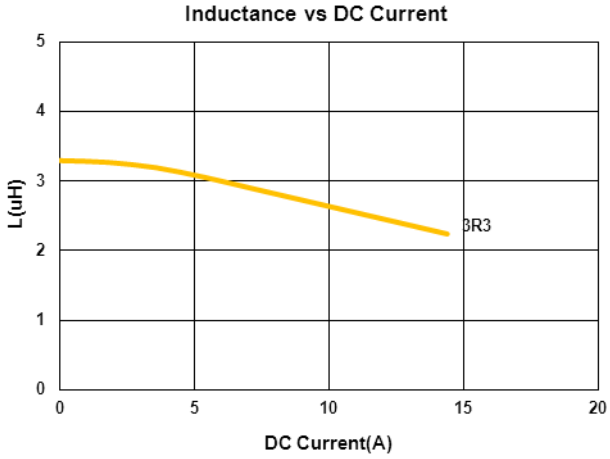
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

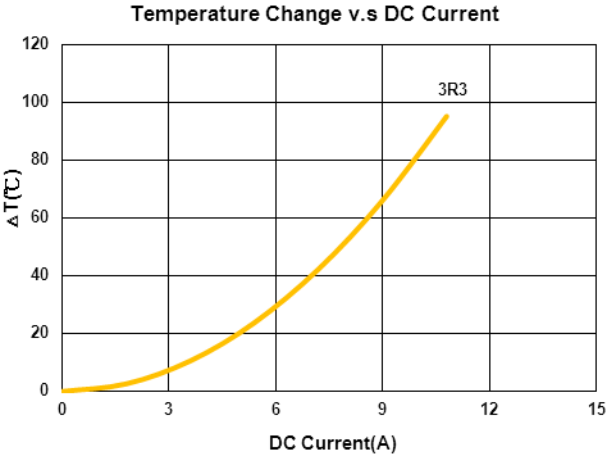
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms(A) (A)Typ.	Marking
BMMA00060650R22MX1	0.22	20	100	1.4(1.2)	50	30	R22
BMMA00060650R47MX1	0.47	20	100	3.9(3.5)	30	20	R47

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
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  Irms：CHROMA 1810

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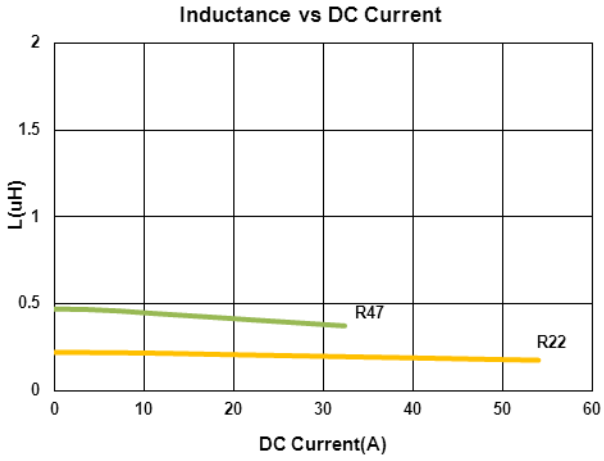

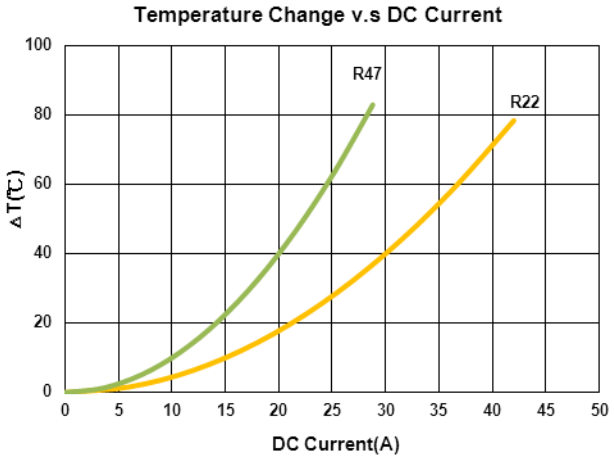

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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00060650R36MX2	0.36	20	100	3.1(2.7)	25	21	R36
BMMA00060650R68MX2	0.68	20	100	4.2(3.9)	16	18	R68
BMMA000606501R0MX2	1.0	20	100	6.5(5.6)	15	13	1R0
BMMA000606501R5MX2	1.5	20	100	7.5(6.7)	12	11	1R5
BMMA000606502R2MX2	2.2	20	100	12.5(11.2)	12	8	2R2

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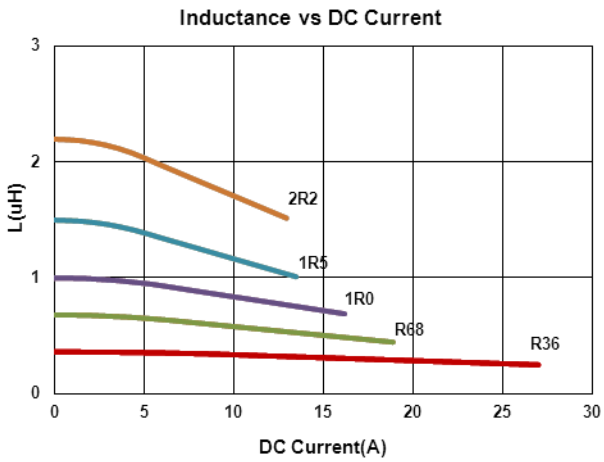

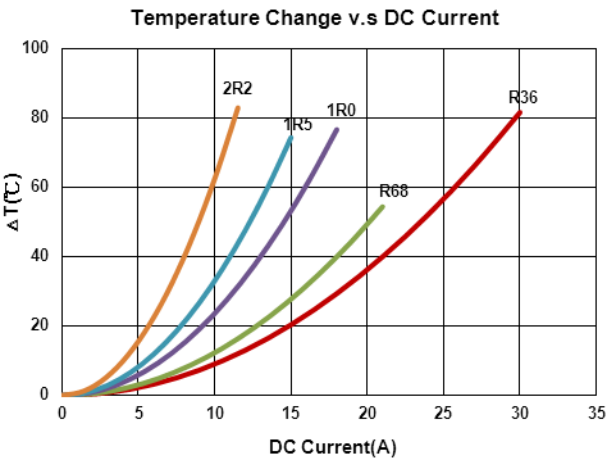

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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00060650R56MV1	0.56	20	100	3.6(3.4)	12	20	R56
BMMA00060650R68MV1	0.68	20	100	4.5(4.2)	11.5	18	R68
BMMA00060650R82MV1	0.82	20	100	4.9(4.6)	13	16.5	R82
BMMA000606501R0MV1	1.0	20	100	6.5(5.6)	15	13	1R0
BMMA000606501R5MV1	1.5	20	100	9(8.6)	12	12	1R5
BMMA000606502R2MV1	2.2	20	100	13.6(13)	10	10	2R2
BMMA000606503R3MV1	3.3	20	100	20.9(19.9)	8	8	3R3
BMMA000606504R7MV1	4.7	20	100	30.3(28.9)	7	6.5	4R7
BMMA000606505R6MV1	5.6	20	100	34.4(32.7)	7	6	5R6
BMMA000606506R8MV1	6.8	20	100	44.6(42.5)	5.5	5.5	6R8
BMMA000606508R2MV1	8.2	20	100	45.6(43.5)	5.5	5.5	8R2
BMMA00060650100MV1	10	20	100	71.3(67.9)	4.5	4.5	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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- Measure Equipment：

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  RDC：CHEN HWA 502 or CHEN HWA 46502B

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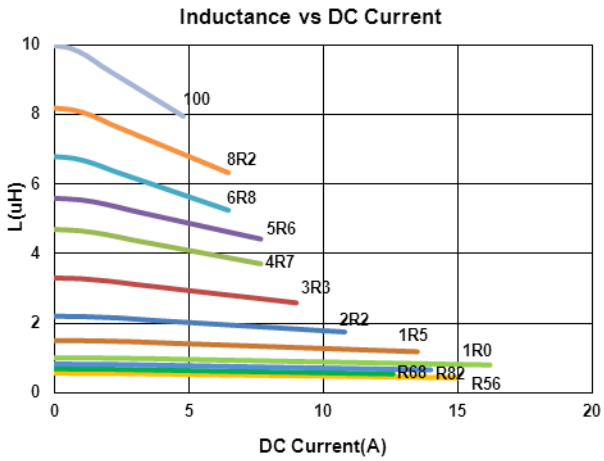
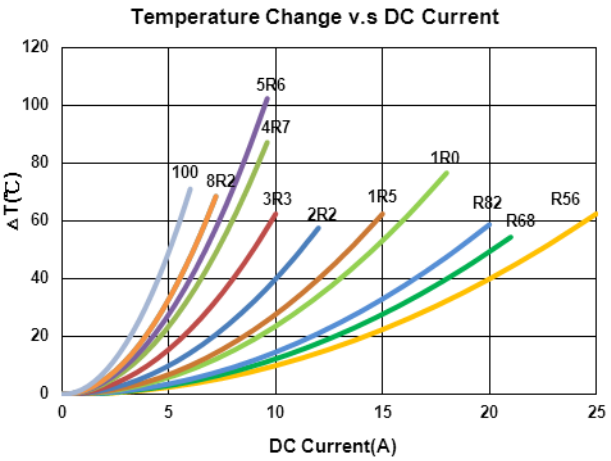
Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00080830R22MV1	0.22	20	100	1.61(1.5)	43	32	R22
BMMA00080830R47MV1	0.47	20	100	3.33(3.11)	35	21.5	R47
BMMA000808301R0MV1	1.0	20	100	8.35(7.8)	29	13.7	1R0
BMMA000808301R5MV1	1.5	20	100	13.3(12.4)	24	11	1R5
BMMA000808304R7MV1	4.7	20	100	34.2(32)	10.5	6.6	4R7

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

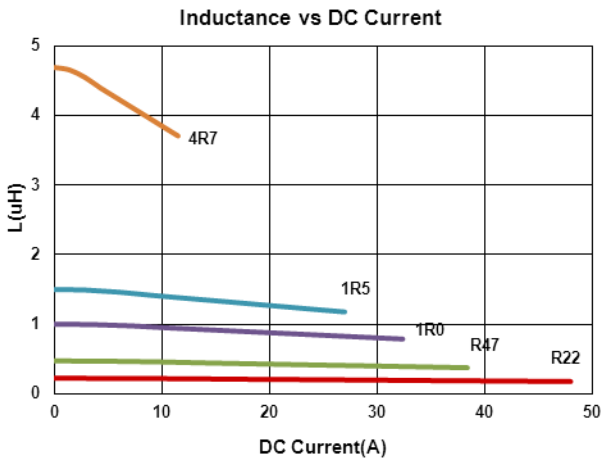
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

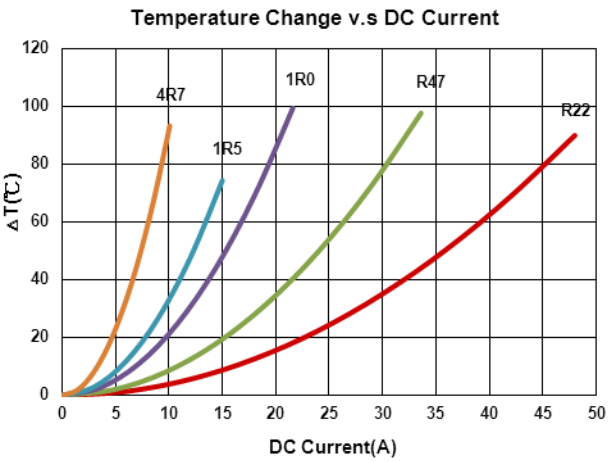
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00080840R22MV1	0.22	20	100	1.68(1.57)	34	30.7	R22
BMMA00080840R47MV1	0.47	20	100	2.62(2.45)	31.5	25	R47
BMMA00080840R68MV1	0.68	20	100	3.67(3.43)	24.5	21	R68
BMMA000808401R0MV1	1.0	20	100	5.78(5.4)	24	18	1R0
BMMA000808402R2MV1	2.2	20	100	13.7(12.8)	23	10.5	2R2
BMMA000808404R7MV1	4.7	20	100	32(29.9)	15	7.25	4R7

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

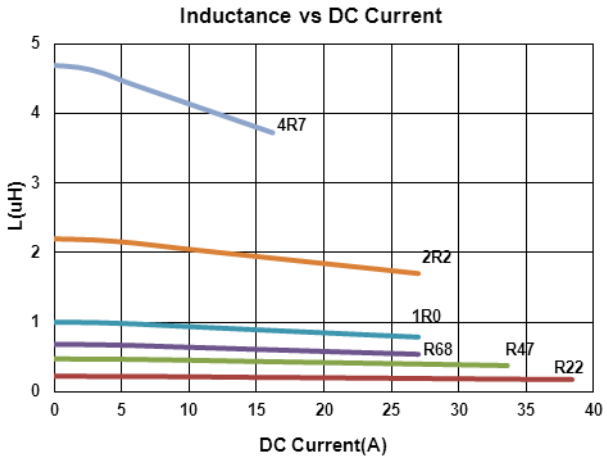
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

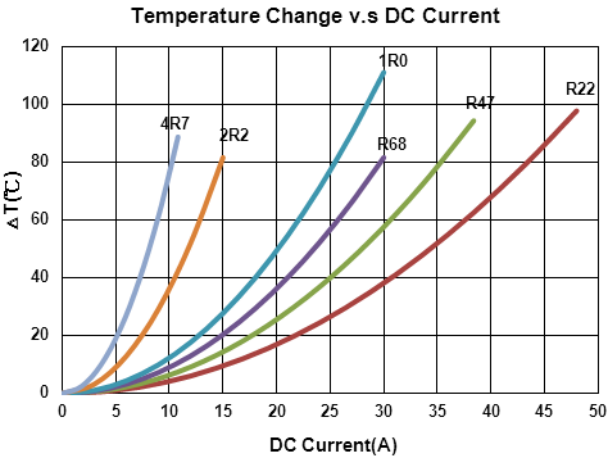
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
BMMA001010151R5MX1	1.5	20	100	26(22)	8.5(10)	7(7.8)	1R5
BMMA001010152R2MX1	2.2	20	100	34(28.5)	7(8)	5(6)	2R2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

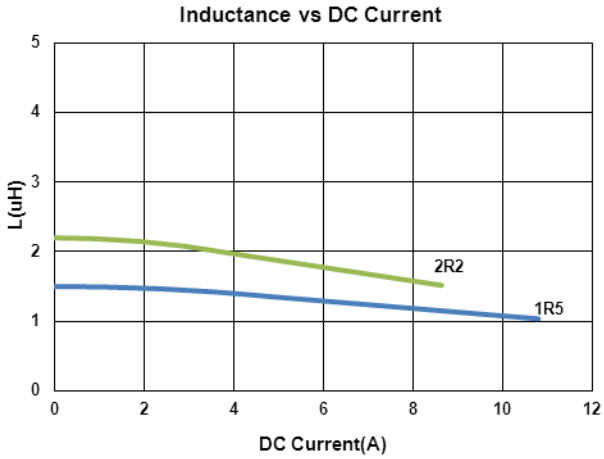
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

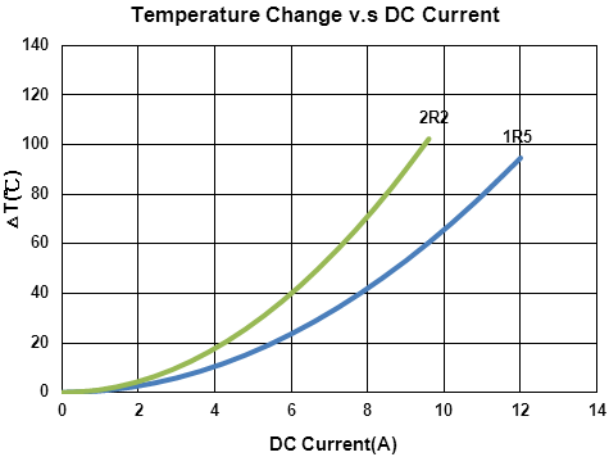
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00101030R22MX2	0.22	20	100	1.2(1.07)	50	30	R22
BMMA00101030R36MX2	0.36	20	100	1.15(1.05)	30	26	R36
BMMA00101030R47MX2	0.47	20	100	2.5(2.1)	26	20	R47
BMMA00101030R68MX2	0.68	20	100	3.4(2.9)	23	21	R68
BMMA001010301R0MX2	1.0	20	100	6(5.3)	18	13	1R0
BMMA001010302R2MX2	2.2	20	100	9(8)	16	13	2R2
BMMA001010303R3MX2	3.3	20	100	16(14.5)	14	9	3R3
BMMA001010304R7MX2	4.7	20	100	22.5(20.5)	13	7	4R7
BMMA00101030100MX2	10	20	100	55(50)	7.5	5	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

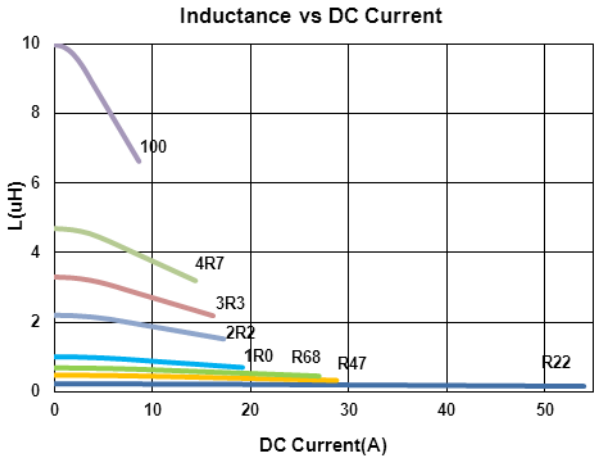
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

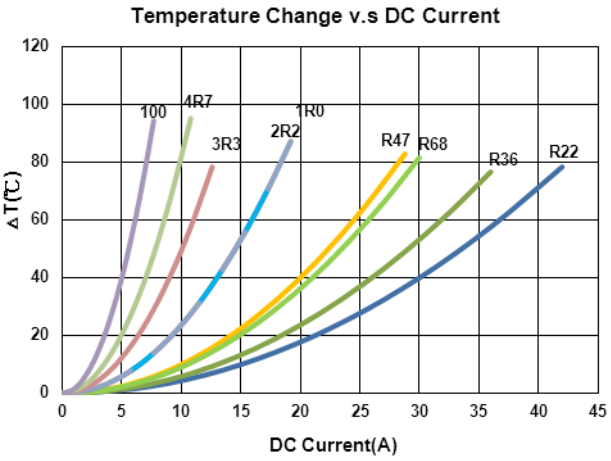
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±10%	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA001010402R2MI8	2.2	20	100	5.5	20	15	2R2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

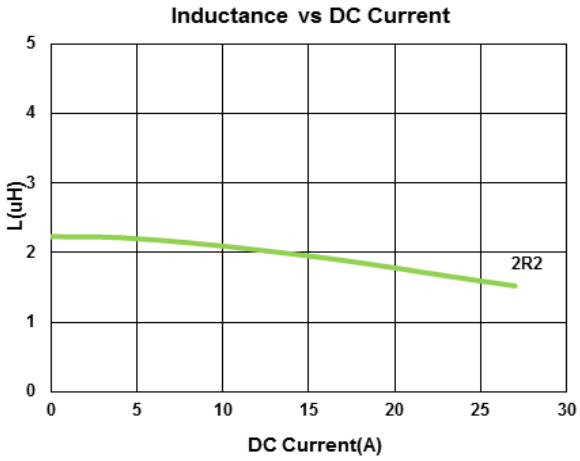
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 25% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

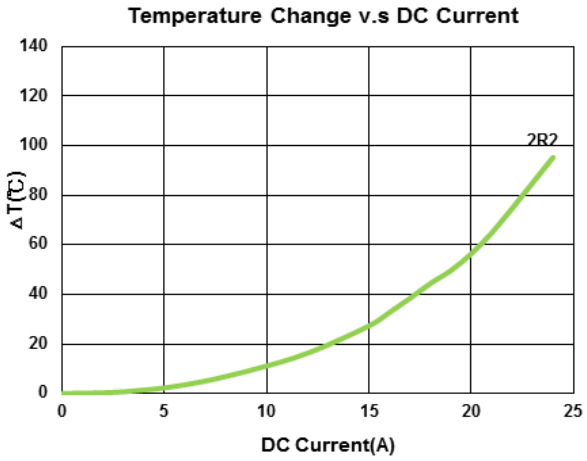
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00101040R15MX1	0.15	20	100	0.65(0.5)	75	40	R15
BMMA00101040R36MX1	0.36	20	100	1.2(1.05)	60	30	R36
BMMA00101040R41MX1	0.41	20	100	1.3(1.1)	60	30	R41
BMMA00101040R47MX1	0.47	20	100	1.8(1.6)	40	26	R47
BMMA00101040R56MX1	0.56	20	100	1.8(1.6)	40	25	R56
BMMA00101040R68MX1	0.68	20	100	2.7(2.4)	39	22	R68
BMMA00101040R88MX1	0.88	20	100	3(2.7)	38	20	R88
BMMA001010401R0MX1	1.0	20	100	3.3(2.9)	36	18	1R0
BMMA001010401R5MX1	1.5	20	100	4.2(3.8)	33	16	1R5
BMMA001010402R2MX1	2.2	20	100	7(6.6)	27	12	2R2
BMMA001010404R7MX1	4.7	20	100	16.5(15)	17	9.5	4R7
BMMA00101040100MX1	10	20	100	30(27.5)	6	6	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

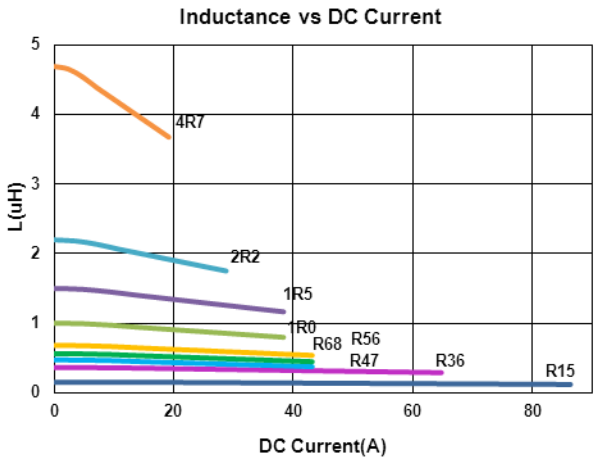
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

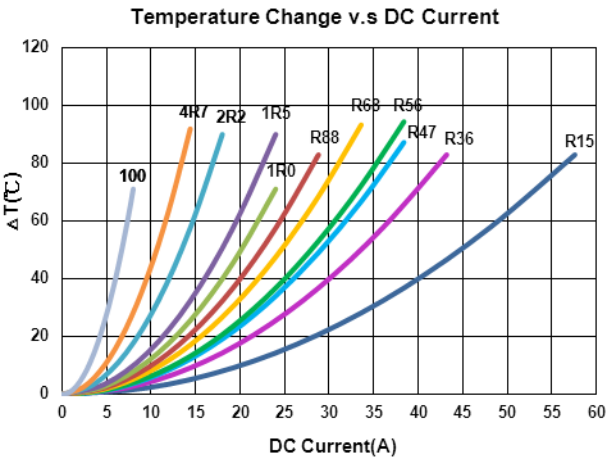
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00101040R22MX2	0.22	20	100	1(0.9)	60	35	R22
BMMA00101040R36MX2	0.36	20	100	1.2(1.05)	60	30	R36
BMMA00101040R56MX2	0.56	20	100	1.8(1.6)	33	25	R56
BMMA001010401R0MX2	1.0	20	100	3.3(3)	28	18	1R0
BMMA001010401R5MX2	1.5	20	100	4.2(3.8)	32	16	1R5
BMMA001010401R8MX2	1.8	20	100	5(4.5)	15	15	1R8
BMMA001010403R3MX2	3.3	20	100	11.8(10.8)	16	10	3R3
BMMA001010405R6MX2	5.6	20	100	23(20)	14	8	5R6
BMMA001010406R8MX2	6.8	20	100	25(22.5)	9	6.5	6R8
BMMA00101040100MX2	10	20	100	30(27)	8.5	7.5	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

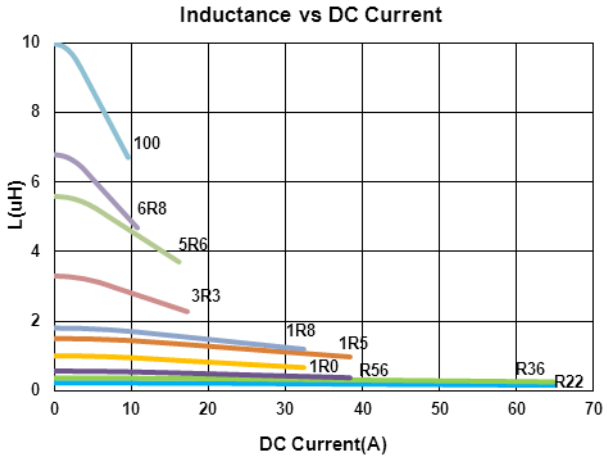
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

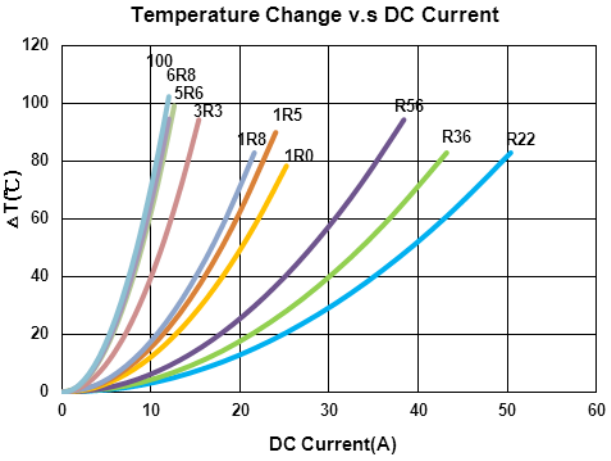
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00101040R19MV1	0.19	20	100	0.95(0.87)	90	40	R19
BMMA00101040R36MV1	0.36	20	100	1.4(1.3)	60	31.5	R36
BMMA00101040R56MV1	0.56	20	100	1.8(1.7)	49	27.5	R56
BMMA001010401R0MV1	1.0	20	100	4.1(3.7)	36	17.5	1R0
BMMA001010401R5MV1	1.5	20	100	5.8(5.3)	27.5	15	1R5
BMMA001010402R2MV1	2.2	20	100	9(8.2)	25.6	12	2R2
BMMA001010403R3MV1	3.3	20	100	11.8(10.8)	18.6	10	3R3
BMMA001010404R7MV1	4.7	20	100	16.5(15)	17	9.5	4R7
BMMA001010405R6MV1	5.6	20	100	19.3(17.6)	16	8.5	5R6
BMMA001010406R8MV1	6.8	20	100	23.3(21.2)	13.5	8	6R8
BMMA00101040100MV1	10	20	100	36.5(33.2)	12	6.8	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
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- Withstand voltage: 25V DC
- Measure Equipment：

  L：WK 3260B or WK 6500P, 100kHz 0.25V

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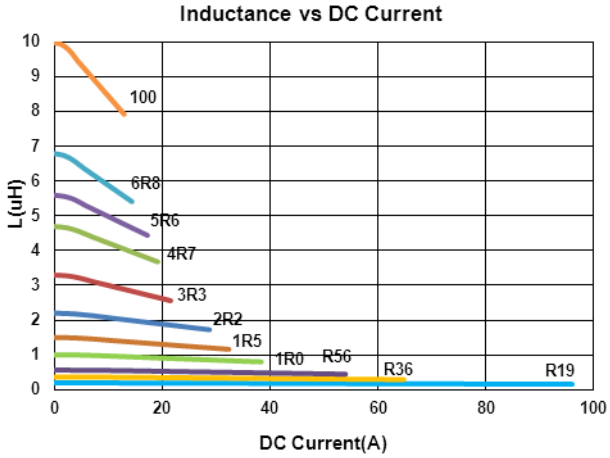
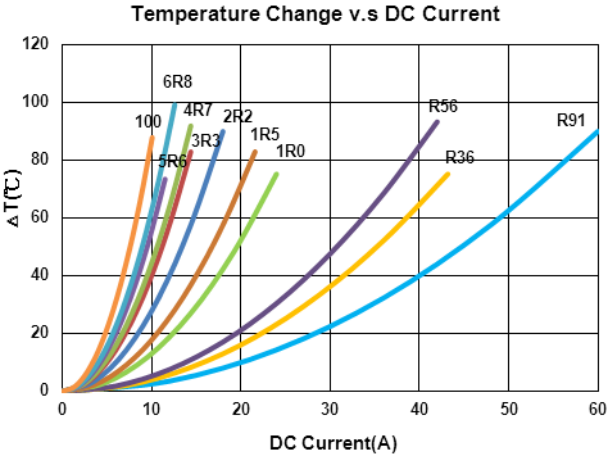
  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA001010452R2MX1	2.2	20	100	7(5.8)	16	14	2R2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

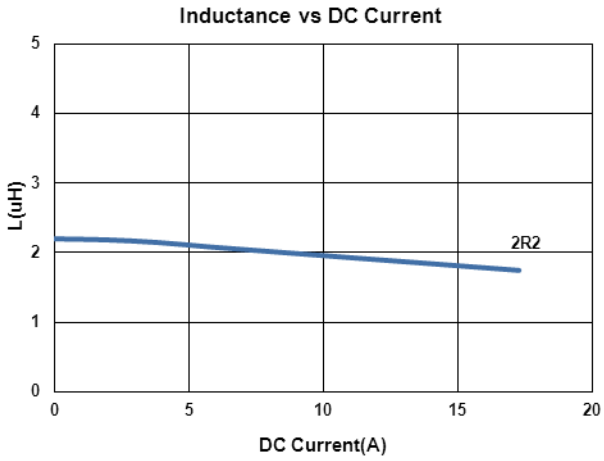
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

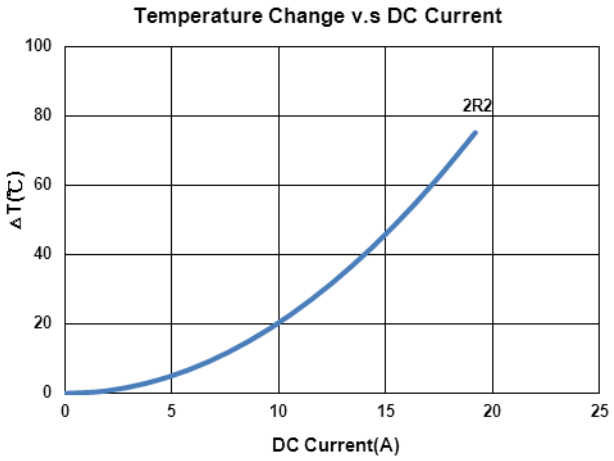
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA001010452R2MX2	2.2	20	100	7(5.8)	16	14	2R2
BMMA001010453R3MX2	3.3	20	100	13.2(11)	14.5	11	3R3
BMMA001010454R7MX2	4.7	20	100	15(13.2)	13	10	4R7
BMMA001010456R8MX2	6.8	20	100	24(21.5)	9.5	7.5	6R8

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

  L：WK 3260B or WK 6500P, 100kHz 0.25V

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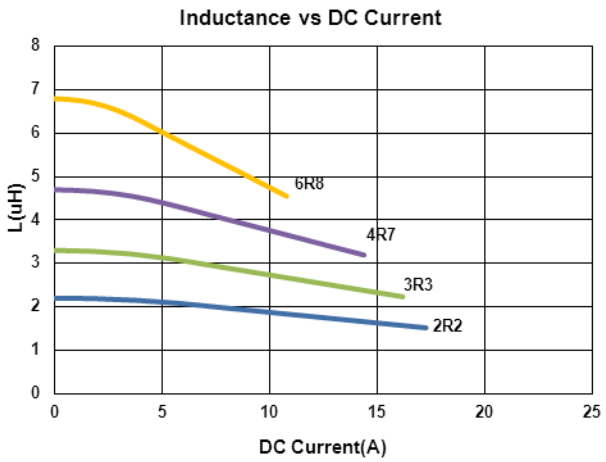
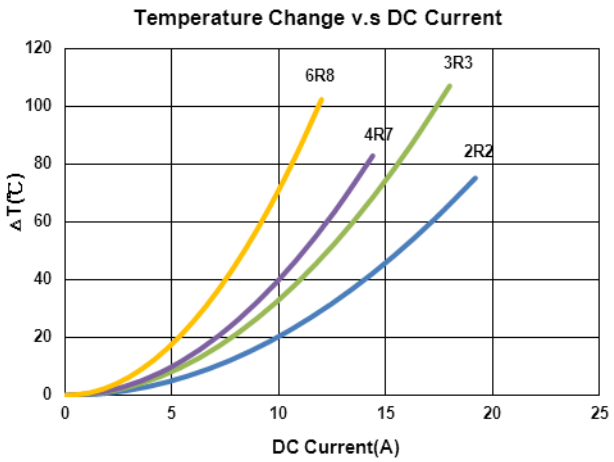
Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00101050R47MX2	0.47	20	100	1.1(0.95)	50	36	R47

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

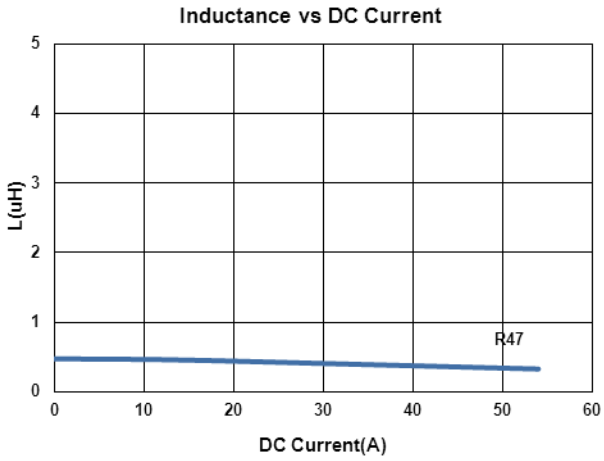
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

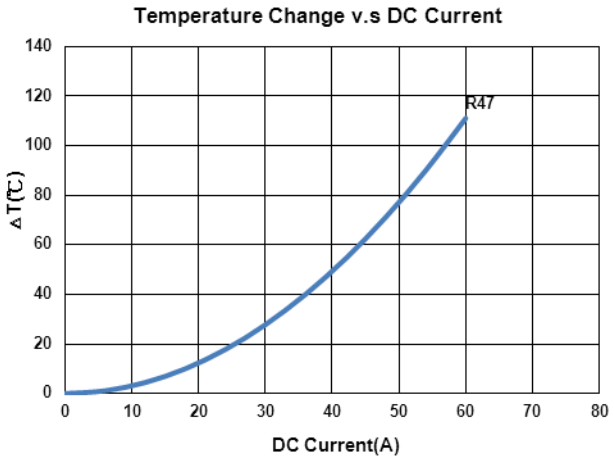
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00131335R22MX1	0.22	20	100	1.3(1.1)	65	38.5	R22
BMMA00131335R33MX1	0.33	20	100	1.5(1.3)	62	36.5	R33
BMMA00131335R47MX1	0.47	20	100	2(1.6)	55	32	R47
BMMA00131335R56MX1	0.56	20	100	2.2(1.8)	51	29	R56
BMMA00131335R68MX1	0.68	20	100	2.5(2.3)	49	28	R68
BMMA001313351R0MX1	1.0	20	100	3.5(3.3)	40	24	1R0
BMMA001313351R5MX1	1.5	20	100	5.5(5.1)	35	19	1R5
BMMA001313352R2MX1	2.2	20	100	8(7.2)	29	16	2R2
BMMA001313353R3MX1	3.3	20	100	12(11)	27	12	3R3
BMMA001313354R7MX1	4.7	20	100	18(16)	22	9	4R7

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

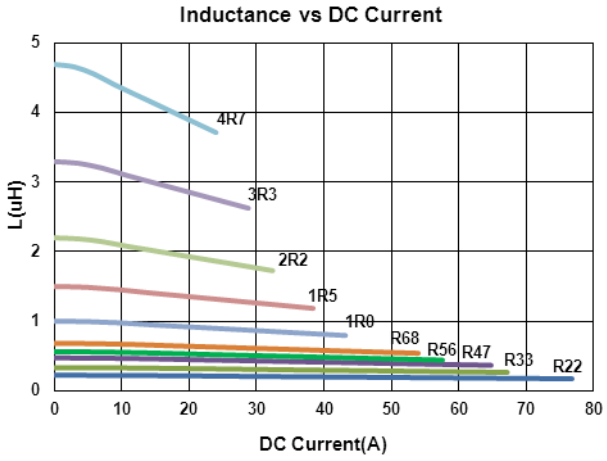
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

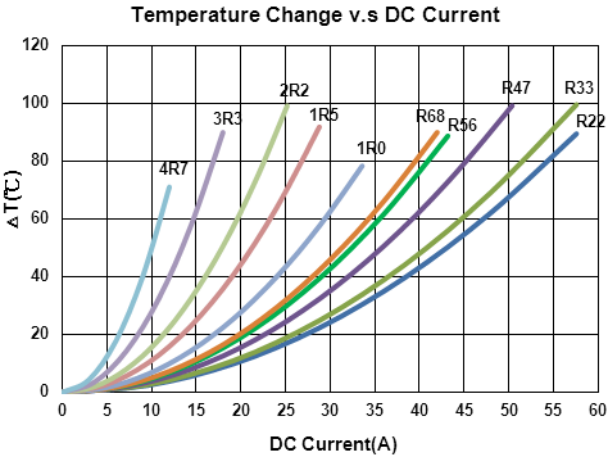
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00131335R15MV1	0.15	20	100	1.2(1)	75	41	R15
BMMA00131335R22MV1	0.22	20	100	1.3(1.1)	65	38.5	R22
BMMA00131335R33MV1	0.33	20	100	1.5(1.3)	62	36.5	R33
BMMA00131335R47MV1	0.47	20	100	2(1.6)	55	32	R47
BMMA00131335R60MV1	0.60	20	100	2.2(1.8)	51	29	R60
BMMA00131335R68MV1	0.68	20	100	2.5(2.3)	49	28	R68
BMMA00131335R82MV1	0.82	20	100	3(2.6)	44	25	R82
BMMA001313351R0MV1	1.0	20	100	3.5(3.3)	40	24	1R0
BMMA001313351R5MV1	1.5	20	100	5.5(5.1)	35	19	1R5
BMMA001313351R8MV1	1.8	20	100	7(6.5)	30	16.5	1R8
BMMA001313352R2MV1	2.2	20	100	8(7.2)	29	16	2R2
BMMA001313353R3MV1	3.3	20	100	12(11)	27	12	3R3
BMMA001313354R7MV1	4.7	20	100	15(14.3)	24	10	4R7
BMMA001313355R6MV1	5.6	20	100	19(18.3)	19	9.5	5R6
BMMA001313356R8MV1	6.8	20	100	22(19.8)	18	9	6R8
BMMA001313358R2MV1	8.2	20	100	28(24.8)	16	8.5	8R2
BMMA00131335100MV1	10	20	100	34(30.4)	14	7	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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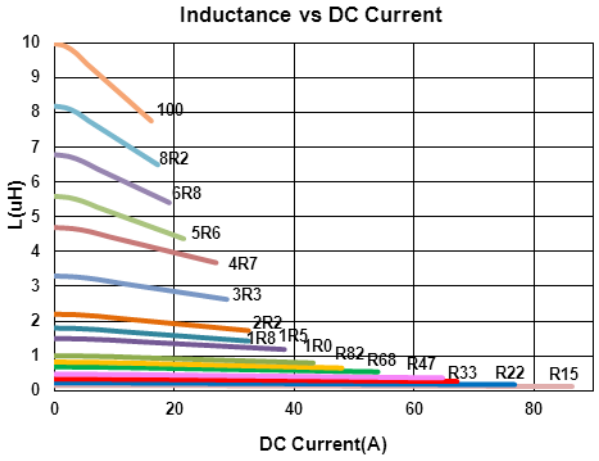

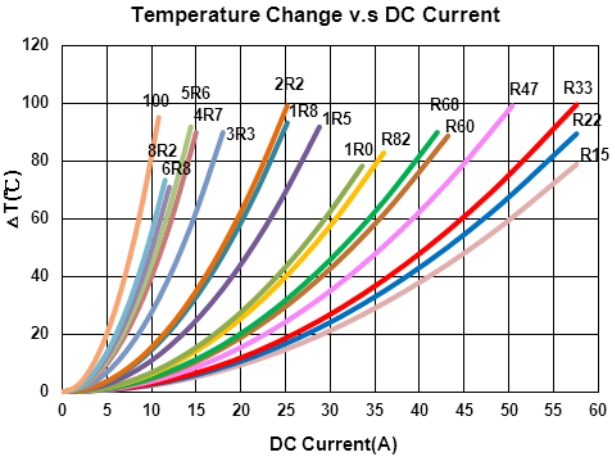

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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00131350R15MX1	0.15	20	100	0.7(0.55)	110	45	R15
BMMA00131350R36MX1	0.36	20	100	1.1(0.77)	75	41	R36
BMMA00131350R47MX1	0.47	20	100	1.3(1.1)	65	38	R47
BMMA00131350R50MX1	0.50	20	100	1.5(1.2)	55	36	R50
BMMA00131350R56MX1	0.56	20	100	1.5(1.2)	55	36	R56
BMMA00131350R68MX1	0.68	20	100	1.7(1.5)	54	34	R68
BMMA00131350R82MX1	0.82	20	100	2.1(1.8)	53	31	R82
BMMA001313501R0MX1	1.0	20	100	2.5(2.1)	50	29	1R0
BMMA001313501R5MX1	1.5	20	100	4.1(3.4)	48	23	1R5
BMMA001313502R2MX1	2.2	20	100	5.5(4.6)	32	20	2R2
BMMA001313503R3MX1	3.3	20	100	9.2(7.7)	32	15	3R3
BMMA001313504R7MX1	4.7	20	100	15(12.8)	27	12	4R7
BMMA001313506R8MX1	6.8	20	100	18.5(15.4)	21	11	6R8

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
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- Measure Equipment：

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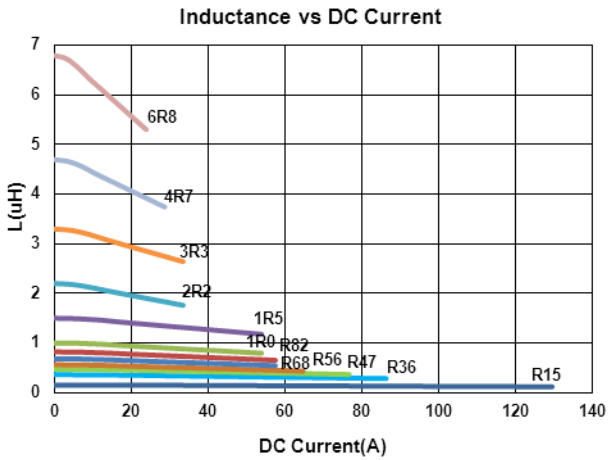
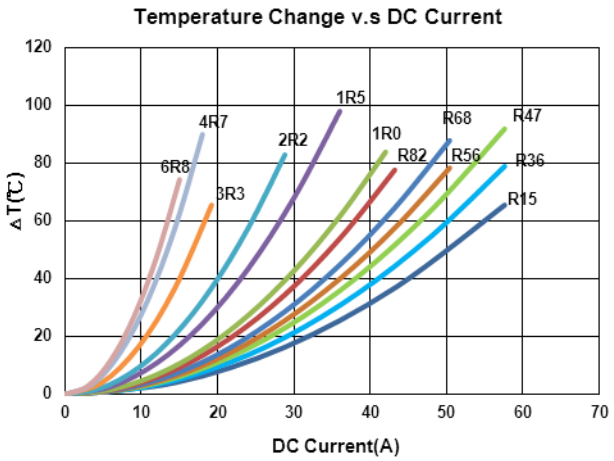
  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00131350R82MX2	0.82	20	100	1.67(1.45)	39	30	R82
BMMA001313501R0MX2	1.0	20	100	2.2(1.9)	35	26	1R0
BMMA001313501R5MX2	1.5	20	100	3.2(2.8)	33	23	1R5
BMMA001313502R2MX2	2.2	20	100	5(4)	24	15	2R2
BMMA001313503R3MX2	3.3	20	100	7(5.9)	22	14	3R3
BMMA00131350100MX2	10	20	100	22(19)	12	9	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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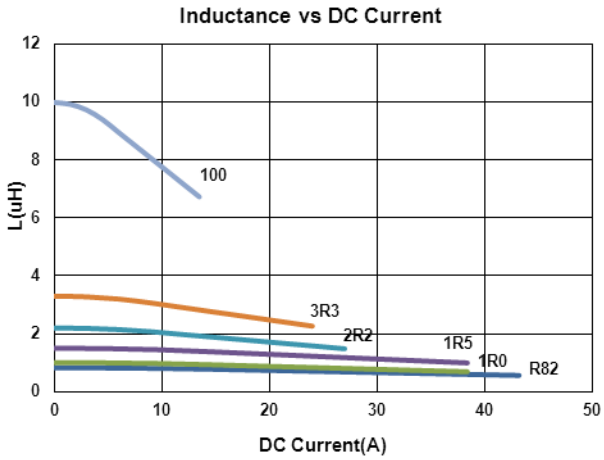
- Withstand voltage: 25V DC
- Measure Equipment：

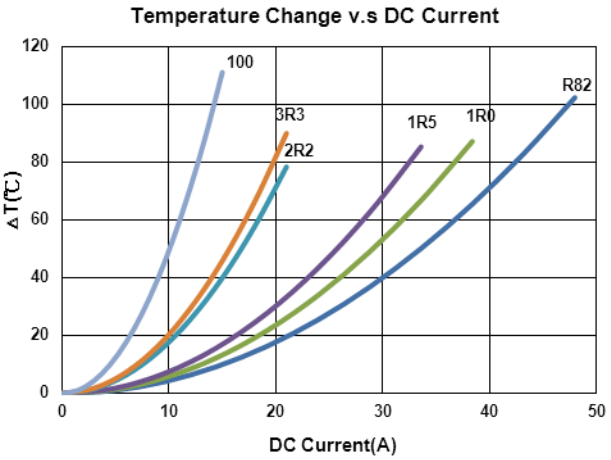
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00131350R10MV1	0.10	20	100	0.6(0.53)	118	55	R10
BMMA00131350R22MV1	0.22	20	100	0.8(0.64)	110	51	R22
BMMA00131350R33MV1	0.33	20	100	1.1(0.85)	80	42	R33
BMMA00131350R47MV1	0.47	20	100	1.3(1.1)	65	38	R47
BMMA00131350R56MV1	0.56	20	100	1.5(1.3)	55	36	R56
BMMA00131350R68MV1	0.68	20	100	1.7(1.5)	54	34	R68
BMMA00131350R82MV1	0.82	20	100	2.3(2.0)	53	31	R82
BMMA001313501R0MV1	1.0	20	100	2.5(2.1)	50	29	1R0
BMMA001313501R5MV1	1.5	20	100	4.1(3.4)	48	23	1R5
BMMA001313501R8MV1	1.8	20	100	4.9(4.2)	40	19	1R8
BMMA001313502R2MV1	2.2	20	100	5.5(4.6)	32	20	2R2
BMMA001313503R3MV1	3.3	20	100	9.2(7.7)	32	15	3R3
BMMA001313504R7MV1	4.7	20	100	15(12.8)	27	12	4R7
BMMA001313505R6MV1	5.6	20	100	16.5(14)	22	11.5	5R6
BMMA001313506R8MV1	6.8	20	100	18.5(15.4)	21	11	6R8
BMMA001313507R8MV1	7.8	20	100	20.5(17.2)	18	10	7R8
BMMA001313508R2MV1	8.2	20	100	22.5(18.9)	18	9.5	8R2
BMMA00131350100MV1	10	20	100	25.5(21.4)	16	9	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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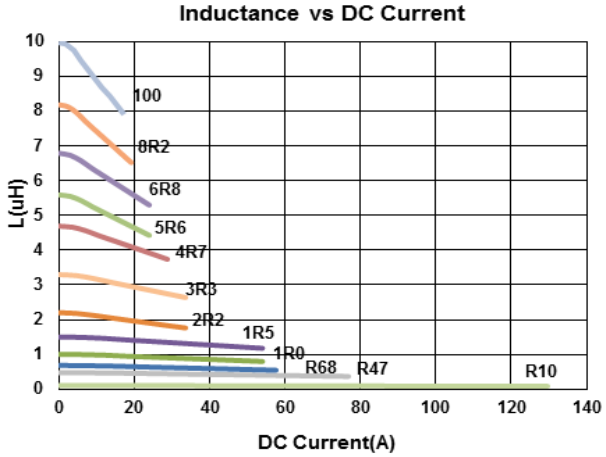
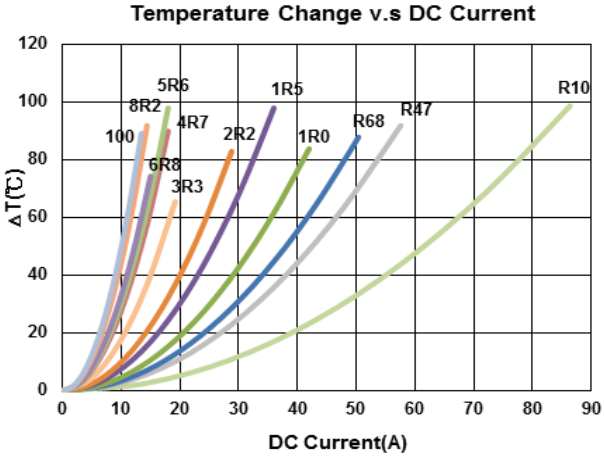
  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00131364R22MV1	0.22	20	100	0.7(0.63)	112	53	R22
BMMA00131364R33MV1	0.33	20	100	0.9(0.83)	65	46	R33
BMMA00131364R47MV1	0.47	20	100	1.2(1)	63	41	R47
BMMA00131364R56MV1	0.56	20	100	1.4(1.2)	62	37	R56
BMMA00131364R68MV1	0.68	20	100	1.6(1.4)	60	35	R68
BMMA00131364R82MV1	0.82	20	100	1.9(1.6)	50	33	R82
BMMA001313641R0MV1	1.0	20	100	2(1.7)	49	32	1R0
BMMA001313641R5MV1	1.5	20	100	3(2.5)	45	27	1R5
BMMA001313641R8MV1	1.8	20	100	3.2(2.8)	41	24	1R8
BMMA001313642R2MV1	2.2	20	100	4.2(3.5)	40	22	2R2
BMMA001313643R3MV1	3.3	20	100	6.8(5.7)	35	18	3R3
BMMA001313644R7MV1	4.7	20	100	11.2(9.3)	30	13.5	4R7
BMMA001313645R6MV1	5.6	20	100	10(9.3)	32	13.5	5R6
BMMA001313646R8MV1	6.8	20	100	14(13.1)	16.5	11.5	6R8
BMMA001313648R2MV1	8.2	20	100	15.5(14.5)	16	10.5	8R2
BMMA00131364100MV1	10	20	100	17.2(16.4)	15.5	10	100

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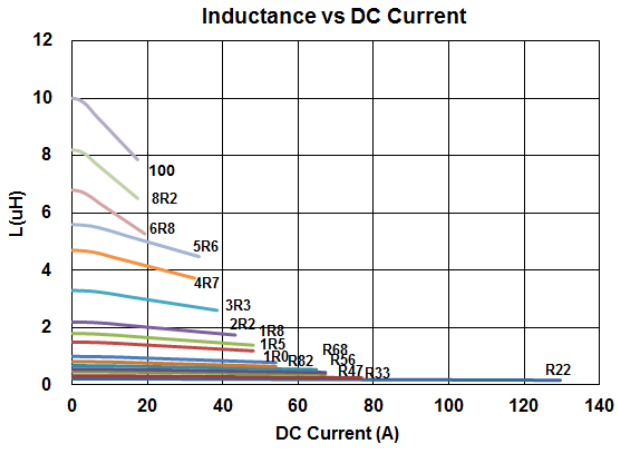

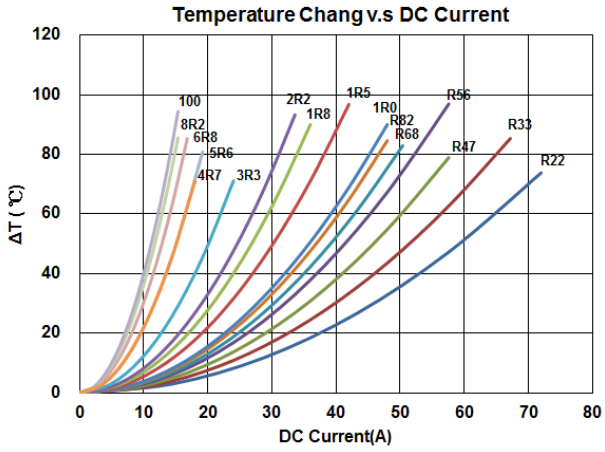

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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA001717701R0MV1	1.0	20	100	1.38(1.28)	73	48	1R0
BMMA001717702R2MV1	2.2	20	100	2.53(2.4)	62	35	2R2
BMMA001717703R3MV1	3.3	20	100	3.88(3.68)	54	28	3R3
BMMA001717704R7MV1	4.7	20	100	5.11(4.84)	41	25	4R7
BMMA001717706R8MV1	6.8	20	100	8.83(8.37)	32	19	6R8

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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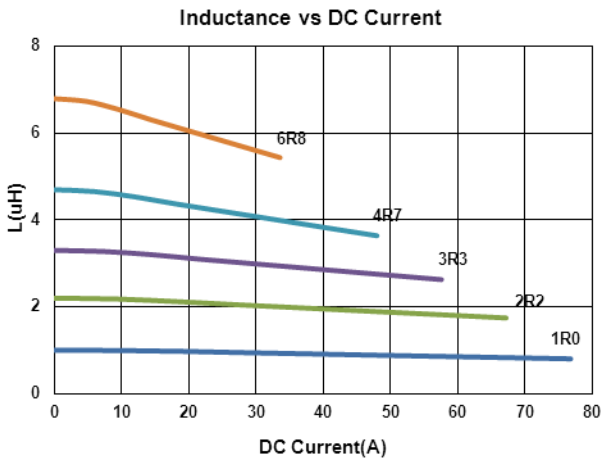

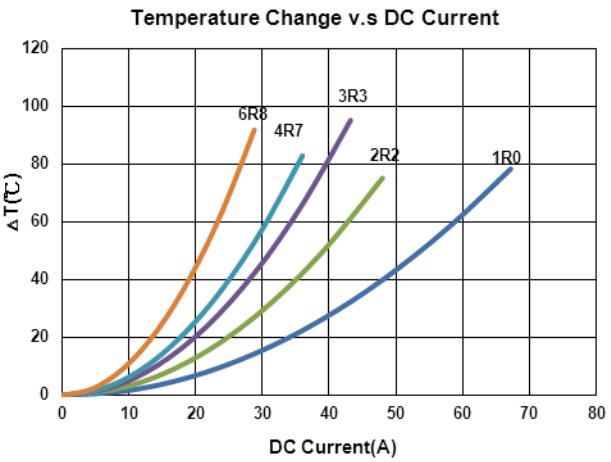

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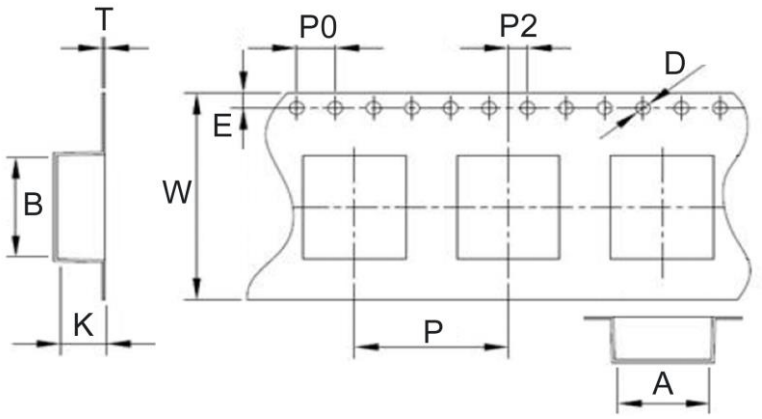
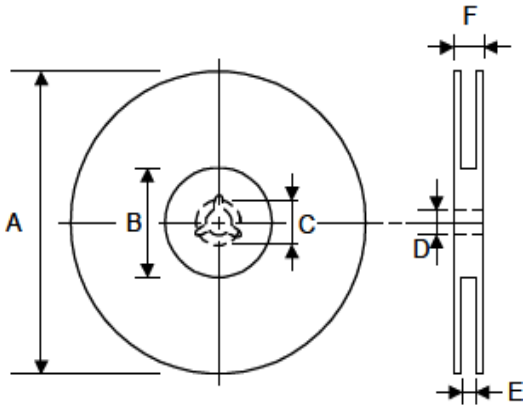
Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions										Reel Dimensions						Quantity
	A	B	K	T	D	E	W	P	P0	P2	A	B	C	D	E	F	PCS / REEL
BMMA00040412	4.5	4.9	1.7	0.35	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	2000
BMMA00040420	4.4	4.9	2.4	0.35	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	2000
BMMA00050512	5.4	5.8	1.4	0.3	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	1000
BMMA00050518	5.4	5.8	1.95	0.3	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	1000
BMMA00050520	5.4	5.8	2.3	0.3	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	1000
BMMA00050530-Xx	5.0	5.4	3.2	0.35	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	1000
BMMA00050530-V1	5.4	5.9	3.3	0.35	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	1000
BMMA00060618	6.9	7.5	2.1	0.3	1.5	1.75	16	12	4	2	330	100	21.5	13	16.4	21.4	1000
BMMA00060624	6.9	7.6	2.7	0.35	1.5	1.75	16	12	4	2	330	100	21.5	13	16.4	21.4	1000
BMMA00060630	6.9	7.6	3.4	0.35	1.5	1.75	16	12	4	2	330	100	21.5	13	16.4	21.4	1000
BMMA00060640	6.9	7.5	4.3	0.4	1.5	1.75	16	12	4	2	330	100	21.5	13	16.4	21.4	1000
BMMA00060650-X1	6.9	7.5	5.2	0.4	1.5	1.75	16	12	4	2	330	100	21.5	13	16.4	21.4	500
BMMA00060650-X2	6.9	7.5	5.2	0.4	1.5	1.75	16	12	4	2	330	100	21.5	13	16.4	21.4	500
BMMA00060650-V1	6.9	7.5	5.2	0.4	1.5	1.75	16	12	4	2	330	100	21.5	13	16.4	21.4	500
BMMA00080830	8.6	8.8	3.3	0.4	1.5	1.75	16	12	4	2	330	100	21.5	13	16.4	21.4	500
BMMA00080840	8.3	8.5	4.2	0.35	1.5	1.75	16	12	4	2	330	100	21.5	13	16.4	21.4	500
BMMA00101015	10.4	11.5	2.3	0.35	1.5	1.75	24	16	4	2	330	100	21.5	13	24.2	29.2	500
BMMA00101030	10.4	11.5	3.4	0.35	1.5	1.75	24	16	4	2	330	100	21.5	13	24.2	29.2	500
BMMA00101040	10.4	11.5	4.5	0.35	1.5	1.75	24	16	4	2	330	100	21.5	13	24.2	29.2	500
BMMA00101045	10.4	11.5	4.9	0.5	1.5	1.75	24	16	4	2	330	100	21.5	13	24.2	29.2	500
BMMA00101050	10.4	11.5	5.8	0.5	1.5	1.75	24	16	4	2	330	100	21.5	13	24.2	29.2	500
BMMA00131335-X1	13.0	13.9	3.6	0.35	1.5	1.75	24	16	4	2	330	100	21.5	13	24.2	29.2	500
BMMA00131335-V1	13.0	13.9	3.8	0.35	1.5	1.75	24	16	4	2	330	100	21.5	13	24.2	29.2	500
BMMA00131350	13.4	14.0	5.4	0.4	1.5	1.75	24	16	4	2	330	100	21.5	13	24.2	29.2	250
BMMA00131364	13.4	14.0	6.8	0.4	1.5	1.75	24	16	4	2	330	100	21.5	13	24.2	29.2	250
BMMA00171770	17.45	18.5	7.8	0.5	1.5	1.75	32	24	4	2	330	100	21.5	13	32	37	100

BMMN Series

BMMN Series is designed for low profile type with low RDC and ultra large current. Its molded magnetic shielded type is suitable for high-density mounting and ultra low buzz noise. Soldering conditions can be easily confirmed when mounting onto the board. This series also provides customers with embossed carrier type packaging for automatic mounting machine.

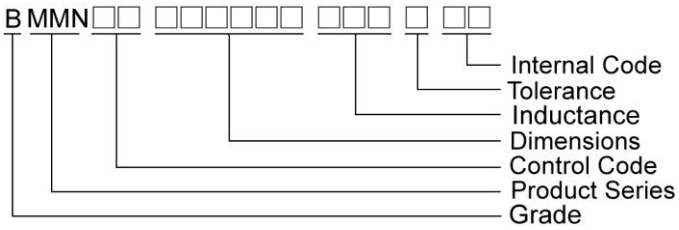
Features

- RoHS, Halogen Free and REACH Compliance
- Low resistance and high current rating
- Magnetic core made by high performance magnetic powder

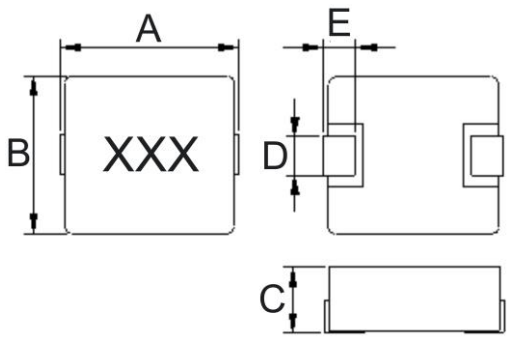
Applications

- Laptop and desktop applications
- High current power supplies
- PMIC
- DC/DC converters

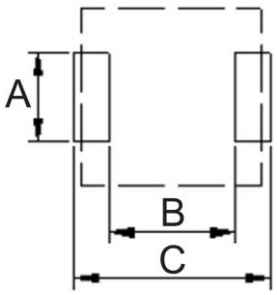
Product Identification



Shape and Dimensions



Recommended Pattern



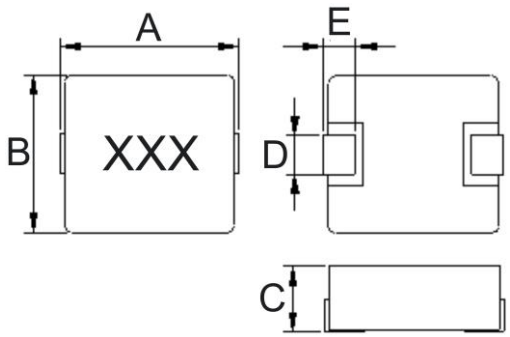
Dimensions in mm

TYPE	A	B	C	D	E
BMMN00040412	4.45±0.25	4.06±0.25	1.2Max	2.0±0.3	0.76±0.3
BMMN00040420	4.45±0.25	4.06±0.25	2.0Max	2.0±0.3	0.76±0.3
BMMN00050512	5.49±0.25	5.18±0.22	1.2Max	2.0±0.3	1.0±0.3
BMMN00050515	5.49±0.25	5.18±0.22	1.5Max	2.0±0.3	1.0±0.3
BMMN00050518	5.49±0.25	5.18±0.22	1.8Max	2.0±0.3	1.0±0.3
BMMN00050530	5.3Max	4.7±0.2	3.0Max	2.0±0.2	1.0±0.3
BMMN00060615	6.86±0.38	6.47±0.25	1.5Max	3.0±0.3	1.3±0.3
BMMN00060618	7.4Max	6.6±0.2	1.8Max	3.0±0.3	1.6±0.3
BMMN00060630	6.95±0.35	6.6±0.2	3.0Max	3.0±0.3	1.6±0.3

Dimensions in mm

TYPE	A	B	C
BMME00040412	2.5	2.2	5.2
BMME00040420	2.5	2.2	5.2
BMMN00050512	2.5	2.2	5.99
BMMN00050515	2.5	2.2	5.99
BMMN00050518	2.5	2.2	5.99
BMMN00050530	2.5	3.0	7.0
BMMN00060615	3.43	3.71	7.37
BMMN00060618	3.5	3.7	8.4
BMMN00060630	3.5	3.7	8.4

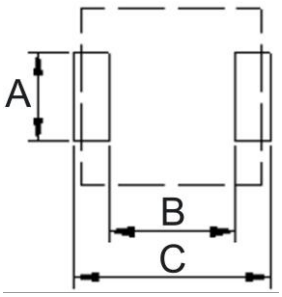
Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D	E
BMMN00101020	11.5Max	10±0.3	2.0Max	3.0±0.5	2.2±0.3
BMMN00101030	11.5Max	10±0.3	3.0Max	3.0±0.5	2.0±0.5
BMMN00101040-X1	11.5Max	10±0.3	4.0Max	3.0±0.5	2.2±0.3
BMMN00101040-X2	11.5Max	10±0.3	4.0Max	3.0±0.5	2.0±0.5
BMMN00131350	13.2±0.5	12.9Max	5.0Max	3.5±0.5	2.3±0.3
BMMN00131360	14.2Max	12.6±0.2	6.0Max	3.2±0.3	2.3±0.3
BMMN00131365	13.2±0.5	12.6±0.2	6.5Max	3.2±0.3	2.3±0.3
BMMN00171770	17.6±0.5	17.2Max	7.0Max	11.8±0.3	2.5±0.5

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
BMMN00101020	4.1	5.4	13.6
BMMN00101030	4.1	5.4	13.6
BMMN00101040-X1	4.1	5.4	13.6
BMMN00101040-X2	4.1	5.4	13.6
BMMN00131350	5.0	8.0	14.5
BMMN00131360	5.0	8.0	14.5
BMMN00131365	5.0	8.0	14.5
BMMN00171770	12.8	11.2	18.2

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMN000404121R0MX2	1.0	20	100	47(43)	5.2	4.2	1R0
BMMN000404122R2MX2	2.2	20	100	83.5(79.4)	3.5	2.75	2R2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

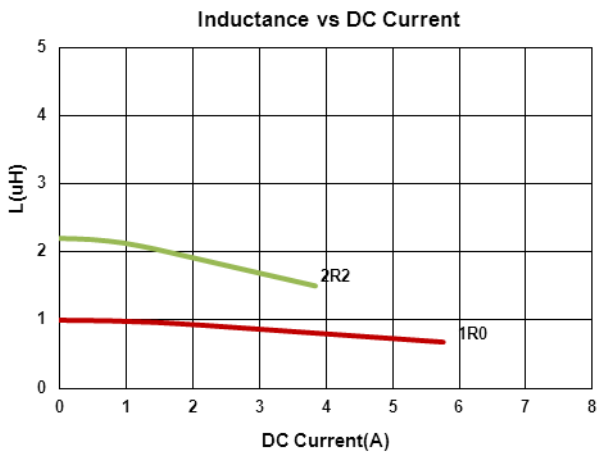
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

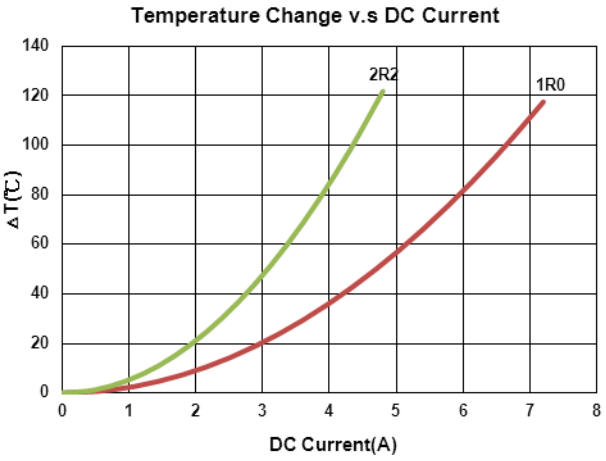
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMN000404201R5MX2	1.5	20	100	43(35)	6	4	1R5

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

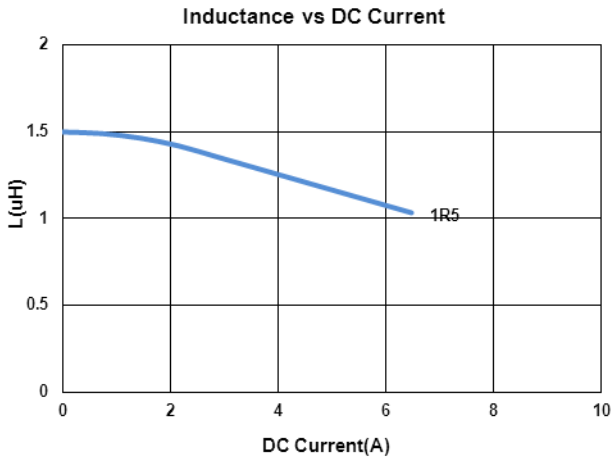
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

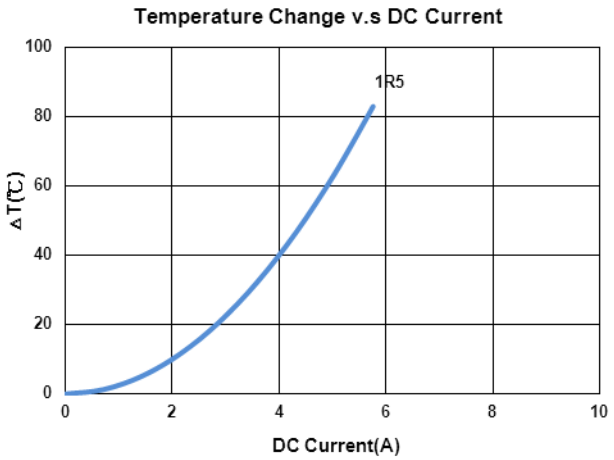
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ..	Marking
BMMN000505122R2MX1	2.2	20	100	76(67)	4	3.5	2R2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

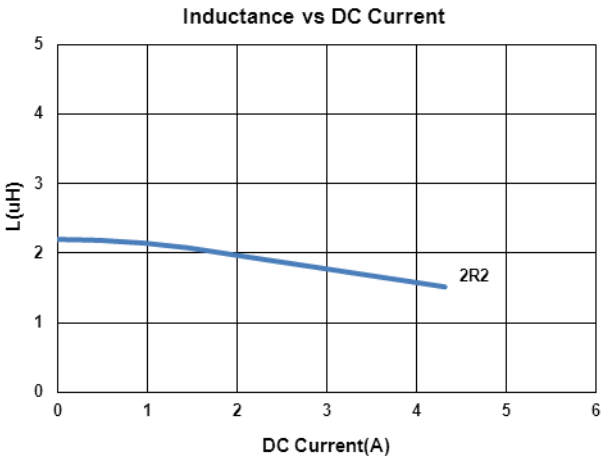
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

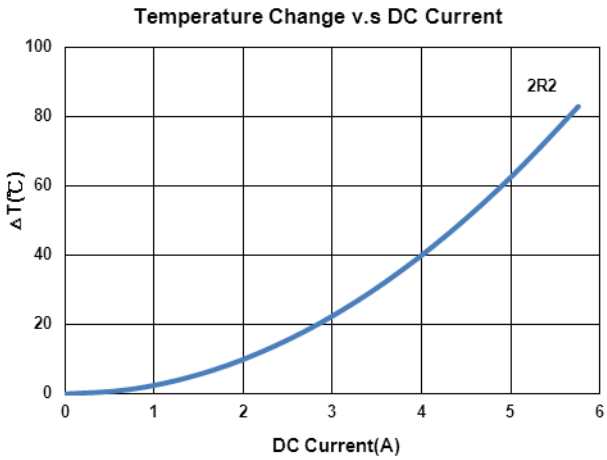
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
BMMN00050512R68MX2	0.68	20	100	22(19)	7.4(8.5)	6.0(6.7)	R68

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

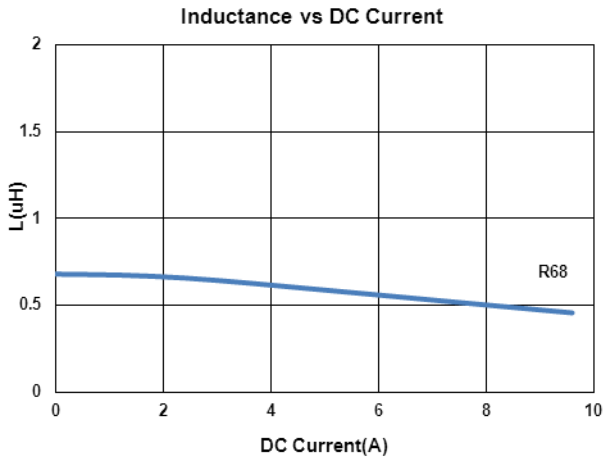
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

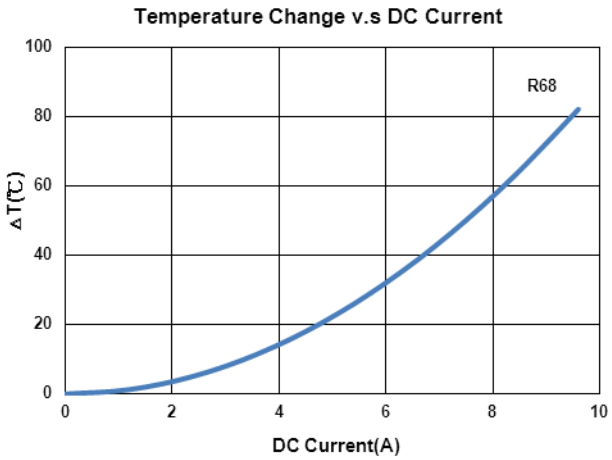
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ..	Marking
BMMN000505151R0MX2	1.0	20	100	23(20)	9	6.5	1R0
BMMN000505154R7MX2	4.7	20	100	106(95)	4	3	4R7
BMMN00050515100MX2	10	20	100	170(153)	3	2	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

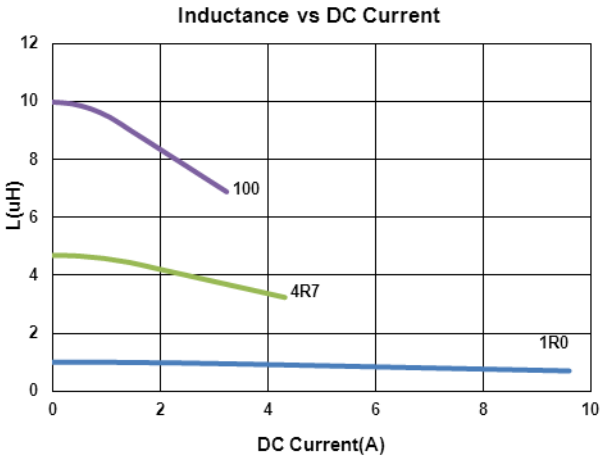
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

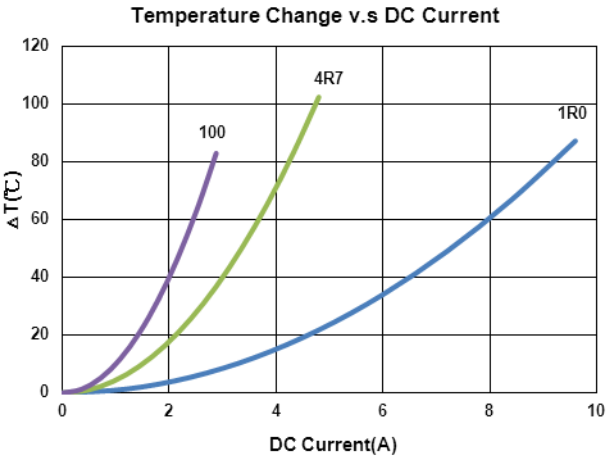
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
BMMN000505181R0MX1	1.0	20	100	18(15)	8.6(10)	7.5(8.5)	1R0
BMMN000505181R5MX1	1.5	20	100	28(23)	7.2(9)	5.5(6.5)	1R5
BMMN000505182R2MX1	2.2	20	100	35(30)	6(7)	4.7(5.2)	2R2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

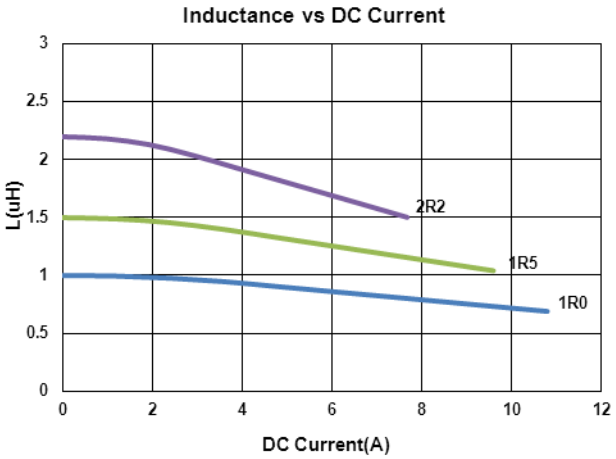
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

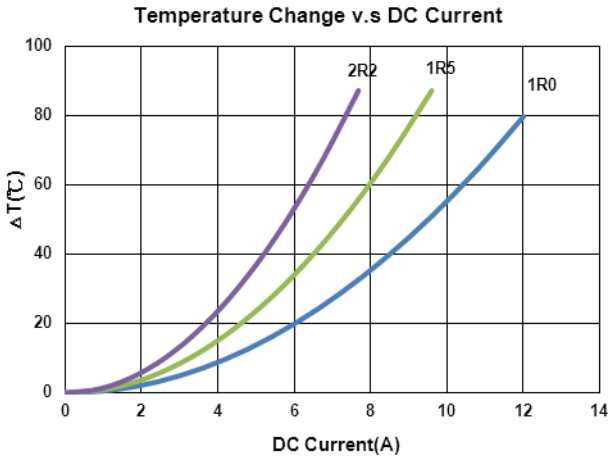
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMN00050518R47MX2	0.47	20	100	9(7.7)	15.5	10.5	R47
BMMN00050518R56MX2	0.56	20	100	10(8)	15	9.5	R56
BMMN000505181R0MX2	1.0	20	100	17(15)	9	8	1R0
BMMN000505181R2MX2	1.2	20	100	20(17)	8	7.5	1R2
BMMN000505182R2MX2	2.2	20	100	35(30)	6.5	5	2R2
BMMN000505183R3MX2	3.3	20	100	58(52)	5	4.5	3R3
BMMN000505184R7MX2	4.7	20	100	85(78)	4	3.5	4R7
BMMN000505186R8MX2	6.8	20	100	120(107)	3.4	2.8	6R8
BMMN00050518100MX2	10	20	100	155(140)	3	2.5	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

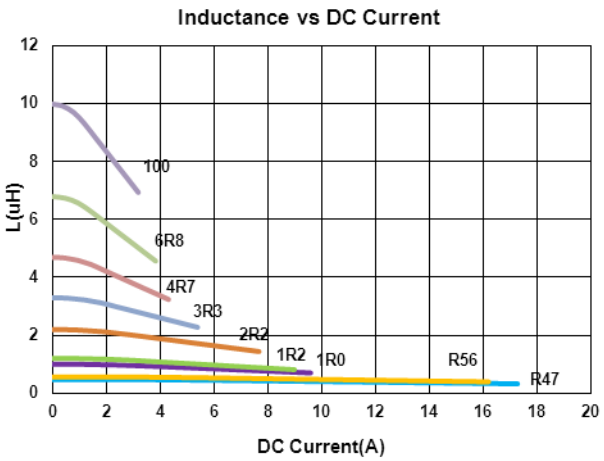
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

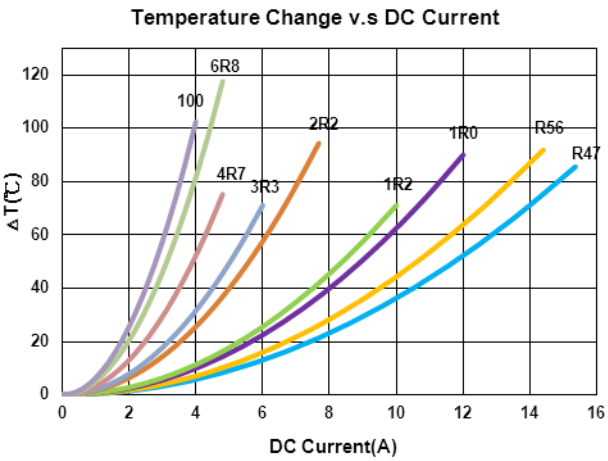
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
BMMN000505306R8MX1	6.8	20	100	115(100)	3.2(3.7)	3(3.5)	6R8

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

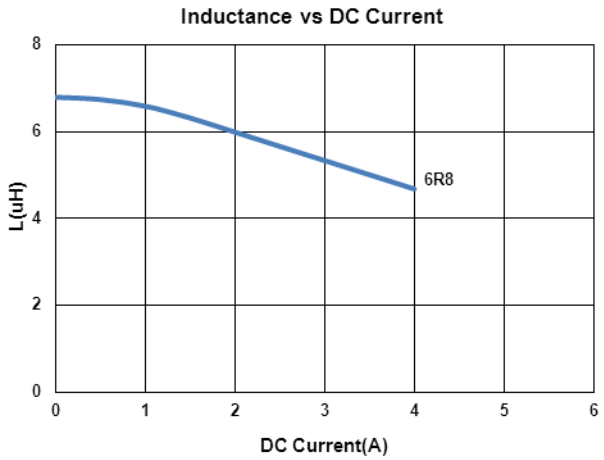
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

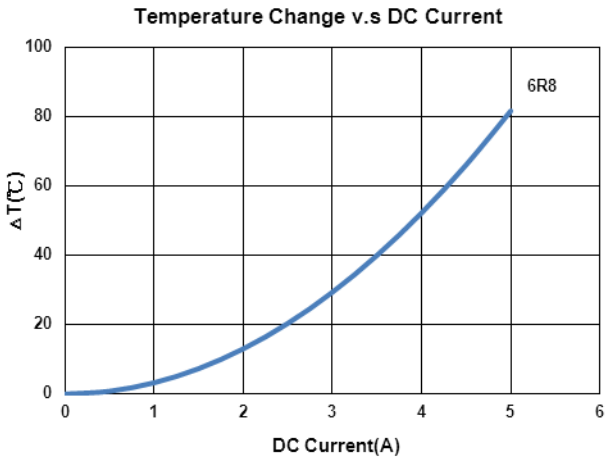
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMN000505306R8MX2	6.8	20	100	100(96)	3	3	6R8

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

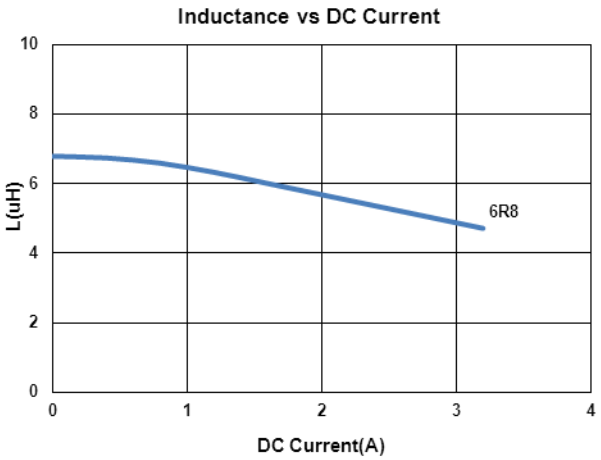
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

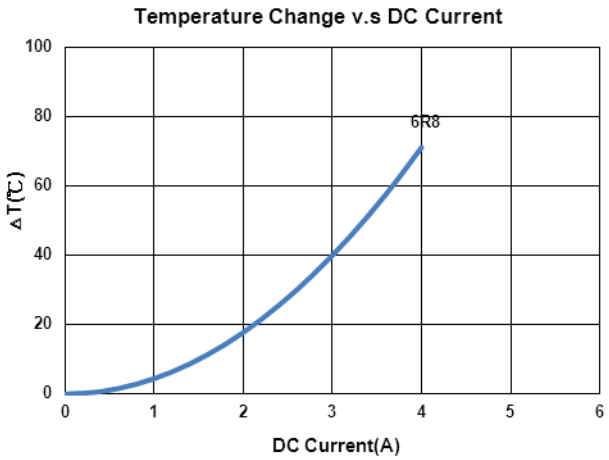
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMN00060615R56MX2	0.56	20	100	11(9.5)	14	9	R56
BMMN00060615R68MX2	0.68	20	100	12(10.5)	12	8.5	R68
BMMN00060615R82MX2	0.82	20	100	17(15)	10	7	R82
BMMN000606151R0MX2	1.0	20	100	21(18.5)	9	5.5	1R0
BMMN000606151R2MX2	1.2	20	100	30(25)	8.5	5.4	1R2
BMMN000606152R2MX2	2.2	20	100	50(43)	6	3.5	2R2
BMMN000606153R3MX2	3.3	20	100	63(54)	5.5	3.3	3R3

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

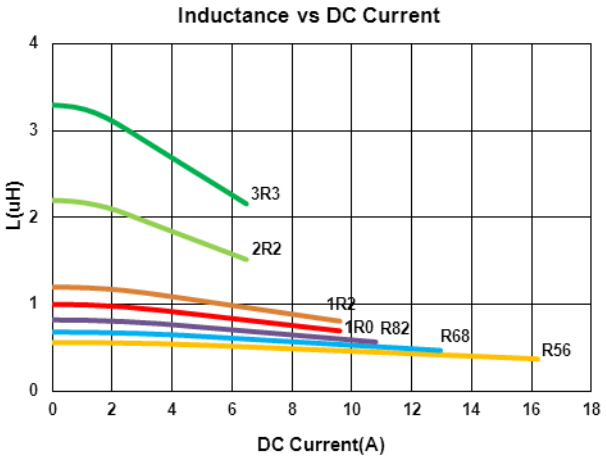
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

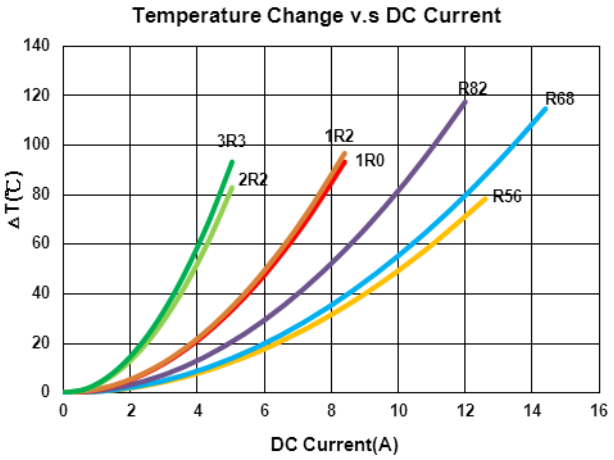
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
BMMN00060618R18MX2	0.18	20	100	3.6(3.1)	35(41)	17(20)	R18

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
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- Measure Equipment：

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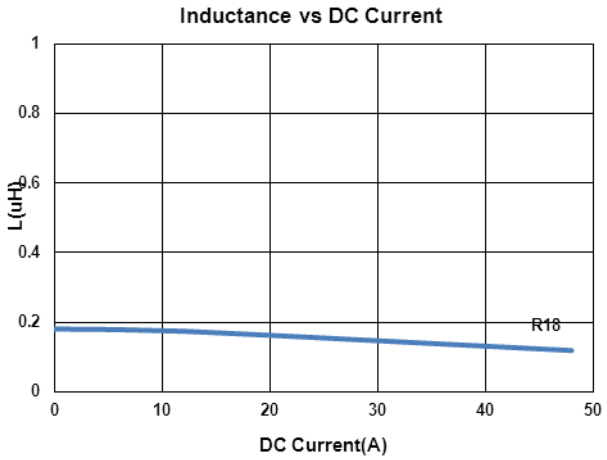
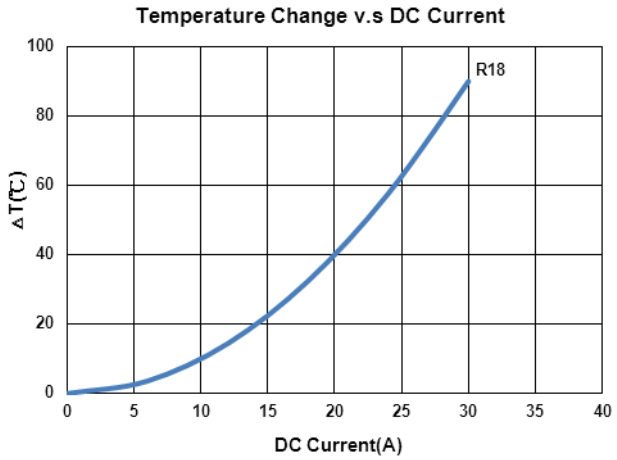
  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
BMMN000606301R0MX1	1.0	20	100	7.25(6.6)	13.5(16.5)	11.2(13)	1R0
BMMN000606303R3MX1	3.3	20	100	22(17.9)	8.5(9.6)	6.2(7.2)	3R3
BMMN000606304R7MX1	4.7	20	100	33(27.9)	5.5(6.55)	5.5(6.0)	4R7

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

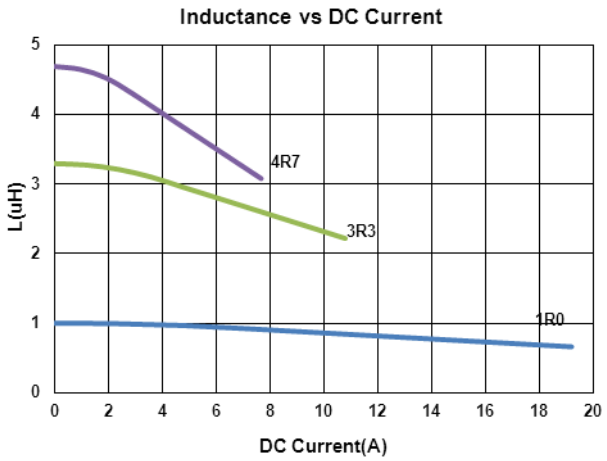
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

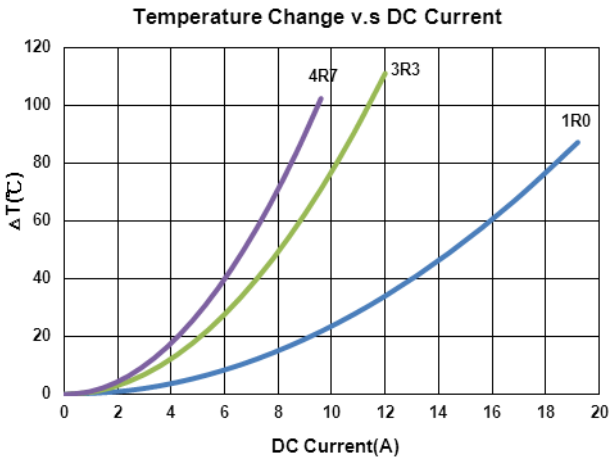
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
BMMN001010201R0MX2	1.0	20	100	10.4(9.0)	16(20)	11(12)	1R0

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
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- Measure Equipment：

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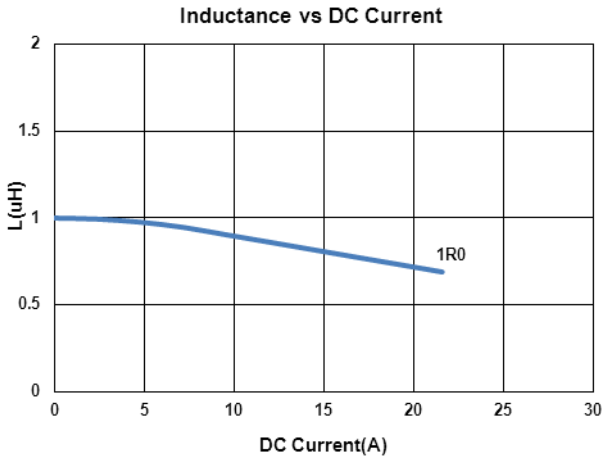
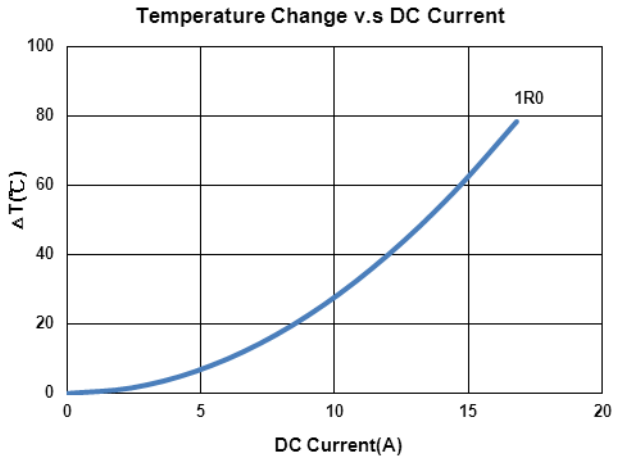
  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
BMMN001010301R2MX1	1.2	20	100	15.2(12.5)	20(24)	9.5(10.5)	1R2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

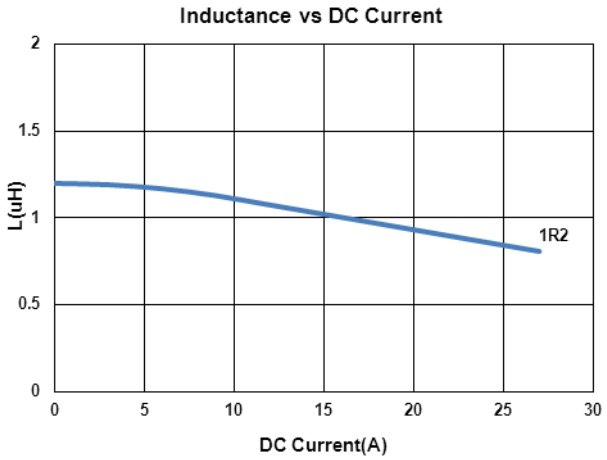
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

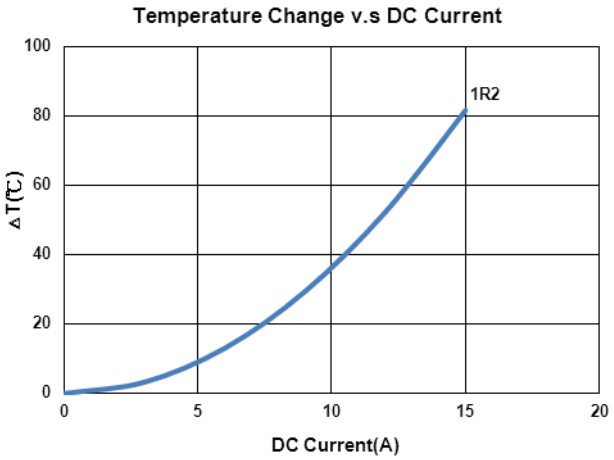
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMN00101030220MX2	22	20	100	99(90)	5.0	3.0	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

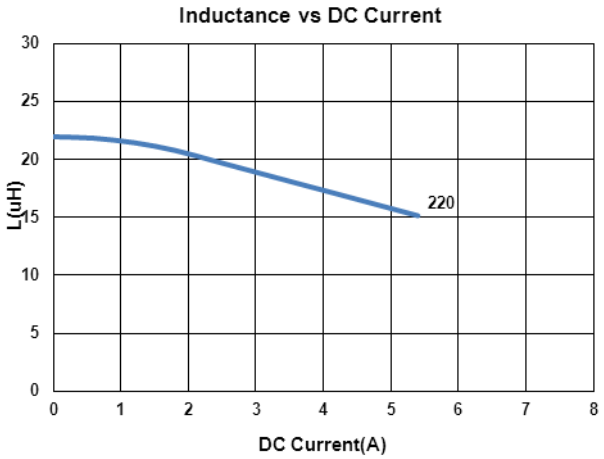
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

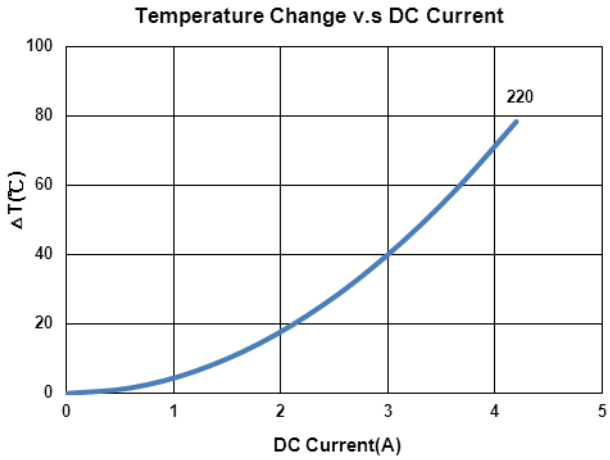
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
BMMN001010402R2MX1	2.2	20	100	7(6)	16(20)	11(12)	2R2
BMMN001010403R3MX1	3.3	20	100	12(10.5)	14(16.2)	9(10)	3R3

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
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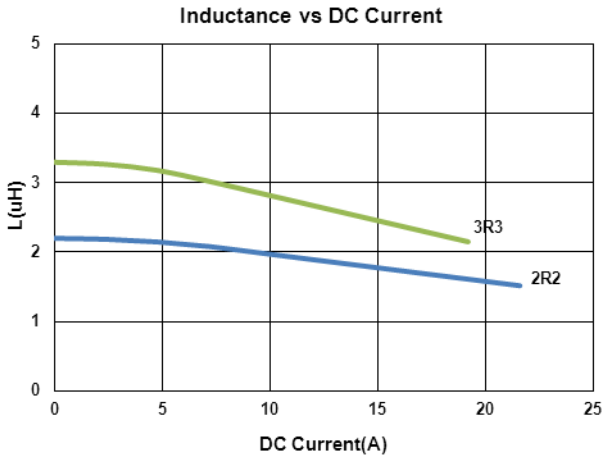
- Measure Equipment：

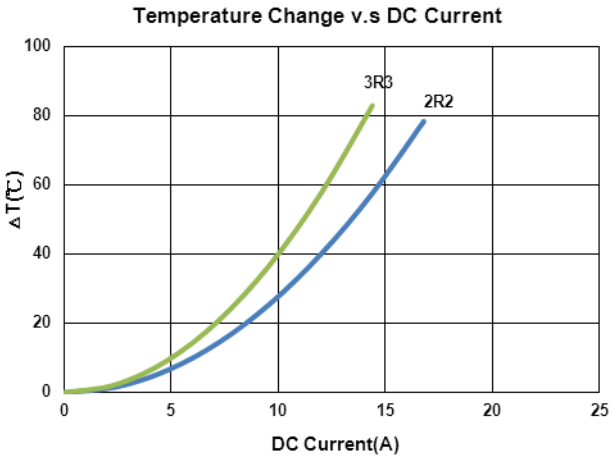
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMN00101040220MX2	22	20	100	66(60)	5.5	5.0	220
BMMN00101040330MX2	33	20	100	92(85)	5.0	4.4	330
BMMN00101040470MX2	47	20	100	145(130)	3.5	3.3	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
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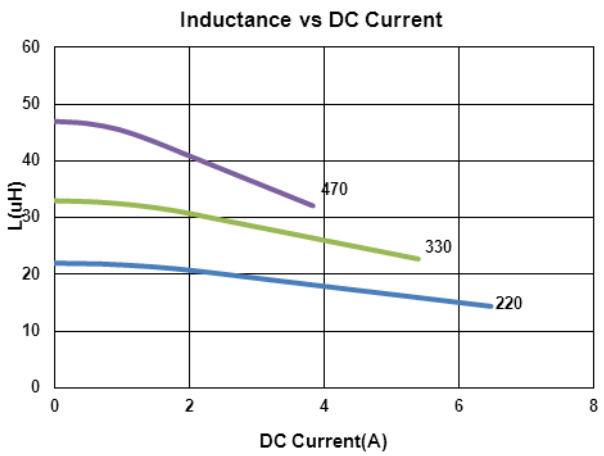
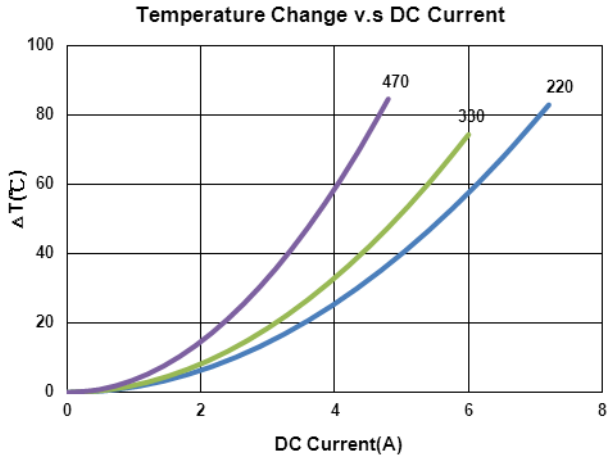
  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
BMMN00131350R82MX1	0.82	20	100	2.0(1.7)	55(65)	28(31)	R82
BMMN001313501R0MX1	1.0	20	100	2.5(2.05)	50(58)	26(29)	1R0
BMMN001313502R2MX1	2.2	20	100	5.2(4.5)	32(36)	19(20)	2R2
BMMN001313503R3MX1	3.3	20	100	8.6(7.5)	28(33)	14(15)	3R3

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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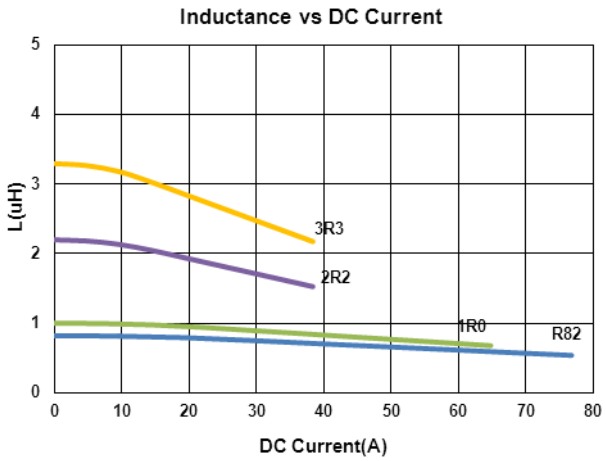

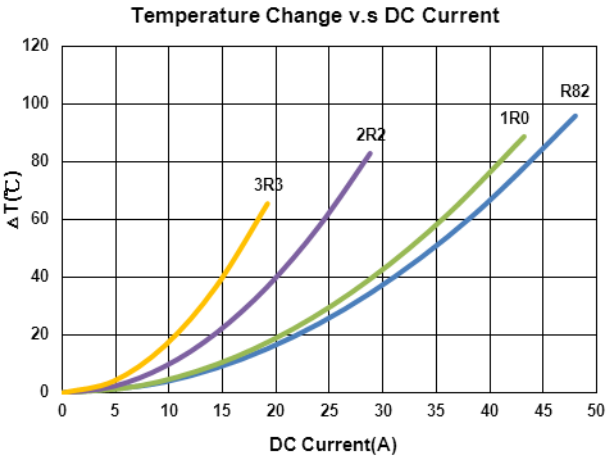

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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMN00131360100MX2	10	20	100	20.7(18)	12.5	10	100
BMMN00131360180MX2	18	20	100	35(30)	8	5	180

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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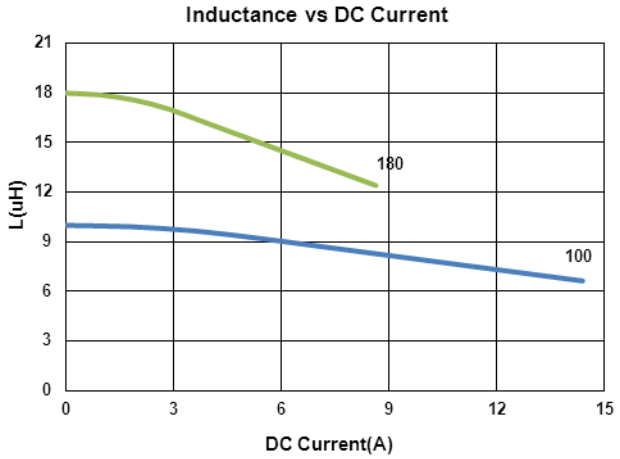
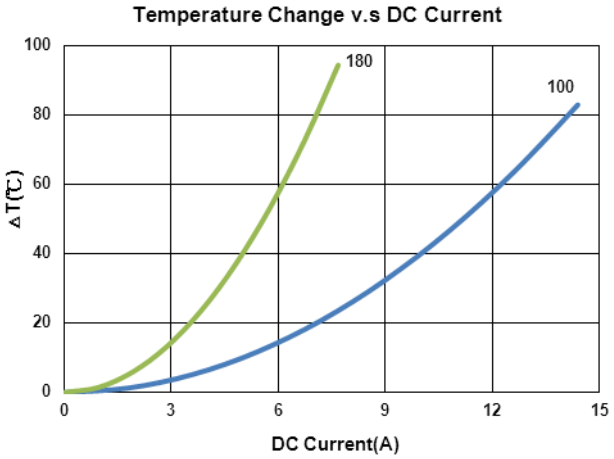
Test Instruments：WK3260B Impedance / Material Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMN001313651R0MX2	1.0	20	100	2.3(1.9)	50	28	1R0

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

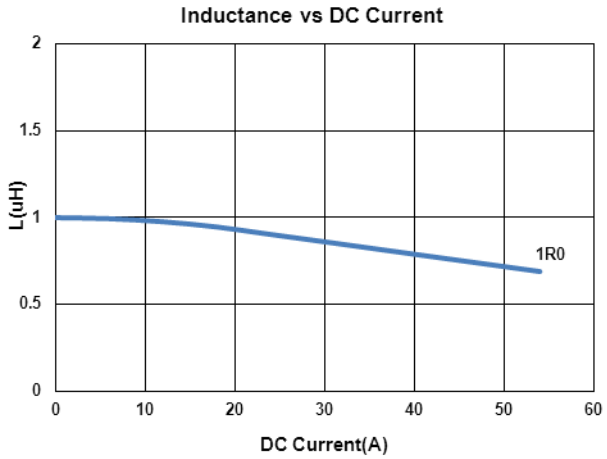
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

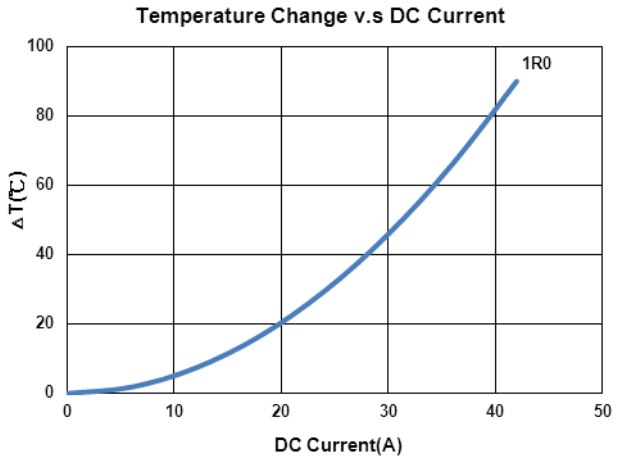
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
BMMN001717702R2MX1	2.2	20	100	2.5(2.1)	33(38)	30(37)	2R2
BMMN001717706R8MX1	6.8	20	100	7.5(6.5)	22(25)	19(21)	6R8

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
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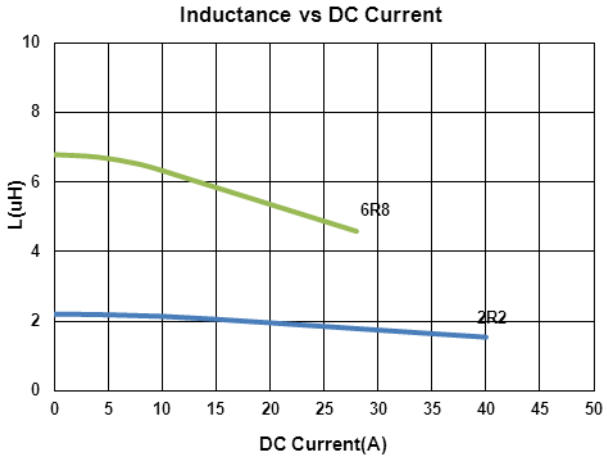
- Measure Equipment：

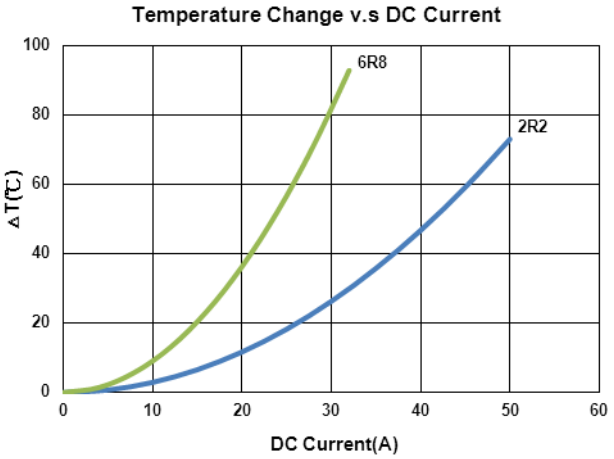
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMN00171770100MX2	10	20	100	10(9.3)	18	14	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

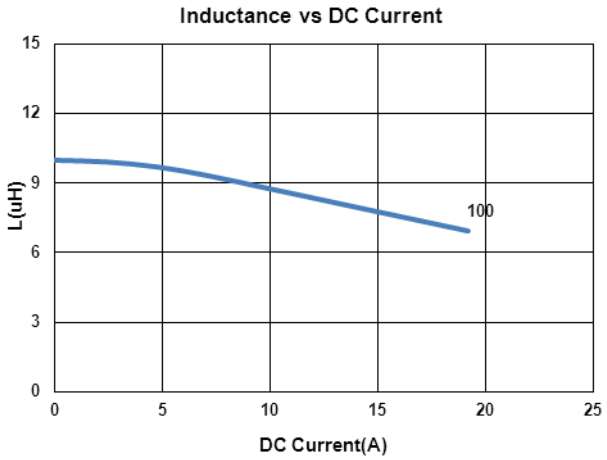
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

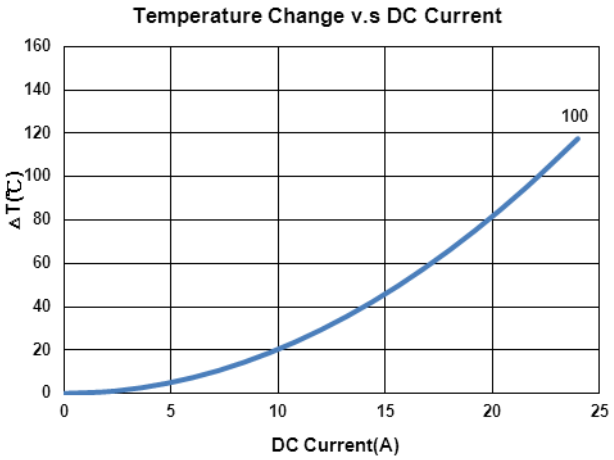
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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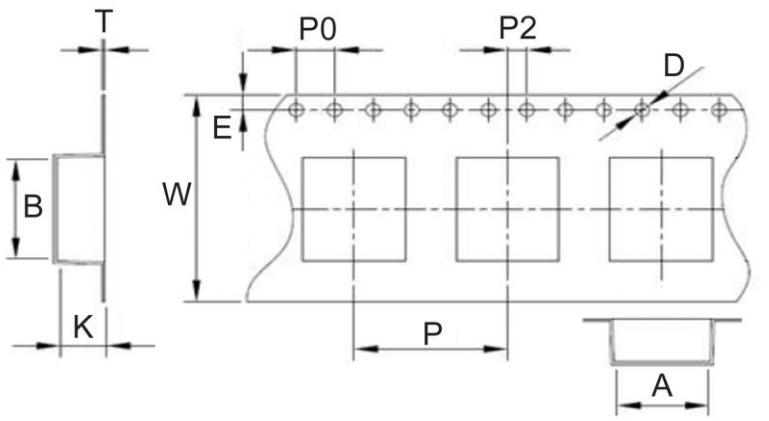
Pulse a YAGEO company

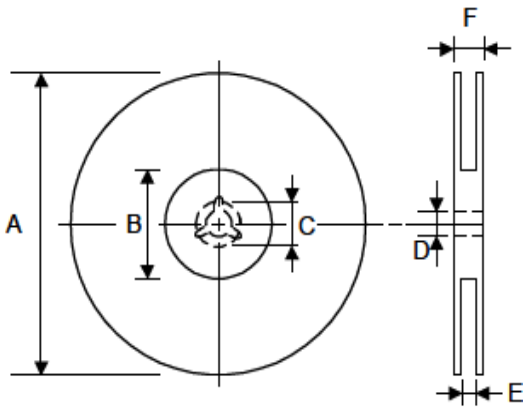
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions										Reel Dimensions						Quantity
	A	B	K	T	D	E	W	P	P0	P2	A	B	C	D	E	F	PCS / REEL
BMMN00040412	4.5	4.9	1.7	0.35	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	2000
BMMN00040420	4.5	4.9	2.4	0.35	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	2000
BMMN00050512	5.4	5.8	1.4	0.3	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	1000
BMMN00050515	5.4	5.8	1.95	0.3	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	1000
BMMN00050518	5.4	5.8	1.95	0.3	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	1000
BMMN00050530	5.0	5.4	3.2	0.35	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	1000
BMMN00060615	6.9	7.5	2.1	0.3	1.5	1.75	16	12	4	2	330	100	21.5	13	16.4	21.4	1000
BMMN00060618	6.9	7.5	2.1	0.3	1.5	1.75	16	12	4	2	330	100	21.5	13	16.4	21.4	1000
BMMN00060630	6.9	7.6	3.4	0.35	1.5	1.75	16	12	4	2	330	100	21.5	13	16.4	21.4	1000
BMMN00101020	10.4	11.5	2.8	0.35	1.5	1.75	24	16	4	2	330	100	21.5	13	24.2	29.2	500
BMMN00101030	10.4	11.5	3.4	0.35	1.5	1.75	24	16	4	2	330	100	21.5	13	24.2	29.2	500
BMMN00101040	10.4	11.5	4.5	0.35	1.5	1.75	24	16	4	2	330	100	21.5	13	24.2	29.2	500
BMMN00131350	13.4	14	5.4	0.4	1.5	1.75	24	16	4	2	330	100	21.5	13	24.2	29.2	250
BMMN00131360	13.2	14.4	6.3	0.4	1.5	1.75	24	16	4	2	330	100	21.5	13	24.2	29.2	250
BMMN00131365	13.4	14.1	6.8	0.4	1.5	1.75	24	16	4	2	330	100	21.5	13	24.2	29.2	250
BMMN00171770	17.45	18.5	7.8	0.5	1.5	1.75	32	24	4	2	330	100	21.5	13	32	37	100

BMMS Series

BMMS Series is designed for low profile type with low RDC and ultra large current. Its molded magnetic shielded type is suitable for high-density mounting and ultra low buzz noise. Soldering conditions can be easily confirmed when mounting onto the board. This series also provides customers with embossed carrier type packaging for automatic mounting machine.

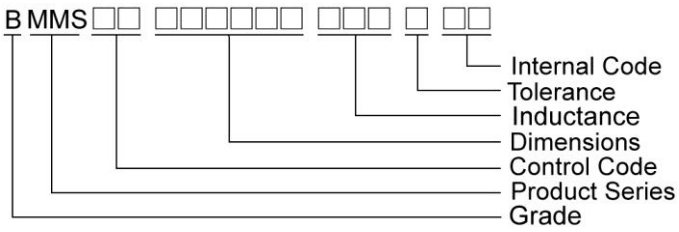
Features

- RoHS, Halogen Free and REACH Compliance
- Low resistance and high current rating
- Magnetic core made by high performance magnetic powder

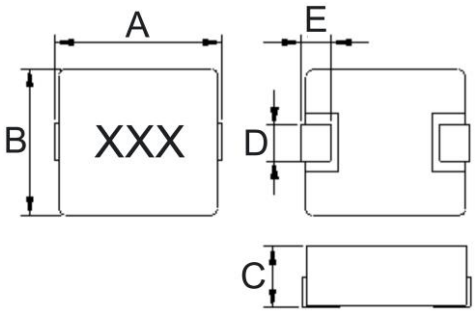
Applications

- Laptop and desktop applications
- High current power supplies
- PMIC
- DC/DC converters

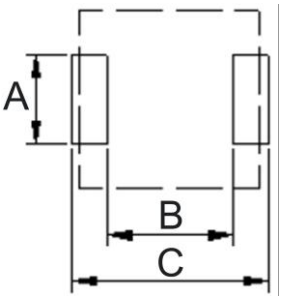
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	E
BMMS00040412	4.45±0.25	4.06±0.25	1.2Max	2.0±0.3	0.76±0.3
BMMS00060630	6.95±0.35	6.60±0.20	3.0Max	3.0±0.3	1.60±0.3
BMMS00101040	11.5Max	10.0±0.30	4.0Max	3.0±0.5	2.00±0.5
BMMS00131360	14.2Max	12.6±0.20	6.0Max	3.2±0.3	2.30±0.3

Dimensions in mm

TYPE	A	B	C
BMMS00040412	2.5	2.5	5.2
BMMS00060630	3.5	3.7	8.4
BMMS00101040	4.1	5.4	13.6
BMMS00131360	5.5	8.0	14.5

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMS00040412R68MX2	0.68	20	100	36(32)	6	4.5	R68
BMMS000404124R7MX2	1.0	20	100	195(175)	2.8	1.8	4R7

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

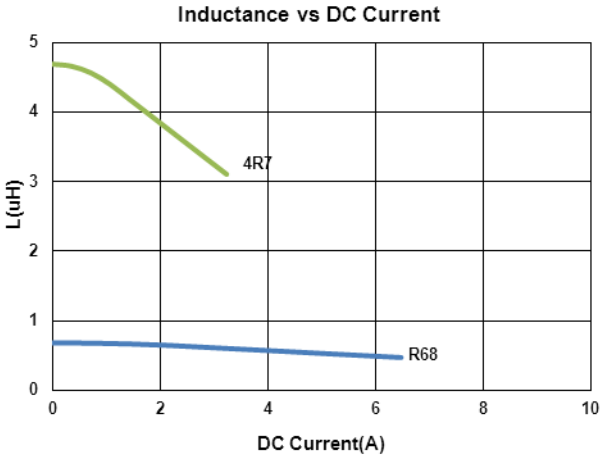
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

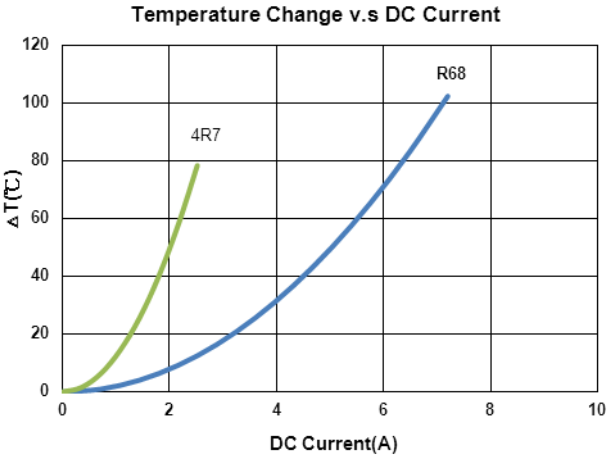
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMS00060630R47MX2	0.47	20	100	4.1(3.5)	20	18	R47
BMMS000606301R0MX2	1.0	20	100	7.4(6.7)	15	12	1R0
BMMS000606302R2MX2	2.2	20	100	15(13.5)	10	8	2R2
BMMS000606306R8MX2	6.8	20	100	50(43.9)	6	4.5	6R8

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

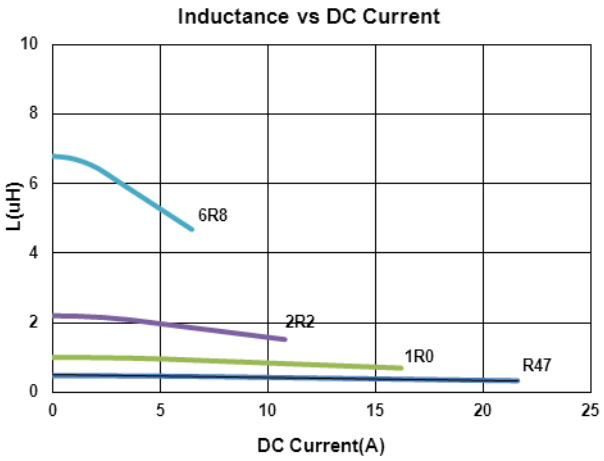
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

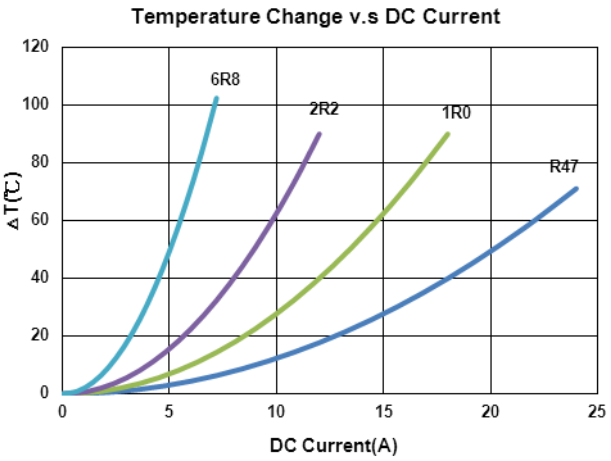
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMS001010408R2MX2	8.2	20	100	27(25)	9	6	8R2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

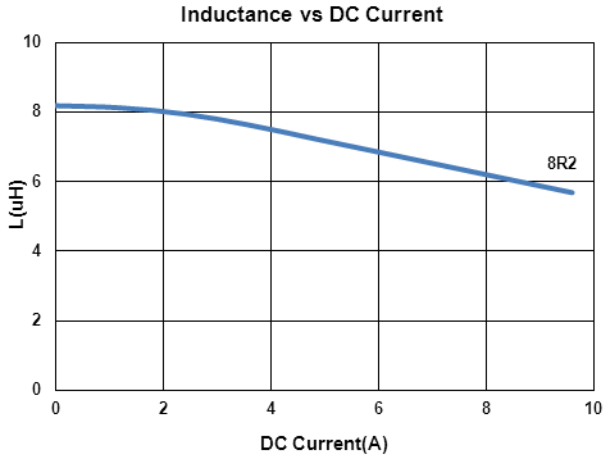
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

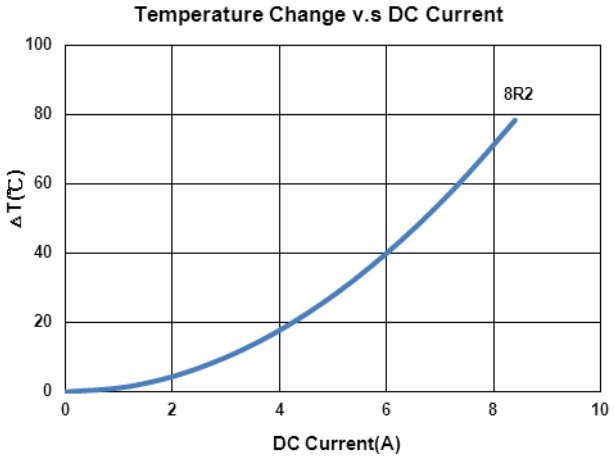
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMS00131360120MX2	12	20	100	23(20)	10	7	120
BMMS00131360150MX2	15	20	100	29(25)	9	6	150
BMMS00131360220MX2	22	20	100	39.5(34)	7.5	5	220
BMMS00131360330MX2	33	20	100	75(65)	6	4	330
BMMS00131360470MX2	47	20	100	90(80)	5.5	3.5	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

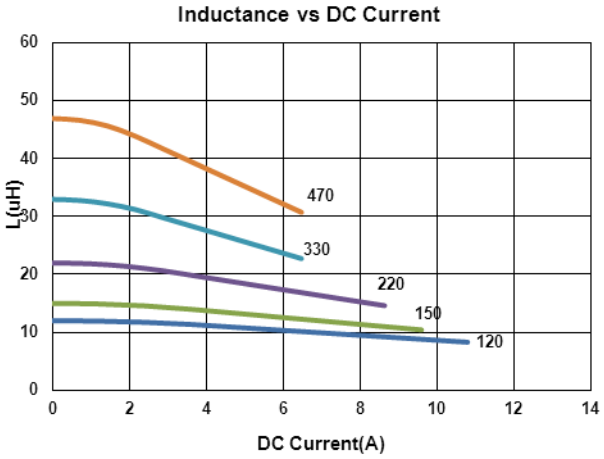
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

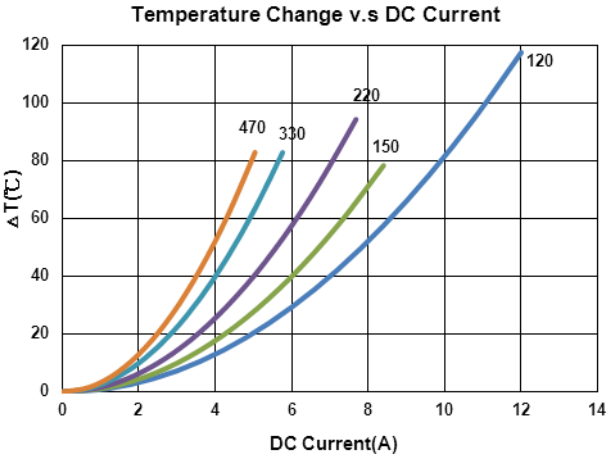
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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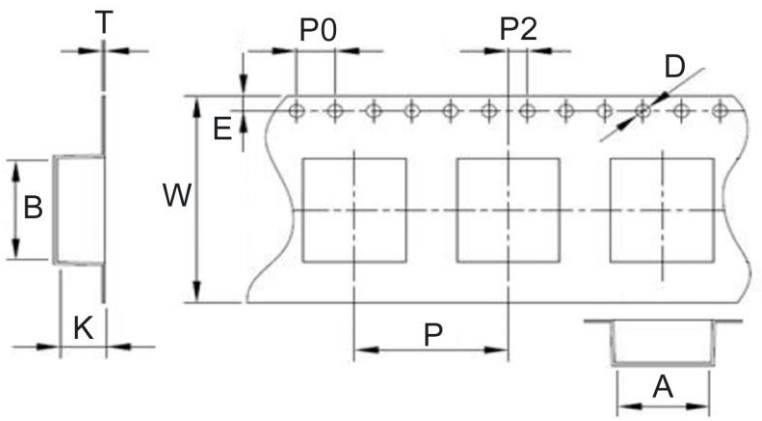
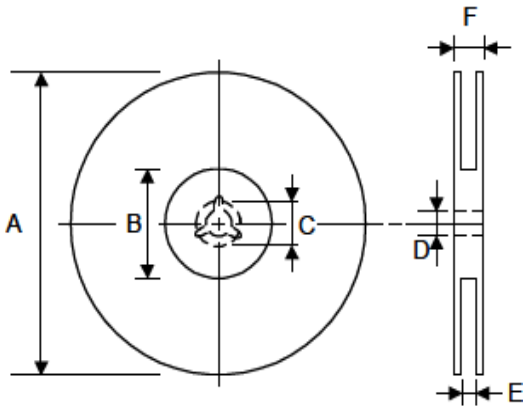
Packaging Specifications

Tape Dimensions



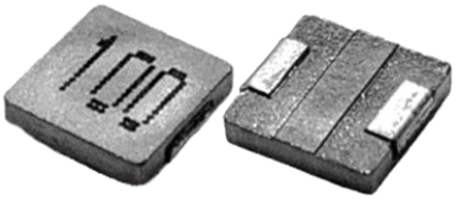
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions										Reel Dimensions						Quantity
	A	B	K	T	D	E	W	P	P0	P2	A	B	C	D	E	F	PCS / REEL
BMNN00040420	4.3	4.4	2.4	0.35	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	2000

BMNI Series



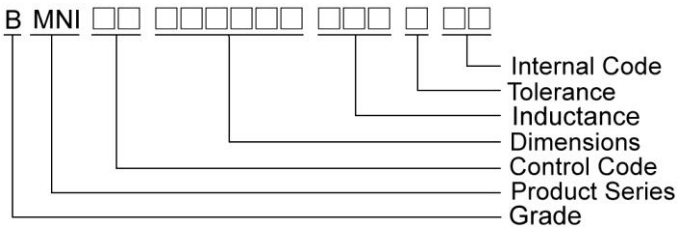
Features

- Low profile molded power inductor
- Low DC resistance and high rating current
- Low profile for limited height application e.g., LED driver
- RoHS compliant, halogen free

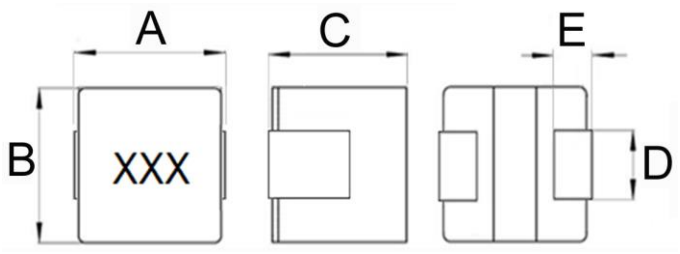
Applications

- Laptop, LCD, LED driver
- Limited height application
- DC to DC boost convertor

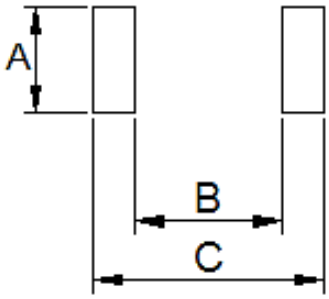
Product Identification



Shape and Dimensions



Recommended Pattern



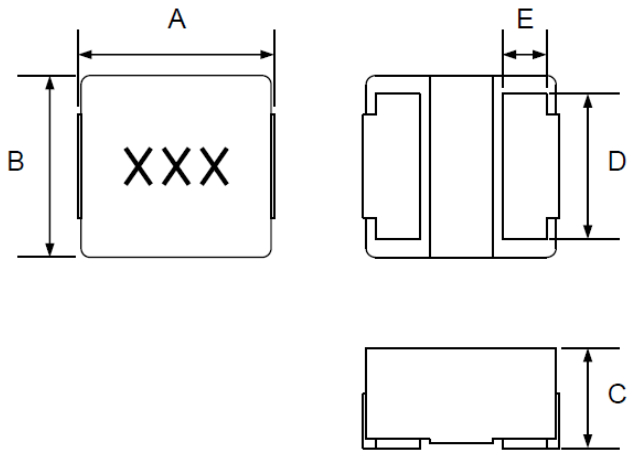
Dimensions in mm

TYPE	A	B	C	D	E
BMNI00040410	4.1±0.2	4.1±0.2	0.8±0.2	1.8±0.2	0.8±0.2

Dimensions in mm

TYPE	A	B	C
BMNI00040410	**2.0**	**2.2**	**4.4**

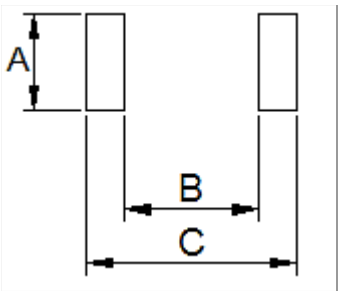
Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D	E
BMNI00040431-XH	4.0±0.3	4.0±0.3	3.1Max	3.4±0.2	1.0±0.4

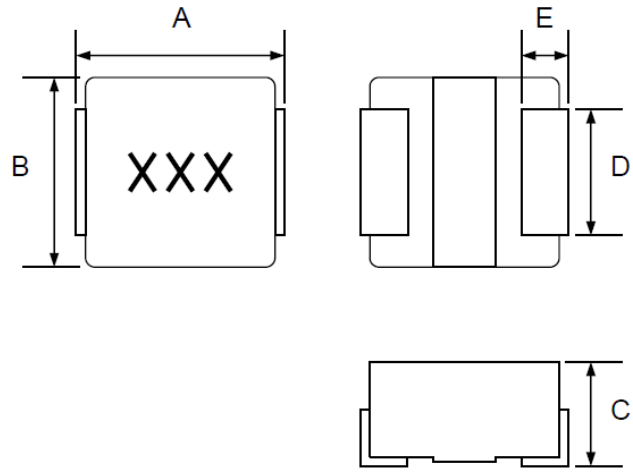
Recommended Pattern



Dimensions in mm

TYPE	A	B	C
BMNI00040431-XH	3.7	1.39	4.5

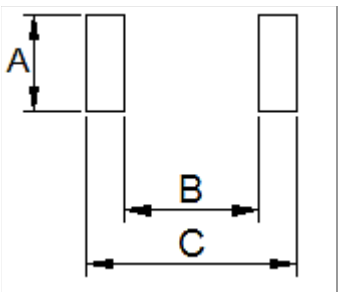
Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D	E
BMNI00060631-XH	6.36±0.3	6.56±0.3	3.1Max	4.7±0.2	1.55±0.2
BMNI00060632-XH	6.36±0.3	6.56±0.3	3.2Max	4.7±0.2	1.55±0.2

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
BMNI00060631-XH	5.0	2.61	6.7
BMNI00060632-XH	5.0	2.61	6.7

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMNI00040410100MQX	10	20	100	330(280)	1.75	16.5	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

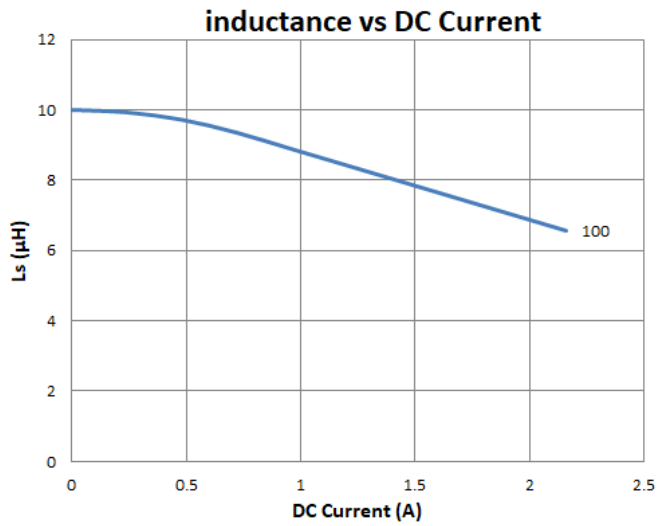
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

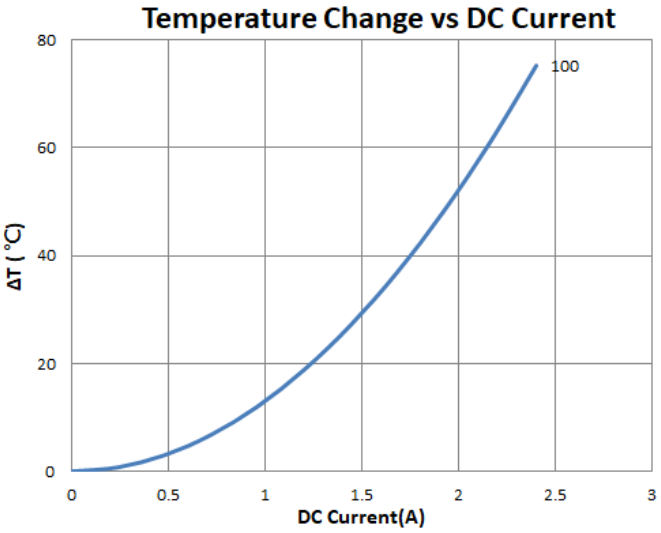
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMNI000404316R8MXH	6.8	20	100	74.1(67.4)	3.6	3.9	6R8

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

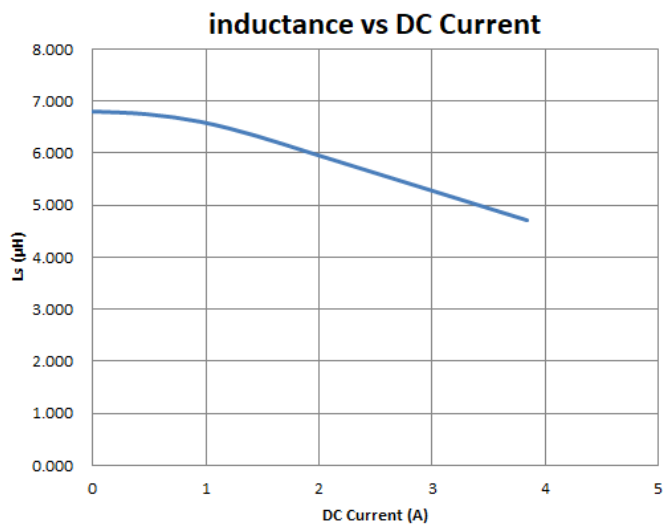
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

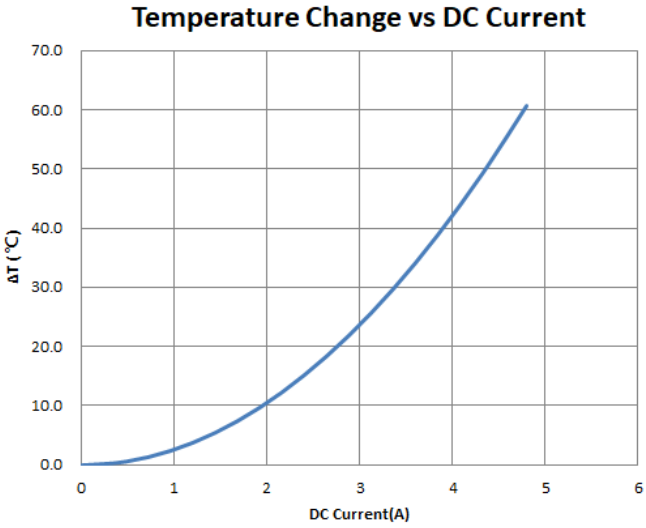
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer



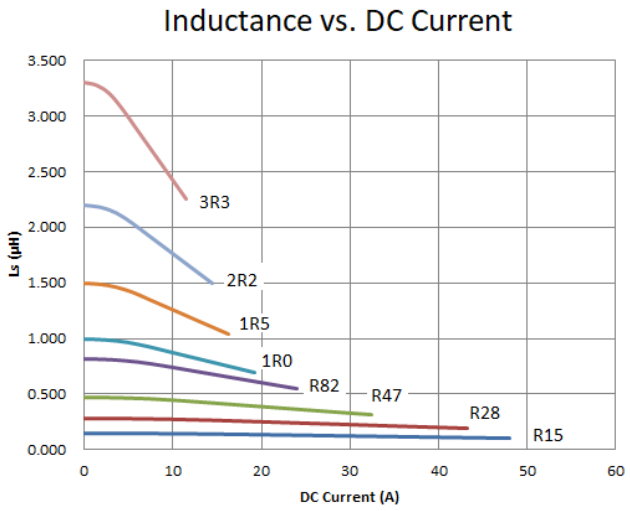


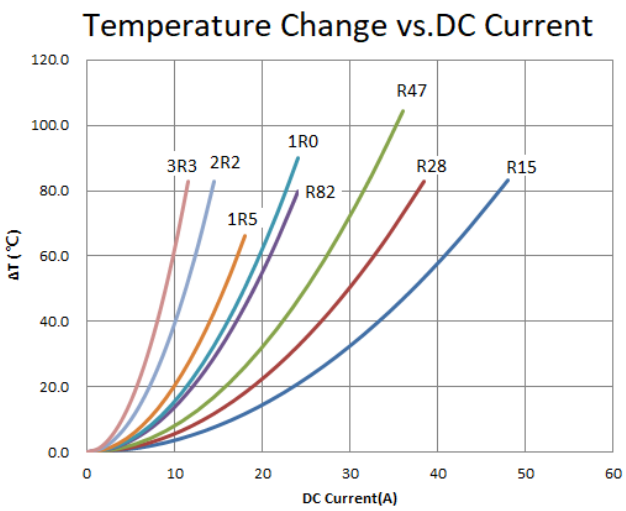
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ	Irms (A)Typ	Marking
BMNI00060632R15MXH	0.15	20	100/0.25V	1.49(1.35)	45	33.3	R15
BMNI00060632R28MXH	0.28	20	100/0.25V	2.35(2.1)	38	26.7	R28
BMNI00060632R47MXH	0.47	20	100/0.25V	3.31(3.01)	28	22.3	R47
BMNI00060632R82MXH	0.82	20	100/0.25V	5.6(5.09)	21	16	R82
BMNI000606321R0MXH	1.0	20	100/0.25V	6.95(6.32)	18	16	1R0
BMNI000606311R5MXH	1.5	20	100/0.25V	10.52(9.57)	15	14	1R5
BMNI000606312R2MXH	2.2	20	100/0.25V	13.97(12.7)	13	10	2R2
BMNI000606313R3MXH	3.3	20	100/0.25V	20.81(19.92)	10.5	8	3R3

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

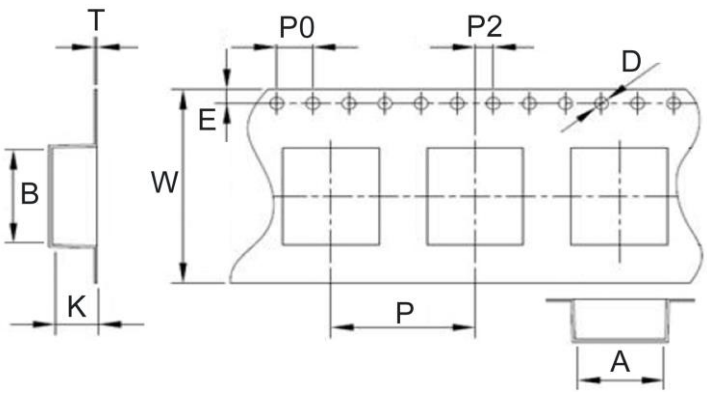
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current



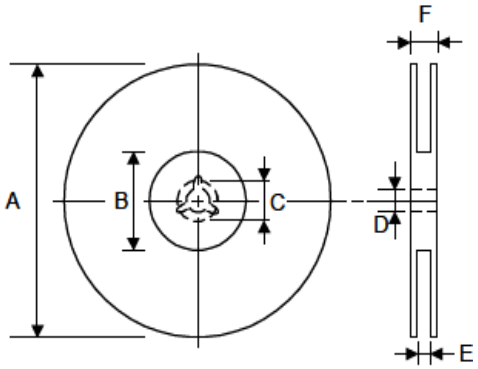


Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions										Reel Dimensions						Quantity
	A	B	K	T	D	E	W	P	P0	P2	A	B	C	D	E	F	PCS / REEL
BMNI00040410	4.3	4.4	1.6	0.35	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	2000
BMNI00040431	4.3	4.4	3.5	0.35	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	2000
BMNI00060631	6.8	6.56	3.4	0.35	1.5	1.75	12	8	4	2	330	100	21.5	13	16.4	21.4	1000
BMNI00060632	6.8	6.56	3.4	0.35	1.5	1.75	12	8	4	2	330	100	21.5	13	16.4	21.4	1000

BWMR Series

BWMR series, metal alloy wire wound power inductor, its rated current could be increased up to 35% compare to ferrite base power inductor.

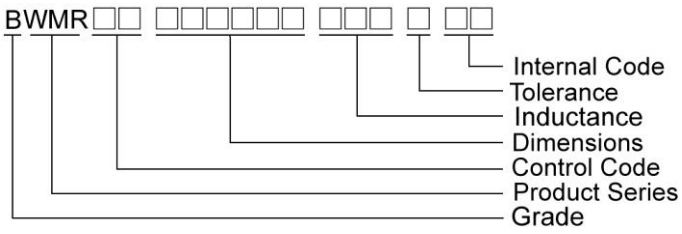
Features

- RoHS, Halogen Free and REACH Compliance
- Constructure Low RDC and high rated current.
- Wide inductance range
- Shielded and miniature package design

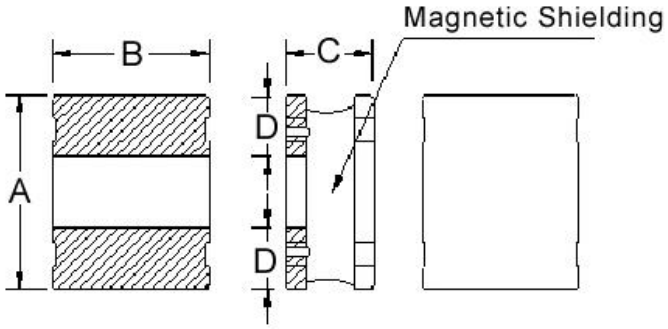
Applications

- Smartphones, tablets and wearable devices
- DSC, camcorders
- DC/DC converters

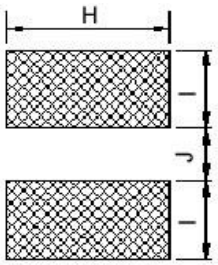
Product Identification



Shape and Dimensions



Recommended Pattern

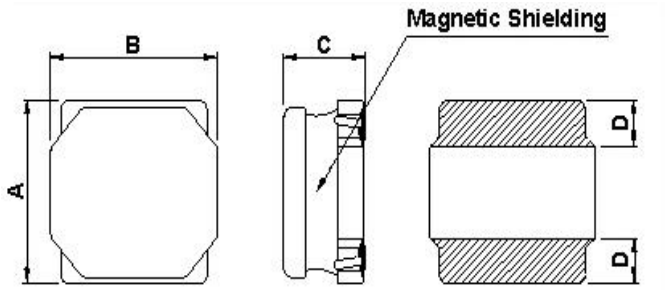


Dimensions in mm

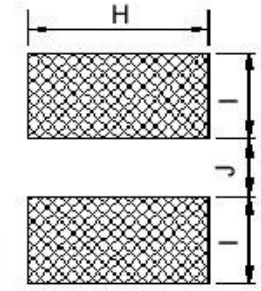
TYPE	A	B	C	D	H	I	J
BWMR00201610	2.0±0.2	1.6±0.2	1.0 Max	0.65	1.7	0.7	0.7
BWMR00201612	2.0±0.2	1.6±0.2	1.2 Max	0.50	1.7	0.6	0.9
BWMR00252010	2.5±0.2	2.0±0.2	1.0 Max	0.85	2.1	0.9	0.8
BWMR00252012	2.5±0.2	2.0±0.2	1.2 Max	0.85	2.1	0.9	0.8
BWMR00302712	3.0±0.2	2.7±0.2	1.2 Max	1.00	2.9	1.1	1.0

Sealed Power Inductors - BWMR Series

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	H	I	J
BWMR00404012	4.0±0.2	4.0±0.2	1.2 Max	1.0	3.7	1.1	2.0
BWMR00404020	4.0±0.2	4.0±0.2	2.0±0.2	1.0	3.7	1.1	1.9

Electrical Characteristics

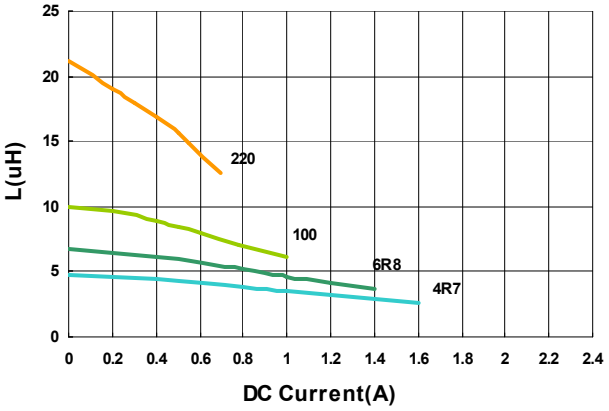
Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	SRF (MHz) Min	RDC(mΩ) (Max) Typ	Isat (A) (Max) Typ	Irms (A) (Max) Typ
BWMR002016101R0□00	1.0	1	20, 30	64	71.0(85.0)	2.90(2.30)	2.50(2.30)
BWMR002016101R5□00	1.5	1	20, 30	49	103(124)	2.20(1.80)	2.00(1.80)
BWMR002016102R2□00	2.2	1	20, 30	39	145(174)	1.90(1.50)	1.70(1.50)
BWMR002016104R7□00	4.7	1	20, 30	25	370(308)	1.00(1.20)	0.86(0.96)
BWMR002016106R8□00	6.8	1	20, 30	19	526(438)	0.86(0.96)	0.73(0.82)
BWMR00201610100□00	10	1	20, 30	15	768(640)	0.70(0.78)	0.64(0.72)
BWMR00201610220□00	22	1	20, 30	9	1560(1300)	0.49(0.55)	0.40(0.45)

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

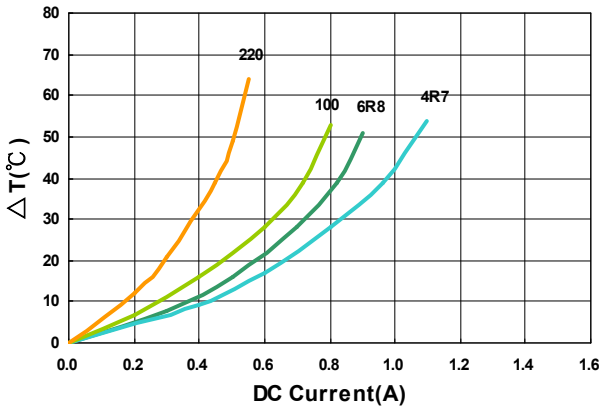
- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：Agilent 4285A+Agilent 42841A, or equivalent,1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent/HP4285A+Agilent 42841A
  SRF：HP4294A+16092A

Test Instruments：HP4285A Material/Impedance Analyzer

Inductance vs. DC Current



Temperature Change vs. DC Current



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Electrical Characteristics

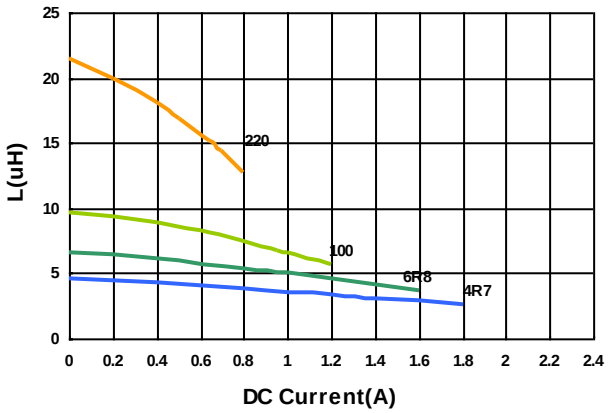
Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	SRF (MHz) Min	RDC(mΩ) (Max) Typ	Isat (A) (Max) Typ	Irms (A) (Max) Typ
BWMR002016121R0□00	1.0	1	20, 30	52	86(103)	2.50(2.00)	2.05(1.85)
BWMR002016121R5□00	1.5	1	20, 30	45	113(135)	2.10(1.60)	1.70(1.50)
BWMR002016122R2□00	2.2	1	20, 30	37	131(158)	1.80(1.40)	1.60(1.40)
BWMR002016123R3□00	3.3	1	20, 30	28	192(231)	1.50(1.30)	1.40(1.20)
BWMR00201612-4R7□00	4.7	1	20, 30	26	324(270)	1.20(1.40)	1.00(1.20)
BWMR00201612-6R8□00	6.8	1	20, 30	20	456(380)	1.00(1.20)	0.78(0.92)
BWMR00201612-100□00	10	1	20, 30	16	720(600)	0.85(0.95)	0.65(0.73)
BWMR00201612120□00	12	1	20, 30	14	745(894)	0.77(0.61)	0.71(0.62)
BWMR00201612150□00	15	1	20, 30	13	858(1029)	0.67(0.58)	0.68(0.58)
BWMR00201612-220□00	22	1	20, 30	10	1500(1250)	0.57(0.64)	0.41(0.46)
BWMR00201612101□00	100	1	20, 30	4	6400(7680)	0.26(0.21)	0.23(0.20)

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

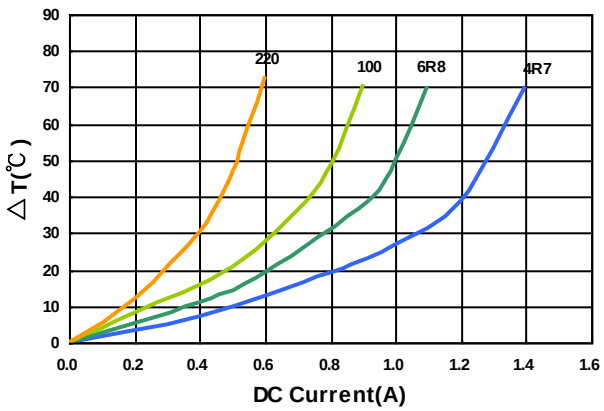
- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：Agilent 4285A+Agilent 42841A, or equivalent,1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent/HP4285A+Agilent 42841A
  SRF：HP4294A+16092A

Test Instruments：HP4285A Material/Impedance Analyzer

Inductance vs. DC Current



Temperature Change vs. DC Current



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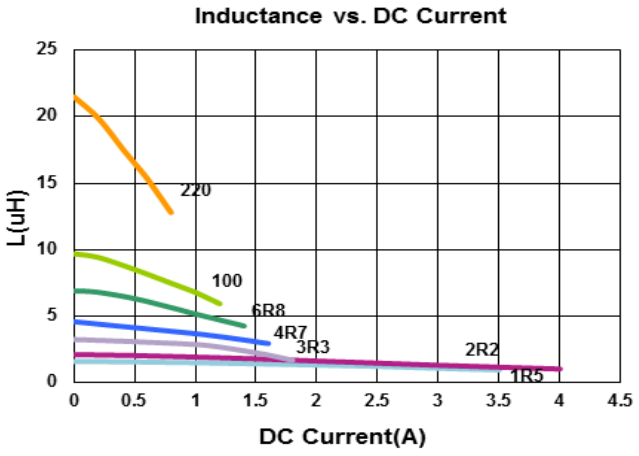
Electrical Characteristics

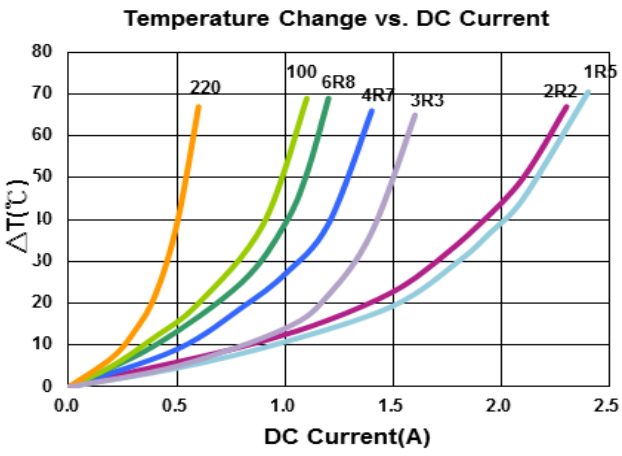
Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	SRF (MHz) Min	RDC(mΩ) (Max) Typ	Isat (A) (Max) Typ	Irms (A) (Max) Typ
BWMR00252010R68□00	0.68	1	20, 30	70	43.5(52.2)	4.20(3.30)	3.00(2.70)
BWMR002520101R0□00	1.0	1	20, 30	51	61.5(73.8)	3.70(3.00)	2.60(2.35)
BWMR002520101R5□00	1.5	1	20, 30	40	111.6(93)	2.20(2.80)	1.80(1.95)
BWMR002520102R2□00	2.2	1	20, 30	31	145(121)	1.90(2.30)	1.70(1.90)
BWMR002520103R3□00	3.3	1	20, 30	24	198(165)	1.40(1.60)	1.20(1.40)
BWMR002520104R7□00	4.7	1	20, 30	19	264(220)	1.30(1.40)	1.10(1.20)
BWMR002520106R8□00	6.8	1	20, 30	15	396(330)	1.00(1.10)	0.90(1.00)
BWMR00252010100□00	10	1	20, 30	12	500(435)	0.90(1.00)	0.80(0.90)
BWMR00252010220□00	22	1	20, 30	8	1260(1050)	0.56(0.63)	0.45(0.50)

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：Agilent 4285A+Agilent 42841A, or equivalent,1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent/HP4285A+Agilent 42841A
  SRF：HP4294A+16092A

Test Instruments：HP4285A Material/Impedance Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

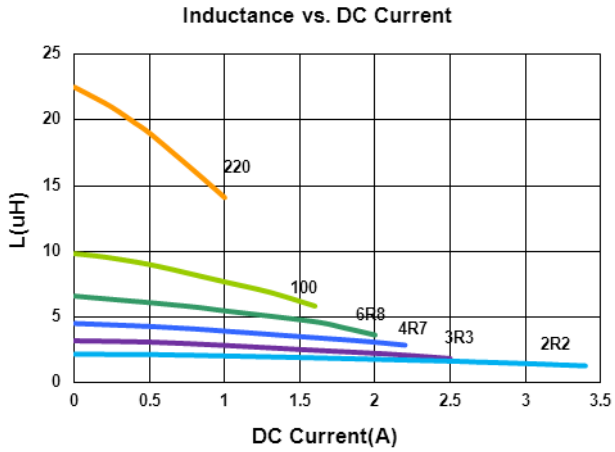
Electrical Characteristics

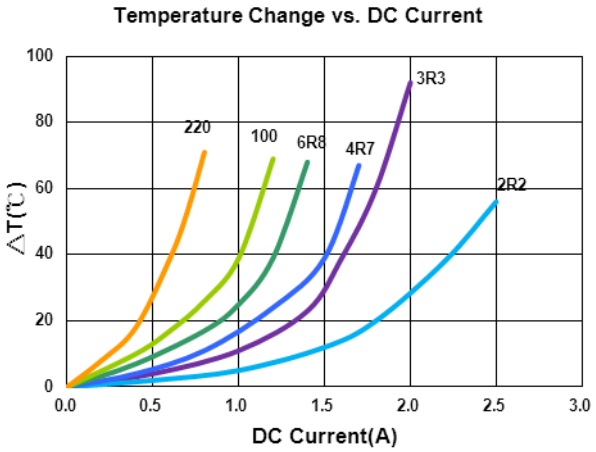
Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	SRF (MHz) Min	RDC(mΩ) (Max) Typ	Isat (A) (Max) Typ	Irms (A) (Max) Typ
BWMR00252012R24□00	0.24	1	20, 30	117	21.5(25.8)	7.70(6.20)	4.50(3.90)
BWMR00252012R33□00	0.33	1	20, 30	104	26.5(31.8)	6.60(5.30)	4.05(3.55)
BWMR00252012R47□00	0.47	1	20, 30	71	27.0(32.4)	5.50(5.00)	4.00(3.50)
BWMR00252012R68□00	0.68	1	20, 30	66	36.0(43.2)	4.20(3.50)	3.50(3.10)
BWMR002520121R0□00	1.0	1	20, 30	51	47.0(56.0)	4.00(3.80)	3.30(3.00)
BWMR002520121R5□00	1.5	1	20, 30	38	71.0(85.2)	3.10(2.60)	2.30(2.05)
BWMR002520122R2□00	2.2	1	20, 30	32	110(92)	2.40(2.70)	1.90(2.20)
BWMR002520123R3□00	3.3	1	20, 30	25	186(155)	1.80(2.10)	1.45(1.65)
BWMR002520124R7□00	4.7	1	20, 30	23	240(200)	1.70(1.90)	1.30(1.50)
BWMR002520126R5□00	6.5	1	20, 30	18	250(300)	1.60(1.30)	1.30(1.15)
BWMR002520126R8□00	6.8	1	20, 30	16	345(285)	1.30(1.60)	1.00(1.20)
BWMR00252012100□00	10	1	20, 30	14	480(400)	1.00(1.30)	0.85(1.00)
BWMR00252012150□00	15	1	20, 30	11	629(755)	0.85(0.75)	0.83(0.73)
BWMR00252012220□00	22	1	20, 30	8	1090(910)	0.74(0.83)	0.54(0.60)

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：Agilent 4285A+Agilent 42841A, or equivalent,1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent/HP4285A+Agilent 42841A
  SRF：HP4294A+16092A

Test Instruments：HP4285A Material/Impedance Analyzer





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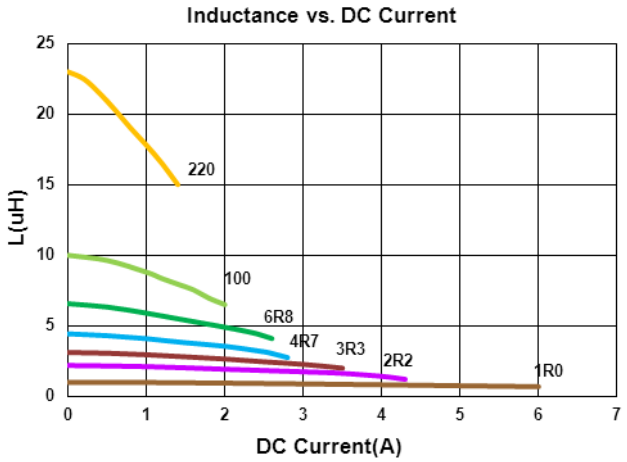
Electrical Characteristics

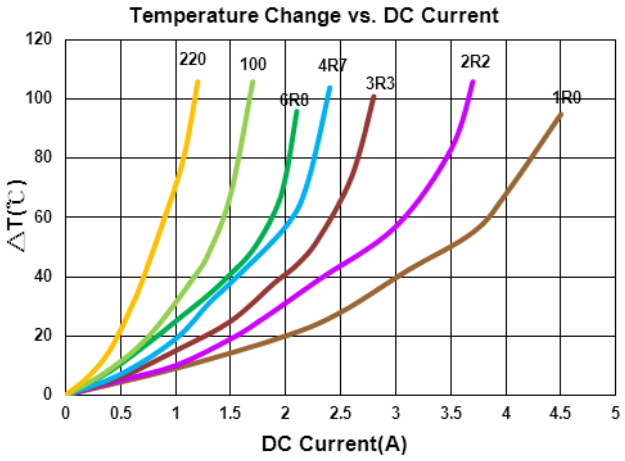
Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	SRF (MHz) Min	RDC(mΩ) (Max) Typ	Isat (A) (Max) Typ	Irms (A) (Max) Typ
BWMR003027121R0□00	1.0	1	20, 30	52	64(54)	4.8(5.4)	2.7(3.0)
BWMR003027122R2□00	2.2	1	20, 30	28	114(95)	3.3(3.7)	2.0(2.3)
BWMR003027123R3□00	3.3	1	20, 30	25	165(138)	2.7(3.0)	1.7(1.9)
BWMR003027124R7□00	4.7	1	20, 30	20	234(195)	2.2(2.5)	1.3(1.5)
BWMR003027126R8□00	6.8	1	20, 30	16	318(265)	1.8(2.1)	1.1(1.3)
BWMR00302712100□00	10	1	20, 30	12	444(370)	1.5(1.7)	1.0(1.15)
BWMR00302712220□00	22	1	20, 30	7	954(795)	1.0(1.2)	0.63(0.7)

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：Agilent 4285A+Agilent 42841A, or equivalent,1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent/HP4285A+Agilent 42841A
  SRF：HP4294A+16092A

Test Instruments：HP4285A Material/Impedance Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	SRF (MHz) Min	RDC(mΩ) (Max) Typ	Isat (A) (Max) Typ	Irms (A) (Max) Typ
BWMR004040121R0□0M	1.0	1	20, 30	60	67(80.4)	5.70(4.70)	2.65(2.40)
BWMR004040121R2□0M	1.2	1	20, 30	51	67(80.4)	4.80(3.70)	2.65(2.40)
BWMR004040121R5□0M	1.5	1	20, 30	42	77(92.4)	4.60(3.60)	2.50(2.30)
BWMR004040123R3□0M	3.3	1	20, 30	26	129(154.8)	3.00(2.40)	2.00(1.80)
BWMR004040124R7□0M	4.7	1	20, 30	18	154(184.8)	2.80(2.20)	1.75(1.60)
BWMR004040125R6□0M	5.6	1	20, 30	17	164(196.8)	2.40(1.90)	1.70(1.55)
BWMR004040126R8□0M	6.8	1	20, 30	15	181(217.2)	2.10(1.60)	1.65(1.50)
BWMR00404012100□0M	10	1	20, 30	12	246(295.2)	1.90(1.50)	1.45(1.39)
BWMR00404012150□0M	15	1	20, 30	11	496(595.2)	1.50(1.20)	1.08(0.96)
BWMR00404012220□0M	22	1	20, 30	9	598(717.6)	1.30(1.00)	0.86(0.75)
BWMR00404012330□0M	33	1	20, 30	7	885(1062)	1.00(0.85)	0.77(0.67)
BWMR00404012470□0M	47	1	20, 30	6	1160(1392)	0.94(0.74)	0.67(0.58)

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
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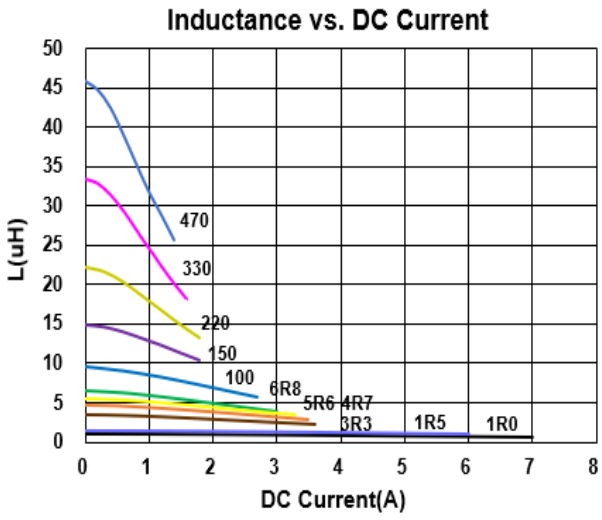
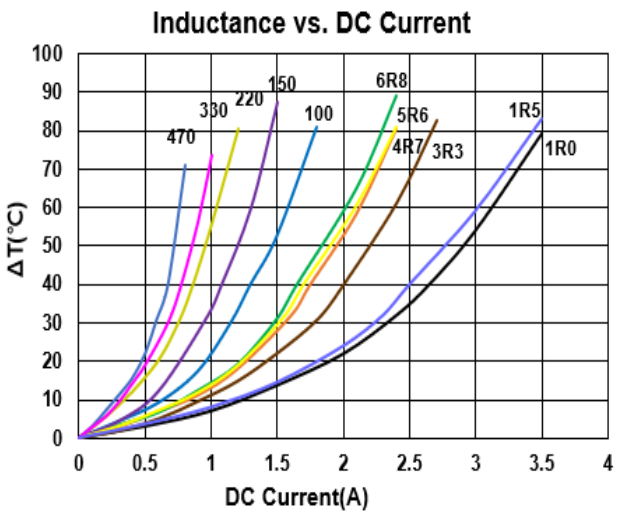
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent/HP4285A+Agilent 42841A
  SRF：HP4294A+16092A, or equivalent

Test Instruments：HP4285A Material/Impedance Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	SRF (MHz) Min	RDC(mΩ) Typ.(Max)	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)
BWMR00404020R60□00	0.6	1	20, 30	61	18(22)	11.5(9.50)	5.50(4.85)
BWMR004040201R0□00	1.0	1	20, 30	37	26(31)	10.0(8.00)	5.00(4.50)
BWMR004040201R5□00	1.5	1	20, 30	33	31(37.2)	7.30(5.90)	4.30(3.90)
BWMR004040202R2□00	2.2	1	20, 30	25	44.0(53.0)	7.20(5.80)	3.80(3.40)
BWMR004040203R3□00	3.3	1	20, 30	19	64.0(77.0)	6.00(4.80)	3.10(2.70)
BWMR004040204R7□00	4.7	1	20, 30	17	92.0(110)	4.60(3.70)	2.70(2.40)
BWMR004040206R8□00	6.8	1	20, 30	13	135(162)	4.00(3.20)	2.20(2.00)
BWMR00404020100□00	10	1	20, 30	11	175(210)	3.20(2.50)	2.00(1.80)
BWMR00404020150□00	15	1	20, 30	9	270(324)	2.50(2.00)	1.50(1.30)
BWMR00404020220□00	22	1	20, 30	7	425(510)	2.10(1.70)	1.30(1.10)
BWMR00404020330□00	33	1	20, 30	6	580(696)	1.40(1.10)	0.95(0.80)
BWMR00404020470□00	47	1	20, 30	5	838(1006)	1.20(0.95)	0.75(0.65)

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

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- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
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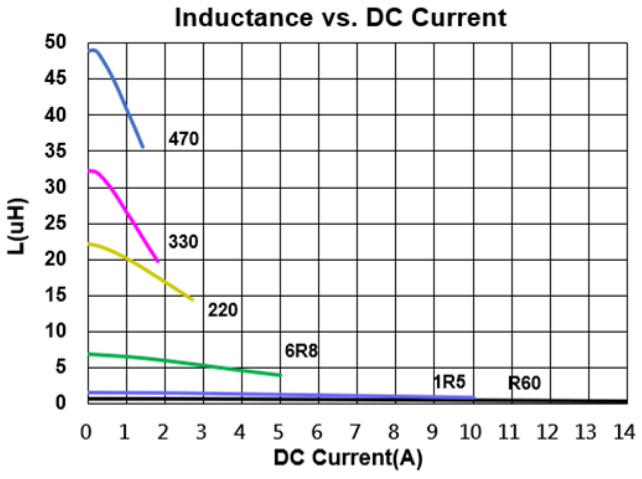
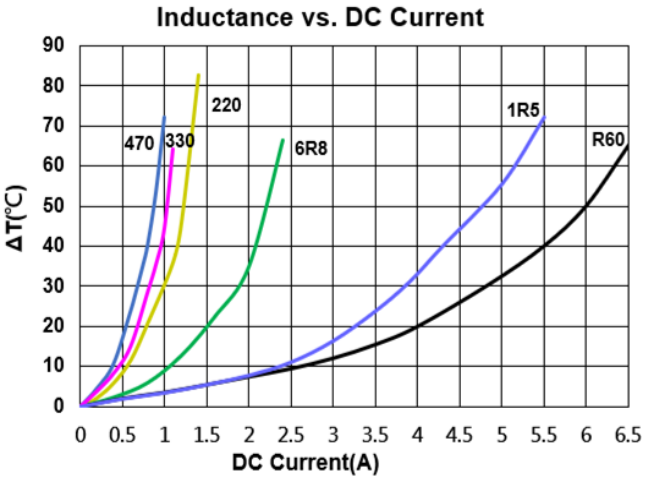
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent/HP4285A+Agilent 42841A
  SRF：HP4294A+16092A, or equivalent

Test Instruments：HP4285A Material/Impedance Analyzer





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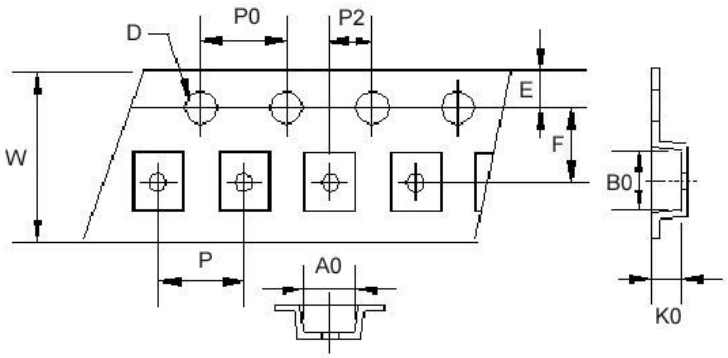
Pulse a YAGEO company

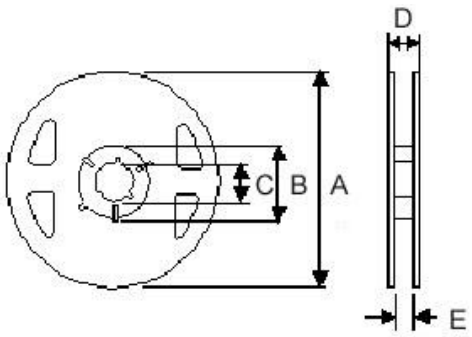
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



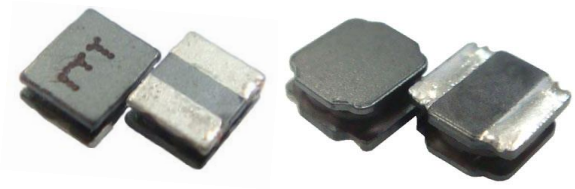
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions										Reel Dimensions					Quantity
	A0	B0	K0	D	E	F	W	P	P0	P2	A	B	C	D	E	PCS / Reel
BWMR00201610	1.90	2.20	1.15	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWMR00201612	1.95	2.20	1.35	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWMR00252010	2.35	2.80	1.15	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWMR00252012	2.35	2.80	1.35	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWMR00302712	2.90	3.20	1.35	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWMR00404012	4.25	4.25	1.40	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	1000
BWMR00404020	4.25	4.25	2.40	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	800

BWVS Series



BWVS series, an automatic assembly constructed power inductor, is shielded with magnetic resin and suitable for the portable DC-DC converter applications.

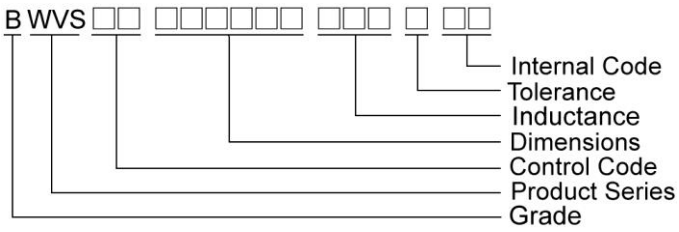
Features

- RoHS, Halogen Free and REACH Compliance
- Shielded with magnetic resin
- Various package size and wide inductance range
- Optimize electrical characteristics by using different ferrite core figures

Applications

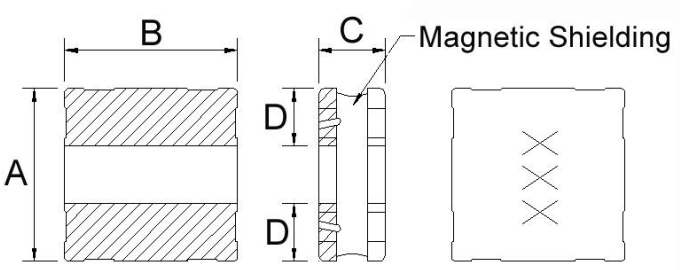
- AP Routers
- STBs
- LCD TVs, monitors and panels
- Game consoles
- DC/DC converters

Product Identification

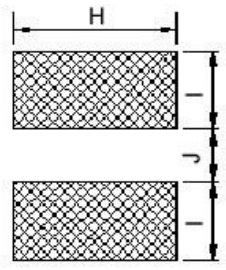


Shape and Dimensions

Figure 1



Recommended Pattern



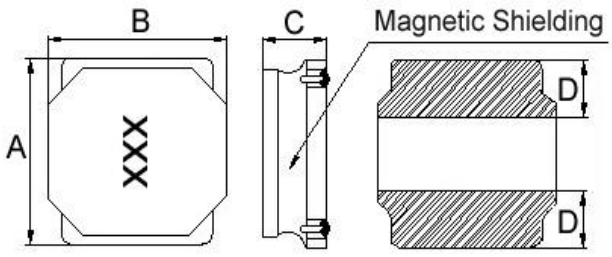
Dimensions in mm

TYPE	FIG	A	B	C	D	H	I	J
BWVS00322515	1	3.2±0.2	2.5±0.2	1.50±0.2	1.0	2.6	1.2	1.0
BWVS00404012	1	4.0±0.2	4.0±0.2	1.20±0.1	1.5	4.2	1.5	1.2

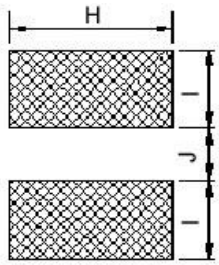
Sealed Power Inductors - BWVS Series

Shape and Dimensions

Figure 2



Recommended Pattern

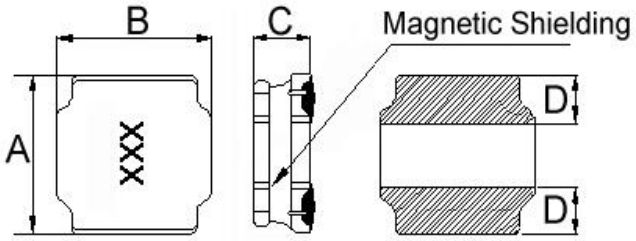


Dimensions in mm

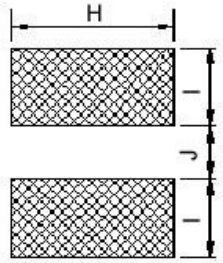
TYPE	FIG	A	B	C	D	H	I	J
BWVS00404018	2	4.0±0.2	4.0±0.2	$1.8^{+0.2}_{-0.30}$	1.3±0.3	3.7	1.2	1.6
BWVS00404026	2	4.0±0.2	4.0±0.2	2.6±0.2	1.4	3.7	1.2	1.6

Shape and Dimensions

Figure 3



Recommended Pattern



Dimensions in mm

TYPE	FIG	A	B	C	D	H	I	J
BWVS00505020	3	5.0±0.2	5.0±0.2	$2.0^{+0.2}_{-0.30}$	1.8±0.3	4.0	1.5	2.1
BWVS00505040	3	5.0±0.2	5.0±0.2	$4.0^{+0.2}_{-0.30}$	1.6±0.3	4.0	1.5	2.1
BWVS00606020	3	6.0±0.2	6.0±0.2	$2.0^{+0.2}_{-0.30}$	1.7±0.3	5.7	1.6	2.9
BWVS00606028	3	6.0±0.2	6.0±0.2	$2.8^{+0.2}_{-0.30}$	1.9±0.3	5.7	1.6	2.9
BWVS00606045	3	6.0±0.2	6.0±0.2	$4.5^{+0.2}_{-0.30}$	1.8±0.3	5.7	2.0	2.4
BWVS00808040	3	8.0±0.2	8.0±0.2	$4.0^{+0.2}_{-0.30}$	2.3±0.3	7.5	2.5	3.4

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) ±20%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	SRF(MHz) Min.	Marking
BWVS00322515R22□00	0.22	20, 30	1MHz,1V	22	4.5(4.0)	4.2(3.7)	300	R22
BWVS00322515R47□00	0.47	20, 30	1MHz,1V	27	3.4(3.0)	3.8(3.4)	168	R47
BWVS003225151R0□00	1.0	20, 30	1MHz,1V	40	2.3(2.0)	3.2(2.8)	95	1R0
BWVS003225151R5□00	1.5	20, 30	1MHz,1V	47	1.8(1.6)	3.0(2.7)	81	1R5
BWVS003225152R2□00	2.2	20, 30	1MHz,1V	57	1.6(1.4)	2.8(2.5)	60	2R2
BWVS003225153R3□00	3.3	20, 30	1MHz,1V	77	1.3(1.1)	2.4(2.1)	45	3R3
BWVS003225154R7□00	4.7	20, 30	1MHz,1V	110	1.1(0.99)	2.0(1.8)	40	4R7
BWVS003225156R8□00	6.8	20, 30	1MHz,1V	160	0.90(0.81)	1.7(1.5)	30	6R8
BWVS00322515100□00	10	20, 30	1MHz,1V	220	0.78(0.70)	1.4(1.2)	25	100
BWVS00322515150□00	15	20, 30	1MHz,1V	320	0.60(0.54)	1.1(0.99)	21	150
BWVS00322515220□00	22	20, 30	1MHz,1V	470	0.50(0.45)	0.95(0.85)	17	220
BWVS00322515330□00	33	20, 30	1MHz,1V	700	0.40(0.36)	0.80(0.72)	12	330
BWVS00322515470□00	47	20, 30	1MHz,1V	1000	0.34(0.30)	0.65(0.58)	11	470
BWVS00322515680□00	68	20, 30	1MHz,1V	1400	0.29(0.26)	0.53(0.47)	9.5	680
BWVS00322515101□00	100	20, 30	1MHz,1V	1900	0.23(0.20)	0.43(0.38)	7.5	101
BWVS00322515121□00	120	20, 30	1MHz,1V	2800	0.20(0.18)	0.36(0.32)	6.7	121
BWVS00322515221□00	220	20, 30	1MHz,1V	4700	0.15(0.13)	0.26(0.23)	5.0	221
BWVS00322515471□00	470	20, 30	1MHz,1V	10000	0.10(0.09)	0.17(0.15)	3.3	471
BWVS00322515681□00	680	20, 30	1MHz,1V	15000	0.08(0.07)	0.14(0.12)	2.5	681
BWVS00322515102□00	1000	20, 30	0.1MHz,1V	23000	0.06(0.05)	0.11(0.09)	2.0	102

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

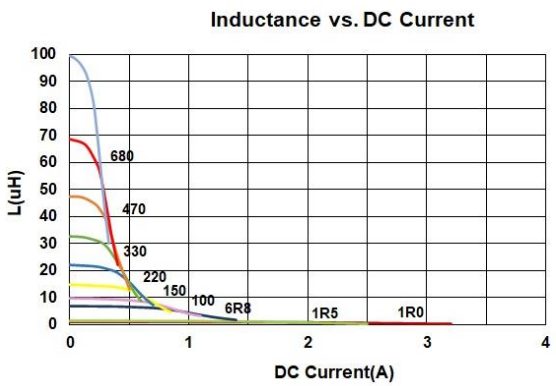
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

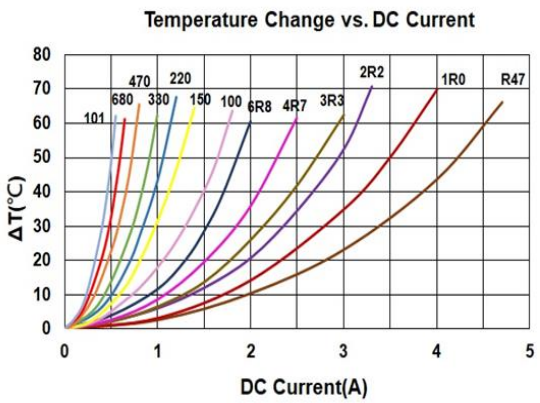
  L：Agilent HP4285A+Agilent HP42841A, 100kHz 1V

  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

  Isat & Irms：Agilent HP4285A+ Agilent HP42841A

Test Instruments：HP4285A Material/Impedance Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVS004040121R0□00	1.0	20, 30	100	48	2.50(2.25)	1.70(1.53)	1R0
BWVS004040121R5□00	1.5	20, 30	100	58	2.10(1.89)	1.60(1.44)	1R5
BWVS004040122R2□00	2.2	20, 30	100	65	1.70(1.53)	1.50(1.35)	2R2
BWVS004040123R3□00	3.3	20, 30	100	90	1.30(1.17)	1.40(1.26)	3R3
BWVS004040124R7□00	4.7	20, 30	100	110	1.10(0.99)	1.20(1.08)	4R7
BWVS004040126R8□00	6.8	20, 30	100	135	0.90(0.81)	1.05(0.94)	6R8
BWVS00404012100□00	10	20, 30	100	190	0.78(0.70)	0.90(0.81)	100
BWVS00404012150□00	15	20, 30	100	250	0.65(0.58)	0.85(0.76)	150
BWVS00404012220□00	22	20, 30	100	400	0.52(0.46)	0.75(0.67)	220
BWVS00404012330□00	33	20, 30	100	600	0.44(0.39)	0.70(0.63)	330
BWVS00404012470□00	47	20, 30	100	930	0.35(0.31)	0.50(0.45)	470

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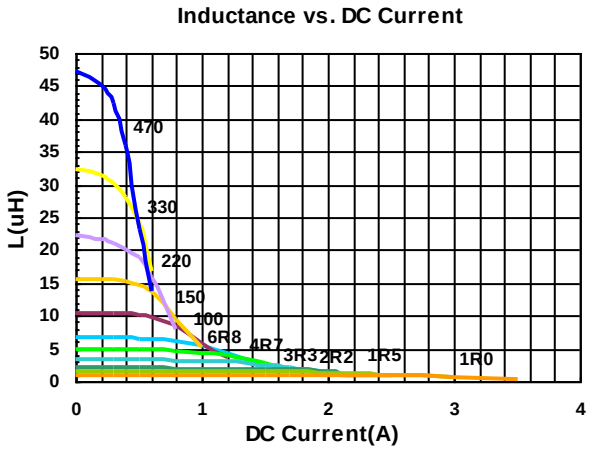
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

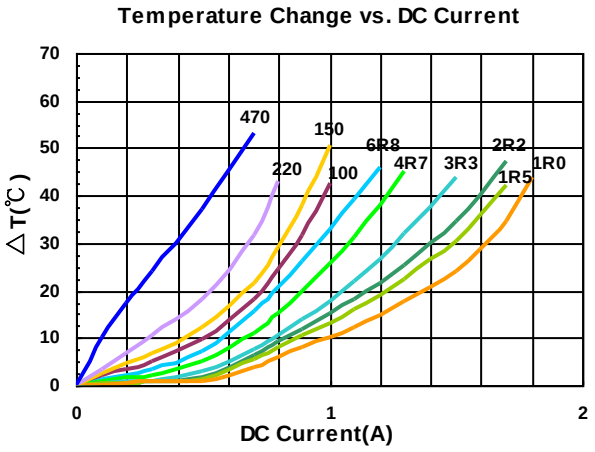
  L：Agilent HP4284A+Agilent HP42841A, 100kHz 1V

  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) ±20%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVS004040181R0□00	1.0	20, 30	100	32	4.10(3.69)	2.80(2.52)	1R0
BWVS004040181R5□00	1.5	20, 30	100	40	3.30(2.97)	2.60(2.34)	1R5
BWVS004040181R8□00	1.8	20, 30	100	55	2.80(2.50)	2.50(2.20)	1R8
BWVS004040182R2□00	2.2	20, 30	100	60	2.80(2.52)	2.50(2.25)	2R2
BWVS004040183R3□00	3.3	20, 30	100	70	2.20(1.98)	2.10(1.89)	3R3
BWVS004040183R6□00	3.6	20, 30	100	75	2.10(1.89)	1.90(1.71)	3R6
BWVS004040183R9□00	3.9	20, 30	100	75	2.10(1.89)	1.90(1.71)	3R9
BWVS004040184R7□00	4.7	20, 30	100	90	2.00(1.80)	1.70(1.53)	4R7
BWVS004040186R8□00	6.8	20, 30	100	110	1.60(1.44)	1.50(1.35)	6R8
BWVS004040188R2□00	8.2	20, 30	100	155	1.50(1.30)	1.30(1.10)	8R2
BWVS00404018100□00	10	20, 30	100	170	1.40(1.26)	1.20(1.08)	100
BWVS00404018150□00	15	20, 30	100	250	1.00(0.90)	1.00(0.90)	150
BWVS00404018220□00	22	20, 30	100	350	0.90(0.81)	0.85(0.76)	220
BWVS00404018330□00	33	20, 30	100	530	0.80(0.72)	0.70(0.63)	330
BWVS00404018470□00	47	20, 30	100	720	0.70(0.63)	0.56(0.50)	470
BWVS00404018680□00	68	20, 30	100	1000	0.56(0.50)	0.45(0.40)	680
BWVS00404018101□00	100	20, 30	100	1500	0.46(0.41)	0.38(0.34)	101
BWVS00404018121□00	120	20, 30	100	1600	0.38(0.34)	0.36(0.32)	121
BWVS00404018151□00	150	20, 30	100	2500	0.35(0.31)	0.30(0.27)	151
BWVS00404018221□00	220	20, 30	100	4000	0.28(0.25)	0.23(0.20)	221

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

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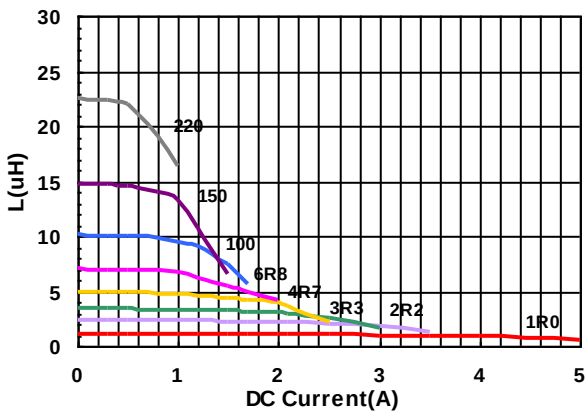
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

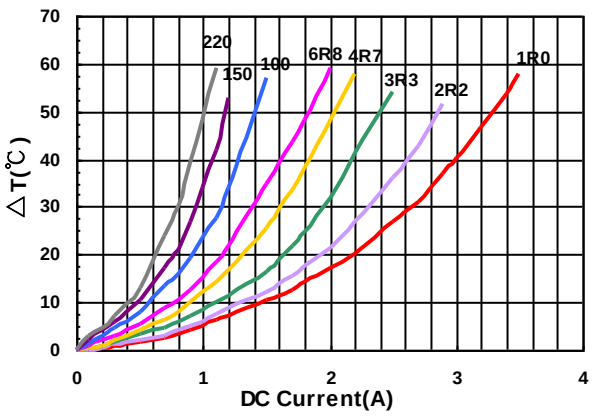
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer

Inductance vs. DC Current



Temperature Change vs. DC Current



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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVS004040261R2□00	1.2	20, 30	100	30	3.50(3.15)	3.30(2.97)	1R2
BWVS004040263R3□00	3.3	20, 30	100	45	2.50(2.25)	2.50(2.25)	3R3
BWVS004040264R7□00	4.7	20, 30	100	60	1.80(1.62)	1.80(1.62)	4R7
BWVS00404026220□00	22	20, 30	100	230	0.86(0.77)	1.00(0.90)	220

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- Measure Equipment：

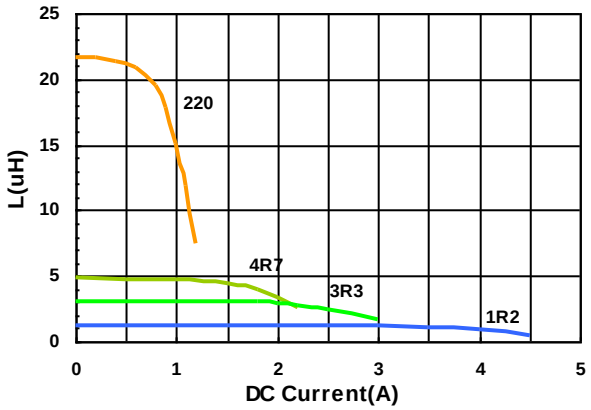
  L：Agilent HP4284A+Agilent HP42841A, 100kHz 1V

  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

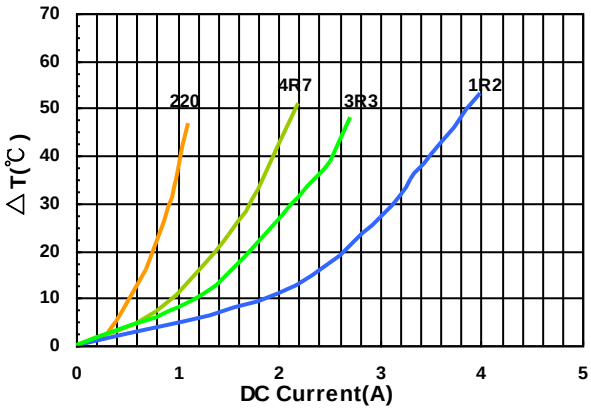
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer

Inductance vs. DC Current



Temperature Change vs. DC Current



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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) ±20%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVS005050201R0□00	1.0	20, 30	100	21	5.1(4.59)	4.0(3.60)	1R0
BWVS005050201R2□00	1.2	30	100	21	4.8(4.32)	3.8(3.42)	1R2
BWVS005050201R5□00	1.5	20, 30	100	26	4.2(3.78)	3.5(3.15)	1R5
BWVS005050202R2□00	2.2	20, 30	100	35	3.4(3.06)	3.2(2.88)	2R2
BWVS005050202R7□00	2.7	20, 30	100	38	3.05(2.7)	2.9(2.60)	2R7
BWVS005050203R3□00	3.3	20, 30	100	48	3.0(2.70)	2.8(2.52)	3R3
BWVS005050204R7□00	4.7	20, 30	100	60	2.2(1.98)	2.2(1.98)	4R7
BWVS005050205R6□00	5.6	20, 30	100	82	2.05(1.84)	2.0(1.80)	5R6
BWVS005050206R8□00	6.8	20, 30	100	90	2.0(1.80)	1.8(1.62)	6R8
BWVS00505020100□00	10	20, 30	100	120	1.6(1.44)	1.6(1.44)	100
BWVS00505020150□00	15	20, 30	100	190	1.3(1.17)	1.2(1.08)	150
BWVS00505020220□00	22	20, 30	100	260	1.0(0.90)	1.0(0.90)	220
BWVS00505020330□00	33	20, 30	100	460	0.8(0.72)	0.75(0.67)	330
BWVS00505020470□00	47	20, 30	100	580	0.65(0.58)	0.65(0.58)	470

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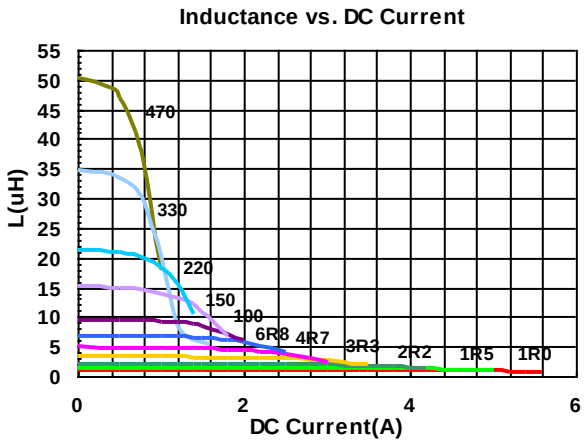
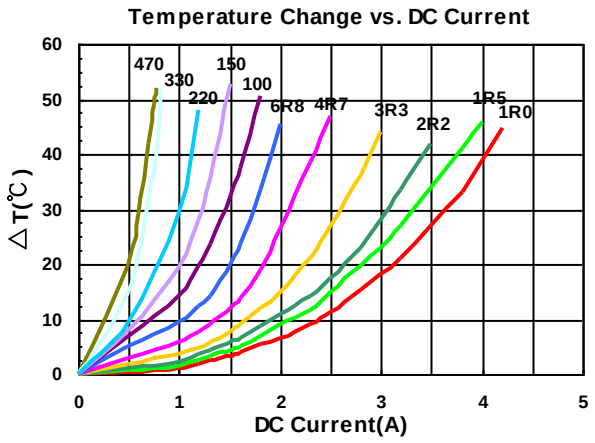
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Electrical Characteristics

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BWVS00505040R68□00	0.68	20, 30	100	10	8.4(7.50)	5.6(5.00)	R68
BWVS005050401R0□00	1.0	20, 30	100	14	7.5(6.75)	4.6(4.14)	1R0
BWVS005050401R2□00	1.2	20, 30	100	15	7.4(6.66)	4.5(4.05)	1R2
BWVS005050401R5□00	1.5	20, 30	100	16	7.1(6.39)	4.4(3.96)	1R5
BWVS005050402R2□00	2.2	20, 30	100	21	5.7(5.13)	3.7(3.33)	2R2
BWVS005050403R0□00	2.2	20, 30	100	26	4.8(4.32)	3.5(3.15)	3R0
BWVS005050403R3□00	3.3	20, 30	100	26	4.8(4.32)	3.5(3.15)	3R3
BWVS005050403R6□00	3.6	20, 30	100	31	4.2(3.70)	3.3(2.90)	3R6
BWVS005050404R7□00	4.7	20, 30	100	32	4.2(3.78)	3.2(2.88)	4R7
BWVS005050405R6□00	5.6	20, 30	100	42	3.7(3.30)	2.8(2.50)	5R6
BWVS005050406R8□00	6.8	20, 30	100	50	3.3(2.97)	2.4(2.16)	6R8
BWVS00505040100□00	10	20, 30	100	60	2.8(2.52)	2.2(1.98)	100
BWVS00505040150□00	15	20, 30	100	90	2.3(2.07)	1.8(1.62)	150
BWVS00505040220□00	22	20, 30	100	135	1.8(1.62)	1.4(1.26)	220
BWVS00505040270□00	27	20, 30	100	180	1.6(1.44)	1.2(1.08)	270
BWVS00505040330□00	33	20, 30	100	190	1.5(1.35)	1.1(0.99)	330
BWVS00505040470□00	47	20, 30	100	310	1.2(1.08)	0.9(0.81)	470
BWVS00505040680□00	68	20, 30	100	540	1.0(0.90)	0.78(0.7)	680
BWVS00505040101□00	100	20, 30	100	800	0.7(0.60)	0.6(0.50)	101

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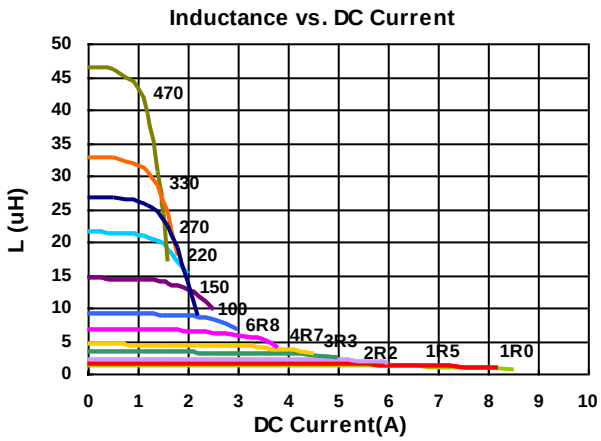

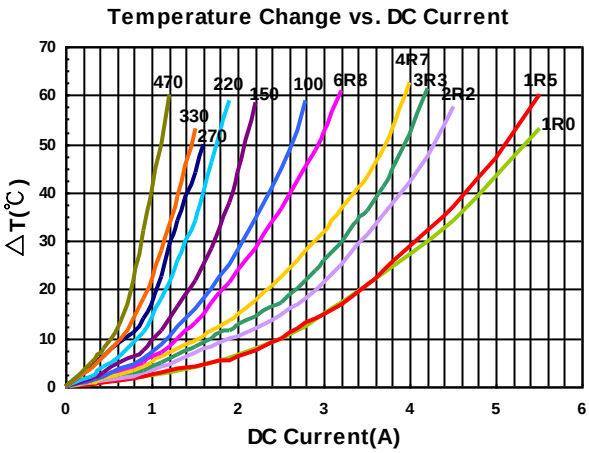

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Electrical Characteristics

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BWVS00606020R50□00	0.5	30	100	13	8.0(7.20)	5.3(4.77)	R50
BWVS00606020R90□00	0.9	30	100	18	6.3(5.67)	4.2(3.78)	R90
BWVS006060201R0□00	1.0	30	100	19	6.2(5.58)	4.1(3.69)	1R0
BWVS006060201R5□00	1.5	20, 30	100	26	5.0(4.50)	3.6(3.24)	1R5
BWVS006060202R2□00	2.2	20, 30	100	34	4.2(3.78)	3.2(2.88)	2R2
BWVS006060203R3□00	3.3	20, 30	100	40	3.2(2.88)	2.7(2.43)	3R3
BWVS006060204R7□00	4.7	20, 30	100	58	2.5(2.25)	2.2(1.98)	4R7
BWVS006060206R8□00	6.8	20, 30	100	85	2.2(1.98)	1.8(1.62)	6R8
BWVS00606020100□00	10	20, 30	100	125	2.0(1.80)	1.6(1.44)	100
BWVS00606020150□00	15	20, 30	100	190	1.3(1.17)	1.3(1.17)	150
BWVS00606020220□00	22	20, 30	100	260	1.1(0.99)	1.1(0.99)	220

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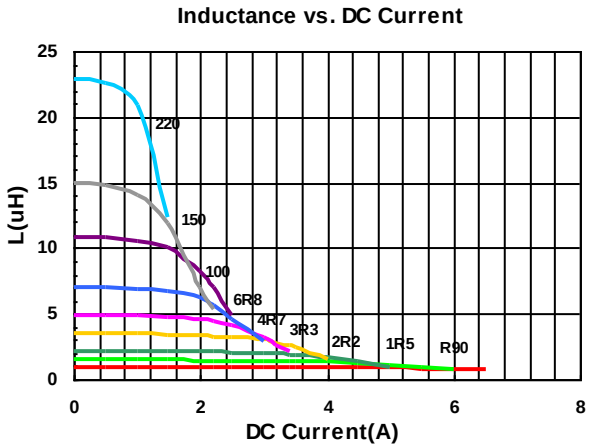

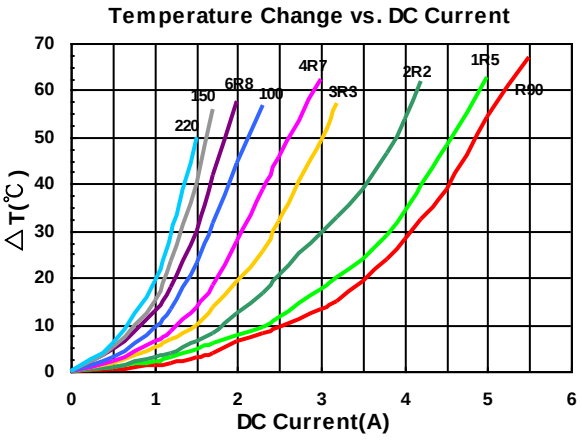

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BWVS006060281R0□00	1.0	20, 30	100	13	7.6(6.84)	5.2(4.68)	1R0
BWVS006060281R5□00	1.5	20, 30	100	16	6.3(5.67)	4.8(4.32)	1R5
BWVS006060282R2□00	2.2	20, 30	100	20	5.4(4.86)	4.0(3.60)	2R2
BWVS006060282R7□00	2.7	20, 30	100	26	4.9(4.41)	3.7(3.33)	2R7
BWVS006060283R3□00	3.3	20, 30	100	28	4.3(3.87)	3.5(3.15)	3R3
BWVS006060284R7□00	4.7	20, 30	100	38	3.7(3.33)	3.2(2.88)	4R7
BWVS006060286R0□00	6.0	20, 30	100	45	3.3(2.97)	2.8(2.52)	6R0
BWVS006060286R8□00	6.8	20, 30	100	50	3.1(2.79)	2.7(2.43)	6R8
BWVS00606028100□00	10	20, 30	100	65	2.5(2.25)	2.3(2.07)	100
BWVS00606028150□00	15	20, 30	100	95	2.0(1.80)	1.8(1.62)	150
BWVS00606028220□00	22	20, 30	100	135	1.6(1.44)	1.5(1.35)	220
BWVS00606028330□00	33	20, 30	100	220	1.3(1.17)	1.4(1.26)	330
BWVS00606028470□00	47	20, 30	100	320	1.1(0.99)	1.0(0.90)	470
BWVS00606028680□00	68	20, 30	100	420	0.98(0.88)	0.9(0.81)	680
BWVS00606028101□00	100	20, 30	100	600	0.82(0.73)	0.8(0.72)	101

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

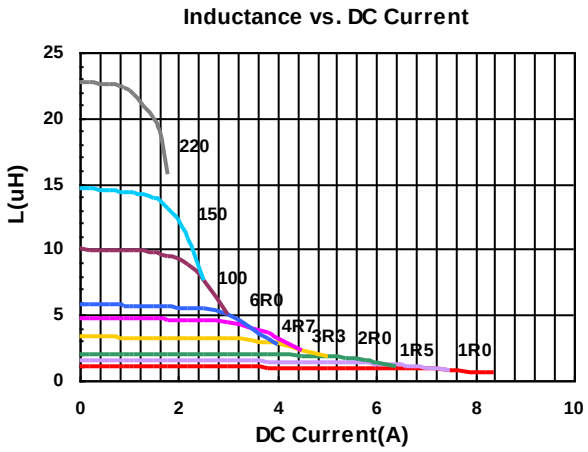
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

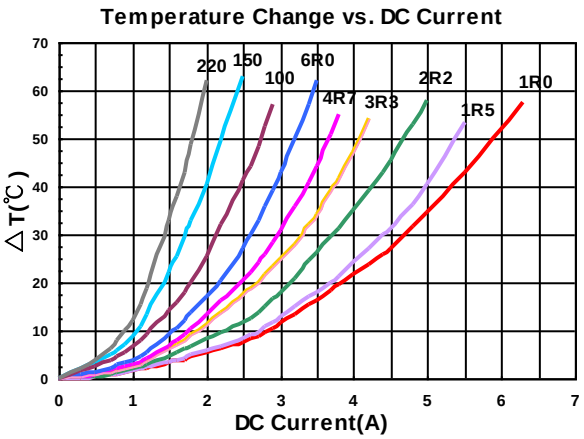
  L：Agilent HP4284A+Agilent HP42841A, 100kHz 1V

  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVS006060451R0□00	1.0	20, 30	100	12	12.2(10.98)	6.5(5.85)	1R0
BWVS006060451R2□00	1.2	20, 30	100	13	10.6(9.50)	5.9(5.30)	1R2
BWVS006060451R5□00	1.5	20, 30	100	15	10.4(9.36)	5.9(5.31)	1R5
BWVS006060451R8□00	1.8	20, 30	100	17	9.6(8.64)	5.6(5.04)	1R8
BWVS006060452R2□00	2.2	20, 30	100	18.4	8.8(7.92)	5.1(4.59)	2R2
BWVS006060452R3□00	2.3	20, 30	100	19	8.8(7.92)	5.0(4.50)	2R3
BWVS006060453R0□00	3.0	20, 30	100	22	7.8(7.02)	4.4(3.96)	3R0
BWVS006060453R3□00	3.3	20, 30	100	24	7.5(6.75)	4.3(3.87)	3R3
BWVS006060453R6□00	3.6	20, 30	100	24	7.5(6.75)	4.3(3.87)	3R6
BWVS006060453R9□00	3.9	20, 30	100	26	7.0(6.30)	4.0(3.60)	3R9
BWVS006060454R5□00	4.5	20, 30	100	31	6.7(6.03)	3.9(3.51)	4R5
BWVS006060454R7□00	4.7	20, 30	100	31	6.7(6.03)	3.9(3.51)	4R7
BWVS006060455R1□00	5.1	20, 30	100	33	6.0(5.40)	3.5(3.15)	5R1
BWVS006060455R6□00	5.6	20, 30	100	40	5.5(4.95)	3.3(2.97)	5R6
BWVS006060456R3□00	6.3	20, 30	100	40	5.5(4.95)	3.3(2.97)	6R3
BWVS006060456R8□00	6.8	20, 30	100	43	5.3(4.77)	3.2(2.88)	6R8
BWVS006060458R2□00	8.2	20, 30	100	53	4.6(4.10)	2.9(2.60)	8R2
BWVS00606045100□00	10	20, 30	100	57	4.5(4.05)	2.7(2.43)	100
BWVS00606045150□00	15	20, 30	100	80	3.4(3.06)	2.2(1.98)	150
BWVS00606045180□00	18	20, 30	100	100	3.1(2.79)	1.8(1.62)	180
BWVS00606045220□00	22	20, 30	100	125	3.0(2.70)	1.9(1.71)	220
BWVS00606045270□00	27	20, 30	100	160	2.5(2.25)	1.3(1.17)	270
BWVS00606045330□00	33	20, 30	100	165	2.3(2.07)	1.4(1.26)	330
BWVS00606045470□00	47	20, 30	100	245	1.9(1.71)	1.2(1.08)	470
BWVS00606045560□00	56	20, 30	100	310	1.7(1.50)	1.1(0.99)	560
BWVS00606045680□00	68	20, 30	100	330	1.6(1.44)	1.0(0.90)	680
BWVS00606045101□00	100	20, 30	100	500	1.3(1.17)	0.8(0.72)	101
BWVS00606045181□00	180	20, 30	100	1280	0.95(0.85)	0.50(0.45)	181
BWVS00606045221□00	220	20, 30	100	1300	0.82(0.73)	0.38(0.34)	221
BWVS00606045331□00	330	20, 30	100	1800	0.70(0.63)	0.35(0.31)	331
BWVS00606045471□00	470	20, 30	100	2900	0.52(0.46)	0.32(0.28)	471
BWVS00606045561□00	560	20, 30	100	4300	0.57(0.51)	0.29(0.26)	561
BWVS00606045681□00	680	20, 30	100	5000	0.46(0.41)	0.26(0.23)	681
BWVS00606045102□00	1000	20, 30	100	6000	0.40(0.36)	0.22(0.19)	102

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
  L：Agilent HP4284A+Agilent HP42841A, 100kHz 1V
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

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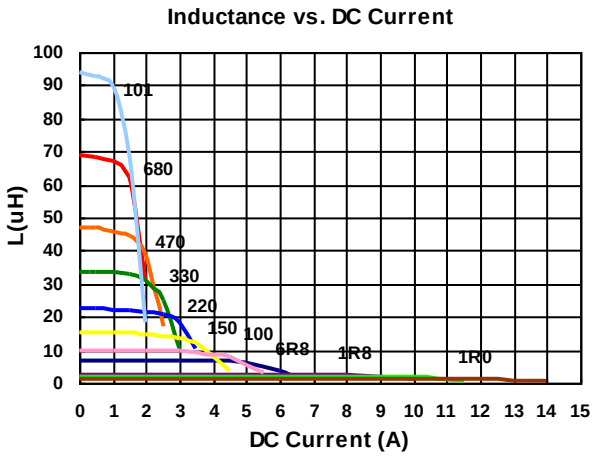
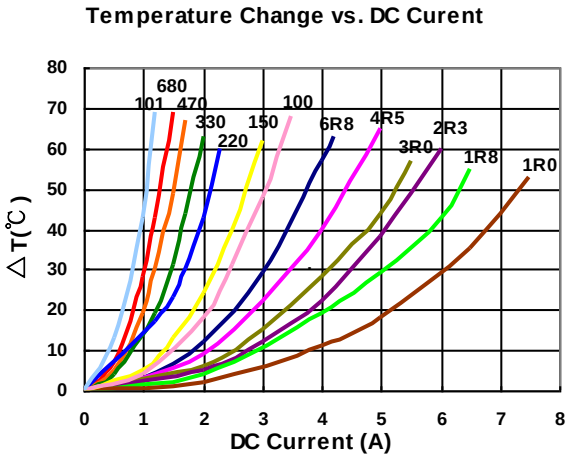
Test Instruments：HP4284A Material/Impedance Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVS00606045R47□L1	0.47	30	100	7.8	14.0(12.0)	8.00(7.20)	R47
BWVS00606045R50□L1	0.50	30	100	9	11.0(9.90)	8.00(7.20)	R50
BWVS00606045R68□L1	0.68	20, 30	100	10	10.0(9.00)	7.20(6.48)	R68
BWVS006060452R2□L1	2.2	20, 30	100	17	6.80(6.12)	5.50(4.95)	2R2
BWVS006060453R3□L1	3.3	20, 30	100	24	5.50(4.95)	4.70(4.23)	3R3
BWVS006060454R7□L1	4.7	20, 30	100	30	4.60(4.14)	4.00(3.60)	4R7
BWVS006060456R8□L1	6.8	20, 30	100	40	4.00(3.60)	3.50(3.15)	6R8
BWVS00606045100□L1	10	20, 30	100	50	3.20(2.88)	3.20(2.88)	100
BWVS00606045150□L1	15	20, 30	100	80	2.60(2.34)	2.50(2.25)	150
BWVS00606045220□L1	22	20, 30	100	120	2.10(1.89)	2.00(1.80)	220
BWVS00606045330□L1	33	20, 30	100	170	1.70(1.53)	1.60(1.44)	330
BWVS00606045101□L1	100	20, 30	100	595	0.95(0.85)	0.92(0.82)	101
BWVS00606045151□L1	150	20, 30	100	800	0.88(0.79)	0.82(0.73)	151
BWVS00606045221□L1	220	20, 30	100	1300	0.75(0.67)	0.65(0.58)	221
BWVS00606045681□L1	680	20, 30	100	3300	0.46(0.42)	0.38(0.33)	681

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

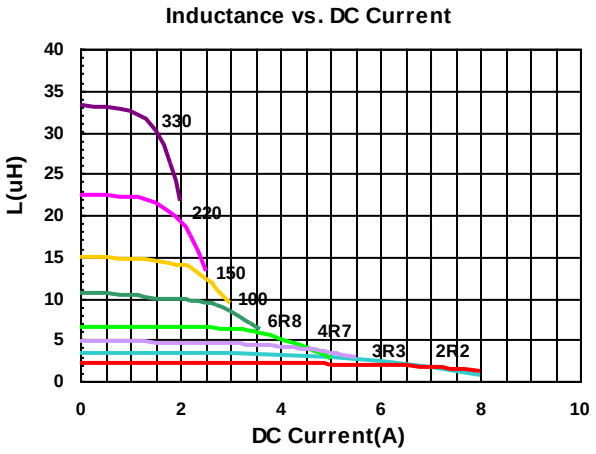
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

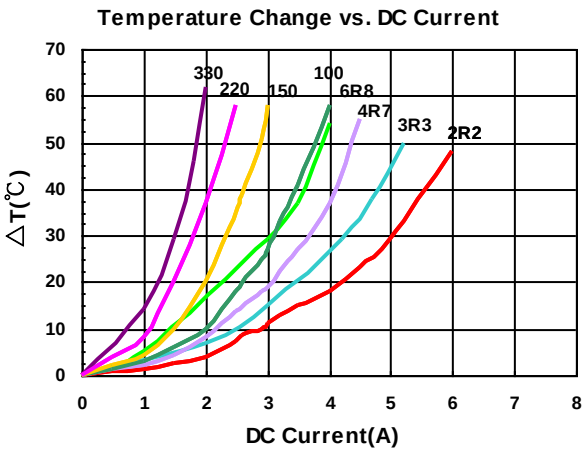
  L：Agilent HP4284A+Agilent HP42841A, 100kHz 1V

  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVS00808040R90□00	0.9	30	100	7	13.8(12.42)	8.05(7.24)	R90
BWVS008080401R0□00	1.0	30	100	7.5	13.0(11.70)	7.95(7.15)	1R0
BWVS008080401R4□00	1.4	30	100	9	10.8(9.72)	7.8(7.02)	1R4
BWVS008080401R5□00	1.5	30	100	9.5	10.0(9.00)	7.7(6.93)	1R5
BWVS008080402R0□00	2.0	20, 30	100	11	9.6(8.64)	7.4(6.66)	2R0
BWVS008080402R2□00	2.2	20, 30	100	11.5	9.2(8.28)	7.2(6.48)	2R2
BWVS008080402R5□00	2.5	20, 30	100	13	8.2(7.38)	6.3(5.67)	2R5
BWVS008080403R3□00	3.3	20, 30	100	15	7.5(6.75)	6.0(5.40)	3R3
BWVS008080403R9□00	3.9	20, 30	100	18	6.1(5.40)	5.5(4.90)	3R9
BWVS008080404R7□00	4.7	20, 30	100	18	6.0(5.40)	5.5(4.95)	4R7
BWVS008080405R6□00	5.6	20, 30	100	23	5.7(5.13)	5.2(4.68)	5R6
BWVS008080406R8□00	6.8	20, 30	100	25	5.4(4.86)	5.1(4.59)	6R8
BWVS00808040100□00	10	20, 30	100	38	4.3(3.87)	3.8(3.42)	100
BWVS00808040120□00	12	20, 30	100	45	3.8(3.42)	3.5(3.15)	120
BWVS00808040150□00	15	20, 30	100	50	3.6(3.24)	3.2(2.88)	150
BWVS00808040180□00	18	20, 30	100	68	3.1(2.79)	2.7(2.43)	180
BWVS00808040220□00	22	20, 30	100	80	2.8(2.52)	2.6(2.34)	220
BWVS00808040330□00	33	20, 30	100	110	2.3(2.07)	2.0(1.80)	330
BWVS00808040470□00	47	20, 30	100	160	1.9(1.71)	1.75(1.57)	470
BWVS00808040510□00	51	20, 30	100	180	1.90(1.71)	1.70(1.53)	510
BWVS00808040680□00	68	20, 30	100	240	1.7(1.53)	1.45(1.30)	680
BWVS00808040101□00	100	20, 30	100	340	1.4(1.26)	1.10(0.99)	101
BWVS00808040121□00	120	20, 30	100	425	1.1(0.99)	1.0(0.90)	121
BWVS00808040151□00	150	20, 30	100	480	1.0(0.90)	0.9(0.81)	151
BWVS00808040181□00	180	20, 30	100	650	0.98(0.88)	0.7(0.63)	181
BWVS00808040221□00	220	20, 30	100	670	0.94(0.84)	0.60(0.54)	221
BWVS00808040271□00	270	20, 30	100	900	0.83(0.74)	0.55(0.49)	271
BWVS00808040331□00	330	20, 30	100	1600	0.80(0.72)	0.46(0.41)	331
BWVS00808040471□00	470	20, 30	100	1800	0.70(0.63)	0.40(0.36)	471
BWVS00808040821□00	820	20, 30	100	2800	0.40(0.36)	0.38(0.34)	821

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

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- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

  L：Agilent HP4284A+Agilent HP42841A, 100kHz 1V

  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

  Isat & Irms：Agilent HP4284A

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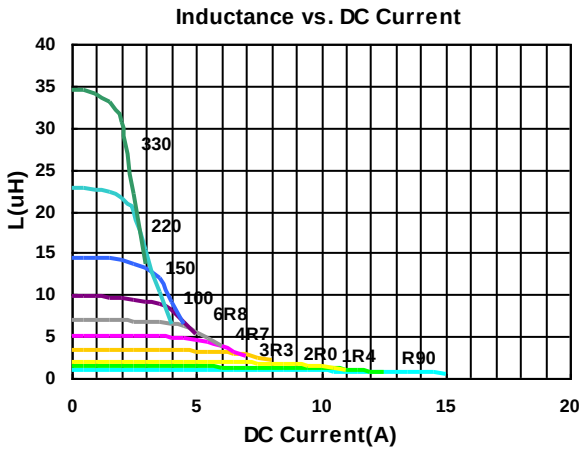
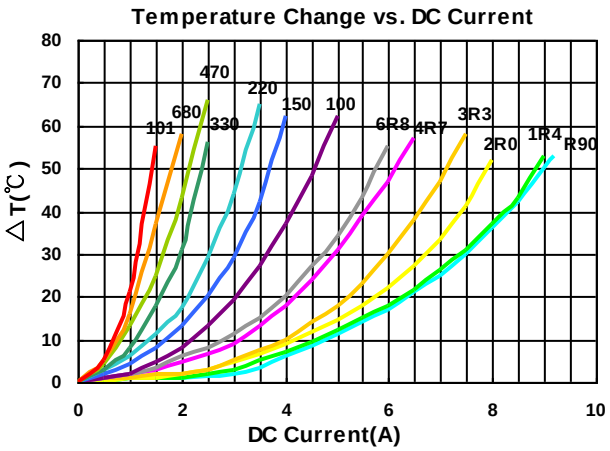
CHILISIN ELECTRONICS CORP.

Test Instruments：HP4284A Material/Impedance Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVS008080401R0□L1	1.0	30	100	10	9.5(8.55)	8.5(7.65)	1R0
BWVS008080402R2□L1	2.2	20,30	100	12	7.2(6.48)	7.3(6.57)	2R2
BWVS008080403R3□L1	3.3	20,30	100	19	5.6(5.04)	6.0(5.40)	3R3
BWVS008080404R7□L1	4.7	20,30	100	22	4.4(3.96)	5.0(4.50)	4R7
BWVS008080408R2□L1	8.2	20,30	100	37	3.6(3.24)	3.8(3.42)	8R2
BWVS00808040100□L1	10	20,30	100	42	3.1(2.79)	3.5(3.15)	100
BWVS00808040150□L1	15	20,30	100	58	2.5(2.25)	3.0(2.70)	150
BWVS00808040220□L1	22	20,30	100	85	2.0(1.80)	2.5(2.25)	220
BWVS00808040331□L1	330	20,30	100	1248	0.76(0.68)	0.78(0.70)	331
BWVS00808040471□L1	470	20,30	100	1690	0.65(0.58)	0.67(0.60)	471
BWVS00808040102□L1	1000	20,30	100	3731	0.45(0.40)	0.40(0.36)	102

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

  L：Agilent HP4284A+Agilent HP42841A, 100kHz 1V

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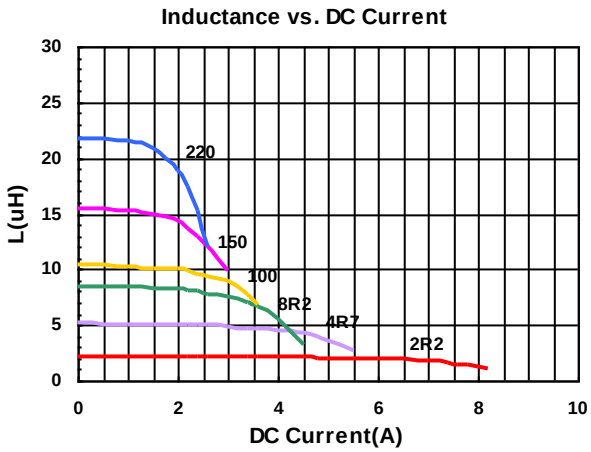
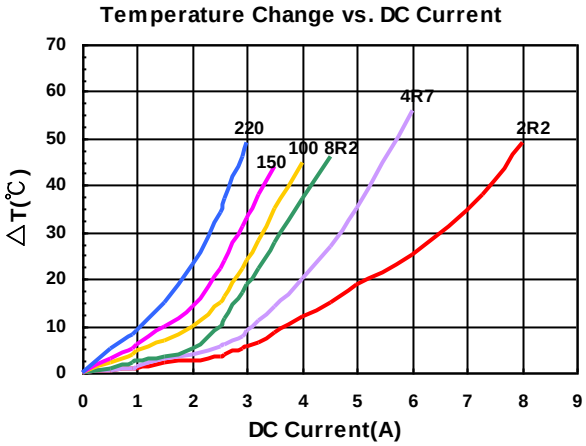
Test Instruments：HP4284A Material/Impedance Analyzer





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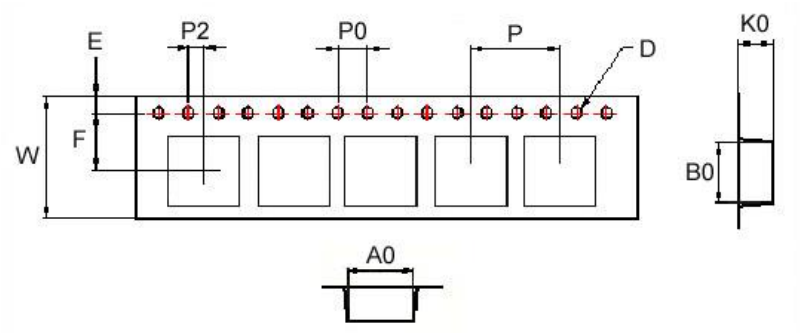
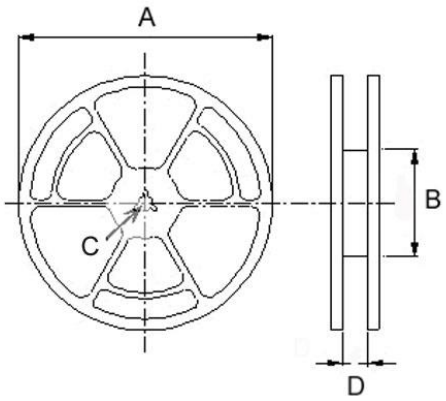
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions										Reel Dimensions				Quantity
	A0	B0	K0	D	E	F	W	P	P0	P2	A	B	C	D	PCS / Reel
BWVS00322515	2.85	3.56	1.80	1.55	1.75	5.5	8	4	4	2	178	60	9	1.50	2000
BWVS00404012	4.25	4.25	1.30	1.55	1.75	5.5	12	8	4	2	180	60	13	13.2	1000
BWVS00404018	4.25	4.25	2.10	1.55	1.75	5.5	12	8	4	2	180	60	13	13.2	800
BWVS00404026	4.25	4.25	3.00	1.55	1.75	5.5	12	8	4	2	180	60	13	13.2	500
BWVS00505020	5.25	5.25	2.20	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	2000
BWVS00505040	5.20	5.20	4.20	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	1500
BWVS00606020	6.25	6.25	2.20	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	2000
BWVS00606028	6.25	6.25	3.00	1.55	1.75	7.5	16	12	4	2	330	100	13	16.0	1500
BWVS00606045	6.25	6.25	4.65	1.55	1.75	7.5	16	12	4	2	330	100	13	16	1000
BWVS00808040	8.25	8.25	4.15	1.55	1.75	7.5	16	12	4	2	330	100	13	16.0	1000

BWVF Series

BWVF series, an automatic assembly constructed power inductor, is shielded with magnetic resin and suitable for portable DC-DC converter applications.

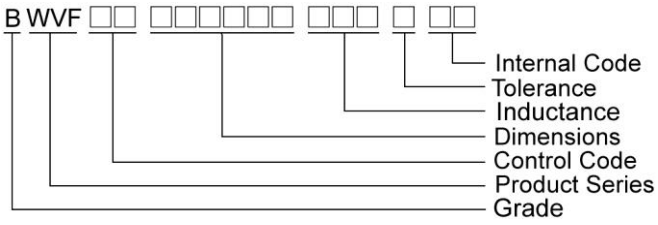
Features

- RoHS, Halogen Free and REACH Compliance
- Shielded with magnetic resin
- Various package size and wide inductance range
- Optimize electrical characteristics by using different ferrite core figures

Applications

- Smartphones, tablets and wearable devices
- DSC, camcorders
- AP Routers
- STBs
- LCD TVs, monitors and panels
- Game consoles
- DC/DC converters

Product Identification



Shape and Dimensions

Figure 1

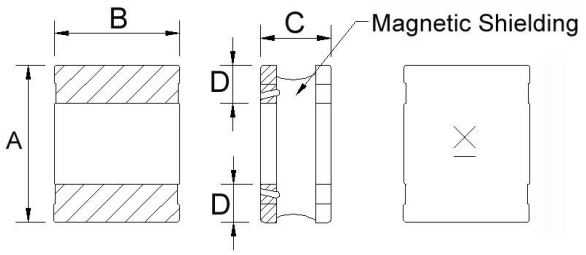
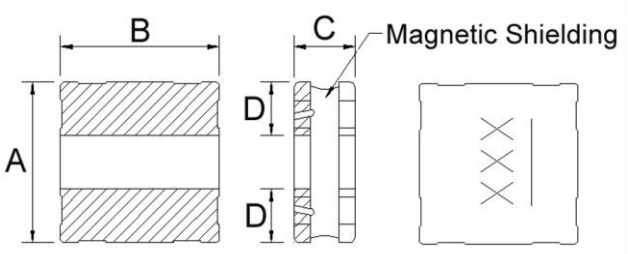


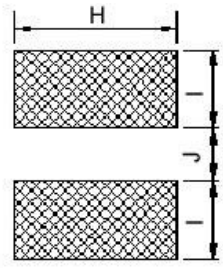
Figure 2



Dimensions in mm

TYPE	FIG	A	B	C	D	H	I	J
BWVF00201612	1	2.0±0.25	1.6±0.25	1.2±0.05	0.6	1.8	0.8	0.8
BWVF00252010	1	2.5±0.25	2.0±0.25	1.02 Max	0.8	2.2	0.85	0.8
BWVF00252012	1	2.5±0.25	2.0±0.25	1.2±0.05	0.8	2.2	0.85	0.8
BWVF00303010	2	3.0±0.20	3.0±0.20	1.02 Max	1.0	3.2	1.1	1.0
BWVF00303012	2	3.0±0.20	3.0±0.20	1.2 Max	1.0	3.2	1.1	1.0
BWVF00303015	2	3.0±0.20	3.0±0.20	1.5 Max	1.0	3.2	1.1	1.0
BWVF00404012	2	4.0±0.20	4.0±0.20	1.2±0.1	1.5	4.2	1.5	1.2

Recommended Pattern



Shape and Dimensions

Figure 3

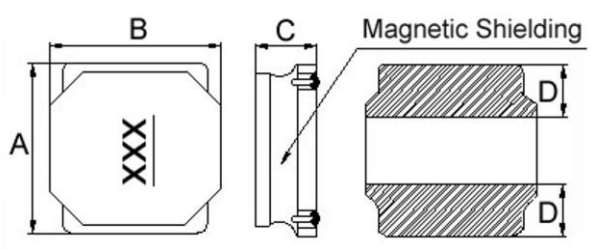
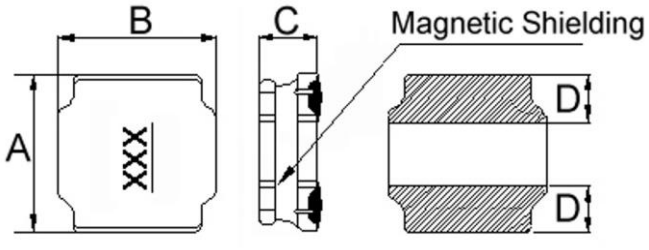


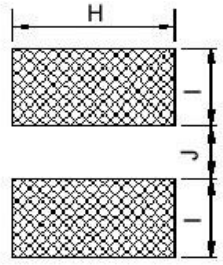
Figure 4



Dimensions in mm

TYPE	FIG	A	B	C	D	H	I	J
BWVF00404015	3	4.0±0.25	4.0±0.25	1.5±0.2	1.3	3.7	1.5	1.2
BWVF00404018	3	4.0±0.20	4.0±0.20	1.9 Max	1.3	3.7	1.5	1.2
BWVF00404026	3	4.0±0.20	4.0±0.25	2.6±0.2	1.4	3.7	1.6	1.2
BWVF00505020	4	5.0±0.20	5.0±0.20	2.0±0.2	1.8±0.3	4.2	1.6	2.0
BWVF00606020	4	6.0±0.20	6.0±0.20	2.0±0.2	1.7±0.3	5.7	1.7	2.8
BWVF00606028	4	6.0±0.20	6.0±0.20	2.8±0.2	1.9±0.3	5.7	1.8	2.6
BWVF00808040	4	8.0±0.20	8.0±0.20	$4.0^{+0.2}_{-0.30}$	2.3±0.3	7.5	2.5	3.4

Recommended Pattern



Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVF00201612R47□00	0.47	20, 30	1	0.051	2.70(2.43)	2.30(2.07)	A
BWVF00201612R68□00	0.68	20, 30	1	0.074	2.20(1.98)	2.00(1.80)	L
BWVF002016121R5□00	1.5	20, 30	1	0.130	1.60(1.44)	1.45(1.30)	D
BWVF002016126R8□00	6.8	20, 30	1	0.465	0.82(0.73)	0.78(0.70)	H

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
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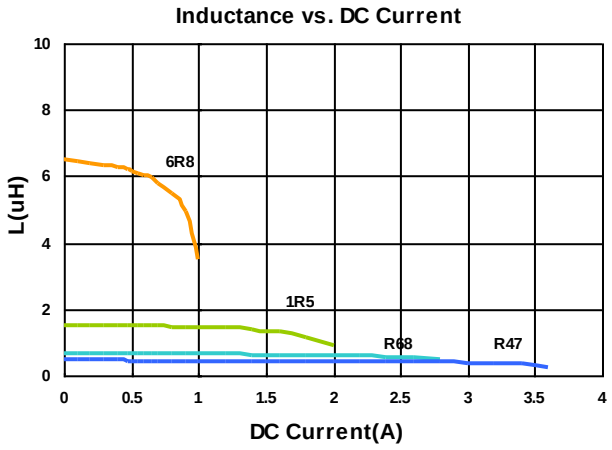
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

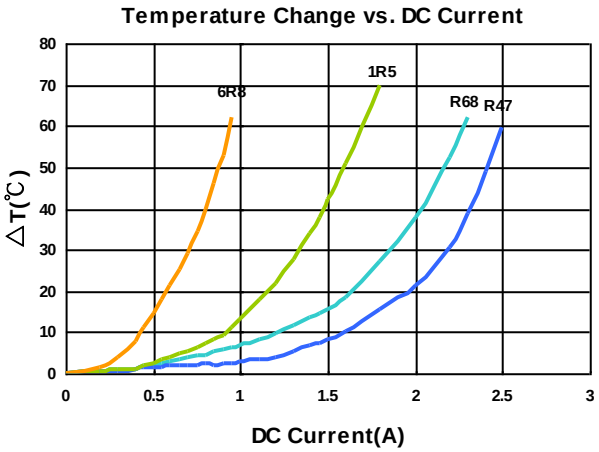
  L：HP4285A+HP42841A, 1MHz 200mV

  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVF00252010R47□00	0.47	20, 30	1	0.045	2.80(2.52)	2.30(2.07)	A
BWVF002520101R0□00	1.0	20, 30	1	0.066	1.98(1.78)	2.05(1.84)	B
BWVF002520101R5□00	1.5	20, 30	1	0.095	1.70(1.53)	1.85(1.66)	C
BWVF002520104R7□00	4.7	20, 30	1	0.285	0.92(0.82)	0.95(0.85)	F
BWVF00252010100□00	10	20, 30	1	0.535	0.60(0.54)	0.70(0.63)	H
BWVF00252010150□00	15	20, 30	1	0.810	0.50(0.45)	0.55(0.49)	I
BWVF00252010220□00	22	20, 30	1	1.200	0.40(0.36)	0.44(0.39)	J

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

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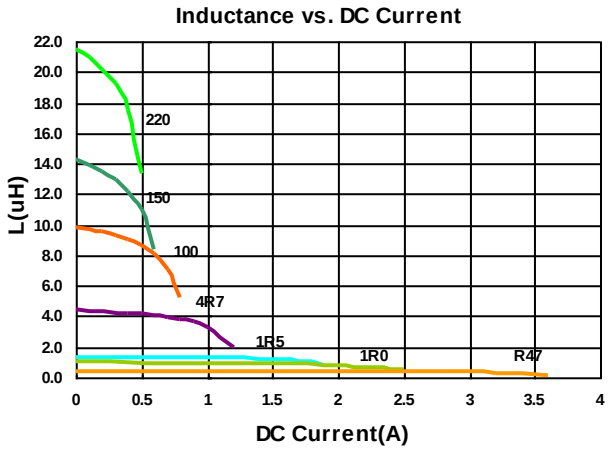
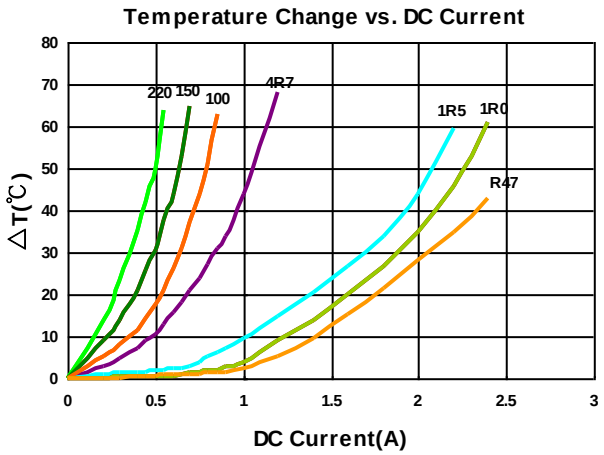
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVF00252012R50□00	0.50	20, 30	1	0.028	3.50(3.15)	3.00(2.70)	B
BWVF002520121R0□00	1.0	20, 30	1	0.050	2.50(2.25)	2.40(2.16)	C
BWVF002520121R2□00	1.2	20, 30	1	0.053	2.10(1.89)	2.35(2.11)	D
BWVF002520121R5□00	1.5	20, 30	1	0.068	1.95(1.75)	2.30(2.07)	E
BWVF002520122R2□00	2.2	20, 30	1	0.080	1.80(1.62)	1.80(1.62)	F
BWVF002520123R3□00	3.3	20, 30	1	0.130	1.45(1.30)	1.50(1.35)	G
BWVF002520124R7□00	4.7	20, 30	1	0.190	1.10(0.99)	1.10(0.99)	H
BWVF002520125R6□00	5.6	20, 30	1	0.210	1.05(0.94)	1.00(0.90)	I
BWVF002520126R8□00	6.8	20, 30	1	0.300	0.95(0.85)	0.80(0.72)	J
BWVF00252012100□00	10	20, 30	1	0.385	0.88(0.79)	0.70(0.63)	K
BWVF00252012150□00	15	20, 30	1	0.570	0.68(0.61)	0.62(0.55)	L
BWVF00252012220□00	22	20, 30	1	0.810	0.55(0.49)	0.53(0.47)	M

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

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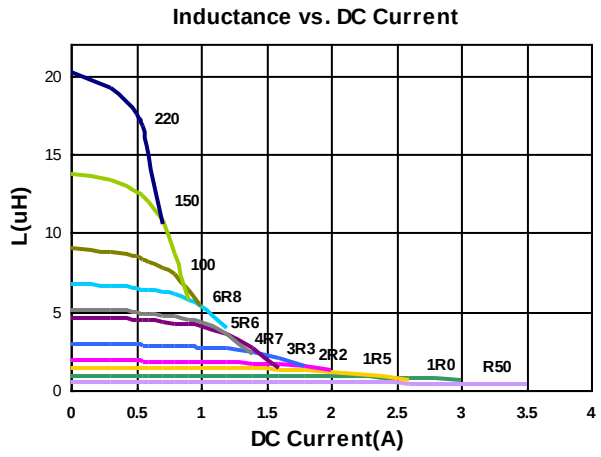
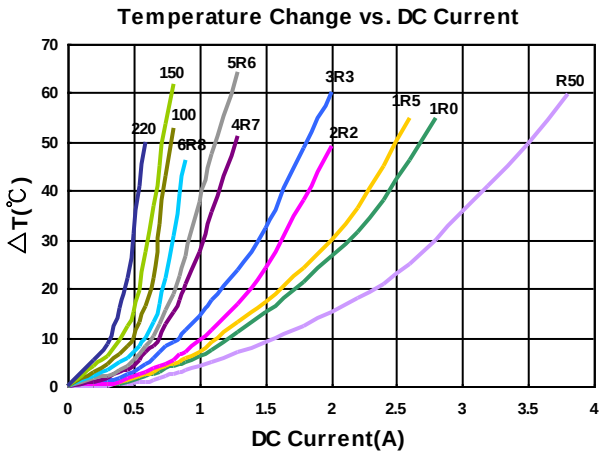
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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BWVF003030101R5□00	1.5	20, 30	1	0.085	1.80(1.62)	1.70(1.53)	1R5
BWVF003030102R2□00	2.2	20, 30	1	0.100	1.50(1.35)	1.40(1.26)	2R2
BWVF003030104R7□00	4.7	20, 30	1	0.205	1.00(0.90)	0.95(0.85)	4R7
BWVF003030106R8□00	6.8	20, 30	1	0.310	0.87(0.78)	0.85(0.76)	6R8
BWVF00303010100□00	10	20, 30	1	0.430	0.64(0.57)	0.63(0.56)	100
BWVF00303010150□00	15	20, 30	1	0.625	0.56(0.50)	0.55(0.49)	150
BWVF00303010220□00	22	20, 30	1	0.870	0.47(0.42)	0.46(0.41)	220
BWVF00303010470□00	47	20, 30	1	1.750	0.29(0.26)	0.28(0.25)	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

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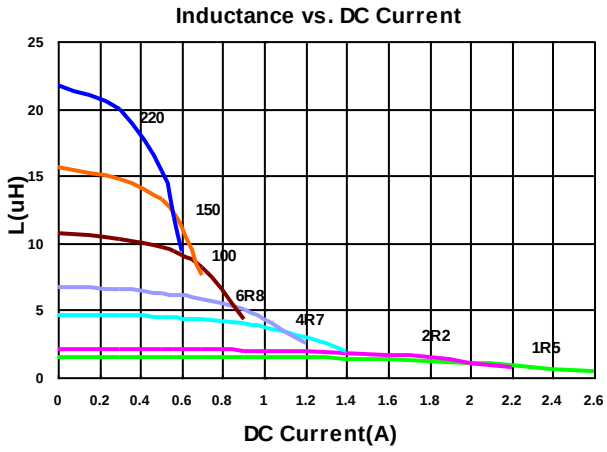
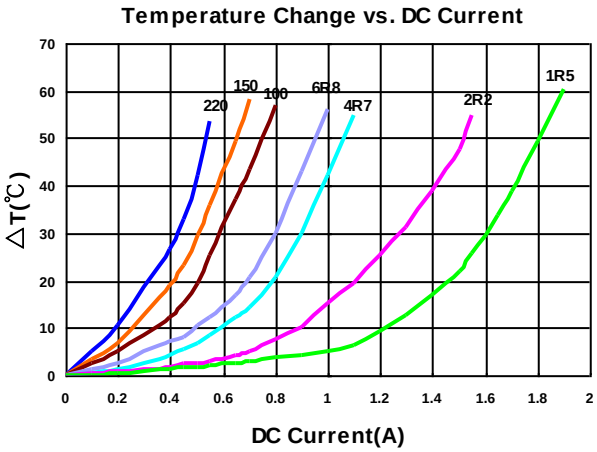
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

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BWVF003030122R2□00	2.2	20, 30	1	0.092	2.10(1.89)	2.00(1.80)	2R2
BWVF003030123R3□00	3.3	20, 30	1	0.13	1.84(1.65)	1.80(1.62)	3R3
BWVF003030124R7□00	4.7	20, 30	1	0.18	1.56(1.40)	1.52(1.36)	4R7
BWVF003030126R8□00	6.8	20, 30	1	0.25	1.32(1.18)	1.30(1.17)	6R8
BWVF00303012100□00	10	20, 30	1	0.42	1.06(0.95)	1.00(0.90)	100
BWVF00303012150□00	15	20, 30	1	0.56	0.82(0.73)	0.80(0.72)	150
BWVF00303012220□00	22	20, 30	1	0.86	0.64(0.57)	0.62(0.55)	220
BWVF00303012470□00	47	20, 30	1	1.82	0.49(0.44)	0.43(0.38)	470

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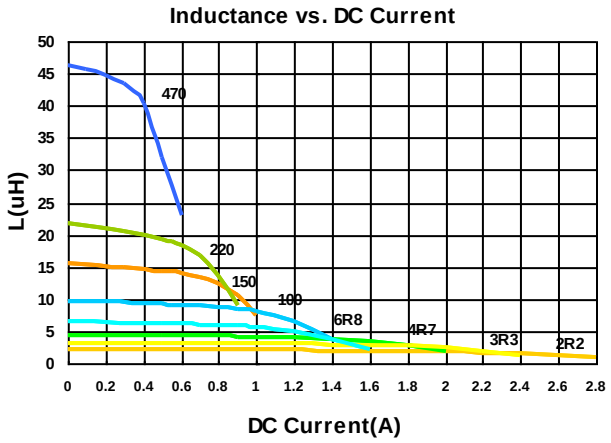
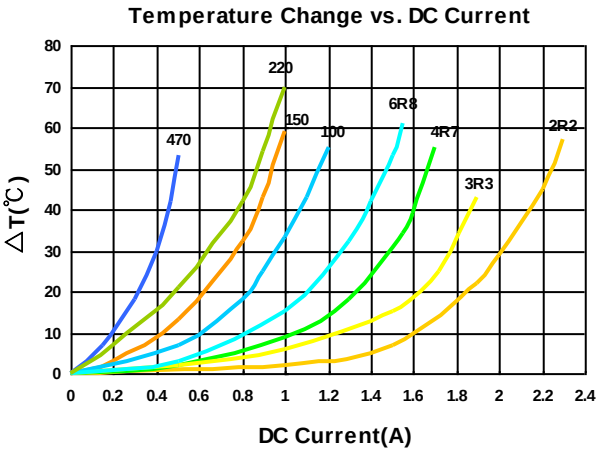
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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BWVF00303015R47□00	0.47	20, 30	1	0.036	4.7(4.23)	4.0(3.60)	R47
BWVF003030151R0□00	1.0	20, 30	1	0.054	3.4(3.06)	3.0(2.70)	1R0
BWVF003030151R5□00	1.5	20, 30	1	0.063	3.0(2.70)	2.6(2.34)	1R5
BWVF003030152R2□00	2.2	20, 30	1	0.090	2.3(2.07)	2.0(1.80)	2R2
BWVF003030153R3□00	3.3	20, 30	1	0.125	1.9(1.71)	1.80(1.62)	3R3
BWVF003030154R7□00	4.7	20, 30	1	0.170	1.58(1.42)	1.52(1.36)	4R7
BWVF003030156R8□00	6.8	20, 30	1	0.235	1.34(1.20)	1.30(1.17)	6R8
BWVF00303015100□00	10	20, 30	1	0.360	1.06(0.95)	1.00(0.90)	100
BWVF00303015150□00	15	20, 30	1	0.550	0.90(0.81)	0.80(0.72)	150
BWVF00303015220□00	22	20, 30	1	0.770	0.76(0.68)	0.65(0.58)	220
BWVF00303015330□00	33	20, 30	1	0.930	0.65(0.58)	0.60(0.54)	330
BWVF00303015470□00	47	20, 30	1	1.500	0.52(0.46)	0.42(0.37)	470
BWVF00303015101□00	100	20, 30	1	2.700	0.36(0.32)	0.3(0.27)	101

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

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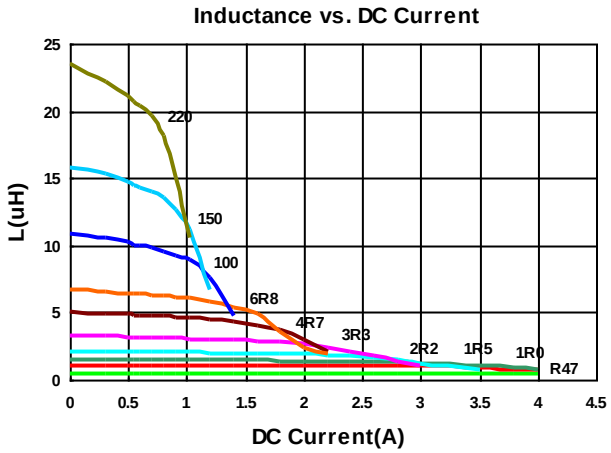
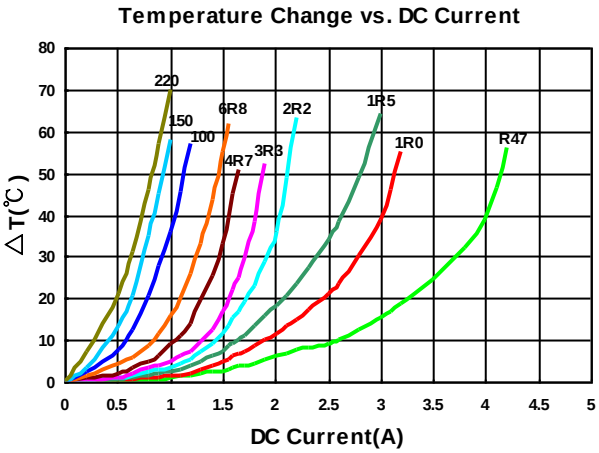
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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BWVF00303015R24□L1	0.24	20, 30	1	0.023	6.0(5.4)	4.3(3.8)	R24
BWVF00303015R47□L1	0.47	20, 30	1	0.03	4.3(3.9)	3.7(3.3)	R47
BWVF00303015R68□L1	0.68	20, 30	1	0.036	3.8(3.4)	3.3(2.9)	R68
BWVF003030151R0□L1	1.0	20, 30	1	0.038	2.7(2.4)	3.2(2.9)	1R0
BWVF003030152R2□L1	2.2	20, 30	1	0.06	2.0(1.8)	2.8(2.5)	2R2
BWVF003030153R3□L1	3.3	20, 30	1	0.095	1.8(1.6)	2.0(1.8)	3R3
BWVF003030154R7□L1	4.7	20, 30	1	0.12	1.5(1.3)	1.7(1.5)	4R7
BWVF003030156R8□L1	6.8	20, 30	1	0.16	1.2(1.0)	1.4(1.2)	6R8
BWVF00303015100□L1	10	20, 30	1	0.22	1.0(0.9)	1.1(0.99)	100
BWVF00303015150□L1	15	20, 30	1	0.36	0.80(0.72)	0.95(0.85)	150
BWVF00303015220□L1	22	20, 30	1	0.5	0.68(0.61)	0.80(0.72)	220
BWVF00303015330□L1	33	20, 30	1	0.7	0.55(0.49)	0.67(0.60)	330
BWVF00303015470□L1	47	20, 30	1	1	0.45(0.40)	0.56(0.50)	470
BWVF00303015560□L1	56	20, 30	1	1.1	0.40(0.36)	0.54(0.48)	560
BWVF00303015680□L1	68	20, 30	1	1.4	0.37(0.33)	0.52(0.46)	680
BWVF00303015101□L1	100	20, 30	1	1.7	0.30(0.27)	0.45(0.40)	101
BWVF00303015151□L1	150	20, 30	1	3.2	0.22(0.19)	0.30(0.27)	151

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

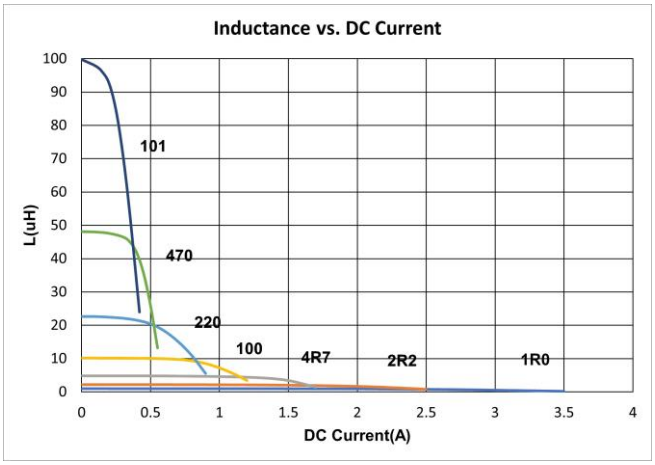
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

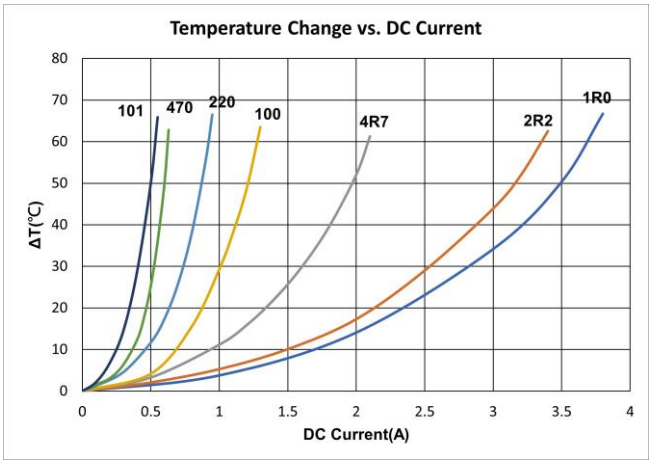
  L：HP 4285A+HP 42841A, 1MHz 200mV

  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

  Isat & Irms：HP 4285A+HP 42841A

Test Instruments：HP4284A Material/Impedance Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVF004040123R3□00	3.3	20, 30	1	0.072	1.52(1.36)	2.10(1.89)	3R3
BWVF00404012100□00	10	20, 30	1	0.190	0.90(0.81)	1.20(1.08)	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

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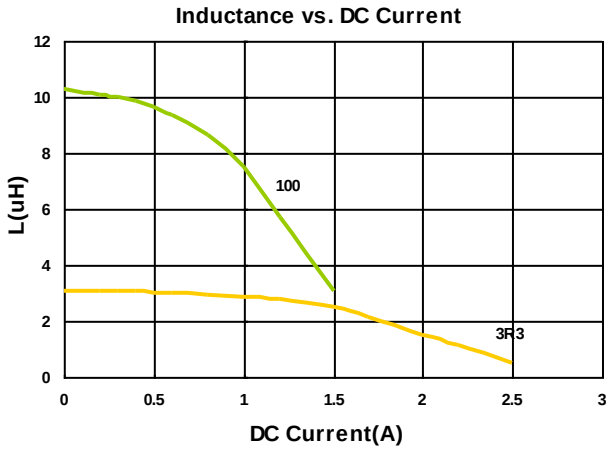
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

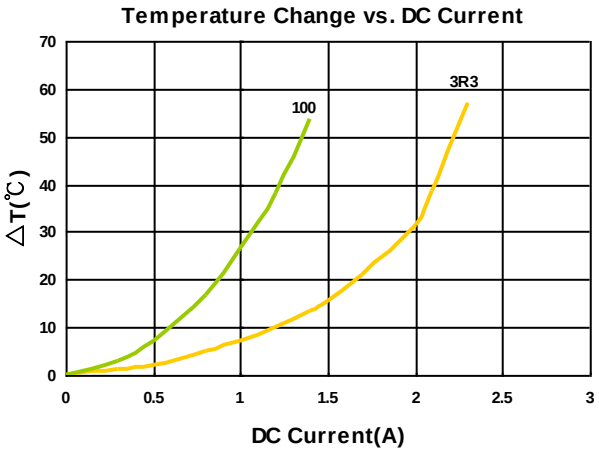
  L：HP4285A+HP42841A, 1MHz 200mV

  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVF00404015R47□00	0.47	20, 30	1	0.019	4.00(3.60)	4.20(3.78)	R47
BWVF004040151R5□00	1.5	20, 30	1	0.041	3.00(2.70)	3.2(2.88)	1R5
BWVF004040152R2□00	2.2	20, 30	1	0.054	2.30(2.07)	2.60(2.34)	2R2
BWVF004040154R7□00	4.7	20, 30	1	0.100	1.60(1.44)	1.80(1.62)	4R7
BWVF004040156R8□00	6.8	20, 30	1	0.138	1.40(1.26)	1.60(1.44)	6R8
BWVF00404015100□00	10	20, 30	1	0.200	1.00(0.90)	1.20(1.08)	100
BWVF00404015150□00	15	20, 30	1	0.300	0.92(0.82)	1.05(0.94)	150
BWVF00404015220□00	22	20, 30	1	0.400	0.72(0.64)	0.85(0.76)	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

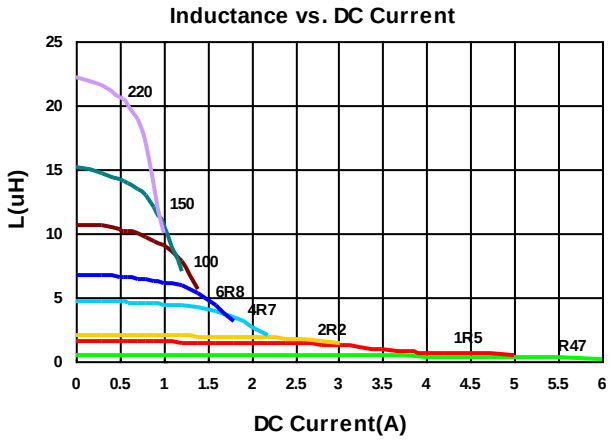
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

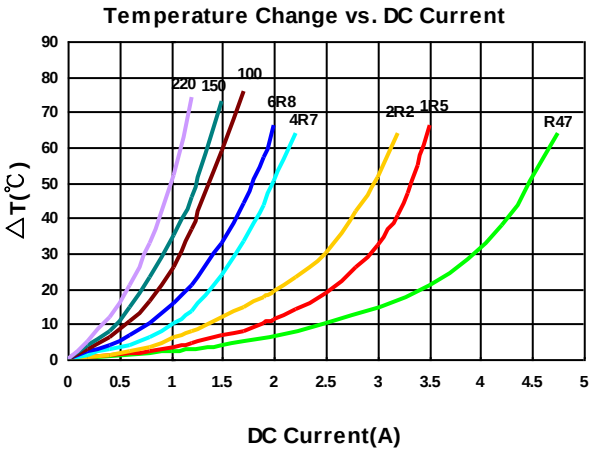
  L：HP4285A+HP42841A, 1MHz 200mV

  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVF004040181R0□00	1.0	20, 30	100	0.0265	4.2(3.78)	3.8(3.42)	1R0
BWVF004040181R5□00	1.5	20, 30	100	0.0370	3.5(3.15)	3.2(2.88)	1R5
BWVF004040182R2□00	2.2	20, 30	100	0.0470	3.0(2.70)	2.7(2.43)	2R2
BWVF004040183R3□00	3.3	20, 30	100	0.0625	2.3(2.07)	2.1(1.89)	3R3
BWVF00404018220□00	22	20, 30	100	0.335	0.90(0.81)	0.88(0.79)	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

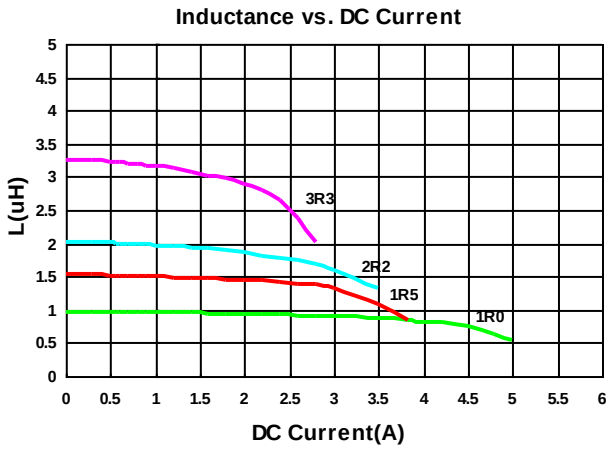
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

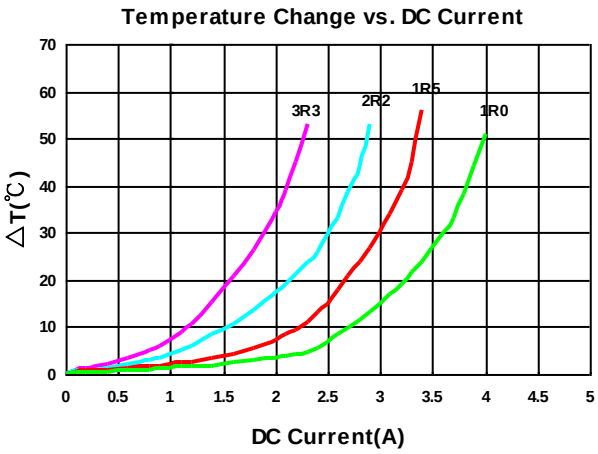
  L：HP4285A+ HP42841A, 100kHz 1V

  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVF004040261R0□00	1.0	20, 30	100	0.030	5.00(4.50)	4.00(3.60)	1R0
BWVF004040261R5□00	1.5	20, 30	100	0.035	4.20(3.78)	3.70(3.33)	1R5
BWVF004040262R2□00	2.2	20, 30	100	0.045	3.80(3.42)	3.50(3.15)	2R2
BWVF004040263R3□00	3.3	20, 30	100	0.067	3.00(2.70)	2.50(2.25)	3R3
BWVF004040264R7□00	4.7	20, 30	100	0.092	2.60(2.34)	2.00(1.80)	4R7
BWVF004040265R6□00	5.6	20, 30	100	0.110	2.30(2.07)	1.90(1.71)	5R6
BWVF004040266R8□00	6.8	20, 30	100	0.130	2.00(1.80)	1.70(1.53)	6R8
BWVF00404026100□00	10	20, 30	100	0.188	1.90(1.71)	1.40(1.26)	100
BWVF00404026150□00	15	20, 30	100	0.240	1.45(1.30)	1.20(1.08)	150
BWVF00404026220□00	22	20, 30	100	0.330	1.22(1.09)	1.00(0.90)	220
BWVF00404026330□00	33	20, 30	100	0.480	1.00(0.90)	0.82(0.73)	330
BWVF00404026470□00	47	20, 30	100	0.735	0.88(0.79)	0.64(0.57)	470
BWVF00404026101□00	100	20, 30	100	1.380	0.58(0.52)	0.50(0.45)	101
BWVF00404026331□00	330	20, 30	100	4.600	0.31(0.27)	0.25(0.22)	331

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

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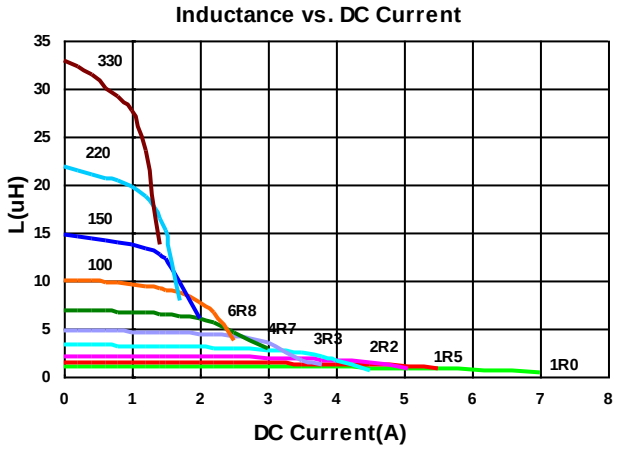
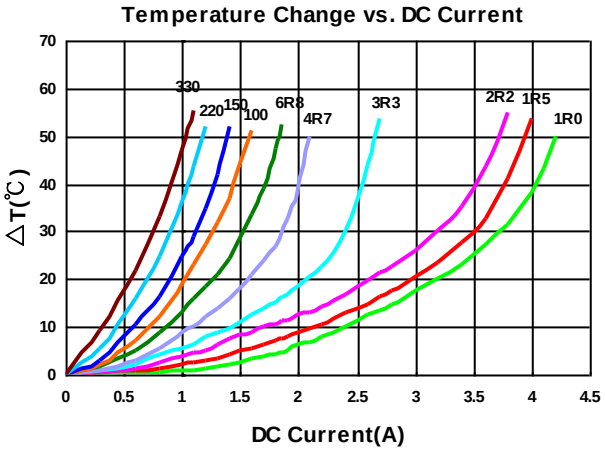
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+ HP42841A, 100kHz 1V
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVF005050201R0□00	1.0	20, 30	100	0.018	6.0(5.40)	4.1(3.69)	1R0
BWVF005050201R5□00	1.5	20, 30	100	0.023	4.9(4.41)	3.5(3.15)	1R5
BWVF005050201R8□00	1.8	20, 30	100	0.026	4.1(3.60)	3.4(3.00)	1R8
BWVF005050202R2□00	2.2	20, 30	100	0.030	4.0(3.60)	3.3(2.97)	2R2
BWVF005050203R6□00	3.6	20, 30	100	0.050	3.1(2.70)	2.7(2.40)	3R6
BWVF005050203R9□00	3.9	20, 30	100	0.053	2.9(2.61)	2.6(2.34)	3R9
BWVF005050204R7□00	4.7	20, 30	100	0.060	2.7(2.43)	2.2(1.98)	4R7
BWVF005050206R8□00	6.8	20, 30	100	0.093	2.2(1.98)	1.8(1.62)	6R8
BWVF00505020100□00	10	20, 30	100	0.125	1.8(1.62)	1.6(1.44)	100
BWVF00505020150□00	15	20, 30	100	0.195	1.4(1.26)	1.2(1.08)	150
BWVF00505020220□00	22	20, 30	100	0.265	1.2(1.08)	1.0(0.90)	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

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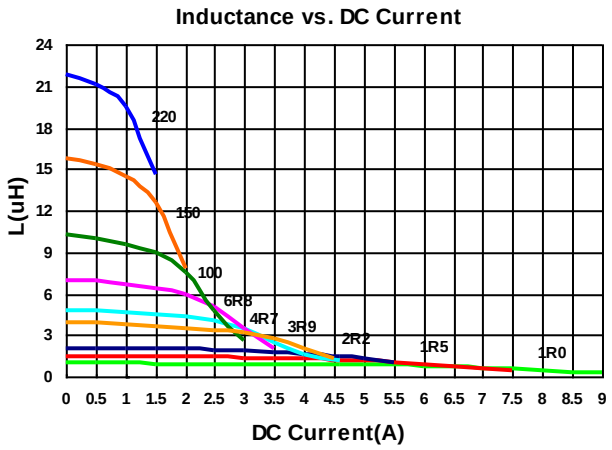
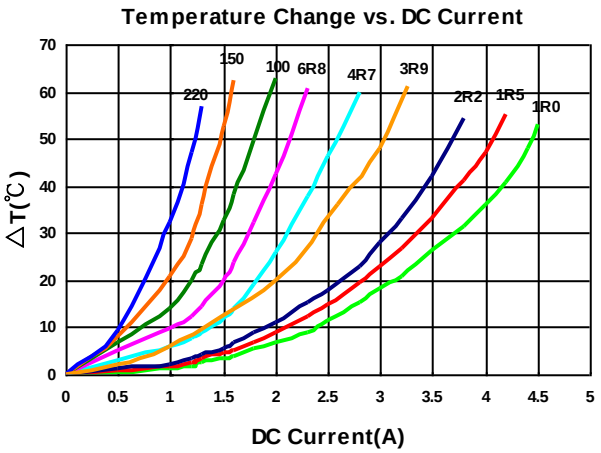
- Measure Equipment：
- L：HP4285A+ HP42841A, 100kHz 1V
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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BWVF006060204R7□00	4.7	20, 30	100	0.058	3.0(2.70)	2.3(2.07)	4R7
BWVF00606020100□00	10	20, 30	100	0.130	2.1(1.89)	1.6(1.44)	100
BWVF00606020150□00	15	20, 30	100	0.195	1.6(1.44)	1.3(1.17)	150
BWVF00606020220□00	22	20, 30	100	0.260	1.3(1.17)	1.1(0.99)	220
BWVF00606020470□00	47	20, 30	100	0.510	0.9(0.80)	0.8(0.72)	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

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- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
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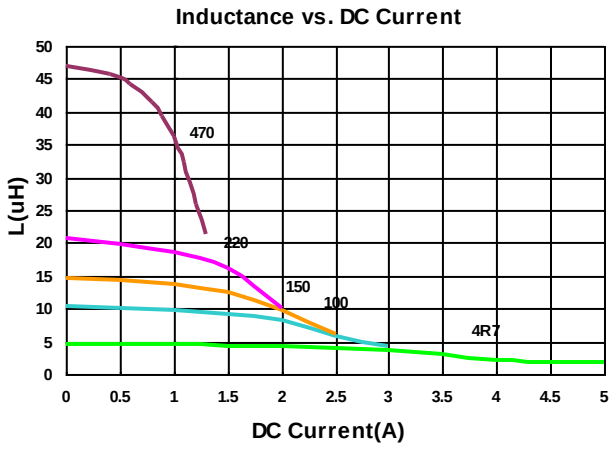
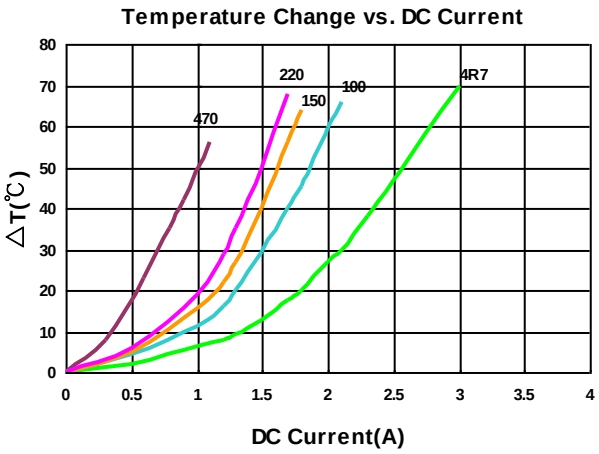
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVF006060281R0□00	1.0	20, 30	100	0.012	7.9(7.11)	6.3(5.67)	1R0
BWVF006060281R5□00	1.5	20, 30	100	0.015	7.0(6.30)	5.5(4.95)	1R5
BWVF006060282R2□00	2.2	20, 30	100	0.020	6.0(5.40)	5.0(4.50)	2R2
BWVF006060284R7□00	4.7	20, 30	100	0.036	4.0(3.60)	3.4(3.06)	4R7
BWVF006060286R8□00	6.8	20, 30	100	0.048	3.2(2.88)	3.0(2.70)	6R8

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

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  Isat & Irms：Agilent HP4284A

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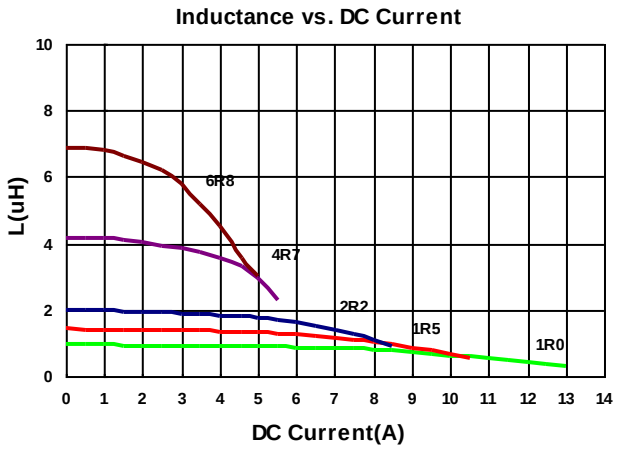

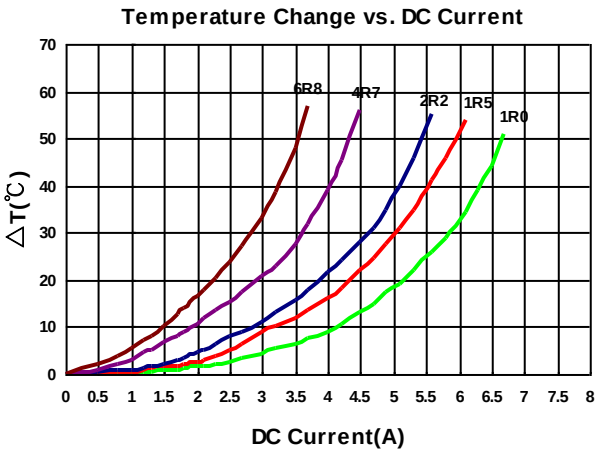

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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVF008080404R7□00	4.7	20, 30	100	0.020	6.8(6.12)	5.5(4.95)	4R7
BWVF00808040100□00	10	20, 30	100	0.038	5.0(4.50)	3.8(3.42)	100
BWVF00808040150□00	15	20, 30	100	0.057	4.0(3.60)	3.2(2.88)	150
BWVF00808040220□00	22	20, 30	100	0.082	3.4(3.06)	2.7(2.43)	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

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- Measure Equipment：
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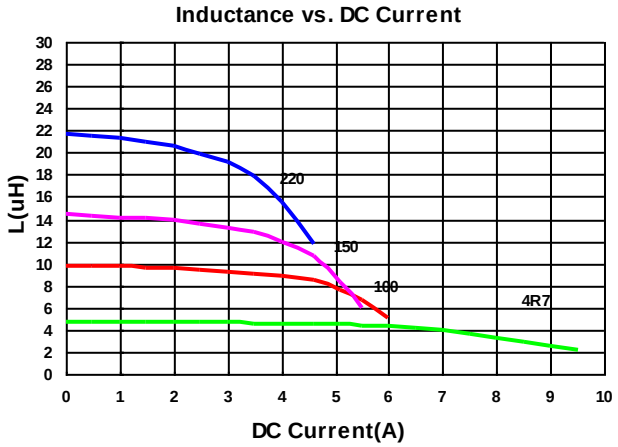
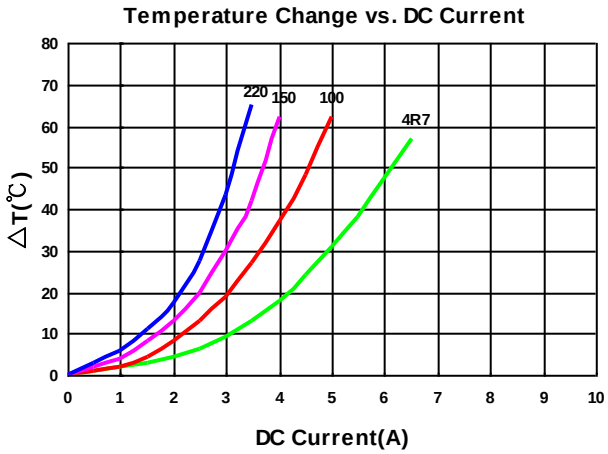
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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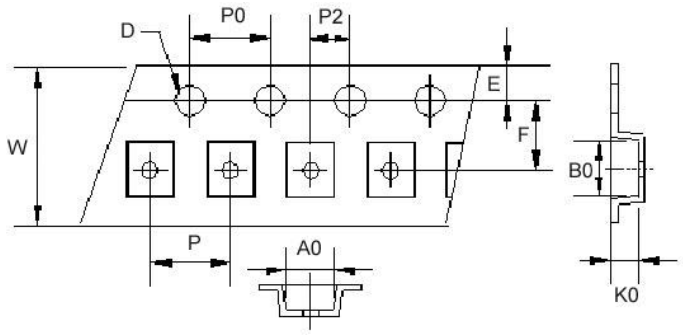
Packaging Specifications

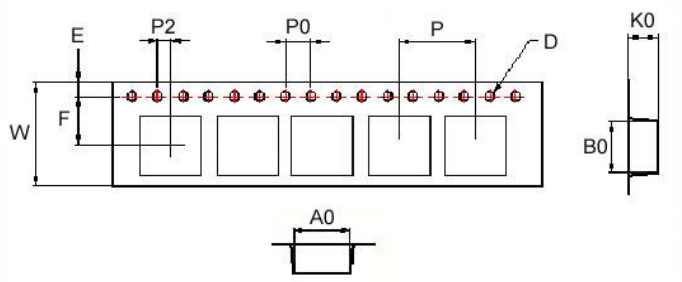
Tape Dimensions

Figure 1



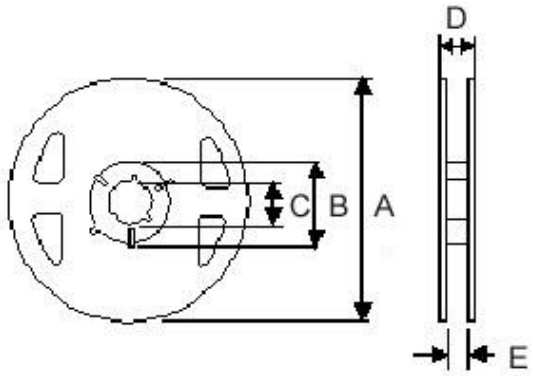
Tape Dimensions

Figure 2



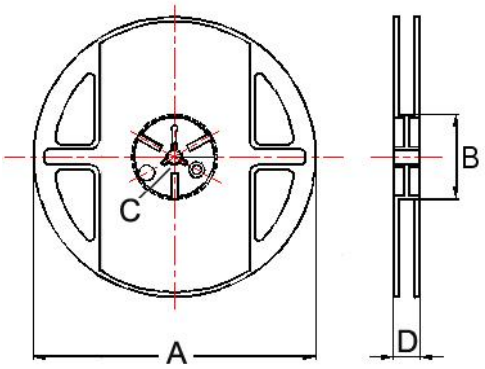
Reel Dimensions

Figure 1



Reel Dimensions

Figure 2



Dimensions in mm

TYPE	Fig	Tape Dimensions										Reel Dimensions					Quantity
		A0	B0	K0	D	E	F	W	P	P0	P2	A	B	C	D	E	PCS / Reel
BWVF00201612	1	1.90	2.20	1.30	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVF00252010	1	2.40	2.70	1.15	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVF00252012	1	2.40	2.70	1.35	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVF00303010	1	3.20	3.20	1.40	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVF00303012	1	3.20	3.20	1.40	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVF00303015	1	3.15	3.15	1.60	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVF00404012	2	4.25	4.25	1.30	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	1000
BWVF00404015	2	4.25	4.25	1.70	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	1000
BWVF00404018	2	4.25	4.25	2.10	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	800
BWVF00404026	2	4.25	4.25	3.00	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	500
BWVF00505020	2	5.25	5.25	2.20	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	-	2000
BWVF00606020	2	6.25	6.25	2.20	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	-	2000
BWVF00606028	2	6.25	6.25	3.00	1.55	1.75	7.5	16	12	4	2	330	100	13	16.0	-	1500
BWVF00808040	2	8.25	8.25	4.15	1.55	1.75	7.5	16	12	4	2	330	100	13	16.0	-	1000

BWVT Series

BWVT series, an automatic assembly constructed power inductor, is shielded with magnetic resin and suitable for portable DC-DC converter applications.

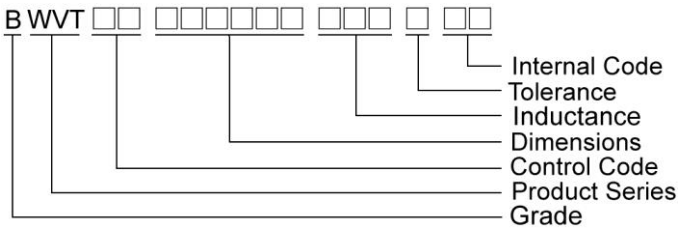
Features

- RoHS, Halogen Free and REACH Compliance
- Shielded with magnetic resin
- Various package size and wide inductance range
- Optimize electrical characteristics by using different ferrite core figures

Applications

- Smartphones, tablets and wearable devices
- DSC, camcorders
- AP Routers
- STBs
- LCD TVs, monitors and panels
- Game consoles
- DC/DC converters

Product Identification



Shape and Dimensions

Figure 1

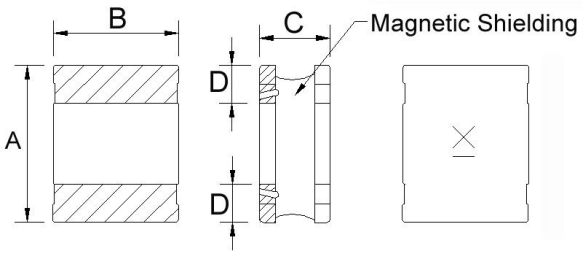
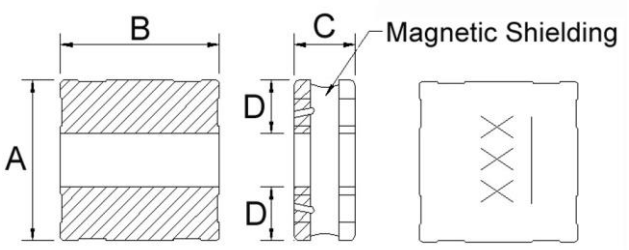


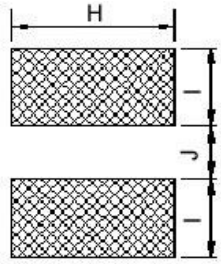
Figure 2



Dimensions in mm

TYPE	FIG	A	B	C	D	H	I	J
BWVT00201610	1	2.0±0.25	1.6±0.25	1.00Max	0.6	1.8	0.80	0.8
BWVT00252010	1	2.5±0.25	2.0±0.25	1.02 Max	0.8	2.2	0.85	0.8
BWVT00252012	1	2.5±0.25	2.0±0.25	1.2±0.05	0.8	2.2	0.85	0.8
BWVT00303010	2	3.0±0.20	3.0±0.20	1.02 Max	1.0	3.2	1.1	1.0
BWVT00303012	2	3.0±0.20	3.0±0.20	1.20 Max	1.0	3.2	1.1	1.0
BWVT00404012	2	4.0±0.20	4.0±0.20	1.2±0.1	1.5	4.2	1.5	1.2

Recommended Pattern



Shape and Dimensions

Figure 3

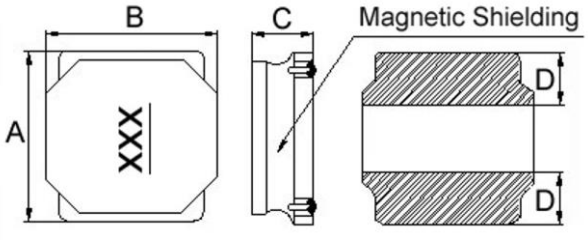
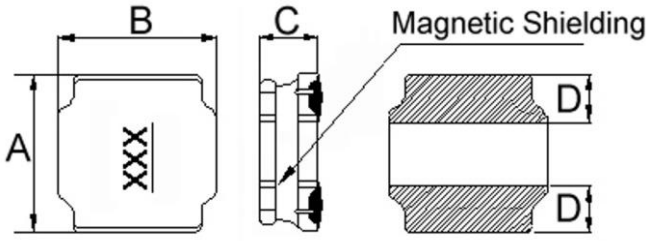


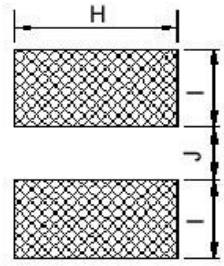
Figure 4



Dimensions in mm

TYPE	FIG	A	B	C	D	H	I	J
BWVT00404015	3	4.0±0.25	4.0±0.25	1.5±0.2	1.3	3.7	1.5	1.2
BWVT00404026	3	4.0±0.20	4.0±0.20	2.6±0.2	1.4	3.7	1.6	1.2
BWVT00505020	4	5.0±0.2	5.0±0.2	2.0±0.2	1.8±0.3	4.2	1.6	2.0
BWVT00606020	4	6.0±0.2	6.0±0.2	2.0±0.2	1.7±0.3	5.7	1.7	2.8
BWVT00808040	4	8.0±0.2	8.0±0.2	$4.0^{+0.2}_{-0.30}$	2.3±0.3	7.5	2.5	3.4

Recommended Pattern



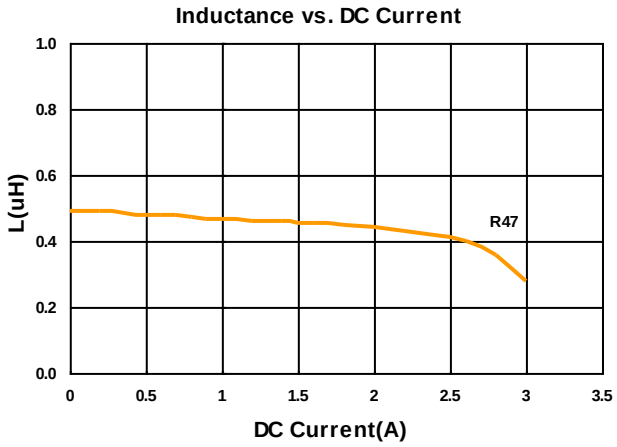
Electrical Characteristics

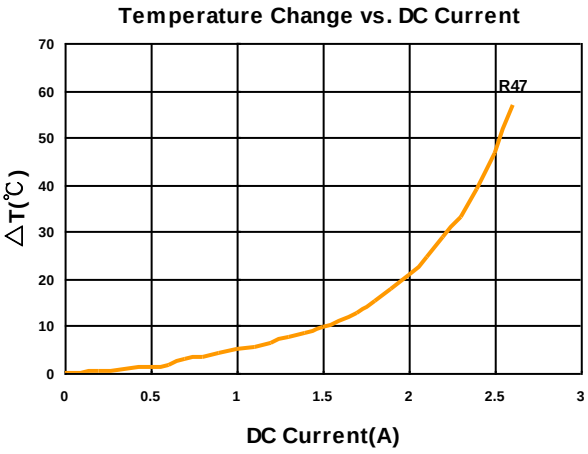
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVT00201610R47□00	0.47	20, 30	1	72	2.4(2.16)	2.4(2.16)	A

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+HP42841A, 1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVT00252010R68□00	0.68	20, 30	1	0.050	2.40(2.160)	2.20(1.980)	K
BWVT002520102R2□00	2.2	20, 30	1	0.135	1.42(1.270)	1.55(1.390)	D
BWVT002520103R3□00	3.3	20, 30	1	0.220	1.12(1.000)	1.20(1.080)	E
BWVT002520106R8□00	6.8	20, 30	1	0.435	0.78(0.700)	0.84(0.750)	G

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
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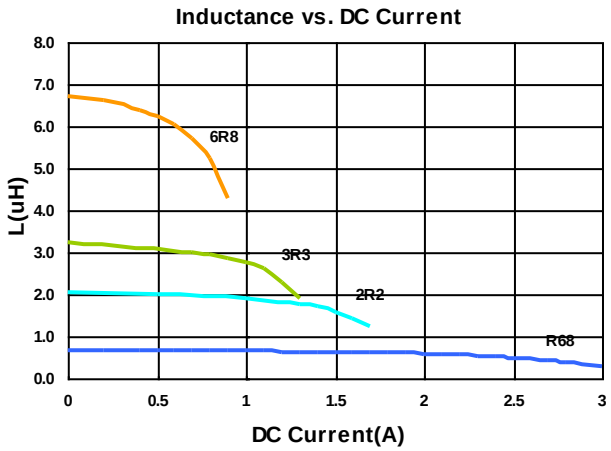
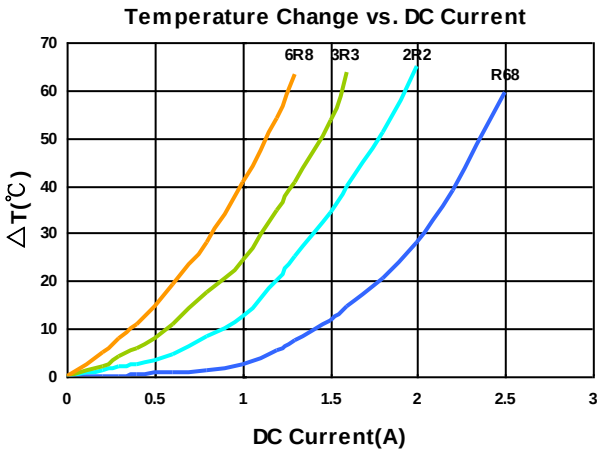
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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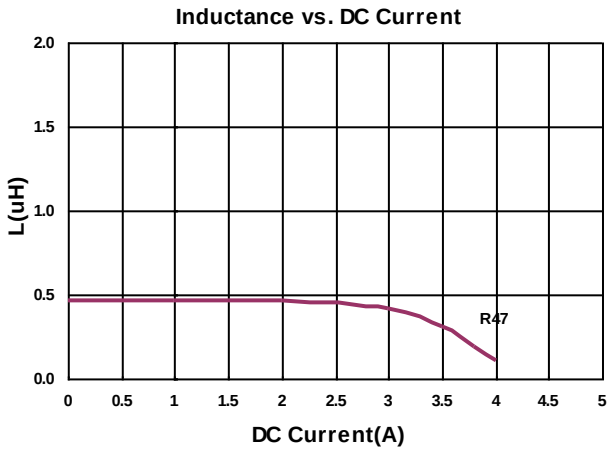
Electrical Characteristics

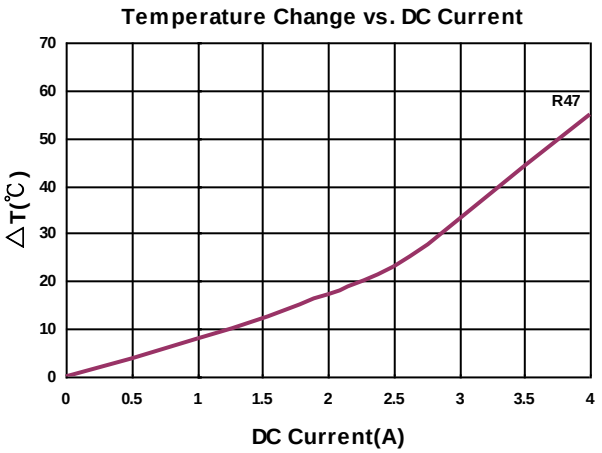
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVT00252012R47□00	0.47	20, 30	1	0.027	3.70(3.330)	3.10(2.790)	A

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+HP42841A, 1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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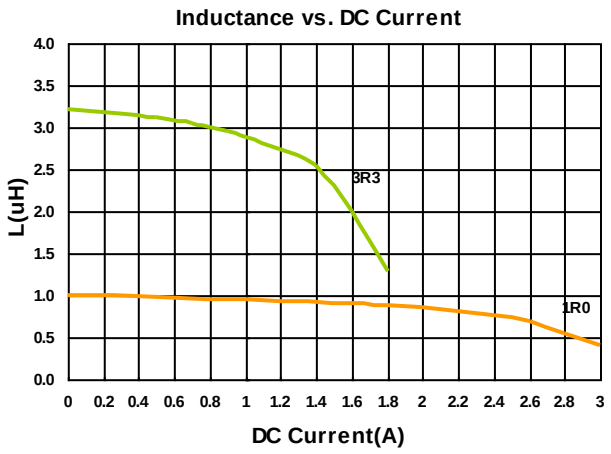
Electrical Characteristics

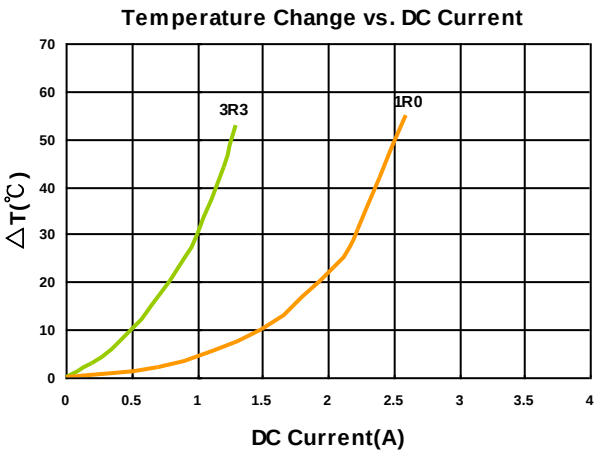
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVT003030101R0□00	1.0	20, 30	1	0.063	2.4(2.16)	2.3(2.07)	1R0
BWVT003030103R3□00	3.3	20, 30	1	0.165	1.2(1.08)	1.1(0.99)	3R3

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+HP42841A, 1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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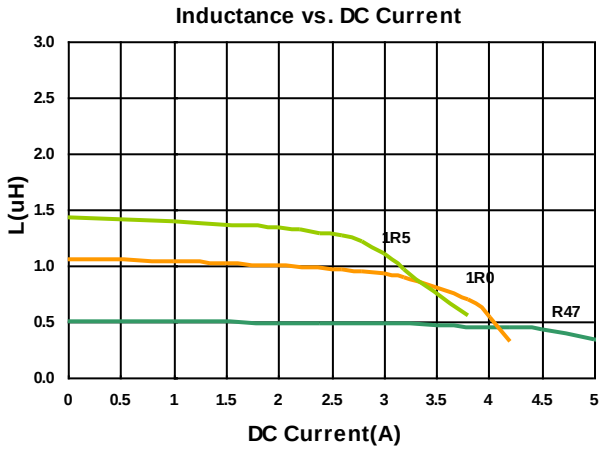
Electrical Characteristics

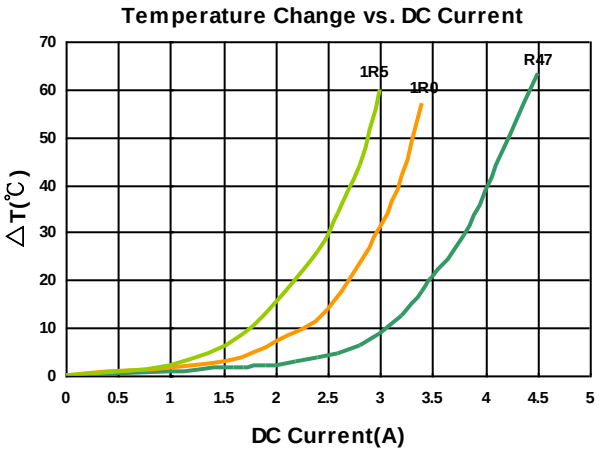
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVT00303012R47□00	0.47	20, 30	1	0.032	4.3(3.87)	4.0(3.60)	R47
BWVT003030121R0□00	1.0	20, 30	1	0.060	3.1(2.79)	3.0(2.70)	1R0
BWVT003030121R5□00	1.5	20, 30	1	0.072	2.7(2.43)	2.6(2.34)	1R5

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+HP42841A, 1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

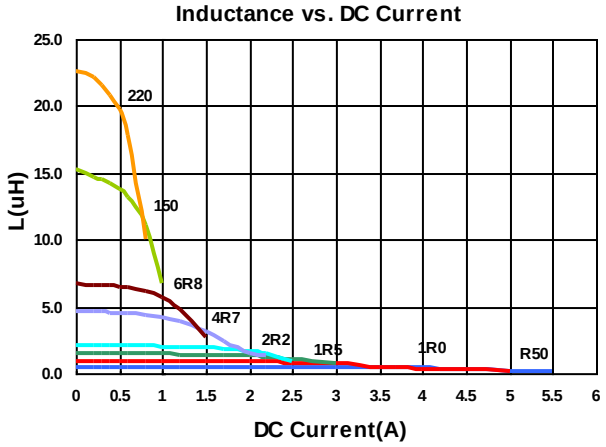
Electrical Characteristics

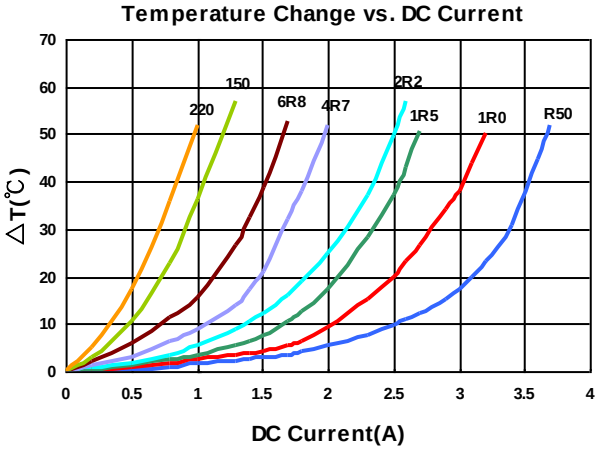
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVT00404012R50□00	0.5	20, 30	1	0.030	3.90(3.51)	3.50(3.15)	R50
BWVT004040121R0□00	1.0	20, 30	1	0.040	2.90(2.60)	3.00(2.70)	1R0
BWVT004040121R5□00	1.5	20, 30	1	0.051	2.30(2.07)	2.50(2.25)	1R5
BWVT004040122R2□00	2.2	20, 30	1	0.060	1.90(1.71)	2.30(2.07)	2R2
BWVT004040124R7□00	4.7	20, 30	1	0.094	1.32(1.18)	1.80(1.62)	4R7
BWVT004040126R8□00	6.8	20, 30	1	0.135	1.08(0.97)	1.50(1.35)	6R8
BWVT00404012150□00	15	20, 30	1	0.260	0.78(0.70)	1.00(0.90)	150
BWVT00404012220□00	22	20, 30	1	0.390	0.62(0.55)	0.80(0.72)	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+HP42841A, 1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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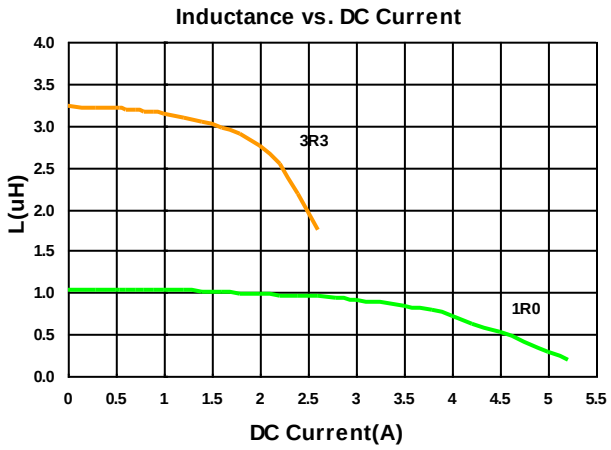
Electrical Characteristics

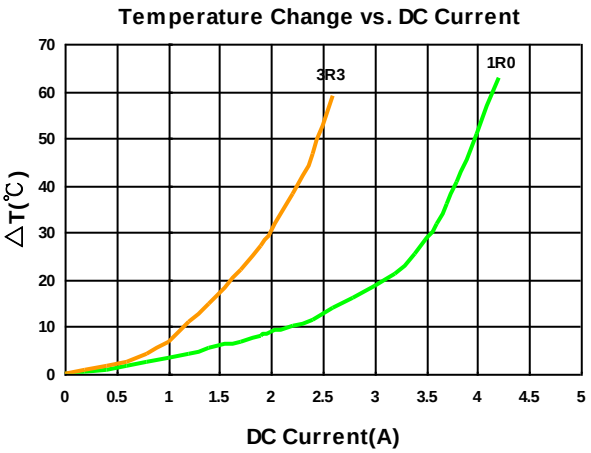
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVT004040151R0□00	1.0	20, 30	1	0.034	3.60(3.24)	3.70(3.33)	1R0
BWVT004040153R3□00	3.3	20, 30	1	0.080	2.00(1.80)	2.20(1.98)	3R3

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+HP42841A, 1MHz 200mV
- RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

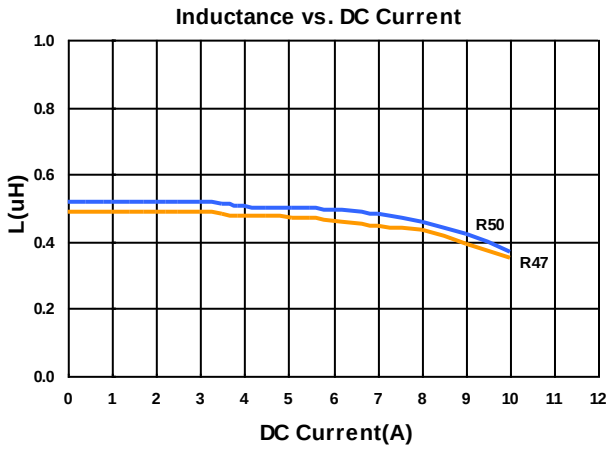
Electrical Characteristics

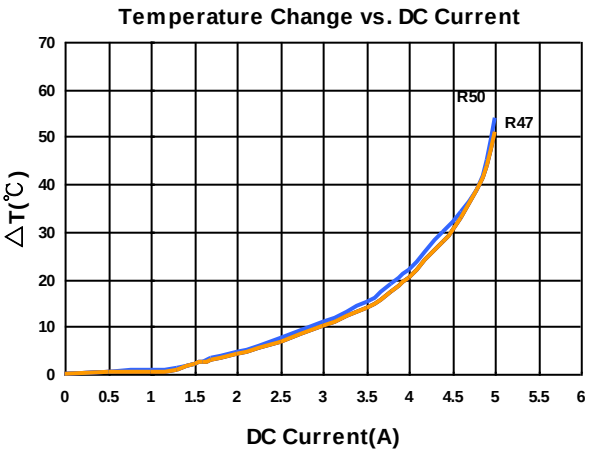
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVT00404026R47□00	0.47	20, 30	100	0.024	7.20(6.48)	4.80(4.32)	R47
BWVT00404026R50□00	0.50	20, 30	100	0.024	7.20(6.48)	4.80(4.32)	R50

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+ HP42841A, 100kHz 1V
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVT00505020R47□00	0.47	20, 30	100	0.0135	8.0(7.2)	5.5(5.0)	R47
BWVT005050203R3□00	3.3	20, 30	100	0.050	3.4(3.06)	2.7(2.43)	3R3

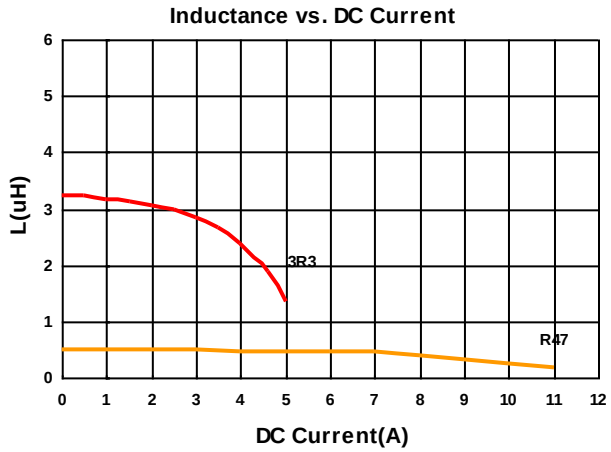
Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

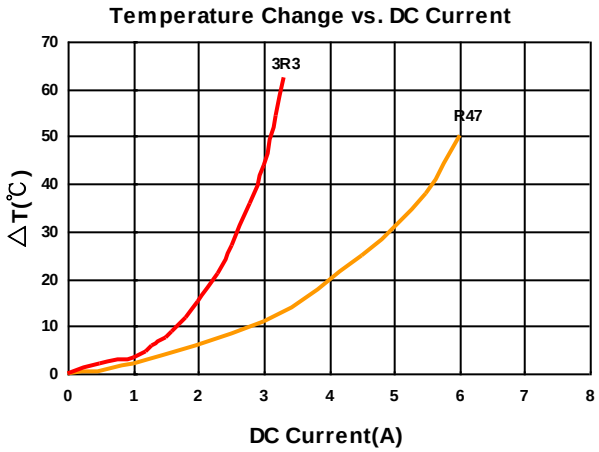
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+ HP42841A, 100kHz 1V

  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

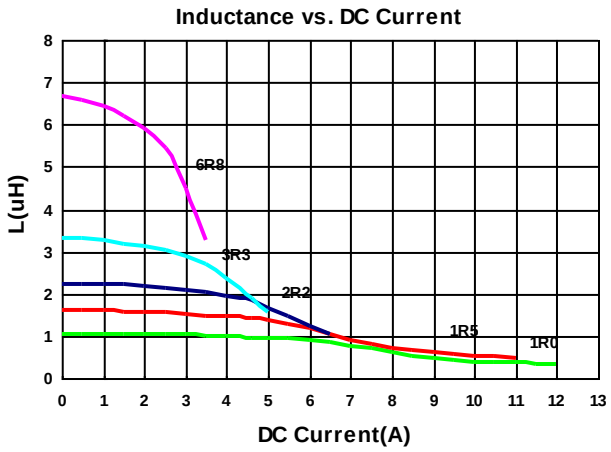
Electrical Characteristics

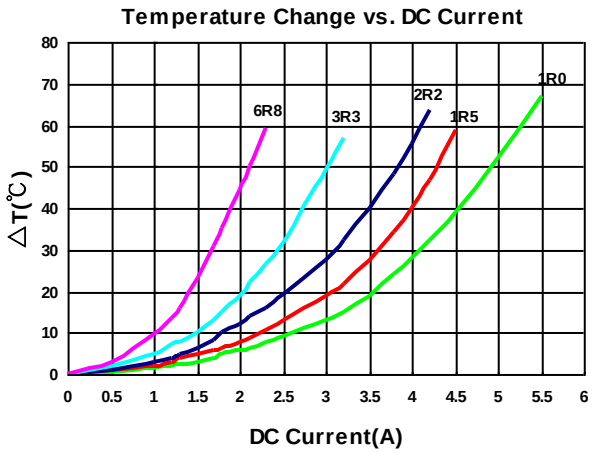
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVT006060201R0□00	1.0	20, 30	100	0.019	6.4(5.76)	4.2(3.78)	1R0
BWVT006060201R5□00	1.5	20, 30	100	0.026	5.4(4.86)	3.7(3.33)	1R5
BWVT006060202R2□00	2.2	20, 30	100	0.034	4.5(4.05)	3.3(2.97)	2R2
BWVT006060203R3□00	3.3	20, 30	100	0.045	3.6(3.24)	2.8(2.52)	3R3
BWVT006060206R8□00	6.8	20, 30	100	0.085	2.6(2.34)	1.9(1.71)	6R8

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+ HP42841A, 100kHz 1V
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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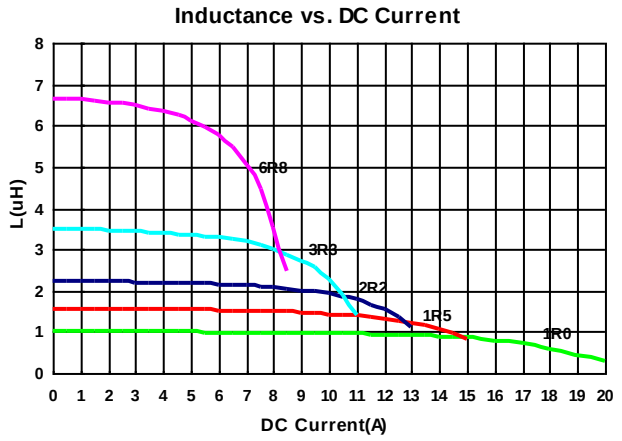
Electrical Characteristics

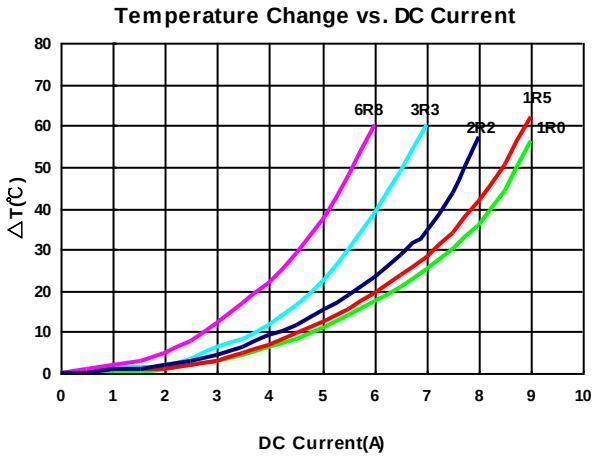
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVT008080401R0□00	1.0	20, 30	100	0.0075	13.5(12.15)	8.1(7.29)	1R0
BWVT008080401R5□00	1.5	20, 30	100	0.0097	10.5(9.45)	7.7(6.93)	1R5
BWVT008080402R2□00	2.2	20, 30	100	0.012	9.7(8.73)	7.2(6.48)	2R2
BWVT008080403R3□00	3.3	20, 30	100	0.047	8.0(7.20)	5.9(5.31)	3R3
BWVT008080406R8□00	6.8	20, 30	100	0.029	5.8(5.22)	4.9(4.41)	6R8

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+ HP42841A, 100kHz 1V
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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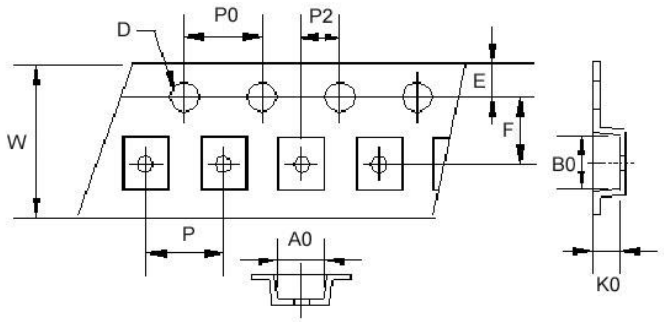
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Packaging Specifications

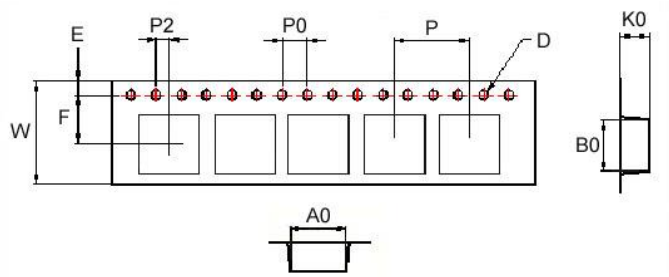
Tape Dimensions

Figure 1



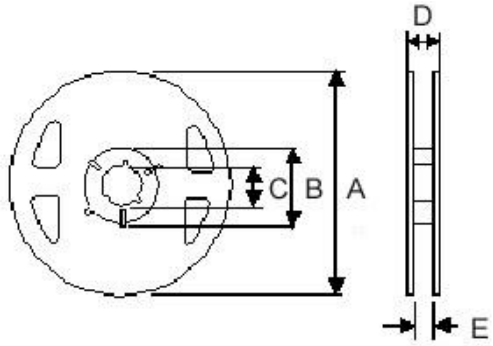
Tape Dimensions

Figure 2



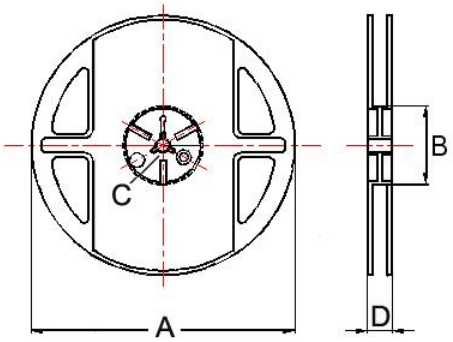
Reel Dimensions

Figure 1



Reel Dimensions

Figure 2



Dimensions in mm

TYPE	Fig	Tape Dimensions										Reel Dimensions					Quantity
		A0	B0	K0	D	E	F	W	P	P0	P2	A	B	C	D	E	PCS / Reel
BWVT00201610	1	1.90	2.20	1.15	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVT00252010	1	2.40	2.70	1.15	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVT00252012	1	2.40	2.70	1.35	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVT00303010	1	3.20	3.20	1.40	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVT00303012	1	3.20	3.20	1.40	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVT00404012	2	4.25	4.25	1.30	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	1000
BWVT00404015	2	4.25	4.25	1.70	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	1000
BWVT00404026	2	4.25	4.25	3.00	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	500
BWVT00505020	2	5.25	5.25	2.20	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	-	2000
BWVT00606020	2	6.25	6.25	2.20	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	-	2000
BWVT00808040	2	8.25	8.25	4.15	1.55	1.75	7.5	16	12	4	2	330	100	13	16.0	-	1000

BWVC Series

BWVC series, an automatic assembly constructed power inductor, is shielded with magnetic resin and suitable for portable DC-DC converter application.

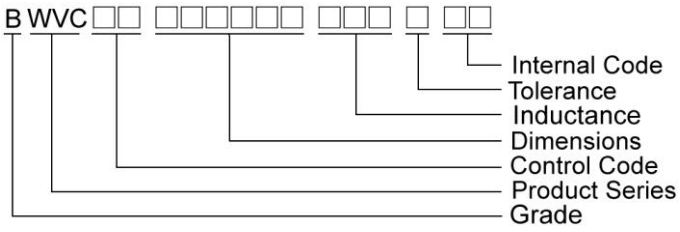
Features

- RoHS, Halogen Free and REACH Compliance
- Shielded with magnetic resin
- Various package size and wide inductance range
- Optimize electrical characteristics by using different ferrite core figures

Applications

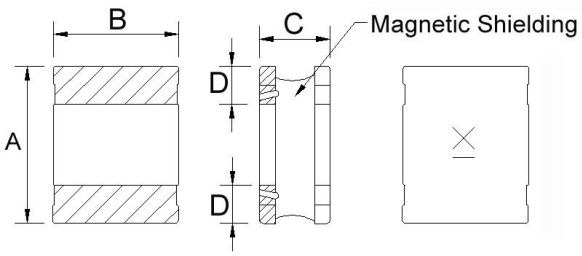
- Smartphones, tablets and wearable devices
- DSC, camcorders
- AP Routers
- STBs
- LCD TVs, monitors and panels
- Game consoles
- DC/DC converters

Product Identification

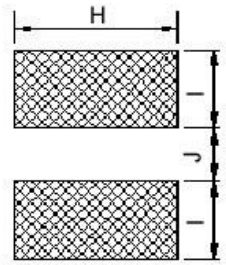


Shape and Dimensions

Figure 1



Recommended Pattern

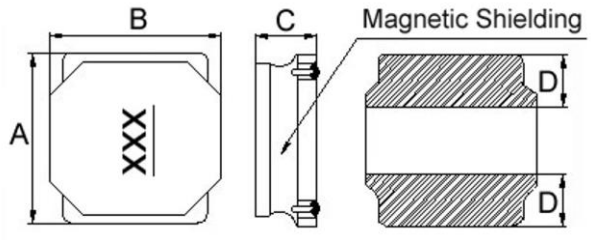


Dimensions in mm

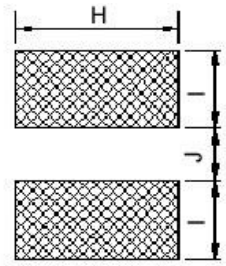
TYPE	FIG	A	B	C	D	H	I	J
BWVC00201610	1	2.0±0.25	1.6±0.25	1.00 Max	0.6	1.8	0.80	0.8
BWVC00201612	1	2.0±0.25	1.6±0.25	1.2±0.05	0.6	1.8	0.80	0.8
BWVC00252012	1	2.5±0.25	2.0±0.25	1.2±0.05	0.8	2.2	0.85	0.8

Shape and Dimensions

Figure 2



Recommended Pattern

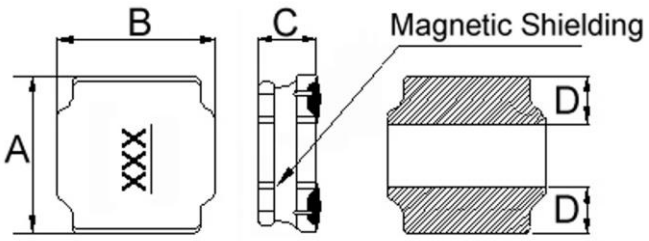


Dimensions in mm

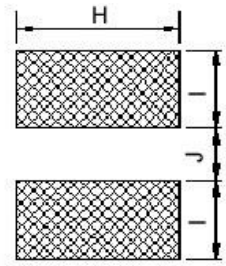
TYPE	FIG	A	B	C	D	H	I	J
BWVC00404018	2	4.0±0.20	4.0±0.20	1.9 Max	1.3	3.7	1.5	1.2

Shape and Dimensions

Figure 3



Recommended Pattern



Dimensions in mm

TYPE	FIG	A	B	C	D	H	I	J
BWVC00505040	3	5.0±0.20	5.0±0.20	4.0±0.2	1.5	4.2	1.6	2.0
BWVC00606028	3	6.0±0.20	6.0±0.20	2.8±0.2	1.9±0.3	5.7	1.8	2.6
BWVC00606045	3	6.0±0.20	6.0±0.20	$4.5^{+0.2}_{-0.30}$	1.8±0.3	5.7	2.0	2.4

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVC00201610R24□00	0.24	20, 30	1	0.026	3.20(2.80)	3.00(2.70)	M
BWVC002016101R0□00	1.0	20, 30	1	0.095	1.86(1.67)	1.86(1.67)	B
BWVC002016101R5□00	1.5	20, 30	1	0.140	1.64(1.47)	1.65(1.48)	C
BWVC002016102R2□00	2.2	20, 30	1	0.190	1.30(1.17)	1.30(1.17)	D
BWVC002016103R3□00	3.3	20, 30	1	0.295	0.96(0.86)	0.98(0.88)	E
BWVC002016104R7□00	4.7	20, 30	1	0.360	0.84(0.75)	0.90(0.81)	F
BWVC002016106R8□00	6.8	20, 30	1	0.640	0.66(0.59)	0.70(0.63)	G
BWVC00201610100□00	10	20, 30	1	1.000	0.54(0.48)	0.56(0.50)	H
BWVC00201610150□00	15	20, 30	1	1.500	0.39(0.35)	0.42(0.37)	K
BWVC00201610180□00	18	20, 30	1	1.600	0.39(0.35)	0.41(0.36)	J
BWVC00201610220□00	22	20, 30	1	1.700	0.38(0.34)	0.40(0.36)	I

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

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- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
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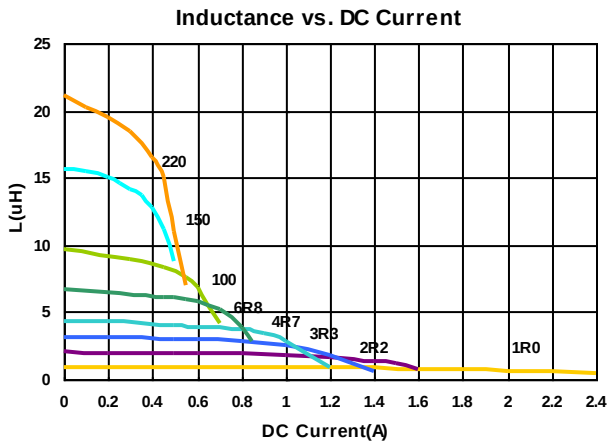
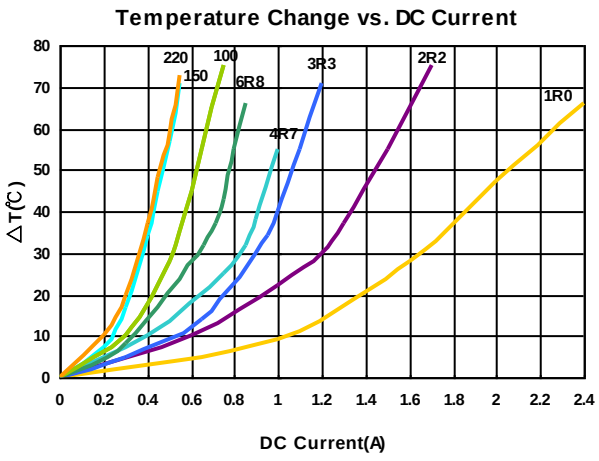
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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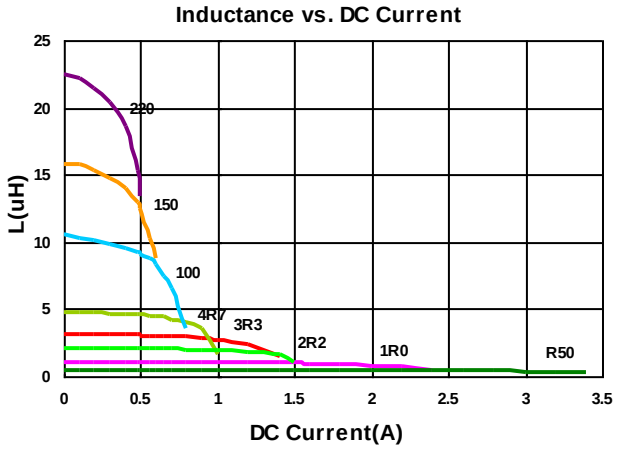
Electrical Characteristics

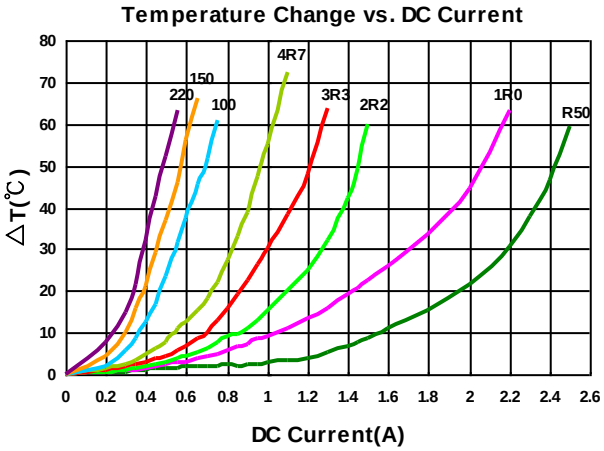
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVC00201612R50□00	0.5	20, 30	1	0.051	2.60(2.34)	2.30(2.07)	B
BWVC002016121R0□00	1.0	20, 30	1	0.083	1.90(1.71)	1.80(1.62)	C
BWVC002016122R2□00	2.2	20, 30	1	0.159	1.36(1.22)	1.34(1.20)	E
BWVC002016123R3□00	3.3	20, 30	1	0.220	1.10(0.99)	1.06(0.95)	F
BWVC002016124R7□00	4.7	20, 30	1	0.330	0.92(0.82)	0.90(0.81)	G
BWVC00201612100□00	10	20, 30	1	0.580	0.62(0.55)	0.58(0.52)	I
BWVC00201612150□00	15	20, 30	1	0.900	0.48(0.43)	0.45(0.40)	J
BWVC00201612220□00	22	20, 30	1	1.400	0.40(0.36)	0.40(0.36)	K

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+HP42841A, 1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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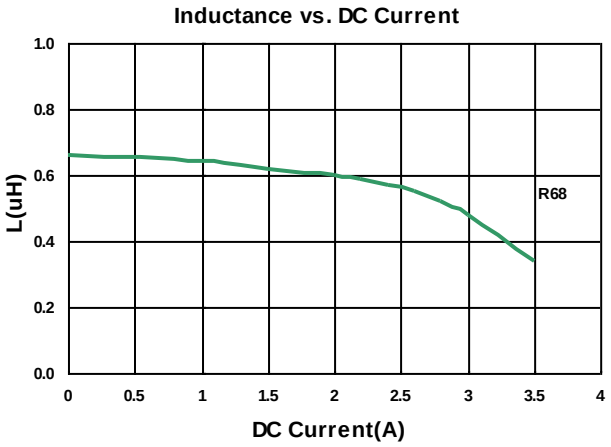
Electrical Characteristics

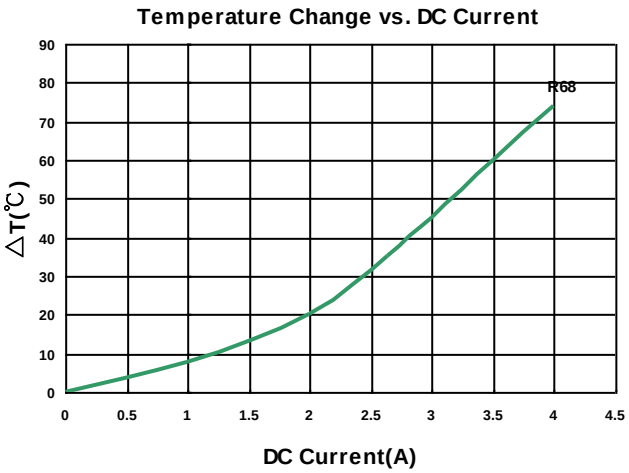
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVC00252012-R68□00	0.68	20, 30	1	0.035	2.80(2.52)	2.60(2.34)	N

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+HP42841A, 1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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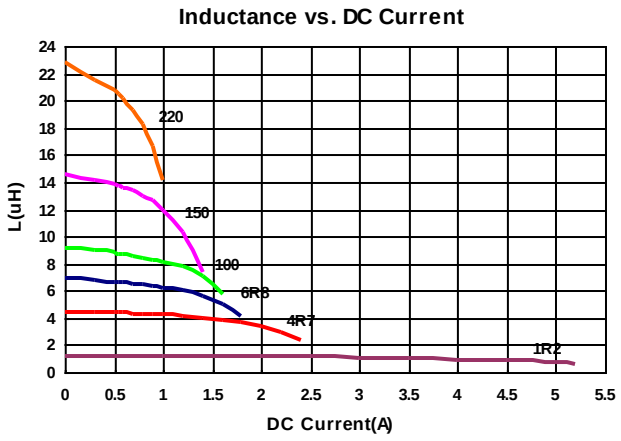
Electrical Characteristics

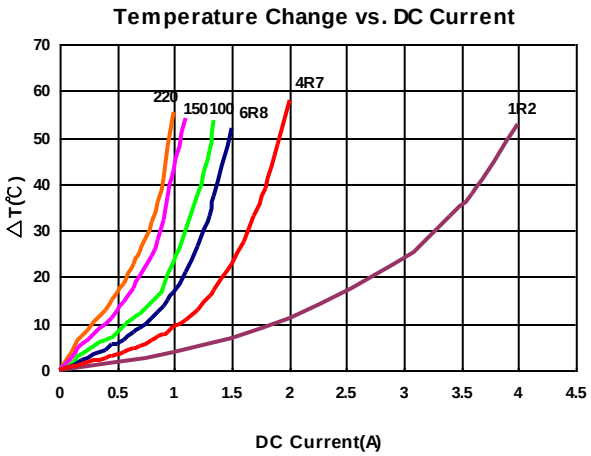
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVC004040181R2□00	1.2	20, 30	100	0.027	3.70(3.30)	3.60(3.20)	1R2
BWVC004040184R7□00	4.7	20, 30	100	0.077	2.00(1.80)	1.80(1.62)	4R7
BWVC004040186R8□00	6.8	20, 30	100	0.105	1.50(1.35)	1.35(1.21)	6R8
BWVC00404018100□00	10	20, 30	100	0.160	1.40(1.26)	1.20(1.08)	100
BWVC00404018150□00	15	20, 30	100	0.245	1.05(0.94)	0.95(0.85)	150
BWVC00404018220□00	22	20, 30	100	0.335	0.90(0.81)	0.88(0.79)	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+ HP42841A, 100kHz 1V
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVC005050401R0□00	1.0	20, 30	100	0.012	8.8(7.92)	5.9(5.31)	1R0
BWVC005050401R5□00	1.5	20,30	100	0.014	7.9(7.11)	5.4(4.86)	1R5
BWVC005050402R2□00	2.2	20, 30	100	0.020	6.8(6.12)	4.5(4.05)	2R2
BWVC005050402R7□00	2.7	20, 30	100	0.026	6.0(5.40)	4.2(3.70)	2R7
BWVC005050403R3□00	3.3	20, 30	100	0.026	5.3(4.77)	4.2(3.78)	3R3
BWVC005050404R7□00	4.7	20, 30	100	0.032	4.4(3.96)	3.2(2.88)	4R7
BWVC005050406R8□00	6.8	20, 30	100	0.050	3.8(3.42)	3.0(2.70)	6R8
BWVC005050408R2□00	8.2	20, 30	100	0.065	3.3(2.90)	2.4(2.10)	8R2
BWVC00505040100□00	10	20, 30	100	0.070	3.0(2.70)	2.3(2.07)	100
BWVC00505040150□00	15	20, 30	100	0.115	2.4(2.16)	1.8(1.62)	150
BWVC00505040220□00	22	20, 30	100	0.160	2.0(1.80)	1.6(1.44)	220
BWVC00505040151□00	150	20, 30	100	1.180	0.74(0.66)	0.58(0.52)	151
BWVC00505040181□00	180	20, 30	100	1.250	0.67(0.60)	0.54(0.48)	181
BWVC00505040221□00	220	20, 30	100	1.450	0.65(0.58)	0.50(0.45)	221

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
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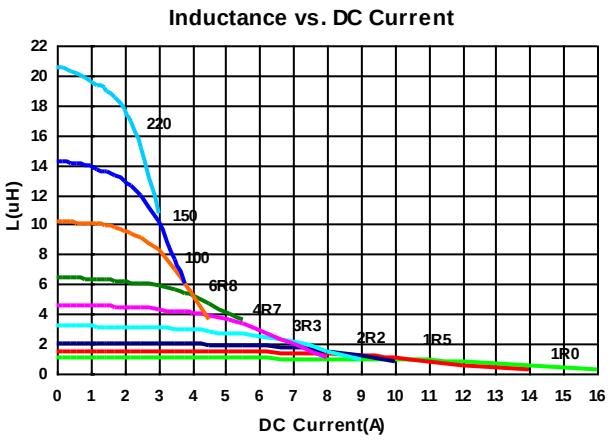
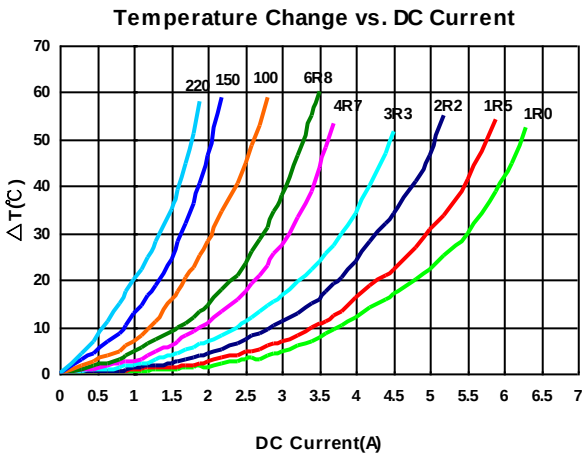
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+ HP42841A, 100kHz 1V
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVC006060283R3□00	3.3	20, 30	100	0.027	4.5(4.05)	4.0(3.60)	3R3
BWVC00606028100□00	10	20, 30	100	0.065	2.6(2.34)	2.5(2.25)	100
BWVC00606028150□00	15	20, 30	100	0.093	2.1(1.89)	2.0(1.80)	150
BWVC00606028220□00	22	20, 30	100	0.135	1.7(1.53)	1.65(1.48)	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
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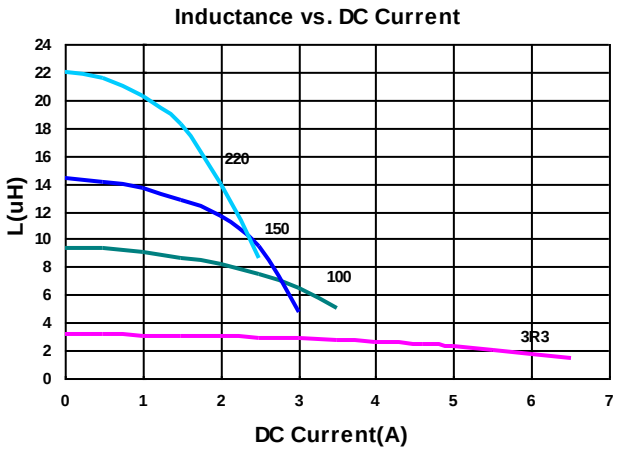
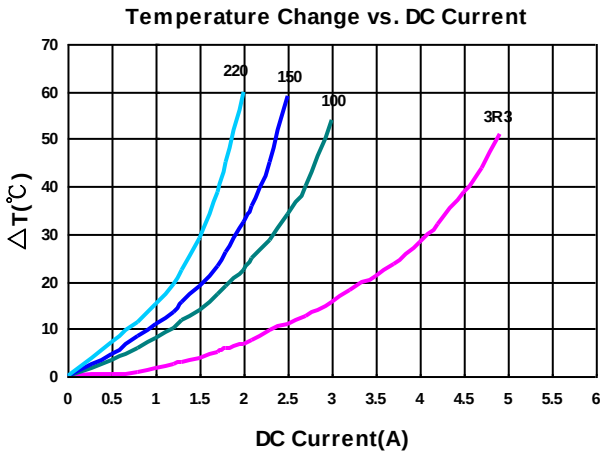
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+ HP42841A, 100kHz 1V
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVC006060451R0□00	1.0	20,30	100	0.010	13(11.7)	7.3(6.57)	1R0
BWVC006060451R5□00	1.5	20,30	100	0.012	12(10.8)	6.6(5.94)	1R5
BWVC006060452R2□00	2.2	20, 30	100	0.018	9.5(8.55)	5.2(4.68)	2R2
BWVC006060453R3□00	3.3	20, 30	100	0.022	7.8(7.02)	4.4(3.96)	3R3
BWVC006060454R7□00	4.7	20, 30	100	0.03	6.8(6.12)	4.0(3.60)	4R7
BWVC006060456R8□00	6.8	20, 30	100	0.042	5.7(5.13)	3.3(2.97)	6R8
BWVC00606045100□00	10	20, 30	100	0.06	4.6(4.14)	2.6(2.34)	100
BWVC00606045150□00	15	20, 30	100	0.09	3.8(3.42)	2.2(1.98)	150
BWVC00606045220□00	22	20, 30	100	0.13	3.3(2.97)	1.9(1.71)	220
BWVC00606045151□00	150	20, 30	100	0.97	0.95(0.85)	0.65(0.58)	151

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

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- Measure Equipment：
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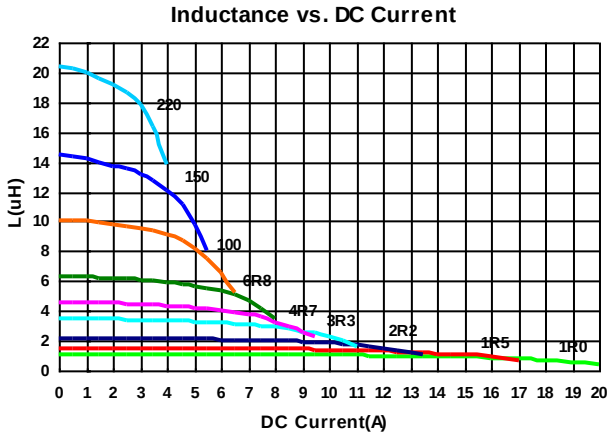
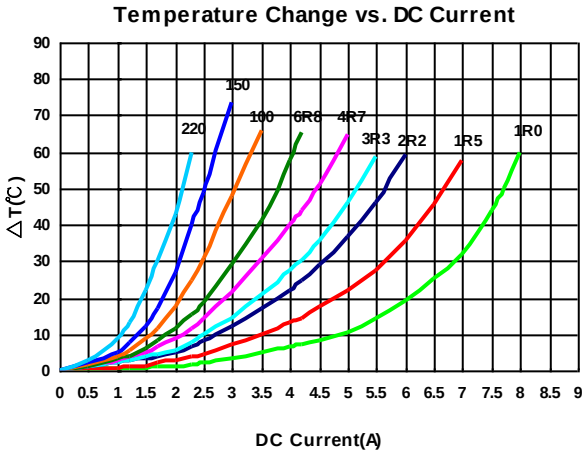
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Packaging Specifications

Tape Dimensions

Figure 1

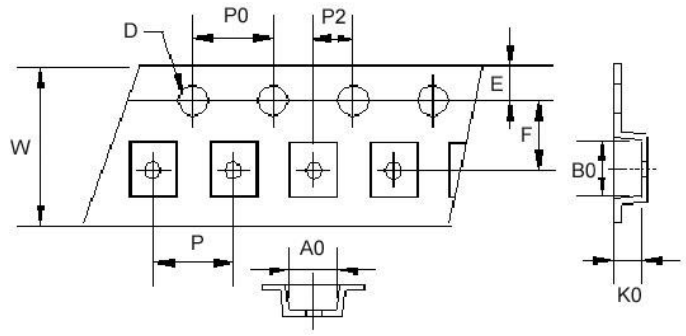
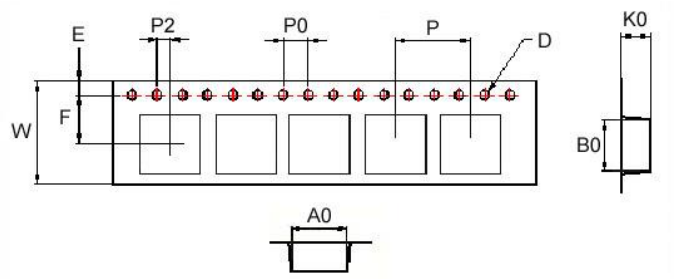


Figure 2



Reel Dimensions

Figure 1

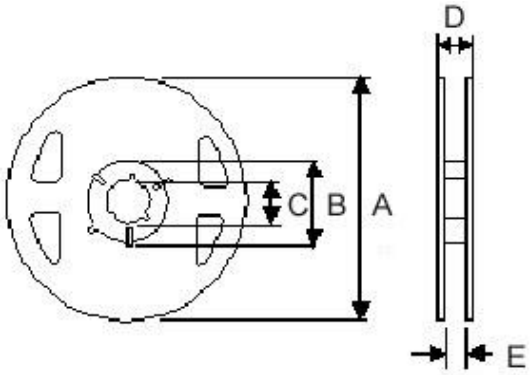
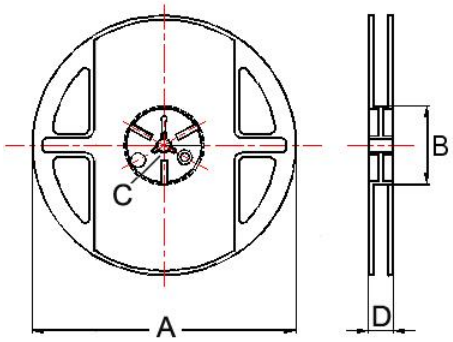


Figure 2



Dimensions in mm

TYPE	Fig	Tape Dimensions										Reel Dimensions					Quantity
		A0	B0	K0	D	E	F	W	P	P0	P2	A	B	C	D	E	PCS / Reel
BWVC00201610	1	1.90	2.20	1.15	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVC00201612	1	1.90	2.20	1.30	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVC00252012	1	2.40	2.70	1.35	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVC00404018	2	4.25	4.25	2.10	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	800
BWVC00505040	2	5.20	5.20	4.20	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	-	1500
BWVC00606028	2	6.25	6.25	3.00	1.55	1.75	7.5	16	12	4	2	330	100	13	16.0	-	1500
BWVC00606045	2	6.20	6.20	4.65	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	-	1000

BWVH Series

BWVH series, an automatic assembly constructed power inductor, is shielded with magnetic resin and suitable for portable DC-DC converter applications.

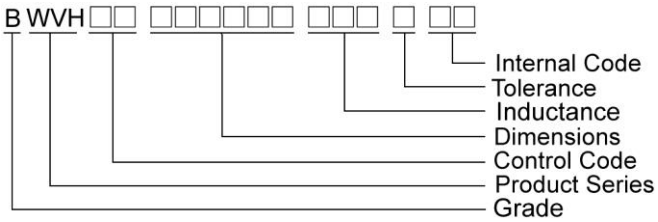
Features

- RoHS, Halogen Free and REACH Compliance
- Shielded with magnetic resin
- Low profile, miniature package size and wide inductance range.
- Low DCR and high rated current.

Applications

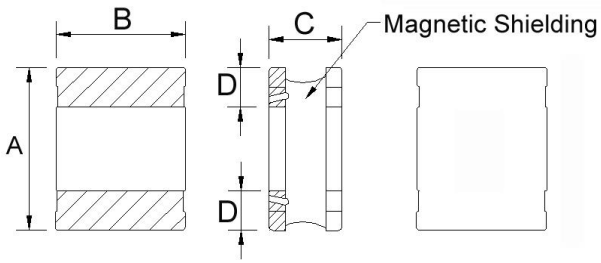
- Smart phone
- DSC
- Tablet PC and other portable devices
- DC/DC converters

Product Identification



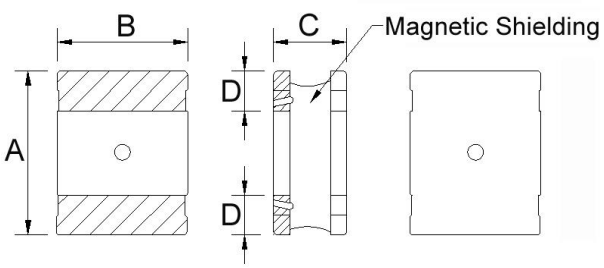
Shape and Dimensions

Figure 1

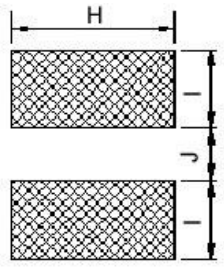


Recommended Pattern

Figure 2



Recommended Pattern



Dimensions in mm

TYPE	FIG	A	B	C	D	H	I	J
BWVH00201610_H1	1	2.0±0.25	1.6±0.25	1.02 Max	0.6	1.8	0.8	0.8
BWVH00252010_H1	1	2.5±0.25	2.0±0.25	1.00 Max	0.8	2.2	0.85	0.8
BWVH00252012_H1	2	2.5±0.25	2.0±0.25	1.2±0.05	0.8	2.2	0.85	0.8

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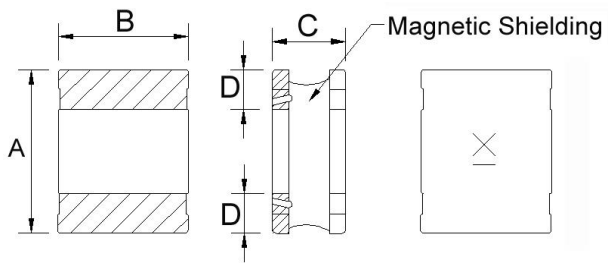
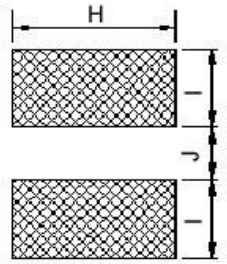
Shape and Dimensions

Figure 3



Recommended Pattern



Dimensions in mm

TYPE	FIG	A	B	C	D	H	I	J
BWVH00252012	3	2.5±0.25	2.0±0.25	1.2±0.05	0.8	2.2	0.85	0.8

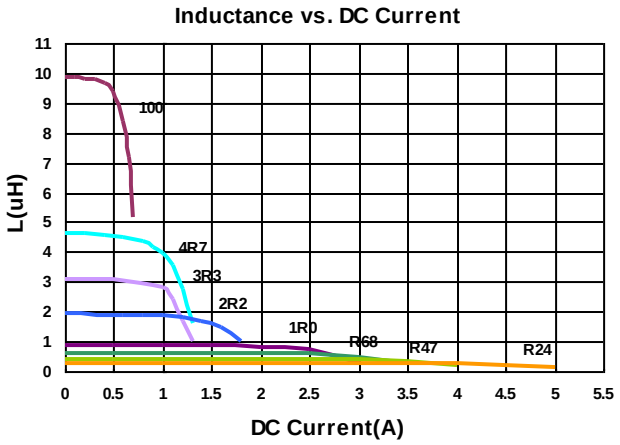
Electrical Characteristics

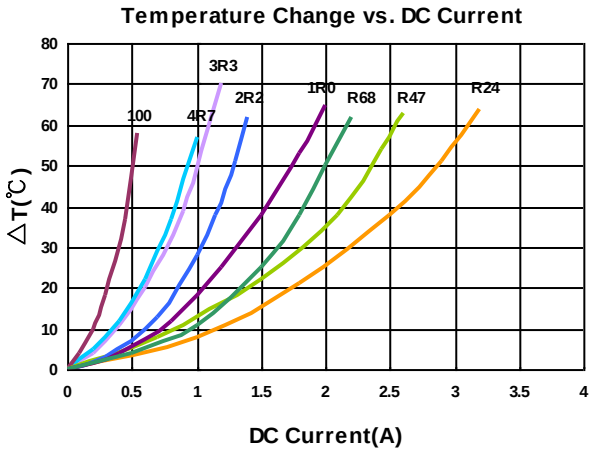
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (mA) Typ. (Max)	Irms (mA) Typ. (Max)
BWVH00201610R24□H1	0.24	20, 30	1	0.048	3700(3300)	2500(2100)
BWVH00201610R33□H1	0.33	20, 30	1	0.048	3400(3000)	2500(2100)
BWVH00201610R47□H1	0.47	20, 30	1	0.072	2900(2600)	2100(1800)
BWVH00201610R56□H1	0.56	20, 30	1	0.072	2700(2400)	2100(1800)
BWVH00201610R68□H1	0.68	20, 30	1	0.092	2500(2200)	1800(1500)
BWVH002016101R0□H1	1.0	20, 30	1	0.110	2200(2000)	1500(1200)
BWVH002016102R2□H1	2.2	20, 30	1	0.205	1400(1200)	1150(970)
BWVH002016103R3□H1	3.3	20, 30	1	0.380	1050(940)	900(800)
BWVH002016104R7□H1	4.7	20, 30	1	0.520	900(800)	800(680)
BWVH00201610100□H1	10	20, 30	1	1.100	620(550)	450(380)

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：Agilent HP4287A+Agilent HP16197A, 1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

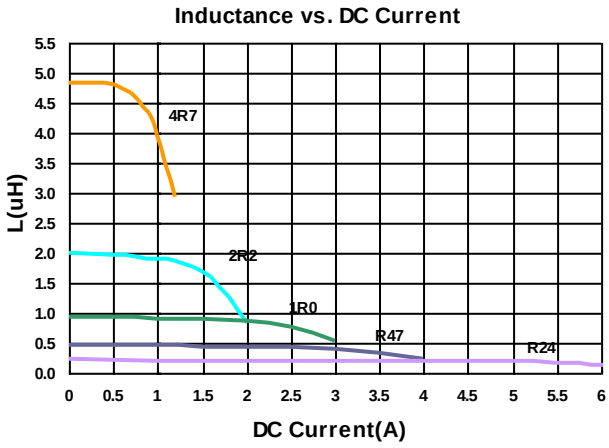
Electrical Characteristics

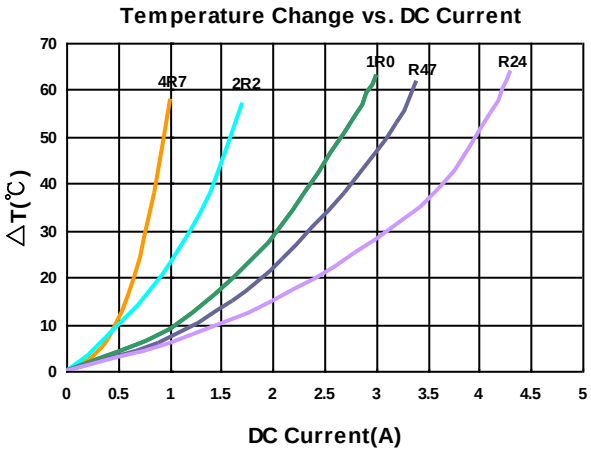
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (mA) Typ. (Max)	Irms (mA) Typ. (Max)
BWVH00252010R24□H1	0.24	20, 30	1	0.030	4700(4200)	3600(3000)
BWVH00252010R47□H1	0.47	20, 30	1	0.043	3300(3000)	2700(2300)
BWVH00252010R68□H1	0.68	20, 30	1	0.062	2800(2500)	2300(1900)
BWVH002520101R0□H1	1.0	20, 30	1	0.080	2300(2100)	1900(1600)
BWVH002520102R2□H1	2.2	20, 30	1	0.135	1600(1400)	1400(1100)
BWVH002520104R7□H1	4.7	20, 30	1	0.330	1000(900)	850(720)
BWVH00252010100□H1	10	20, 30	1	0.670	720(640)	580(490)

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：Agilent HP4287A+Agilent HP16197A, 1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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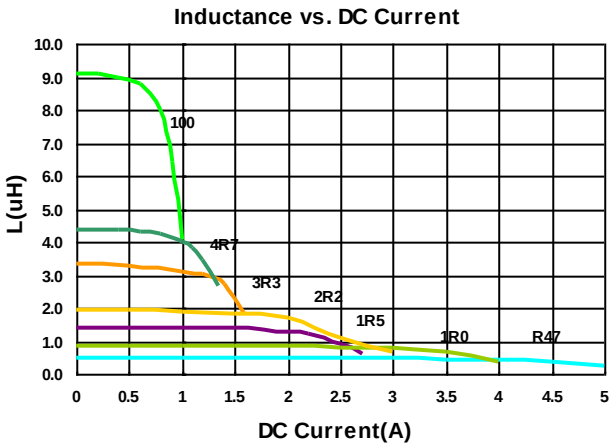
Electrical Characteristics

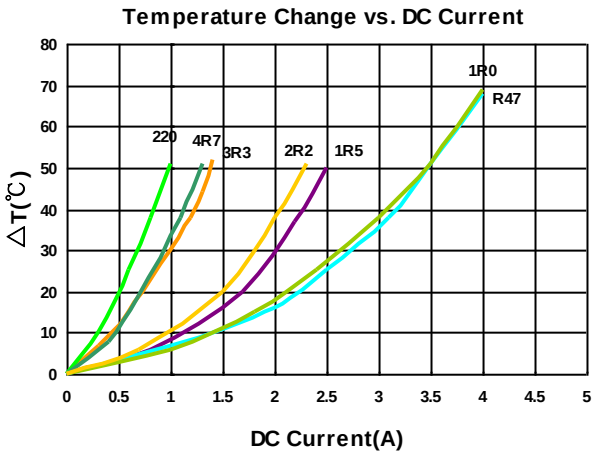
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (mA) Typ. (Max)	Irms (mA) Typ. (Max)
BWVH00252012R47□H1	0.47	20, 30	1	0.031	4100(3700)	3100(2600)
BWVH00252012R68□H1	0.68	20, 30	1	0.031	3100(2900)	3100(2600)
BWVH002520121R0□H1	1.0	20, 30	1	0.049	3200(3000)	3000(2500)
BWVH002520121R5□H1	1.5	20, 30	1	0.088	2300(2100)	2200(1800)
BWVH002520122R2□H1	2.2	20, 30	1	0.099	2200(2000)	2000(1700)
BWVH002520123R3□H1	3.3	20, 30	1	0.190	1400(1200)	1200(1000)
BWVH002520124R7□H1	4.7	20, 30	1	0.235	1300(1100)	1100(930)
BWVH00252012100□H1	10	20, 30	1	0.510	920(820)	800(680)

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：Agilent HP4287A+Agilent HP16197A, 1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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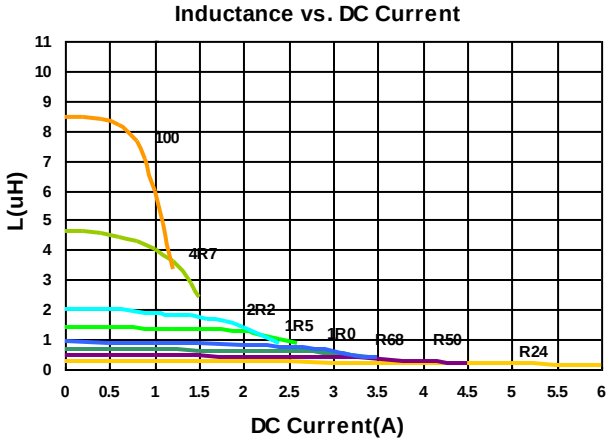
Electrical Characteristics

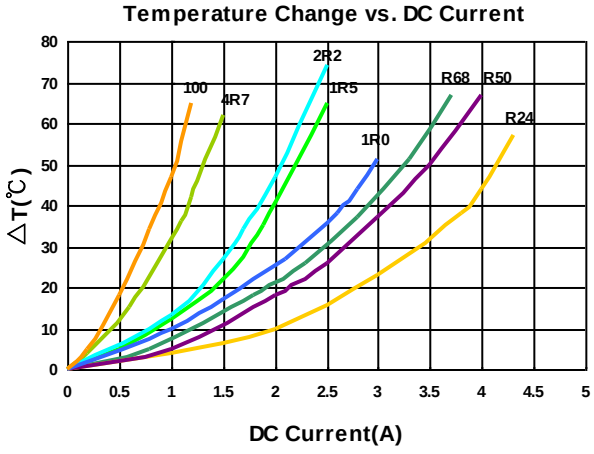
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (mA) Typ. (Max)	Irms (mA) Typ. (Max)	Marking
BWVH00252012R24□00	0.24	20, 30	1	0.021	4700(4200)	3800(3200)	E
BWVH00252012R33□00	0.33	20, 30	1	0.027	4200(3700)	3000(2500)	G
BWVH00252012R47□00	0.47	20, 30	1	0.027	3600(3400)	3000(2500)	J
BWVH00252012R50□00	0.50	20, 30	1	0.027	3600(3400)	3000(2500)	D
BWVH00252012R68□00	0.68	20, 30	1	0.036	2900(2600)	2800(2300)	H
BWVH002520121R0□00	1.0	20, 30	1	0.037	2700(2450)	2600(2200)	A
BWVH002520121R5□00	1.5	20, 30	1	0.075	2200(1900)	1900(1600)	I
BWVH002520122R2□00	2.2	20, 30	1	0.080	1900(1800)	1800(1500)	B
BWVH002520124R7□00	4.7	20, 30	1	0.195	1200(1000)	1100(930)	C
BWVH00252012100□00	10	20, 30	1	0.400	900(800)	800(680)	F
BWVH00252012330□00	33	20, 30	1	1.550	430(380)	380(340)	L
BWVH00252012470□00	47	20, 30	1	1.700	390(350)	340(300)	K

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：Agilent HP4287A+Agilent HP16197A, 1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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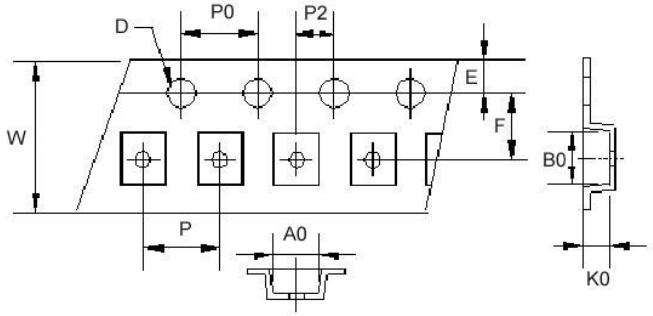
Pulse a YAGEO company

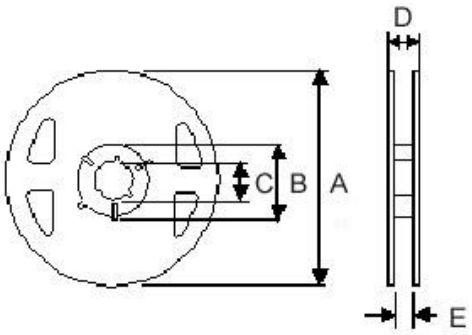
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions										Reel Dimensions					Quantity
	A0	B0	K0	D	E	F	W	P	P0	P2	A	B	C	D	E	PCS / Reel
BWVH00201610	1.9	2.2	1.15	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVH00252010	2.4	2.7	1.15	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVH00252012	2.4	2.7	1.35	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000

BWVN Series

BWVN series, an automatic assembly power inductor, is suitable for the portable DC-DC converter application.

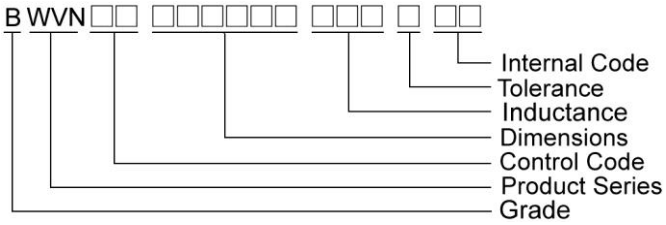
Features

- RoHS compliant
- Highly accurate dimensions can be mounted automatically
- Terminals are highly resistant to pull forces.
- Highly reliable in environments of sudden temperature change

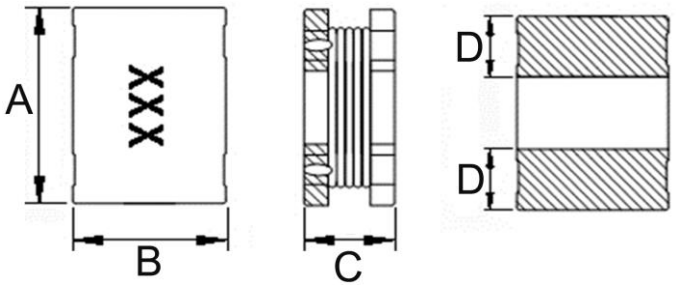
Applications

- Portable equipment such as, PDA,MP3,HDD, Mobil phone, DSC etc.
- Game Console.
- DC / DC converters.

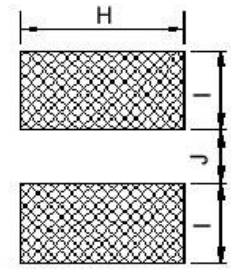
Product Identification



Shapes and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	H	I	J
BWVN00322515	3.2±0.2	2.5±0.2	1.5±0.2	1.0	2.6	1.2	1.0

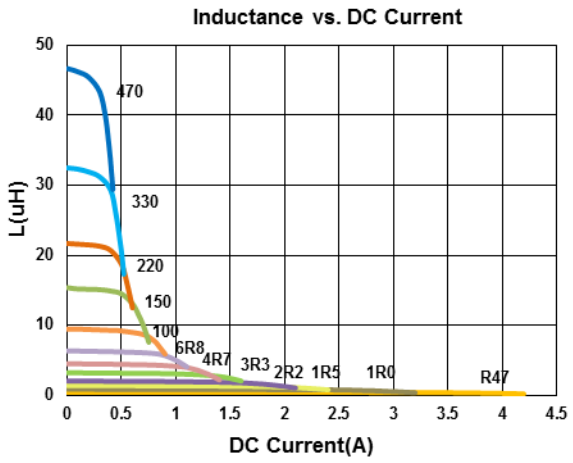
Electrical Characteristics

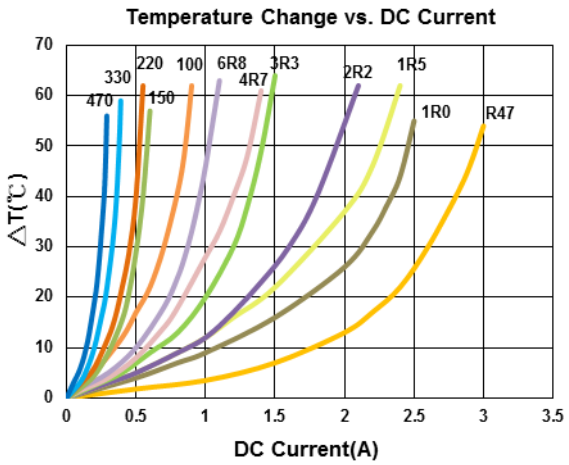
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±20%	Isat (A)Max	Irms (A)Max	Marking
BWVN00322515R47□00	0.47	30	1	0.030	3.40	2.55	R47
BWVN003225151R0□00	1.0	20, 30	1	0.045	2.30	2.05	1R0
BWVN003225151R5□00	1.5	20, 30	1	0.057	1.75	1.75	1R5
BWVN003225152R2□00	2.2	20, 30	1	0.076	1.55	1.60	2R2
BWVN003225153R3□00	3.3	20, 30	1	0.12	1.25	1.20	3R3
BWVN003225154R7□00	4.7	20, 30	1	0.18	1.00	1.00	4R7
BWVN003225156R8□00	6.8	20, 30	1	0.24	0.85	0.85	6R8
BWVN00322515100□00	10	20, 30	1	0.38	0.75	0.70	100
BWVN00322515150□00	15	20, 30	1	0.70	0.55	0.50	150
BWVN00322515220□00	22	20, 30	1	0.81	0.50	0.45	220
BWVN00322515330□00	33	20, 30	1	1.05	0.36	0.32	330
BWVN00322515470□00	47	20, 30	1	1.48	0.28	0.24	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：Agilent/HP4285A+ Agilent/HP42841A, 1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4287A Material/Impedance Analyzer





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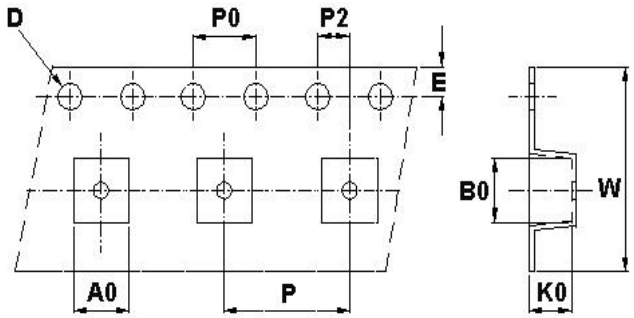
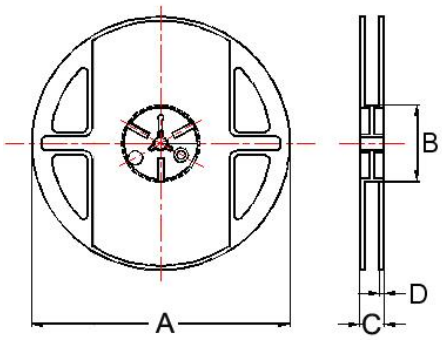
Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / Reel
BWVN00322515	2.85	3.56	1.80	1.55	1.75	8	4	4	2	178	60	9	1.5	2000

BPMI Series

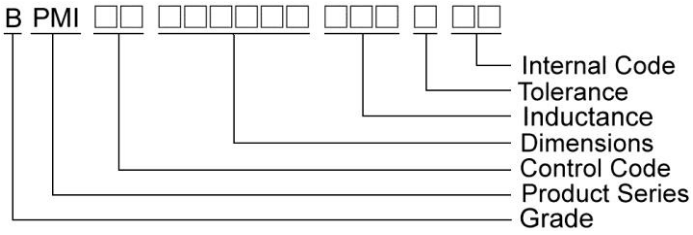
Features

- RoHS, Halogen Free and REACH Compliance
- Surface mount inductors designed for high speed, high current switch mode applications requiring lower inductance
- Gapped ferrite cores for maximum efficiency
  Customized specifications are available

Applications

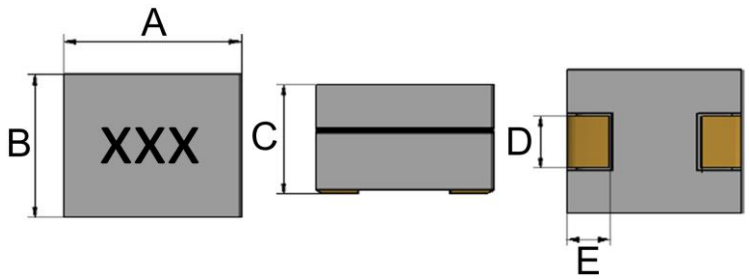
- Voltage regulator modules (VRMs) for servers, microprocessors
- High frequency, high current switching power supplies

Product Identification



Shape and Dimensions

BPMI00040440-0J~0K



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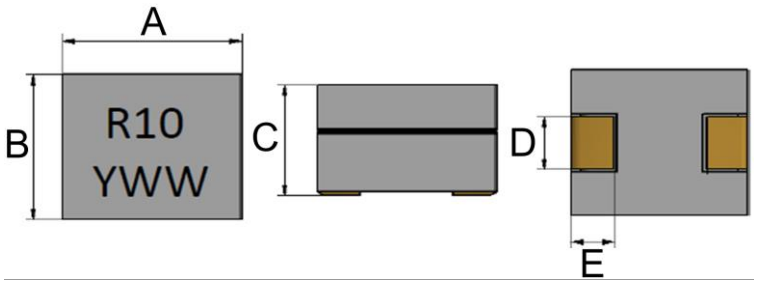
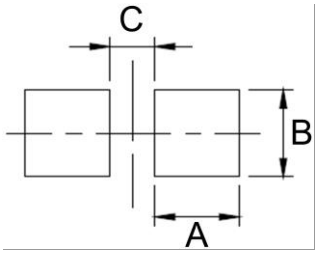


Recommended Pattern



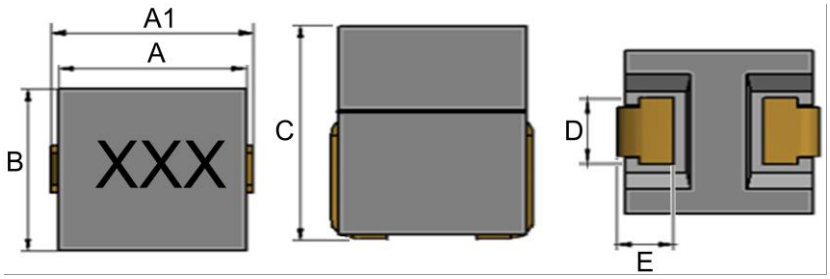
Dimensions in mm

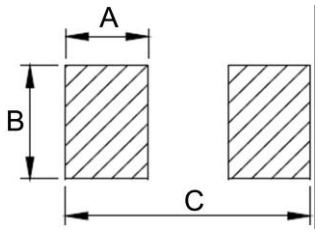
TYPE	Shape and Dimensions					Recommended Pattern		
	A	B	C	D	E	A	B	C
BPMI00040440	4.2Max	4.0Max	4.0Max	1.4	1.3	1.7	1.9	0.9
BPMI00040440-0H	4.0Max	4.0Max	4.0Max	1.4±0.2	1.0±0.2	1.7	1.9	0.9

Shape and Dimensions

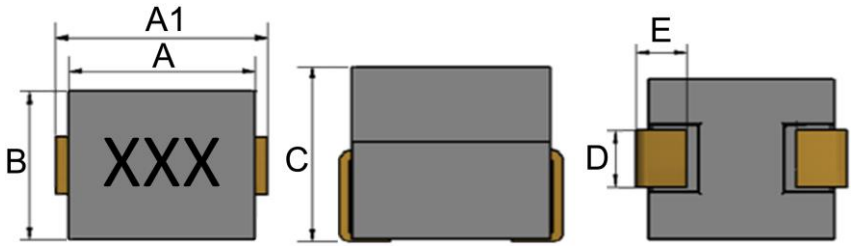
Recommended Pattern

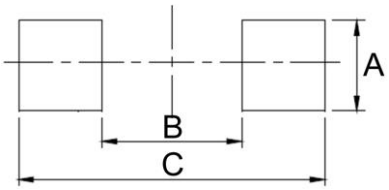
BPMI00050566





BPMI00060680

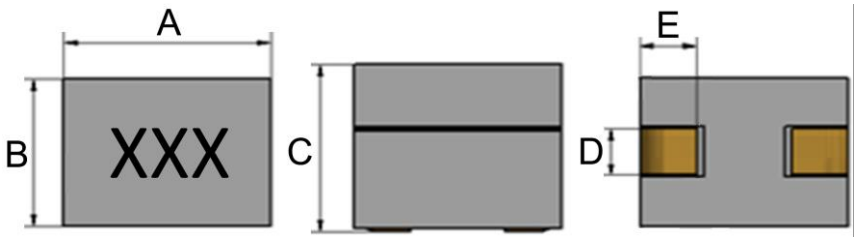


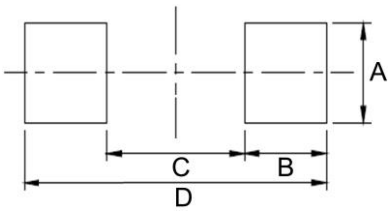


Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern		
	A	A1	B	C	D	E	A	B	C
BPMI00050566	5.0Max	5.2Max	5.0Max	6.6Max	2	1.2	1.85	2.60	5.5
BPMI00060680-0E	5.7±0.5	7.0±0.5	5.7±0.5	8.0Max	3.0±0.2	1.35	3.50	2.20	8.0
BPMI00060680-0H	5.7±0.5	7.0±0.5	5.7±0.5	7.5±0.5	3.0±0.2	1.7±0.2	3.50	2.20	8.0

BPMI00070750/100865/100868/100874/110778





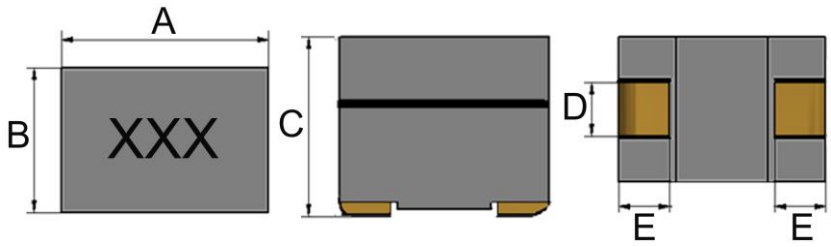
Dimensions in mm

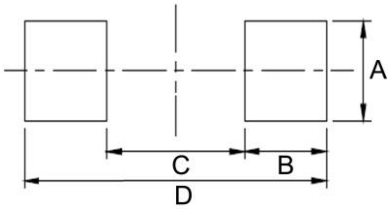
TYPE	Shape and Dimensions					Recommended Pattern			
	A	B	C	D	E	A	B	C	D
BPMI00070750	7.0Max	7.0Max	4.96Max	2.49	1.52	3.05	2.03	3.3	7.36
BPMI00100865	10.41Max	8.0Max	6.5Max	2.24±0.25	2.54±0.25	2.79	3.05	4.32	10.42
BPMI00100868	10.2±0.2	$7.8^{+0.2}_{-0.3}$	6.8±0.2	2.24±0.15	2.54±0.12	2.50	3.30	4.7	11.3
BPMI00100874	$10.31^{+0.1}_{-0.3}$	7.65±0.25	$7.4^{+0.1}_{-0.4}$	2.21	2.54	3.05	3.30	4.57	11.17
BPMI00110778	11.0Max	7.2Max	7.8Max	1.55	2.54	2.54	3.56	4.06	11.18

Shape and Dimensions

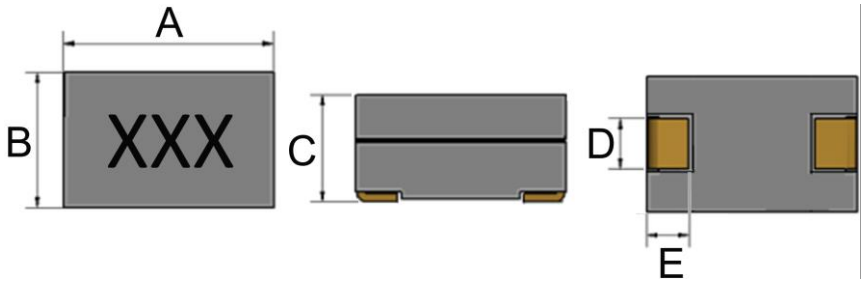
Recommended Pattern

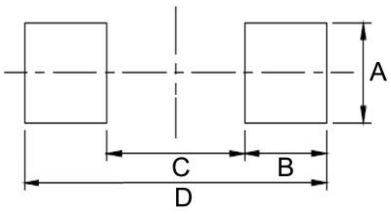
BPMI00090680





BPMI00100750





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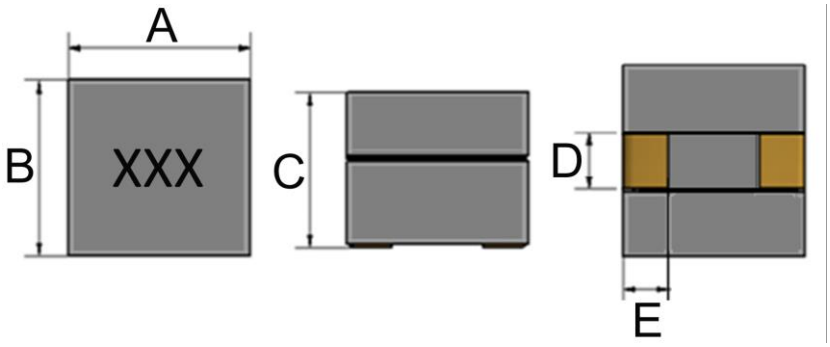

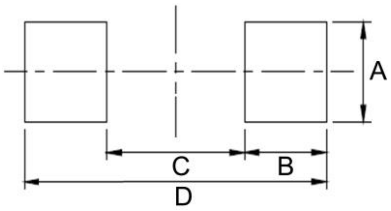

Dimensions in mm

TYPE	Shape and Dimensions					Recommended Pattern			
	A	B	C	D	E	A	B	C	D
BPMI00090680	9.4±0.2	6.2±0.2	8Max	2.14±0.2	2.3±0.2	2.54	3.2	4.0	10.4
BPMI00100750	10.2Max	7.0Max	4.96Max	2.49	1.52	3.05	2.03	6.35	10.41
BPMI00111190	11.2Max	11.2Max	9.0Max	2.03	2.54	2.54	3.05	5.33	11.43

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±9%	(A)Typ			Irms (A)Typ	Marking
					Isat 1	Isat 2	Isat 3		
BPMI0004044022N□0J	0.022	20,30	100	0.23	60	58	55	28	22N
BPMI0004044065N□0K	0.065	15,20,30	100	0.32	25	-	-	19	65N
BPMI00040440R10□0H	0.10	15,20,30	100	0.32	17	-	12	19	R10YWW

Note: When ordering, please specify tolerance code. Tolerance: L=±15% , M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat 1：Based on inductance change (△L/Lo：drop 20% Typ.)@ ambient temp. 25℃
- Isat 2：Based on inductance change (△L/Lo：drop 20% Typ.)@ ambient temp. 75℃
- Isat 3：Based on inductance change (△L/Lo：drop 20% Typ.)@ ambient temp.100℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat 1 or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)	(A)Typ			Irms (A)Typ	Marking
					Isat 1	Isat 2	Isat 3		
BPMI0005056650N□0E	0.05	15,20,30	100	0.47±20%	70	69	66	40	50N
BPMI0005056650N□0F	0.05	15,20,30	100	0.27±7%	72	-	66	53	50N
BPMI00050566R10□0E	0.10	20,30	100	0.47±20%	35	32	29	40	R10
BPMI00050566R11□0E	0.11	20,30	100	0.27±7%	31	28	25	53	R11

Note: When ordering, please specify tolerance code. Tolerance: L=±15% , M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat 1：Based on inductance change (△L/Lo：drop 20% Typ.)@ ambient temp. 25℃
- Isat 2：Based on inductance change (△L/Lo：drop 20% Typ.)@ ambient temp. 45℃
- Isat 3：Based on inductance change (△L/Lo：drop 20% Typ.)@ ambient temp.100℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat 1 or Irms

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Marking
BPMI0006068032N□0E	0.032	10,15,20,30	100	0.23±10%	125	50	32N
BPMI00060680R10□0H	0.10	15,20,30	100	0.23±7%	40	35	R10
BPMI00060680R20□0H	0.20	15,20,30	100	0.23±7%	22	35	R20

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20% , T=±30%

- Operating temperature range - 40℃~125℃(Including self - temperature rise)
- Isat：Based on inductance change (△L/Lo：drop 20% Typ.)@ ambient temp. 25℃(For 0.032~0.1uH)
- Isat：Based on inductance change (L(uH)：0.1uH Min)@ ambient temp. 25℃(For 0.20uH)
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

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CHILISIN ELECTRONICS CORP.

tandard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Marking
BPMI0007075072N□00	0.072	10,20,30	100	0.32±9.4%	58	31	72N
BPMI00070750R10□00	0.10	10,20,30	100	0.32±9.4%	46	31	R10
BPMI00070750R11□00	0.11	20,30	100	0.32±9.4%	46	31	R11
BPMI00070750R12□00	0.12	10,20,30	100	0.32±9.4%	38	31	R12
BPMI00070750R15□00	0.15	10,20,30	100	0.32±9.4%	30	31	R15
BPMI00070750R18□00	0.18	10,20,30	100	0.32±9.4%	25	31	R18
BPMI00070750R22□00	0.22	10,20,30	100	0.32±9.4%	20	31	R22

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat：Based on inductance change (△L/Lo：drop 20% Typ.)@ ambient temp. 25℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)	Isat (A)Typ	Irms (A)Max	Marking
BPMI00090680R10□00	0.10	10,15,20	100	0.29±5%	95	51	R10
BPMI00090680R12□00	0.12	10,15,20	100	0.29±5%	80	51	R12
BPMI00090680R15□00	0.15	10,15,20	100	0.29±5%	65	51	R15
BPMI00090680R18□00	0.18	10,15,20	100	0.29±5%	54	51	R18
BPMI00090680R22□00	0.22	10,15,20	100	0.29±5%	44	51	R22
BPMI00090680R28□00	0.28	10,15,20	100	0.29±5%	34	51	R28
BPMI00090680R30□00	0.30	10,15,20	100	0.29±5%	32.5	51	R30

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat：Based on inductance change (△L/Lo：drop 20% Typ.)@ ambient temp. 25℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Marking
BPMI0010075085N□00	0.085	20,30	100	0.39±7.7%	>70	31	85N
BPMI00100750R10□00	0.10	15,20	100	0.39±7.7%	70	31	R10
BPMI00100750R12□00	0.12	15,20	100	0.39±7.7%	52	31	R12
BPMI00100750R15□00	0.15	15,20	100	0.39±7.7%	40	31	R15
BPMI00100750R16□00	0.155	15,20	100	0.39±7.7%	40	31	R155
BPMI00100750R20□00	0.20	15,20	100	0.39±7.7%	33	31	R20
BPMI00100750R22□00	0.22	15,20	100	0.39±7.7%	33	25	R22

Note: When ordering, please specify tolerance code. Tolerance: L=±15% , M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat：Based on inductance change (△L/Lo：drop 20% Typ.)@ ambient temp. 25℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Marking
BPMI00100865R12□00	0.12	15,20	100	0.48±8%	74	40	R12
BPMI00100865R14□00	0.14	15,20	100	0.48±8%	66	40	R14
BPMI00100865R18□00	0.18	15,20	100	0.48±8%	52	40	R18
BPMI00100865R22□00	0.215	15,20	100	0.48±8%	50	40	R215
BPMI00100865R30□00	0.30	15,20	100	0.48±8%	30	40	R30
BPMI00100865R60□00	0.60	15,20	100	0.48±8%	12	40	R60

Note: When ordering, please specify tolerance code. Tolerance: L=±15% , M=±20%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat：Based on inductance change (△L/Lo：drop 20% Typ.)@ ambient temp. 25℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Marking
BPMI00100868R12□0E	0.12	10,15,20	100	0.29±7%	80	54	R12
BPMI00100868R12□0F	0.12	10,15,20	100	0.29±5%	80	54	R12
BPMI00100868R14□0E	0.14	10,15,20	100	0.29±7%	72	54	R14
BPMI00100868R14□0F	0.14	10,15,20	100	0.29±5%	72	54	R14
BPMI00100868R17□0E	0.17	10,15,20	100	0.29±7%	58	54	R17
BPMI00100868R17□0F	0.17	10,15,20	100	0.29±5%	58	54	R17
BPMI00100868R18□0E	0.18	10,15,20	100	0.29±7%	56	54	R18
BPMI00100868R18□0F	0.18	10,15,20	100	0.29±5%	56	54	R18
BPMI00100868R22□0E	0.22	10,15,20	100	0.29±7%	50	54	R22
BPMI00100868R22□0F	0.22	10,15,20	100	0.29±5%	50	54	R22
BPMI00100868R30□0E	0.30	10,15,20	100	0.29±7%	32	54	R30
BPMI00100868R30□0F	0.30	10,15,20	100	0.29±5%	32	54	R30

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat：Based on inductance change (△L/Lo：drop 20% Typ.)@ ambient temp. 25℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Marking
BPMI00100874R12□00	0.115	15,20	100	0.29±10%	94	41	R115
BPMI00100874R13□00	0.13	15,20	100	0.29±10%	85	41	R13
BPMI00100874R15□00	0.15	15,20	100	0.29±10%	72	41	R15
BPMI00100874R17□00	0.17	15,20	100	0.29±10%	62	41	R17
BPMI00100874R18□00	0.175	15,20	100	0.29±10%	62	41	R175
BPMI00100874R22□00	0.215	15,20	100	0.29±10%	48	41	R215
BPMI00100874R23□00	0.23	15,20	100	0.29±10%	43	41	R23
BPMI00100874R27□00	0.27	15,20	100	0.29±10%	37	41	R27
BPMI00100874R30□00	0.30	15,20	100	0.29±10%	32	41	R30

Note: When ordering, please specify tolerance code. Tolerance: L=±15% , M=±20%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat：Based on inductance change (△L/Lo：drop 20% Typ.)@ ambient temp. 25℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Marking
BPMI0011077870N□00	0.07	15,20	100	0.29±10%	>70	48	70N
BPMI00110778R10□00	0.10	15,20	100	0.29±10%	>70	48	R10
BPMI00110778R12□00	0.12	15,20	100	0.29±10%	>70	48	R12
BPMI00110778R15□00	0.15	15,20	100	0.29±10%	70	48	R15
BPMI00110778R18□00	0.18	15,20	100	0.29±10%	55	48	R18
BPMI00110778R22□00	0.22	15,20	100	0.29±10%	47	48	R22
BPMI00110778R23□00	0.23	15,20	100	0.29±10%	44	48	R23
BPMI00110778R30□00	0.30	15,20	100	0.29±10%	32	48	R30
BPMI00110778R40□00	0.40	15,20	100	0.29±10%	23	48	R40
BPMI00110778R47□00	0.47	15,20	100	0.29±10%	17	48	R47
BPMI00110778R50□00	0.50	15,20	100	0.29±10%	17	48	R50
BPMI00110778R51□00	0.51	15,20	100	0.29±10%	17	48	R51

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat：Based on inductance change (△L/Lo：drop 20% Typ.)@ ambient temp. 25℃
- Irms for a 50℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Marking
BPMI00111190R22□00	0.225	15,20,30	100	0.63±9.5%	68	35	R22
BPMI00111190R25□00	0.25	15,20,30	100	0.63±9.5%	63	35	R25
BPMI00111190R27□00	0.27	15,20,30	100	0.63±9.5%	50	35	R27
BPMI00111190R32□00	0.325	15,20,30	100	0.63±9.5%	43	35	R32
BPMI00111190R47□00	0.47	15,20,30	100	0.63±9.5%	30	35	R47

Note: When ordering, please specify tolerance code. Tolerance: L=±15% , M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat：Based on inductance change (△L/Lo：drop 20% Typ.)@ ambient temp. 25℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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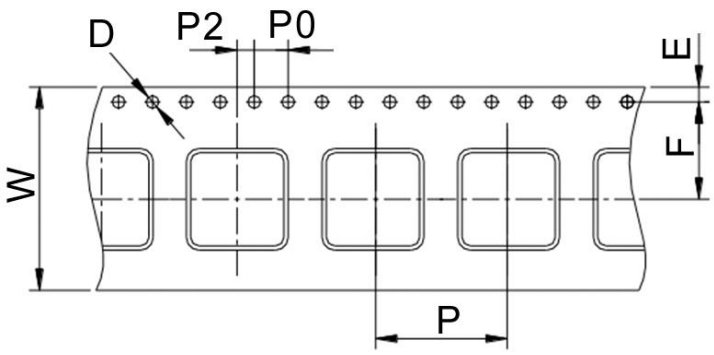
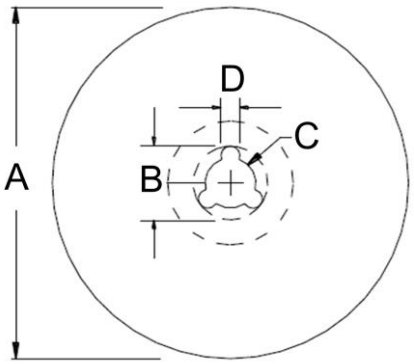
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



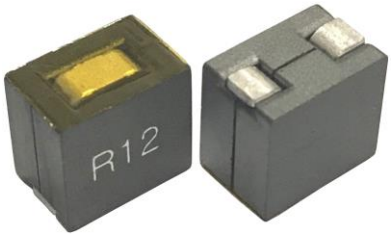
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	W	D	E	F	P	P0	P2	A	B	C	D	PCS / Reel
BPMI00040440	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2000
BPMI00040440-0H	12	1.5	1.75	5.5	8	4	2	330	20	13	2	1800
BPMI00050566	16	1.5	1.75	7.5	12	4	2	330	20	13	2	750
BPMI00060680	16	1.5	1.75	7.5	12	4	2	330	20	13	2	700
BPMI00070750	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
BPMI00090680	24	1.5	1.75	11.5	12	4	2	330	20	13	2	500
BPMI00100750	24	1.5	1.75	11.5	12	4	2	330	20	13	2	800
BPMI00100865	24	1.5	1.75	11.5	12	4	2	330	20	13	2	500
BPMI00100868	24	1.5	1.75	11.5	12	4	2	330	20	13	2	500
BPMI00100874	24	1.5	1.75	11.5	12	4	2	330	20	13	2	500
BPMI00110778	24	1.5	1.75	11.5	12	4	2	330	20	13	2	500
BPMI00111190	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500

BPMV Series



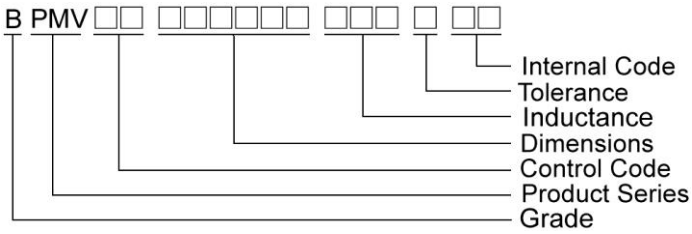
Features

- RoHS, Halogen Free and REACH Compliance
- Surface mount inductors designed for high speed, high current switch mode applications requiring lower inductance
- Gapped ferrite cores for maximum efficiency
  Customized specifications are available

Applications

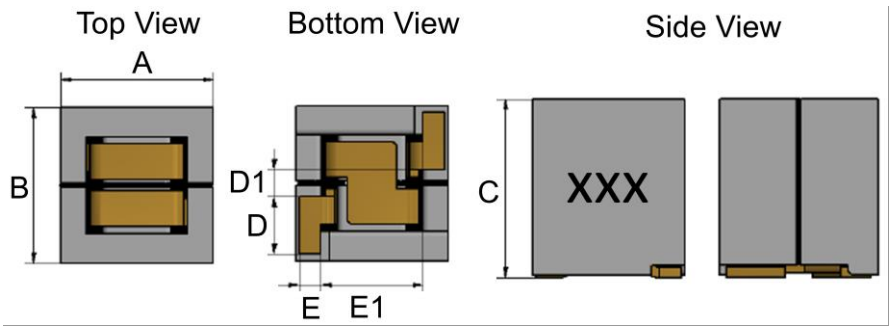
- Voltage regulator modules (VRMs) for servers, microprocessors
- High frequency, high current switching power supplies

Product Identification

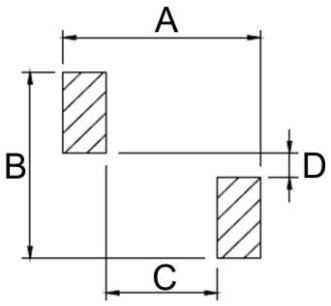


Shape and Dimensions

BPMV00070795/070796



Recommended Pattern



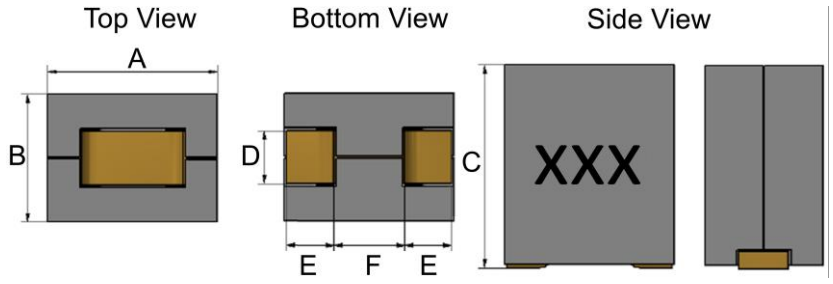
Dimensions in mm

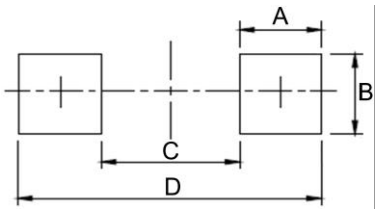
TYPE	Shape and Dimensions							Recommended Pattern			
	A	B	C	D	D1	E	E1	A	B	C	D
BPMV00070795	6.5Max	6.6Max	9.5Max	2.1	1.5	1.0	3.9	6.5	6.2	3.5	1
BPMV00070796	6.5Max	6.5Max	9.6Max	2.1	1.5	1.0	3.9	6.5	6.2	3.5	1

Shape and Dimensions

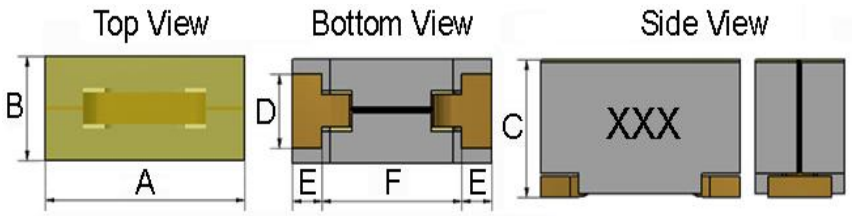
Recommended Pattern

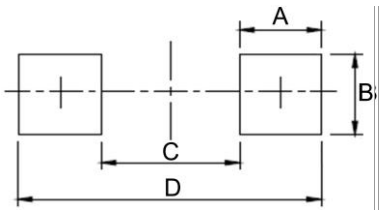
BPMV00080812/110812



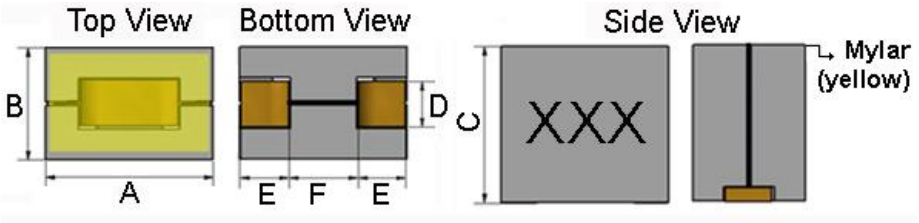


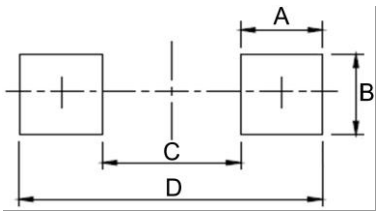
BPMV00100460





BPMV00100690





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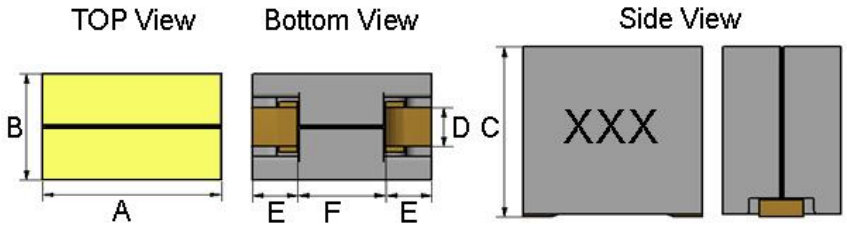
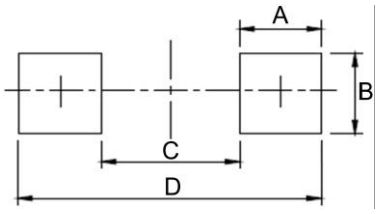
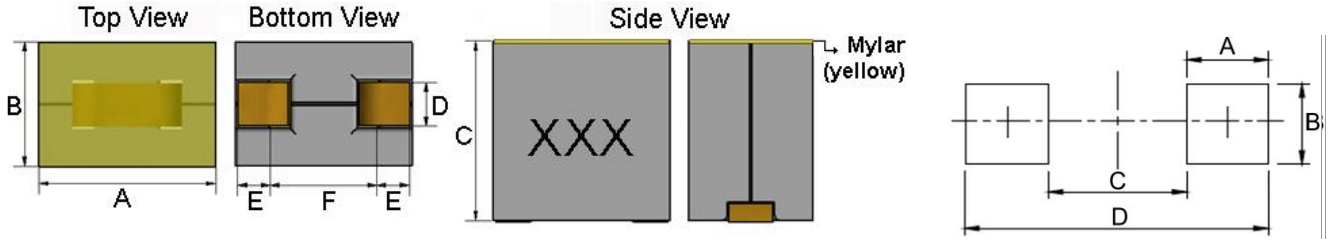




BPMV00100710/110812-0E



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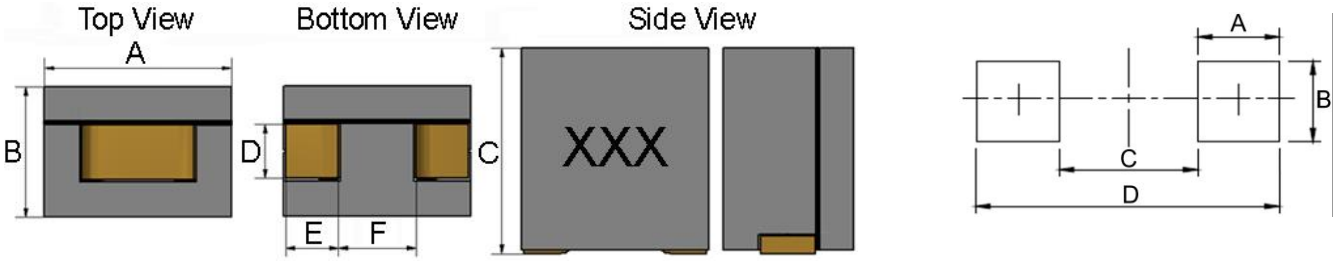

Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern			
	A	B	C	D	E	F	A	B	C	D
BPMV00080812	7.6Max	8.1Max	12Max	4.4±0.1	2	3.1	2.5	4.9	2.6	7.6
BPMV00100612	10Max	6Max	12Max	2.4	2.25	5.0	3.2	3.3	3.9	10.3
BPMV00100460	10 ±0.2	0.12uH 4.6 ±0.2 0.22uH 4.4 ±0.3	6.0Max	3.2	1.5	7.0	2.5	3.7	5.3	10.3
BPMV00100690	9.6Max	6.4Max 0.09uH 6.45Max	9.0Max	2.6	2.5	4.0	3.2	3.1	3.5	9.9
BPMV00100710	10Max	7.0Max	10Max	2.4±0.2	2.4	4.2	3.3	3.0	4.4	11.0
BPMV00110810	10.7Max	7.5Max	9.5Max	2.8	2.8	4.6	3.8	4.1	3.3	10.9
BPMV00110812	10.7Max	7.5Max	12Max	3.1	2.8	4.4	3.6	3.6	3.7	10.9

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±15%	(A)Typ Isat 1	(A)Typ Isat 2	Irms (A)Typ	Marking
BPMV00070795R20□2F	0.2	10,15,20	100	0.85	66	52	28	R20

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat 1：Based on inductance change (L(uH)：0.128 Min (0.16 Typ)) @ ambient temp. 25℃
- Isat 2：Based on inductance change (L(uH)：0.128 Min (0.16 Typ)) @ ambient temp. 100℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat 1 or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±15%	FLL (uH)Typ	Isat 1 (A)Typ 25℃	Isat 2 (A)Typ 100℃	Irms (A)Typ	Marking
BPMV00070796R40□2E	0.4	10,15,20	100	0.85	0.32	30	24	28	R40
BPMV00070796R60□2E	0.6	10,15,20	100	0.85	0.48	20	16	28	R60
BPMV000707961R0□2E	1.0	10,15,20	100	0.85	0.80	11	10	28	1R0

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Full load Inductance(FLL) Test Parameters：100kHz/1.0V, Isat 1(25℃) & Isat 2(100℃)
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat 1 or Irms

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±10%	(A)Typ Isat 1	(A)Typ Isat 2	Irms (A)Typ	Marking
BPMV00080812R12□0E	0.12	10,15,20	100	0.155	95	79	60	R12
BPMV00080812R15□0E	0.15	10,15,20	100	0.155	86	73	60	R15
BPMV00080812R17□0E	0.17	10,15,20	100	0.155	75	64	60	R17
BPMV00080812R22□0E	0.22	10,15,20	100	0.155	57	48	60	R22
BPMV00080812R32□0E	0.32	10,15,20	100	0.155	37	31	60	R32

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat 1：Based on inductance change (△L/Lo：drop 20% Typ) @ ambient temp. 25℃
- Isat 2：Based on inductance change (△L/Lo：drop 20% Typ) @ ambient temp. 100℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat 1 or Irms

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±10%	Isat (A)Typ	Irms (A)Typ	Marking
BPMV00100460R12□0H	0.12	10,15,20	100	0.23	55	70	R12
BPMV00100460R22□0F	0.22	10,15,20	100	0.23	22	70	R22

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat：Based on inductance change (△L/Lo：drop 20% Typ) @ ambient temp. 25℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±10%	Isat 1	Isat 2	Isat 3	Isat 4 (A)Typ	Irms (A)Typ	Marking
BPMV00100612R10□0E	0.1	10,15,20	100	0.125	125	105	96	88	77	R10
BPMV00100612R12□0E	0.12	10,15,20	100	0.125	105	93	88	81	77	R12
BPMV00100612R12□0H	0.12	10,15,20	500	0.125	105	93	88	81	77	R12
BPMV00100612R15□0E	0.15	10,15,20	100	0.125	83	75	78	65	77	R15
BPMV00100612R15□0H	0.15	10,15,20	500	0.125	83	75	78	65	77	R15
BPMV00100612R33□0E	0.33	10,15,20	100	0.125	40	33	28	26	77	R33

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat 1：Based on inductance change (△L/Lo：drop 20% Typ) @ ambient temp. 25℃
- Isat 2：Based on inductance change (△L/Lo：drop 20% Typ) @ ambient temp. 75℃
- Isat 3：Based on inductance change (△L/Lo：drop 20% Typ) @ ambient temp. 100℃
- Isat 4：Based on inductance change (△L/Lo：drop 20% Typ) @ ambient temp. 125℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat 1 or Irms

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±5%	(A)Typ Isat 1	(A)Typ Isat 2	Irms (A)Typ	Marking
BPMV0010069090N□0E	0.09	10,15,20	100	0.17	125	104	66	90N
BPMV00100690R12□0E	0.12	10,15,20	100	0.17	94	75	66	R12
BPMV00100690R15□0E	0.15	10,15,20	100	0.17	75	55	66	R15
BPMV00100690R21□0E	0.21	10,15,20	100	0.17	50	37.5	66	R21
BPMV00100690R30□0E	0.30	10,15,20	100	0.17	33	29	66	R30

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat 1：Based on inductance change (△L/Lo：drop 20% Typ) @ ambient temp. 25℃
- Isat 2：Based on inductance change (△L/Lo：drop 20% Typ) @ ambient temp. 125℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat 1 or Irms

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Standard Specifications

Part Number	Inductance (uH)	Inductance @ Isat 1 (uH)Typ	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±10%	(A)Typ Isat 1	Isat 2	Isat 3	Irms (A)Typ	Marking
BPMV00100710R10□0E	0.10	0.09	15	100	0.185	113	86	81	68	R10
BPMV00100710R12□0E	0.12	0.12	15	100	0.185	90	80	75	68	R12
BPMV00100710R15□0E	0.15	0.15	15	100	0.185	80	75	73	68	R15
BPMV00100710R33□0E	0.33	0.31	15	100	0.185	43	33	31	68	R33

Note: When ordering, please specify tolerance code. Tolerance: L=±15%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat 1：Based on inductance change (△L/Lo：drop 20% Typ) @ ambient temp. 25℃
- Isat 2：Based on inductance change (△L/Lo：drop 20% Typ) @ ambient temp. 100℃
- Isat 3：Based on inductance change (△L/Lo：drop 20% Typ) @ ambient temp. 125℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat 1 or Irms

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±5%	(A)Typ Isat 1	(A)Typ Isat 2	Irms (A)Typ	Marking
BPMV00110810R12□00	0.12	10,15,20	100	0.23	105	87	61	R12
BPMV00110810R15□00	0.15	10,15,20	100	0.23	90	70	61	R15
BPMV00110810R20□00	0.20	10,15,20	100	0.23	70	58	61	R20
BPMV00110810R22□00	0.22	10,15,20	100	0.23	64	51	61	R22
BPMV00110810R25□00	0.25	10,15,20	100	0.23	56	45	61	R25
BPMV00110810R27□00	0.27	10,15,20	100	0.23	55	44	61	R27
BPMV00110810R30□00	0.30	10,15,20	100	0.23	47	37	61	R30
BPMV00110810R32□00	0.32	10,15,20	100	0.23	42	36	61	R32
BPMV00110810R36□00	0.36	10,15,20	100	0.23	38	34	61	R36
BPMV00110810R40□00	0.40	15,20	100	0.23	36	29	61	R40
BPMV00110810R47□00	0.47	20	100	0.23	28	25	61	R47

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat 1：Based on inductance change (△L/Lo： drop 20% Typ) @ ambient temp. 25℃
- Isat 2：Based on inductance change (△L/Lo： drop 20% Typ) @ ambient temp. 100℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat 1 or Irms

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±5%	(A)Typ Isat 1	(A)Typ Isat 2	Irms (A)Typ	Marking
BPMV00110812R15□0E	0.15	10,15,20	100	0.15	115	97	75	R15
BPMV00110812R18□0E	0.18	10,15,20	100	0.15	85	72	75	R18
BPMV00110812R22□0E	0.22	10,15,20	100	0.15	75	64	75	R22
BPMV00110812R25□0E	0.25	10,15,20	100	0.15	66	56	75	R25
BPMV00110812R27□0E	0.27	10,15,20	100	0.15	60	51	75	R27
BPMV00110812R30□0E	0.30	10,15,20	100	0.15	55	45	75	R30
BPMV00110812R32□0E	0.32	10,15,20	100	0.15	51	43	75	R32

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat 1：Based on inductance change (△L/Lo： drop 20% Typ) @ ambient temp. 25℃
- Isat 2：Based on inductance change (△L/Lo： drop 20% Typ) @ ambient temp. 100℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat 1 or Irms

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±10%	FLL (uH)Min	(A)Typ Isat 1	(A)Typ Isat 2	Irms (A)Typ	Marking
BPMV00110812R15□0F	0.15	10,15,20	100	0.15	0.096	115	97	75	R15
BPMV00110812R16□0F	0.16	10,15,20	100	0.15	0.102	99	84	75	R16
BPMV00110812R17□0F	0.17	10,15,20	100	0.15	0.109	91.5	78	75	R17
BPMV00110812R18□0F	0.18	10,15,20	100	0.15	0.115	89	76	75	R18
BPMV00110812R20□0F	0.20	10,15,20	100	0.15	0.128	81	69	75	R20
BPMV00110812R22□0H	0.22	10,15,20	100	0.15	-	75	64	75	R22
BPMV00110812R25□0F	0.25	10,15,20	100	0.15	0.160	66	56	75	R25
BPMV00110812R27□0F	0.27	10,15,20	100	0.15	0.173	60	51	75	R27
BPMV00110812R32□0F	0.32	10,15,20	100	0.15	-	51	43	75	R32
BPMV00110812R40□0F	0.40	10,15,20	100	0.15	0.256	41	35	75	R40
BPMV00110812R47□0F	0.47	10,15,20	100	0.15	0.301	34	29	75	R47
BPMV00110812R60□0F	0.60	15,20	100	0.15	0.384	24.5	21	75	R60

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat 1：Based on inductance change (△L/Lo：drop 20% Typ) @ ambient temp. 25℃(For 0.22,0.32uH)
- Isat 2：Based on inductance change (△L/Lo：drop 20% Typ) @ ambient temp. 100℃(For 0.22,0.32uH)
- Full load Inductance(FLL) Test Parameters：100kHz/1.0V, Isat 1(25℃) & Isat 2(100℃)
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat 1 or Irms

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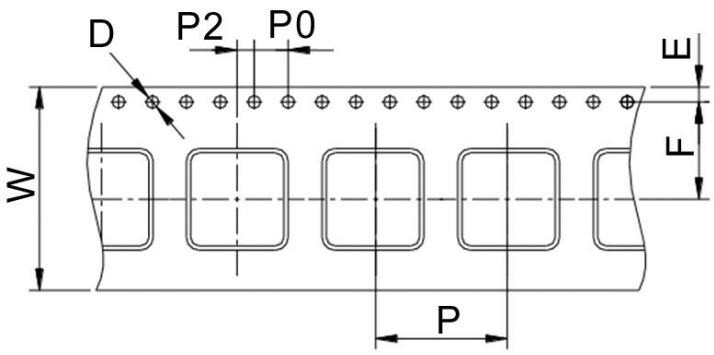
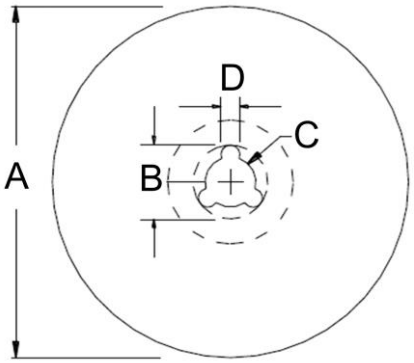
Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	W	D	E	F	P	P0	P2	A	B	C	D	PCS / Reel
BPMV00070795	24	1.5	1.75	11.5	12	4	2	330	20	13	2	500
BPMV00070796	24	1.5	1.75	11.5	12	4	2	330	20	13	2	500
BPMV00080812	24	1.5	1.75	11.5	16	4	2	330	20	13	2	300
BPMV00100460	24	1.5	1.75	11.5	12	4	2	330	20	13	2	750
BPMV00100612	24	1.5	1.75	11.5	16	4	2	330	20	13	2	300
BPMV00100690	24	1.5	1.75	11.5	12	4	2	330	20	13	2	500
BPMV00100710	24	1.5	1.75	11.5	16	4	2	330	20	13	2	350
BPMV00110810	24	1.5	1.75	11.5	16	4	2	330	20	13	2	350
BPMV00110812	24	1.5	1.75	11.5	16	4	2	330	20	13	2	300

BPMS Series

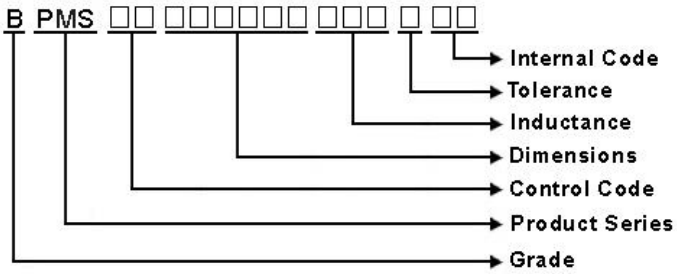
Features

- RoHS, Halogen Free and REACH Compliance
- Surface mount inductors designed for high speed, high current switch mode applications requiring lower inductance
- Gapped ferrite cores for maximum efficiency
  Customized specifications are available

Applications

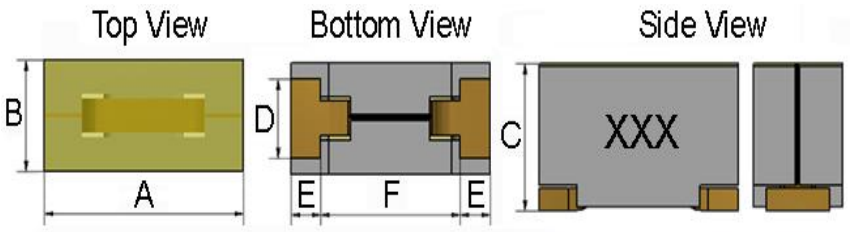
- Voltage regulator modules (VRMs) for servers, microprocessors
- High frequency, high current switching power supplies

Product Identification

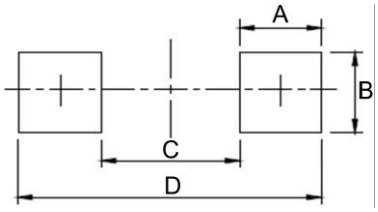


Shape and Dimensions

BPMS00100460



Recommended Pattern



Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern			
	A	B	C	D	E	F	A	B	C	D
BPMS00100460	10 ±0.2	50N 4.4±0.3 80N 4.4±0.2	6.0Max	3.2	1.5	7.0	2.5	3.7	5.3	10.3

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ	Irms (A)Typ	Marking
BPMS0010046050N□VE	0.05	10,15,20	100	0.25	120	60	50N
BPMS0010046080N□VE	0.08	10,15,20	100	0.25	90	45	80N

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat：Based on inductance change (△L/Lo：drop 20% Typ) @ ambient temp. 25℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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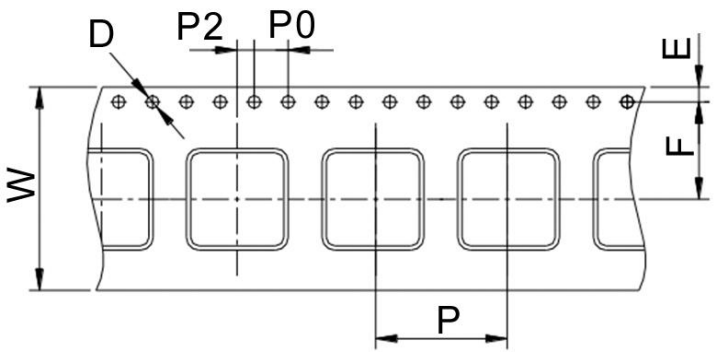
Pulse a YAGEO company

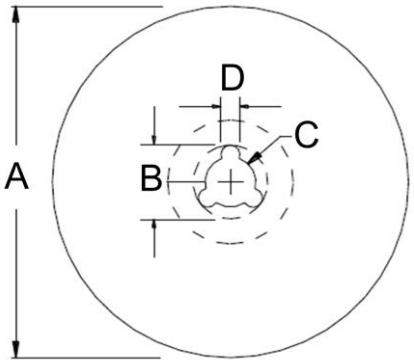
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	W	D	E	F	P	P0	P2	A	B	C	D	PCS / Reel
BPMS00100460	24	1.5	1.75	11.5	12	4	2	330	20	13	2	750

BPRQ Series

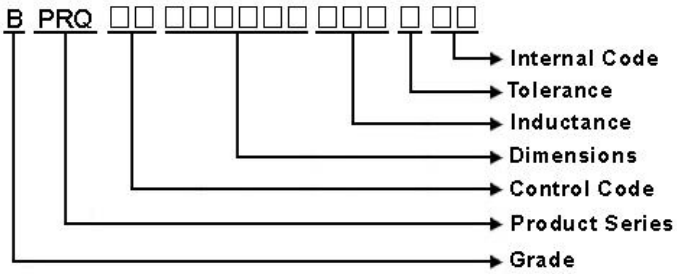
Features

- RoHS, Halogen Free and REACH Compliance
- Surface mount inductors designed for high speed, high current switch mode applications requiring lower inductance
- Gapped ferrite cores for maximum efficiency
  Customized specifications are available

Applications

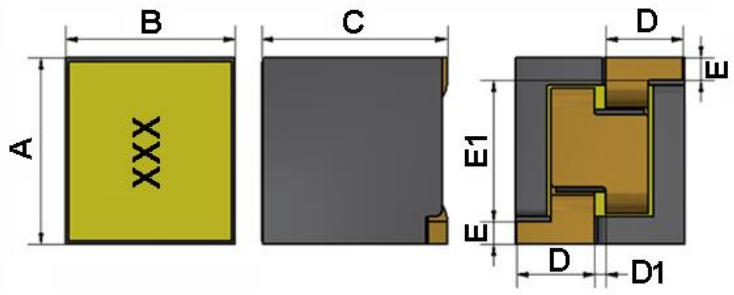
- Voltage regulator modules (VRMs) for servers, microprocessors
- High frequency, high current switching power supplies

Product Identification

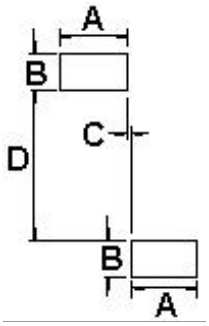


Shape and Dimensions

BPRQ00121112



Recommended Pattern



Dimensions in mm

TYPE	Shape and Dimensions							Recommended Pattern			
	A	B	C	D	D1	E	E1	A	B	C	D
BPRQ00121112	11.85 ±0.3	10.85 ±0.3	12Max	4.95	0.75	1.43	8.60	5.35	2.00	0.35	8.60

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max(Typ)	Isat1 (A)Typ	Isat2 (A)Typ	Irms (A)Typ	Marking
BPRQ00121112R30M2E	0.30	20	100kHz	0.352(0.32)	95	71	55	R30
BPRQ00121112R33M2E	0.33	20	100kHz	0.352(0.32)	90	70	55	R33
BPRQ00121112R39M2E	0.39	20	100kHz	0.352(0.32)	80	62	55	R39

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat 1：Based on inductance change (△L/Lo： drop 20% Typ) @ ambient temp. 25℃
- Isat 2：Based on inductance change (△L/Lo： drop 20% Typ) @ ambient temp. 100℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat 1 or Irms

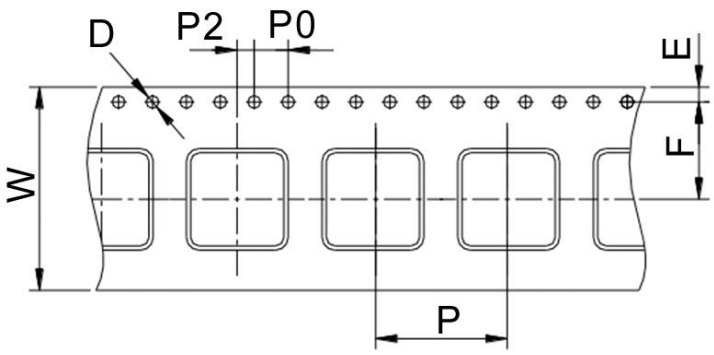
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

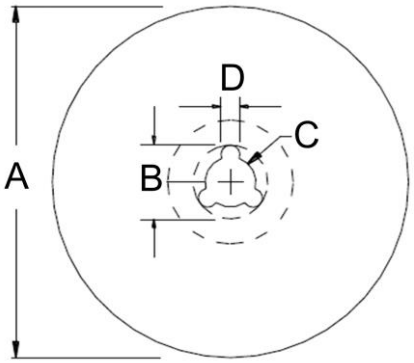
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	W	D	E	F	P	P0	P2	A	B	C	D	PCS / Reel
BPRQ00121112	24	1.5	1.75	11.5	20	4	2	330	20	13	2	200

BFSI Series

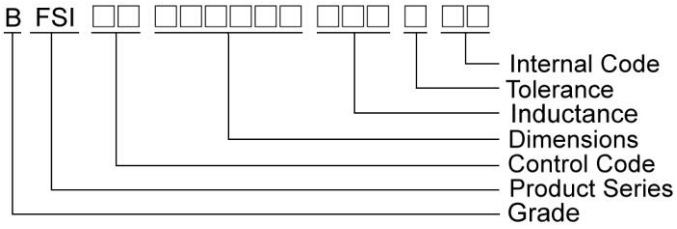
Features

- Shield construction
- Flat wire winding, achieve a low dc resistance
- Low loss, High efficiency, wide application frequency and application scope
- Lightweight design, save a space, suitable for high density SMT
- Heat dissipation

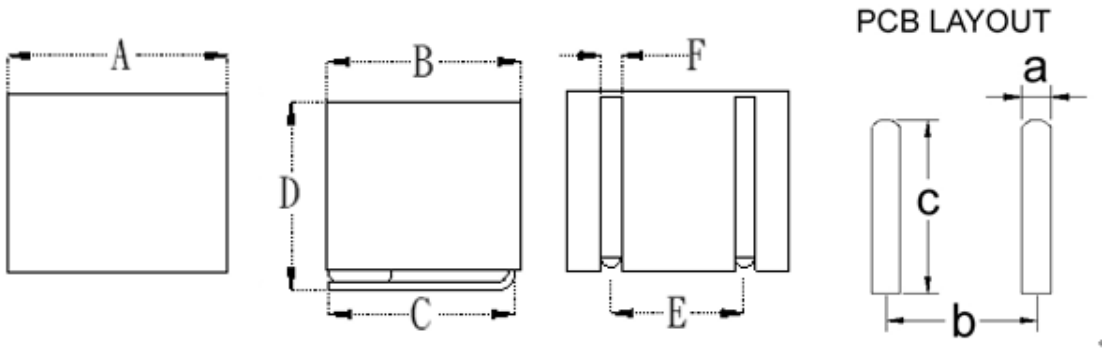
Applications

- Umpc/NBPC
- Desk Top/LCD monitor
- PDA/Lap Top
- Server systems/Computer lord plank
- Mobile Phone/ DV/HDD

Product Identification



Shapes and Dimensions



Dimensions in mm

TYPE	A	B	C	D	E	F	a	b	c
BFSI00090908	9.3Max	9.0Max	6.7±0.3	8.1±0.4	6.0±0.4	1.2±0.1	1.6	6	8
BFSI00121109	12±0.5	11±0.5	8.4±0.3	8.8Max	8.0±0.4	1.6±0.1	2.0	8	10

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.
BFSI00090908R68M05	0.68	20	100/1V	2(1.3)	38	36
BFSI000909081R0M05	1.0	20	100/1V	2.5(1.7)	31	34
BFSI000909081R5M05	1.5	20	100/1V	3.5(2.5)	28	28
BFSI000909082R2M05	2.2	20	100/1V	3.8(2.9)	24	25
BFSI000909083R3M05	3.3	20	100/1V	6.5(5.6)	19	17.5
BFSI000909084R7M05	4.7	20	100/1V	8.5(7)	17.5	15
BFSI000909086R8M05	6.8	20	100/1V	13(12)	14	12
BFSI000909088R2M05	8.2	20	100/1V	15(13.3)	12	11
BFSI00090908100M05	10	20	100/1V	15.5(13.8)	11	10

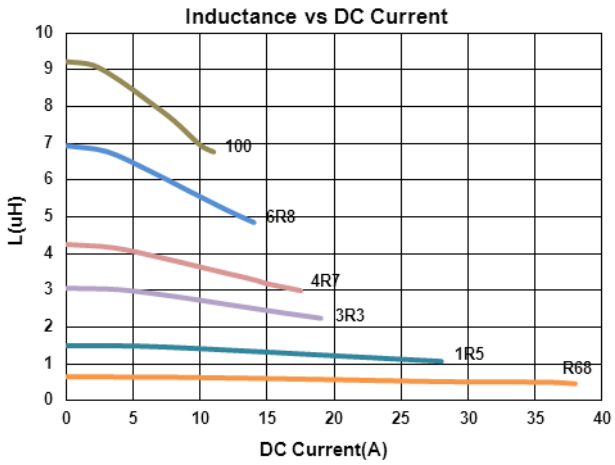
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

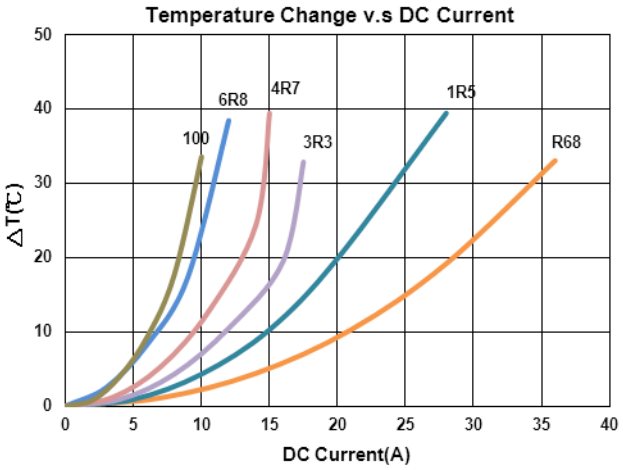
- Customized Specifications are welcome
- Isat for Inductance drop 30% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Apply glue around the product to fix the product body after loading the plate
- Measure Equipment：

  L：WK4237

  RDC：CHEN HWA502

  Isat & Irms：WK3260B/ 3265





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.
BFSI00121109R47M05	0.47	20	100/1V	1.5(1.1)	65	50
BFSI001211091R0M05	1.0	20	100/1V	2.0(1.5)	45	40
BFSI001211091R5M05	1.5	20	100/1V	2.5(2.0)	36	33
BFSI001211092R2M05	2.2	20	100/1V	2.8(2.4)	30	30
BFSI001211093R3M05	3.3	20	100/1V	3.8(3.3)	26	26
BFSI001211094R7M05	4.7	20	100/1V	6.2(5.7)	23	20
BFSI001211095R6M05	5.6	20	100/1V	7.0(6.4)	21	18
BFSI001211096R8M05	6.8	20	100/1V	7.8(6.8)	19	17
BFSI001211098R2M05	8.2	20	100/1V	9.0(8.2)	18	16
BFSI00121109100M05	10	20	100/1V	12(11.3)	17.5	13
BFSI00121109150M05	15	20	100/1V	15(14.3)	13.5	11

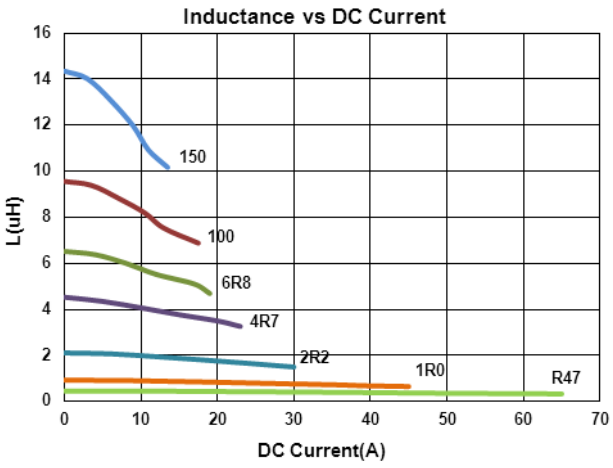
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

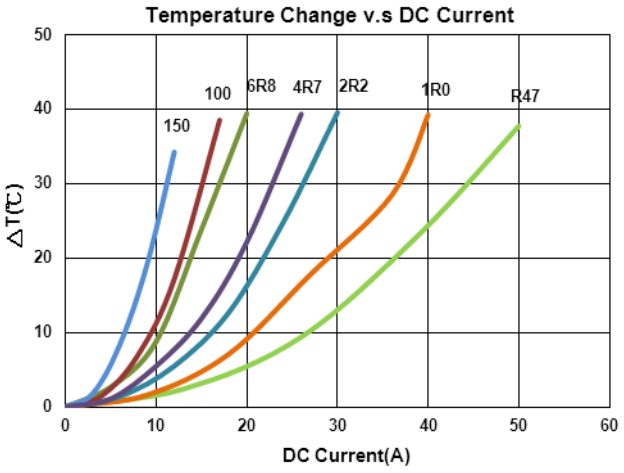
- Customized Specifications are welcome
- Isat for Inductance drop 30% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Apply glue around the product to fix the product body after loading the plate
- Measure Equipment：

  L：WK4237

  RDC：CHEN HWA502

  Isat & Irms：WK3260B/ 3265





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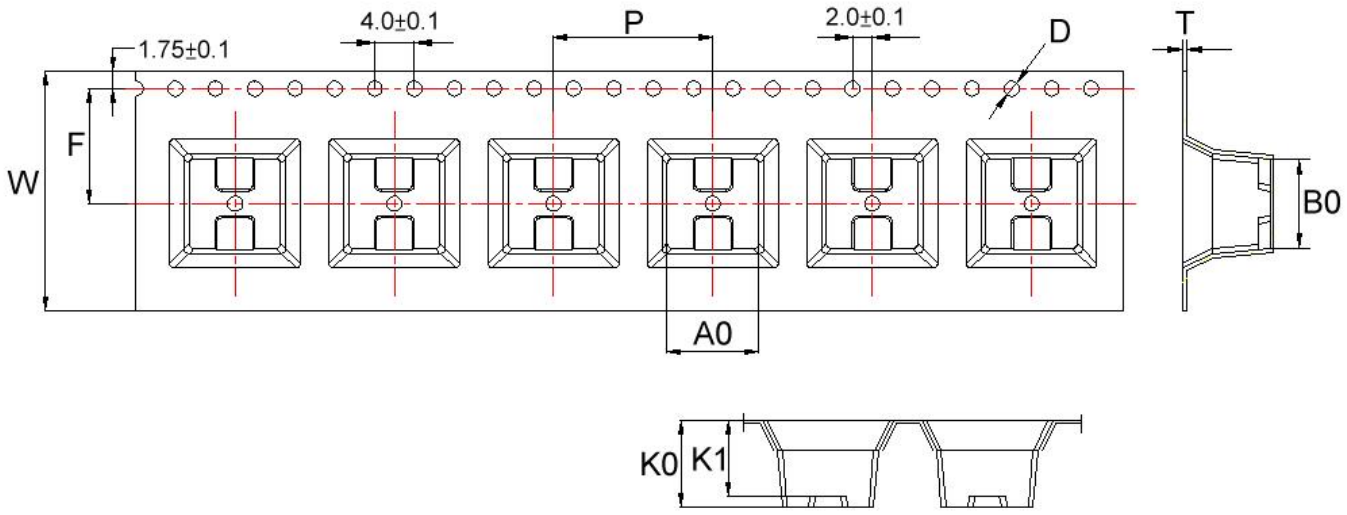
Pulse a YAGEO company

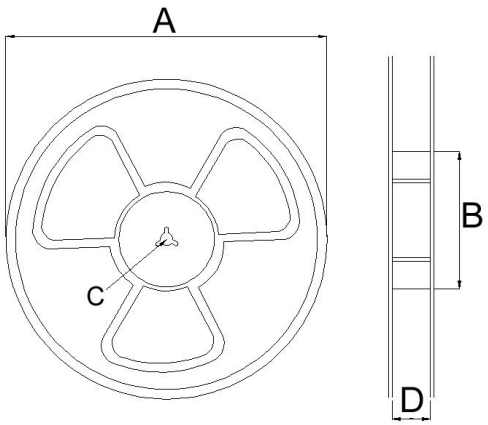
CHILISIN ELECTRONICS CORP.

Packaging

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	K1	D	F	W	T	P	A	B	C	D	PCS / REEL
BFSI00090908	9.2	9	8.8	7.60	1.5	11.5	24	0.4	16	330	100	13	24.3	300
BFSI00121109	12.2	11	9.0	8.07	1.5	11.5	24	0.5	20	330	100	13	24.3	240

BP3Y Series

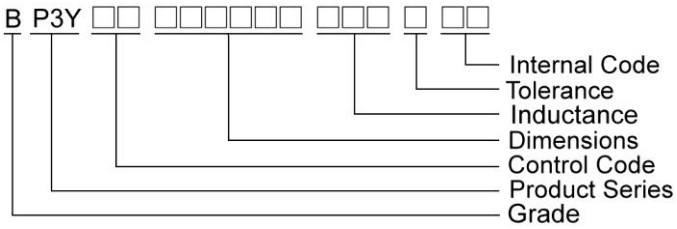
Features

- Operting Temperature up tp 125℃
- Halogn Free
- Shielded construction
- AEC-Q200 qualified
- High saturation current

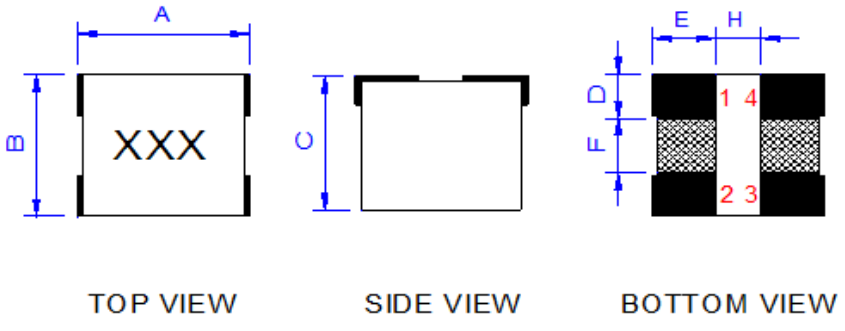
Applications

- DC/DC converters for entertainment/navigation systems
- LED Headlight & DRL
- Automobile Instrument Cluster
- Class-D Audio Amp.

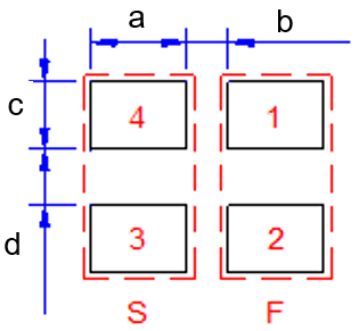
Product Identification



Shapes and Dimensions



Recommended Pattern

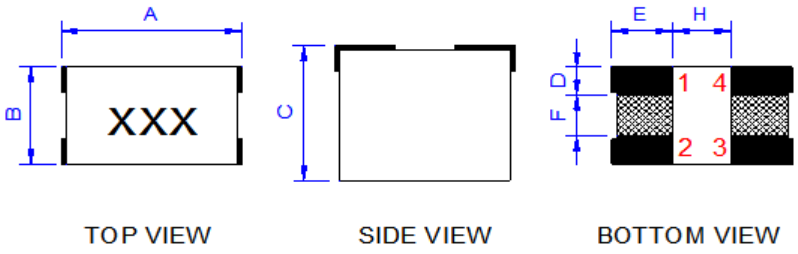


Dimensions in mm

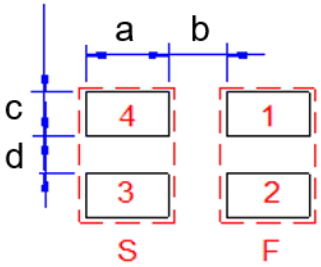
TYPE	A	B	C	D	E	F	H	a	b	c	d
BP3Y00080807	9.7Max	8.8Max	8.5 Max	2.55±0.4	3.3±0.4	3.2	2.3	3.9	1.7	3.15	2.6

SMD Shielded Power Inductor – BP3Y Series

Shapes and Dimensions



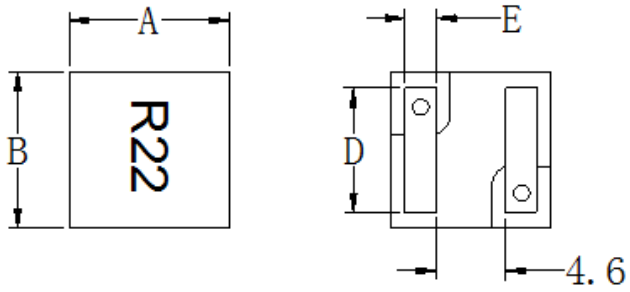
Recommended Pattern



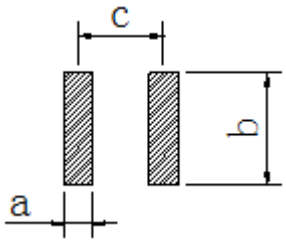
Dimensions in mm

TYPE	A	B	C	D	E	F	H	a	b	c	d
BP3Y00100609	11.5Max	7.2Max	9.7 Max	1.9±0.4	3.7±0.5	2.8	3.6	4.3	3.0	2.5	2.2

Shapes and Dimensions



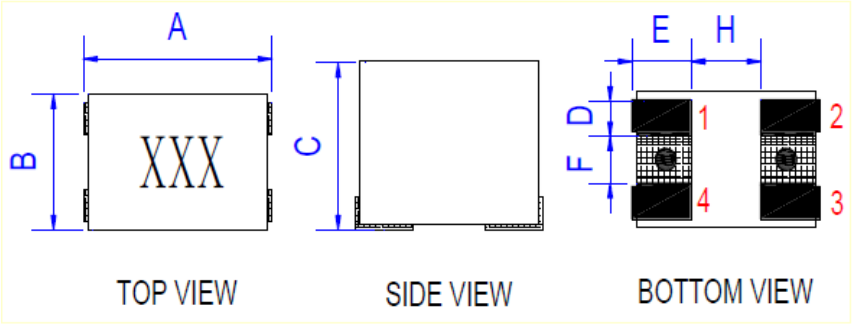
Recommended Pattern



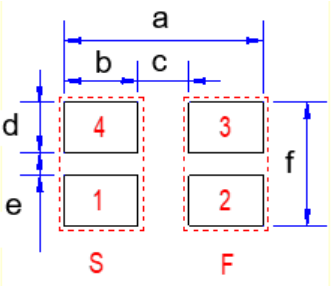
Dimensions in mm

TYPE	A	B	C	D	E	a	b	c
BP3Y00101010	11.8Max	11.8Max	10.0Max	8.6±0.3	2.2±0.3	2.38	9.0	6.65

Shapes and Dimensions



Recommended Pattern

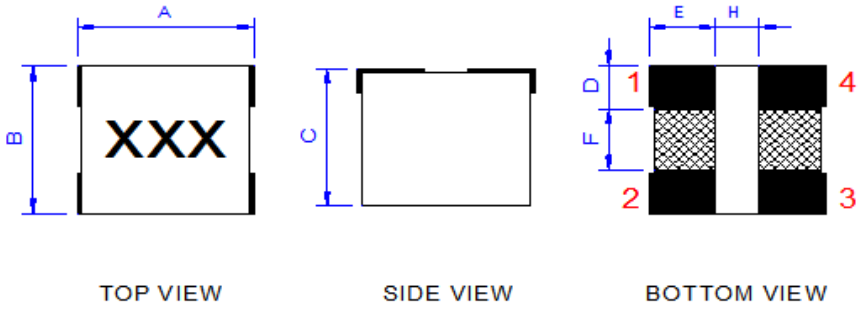


Dimensions in mm

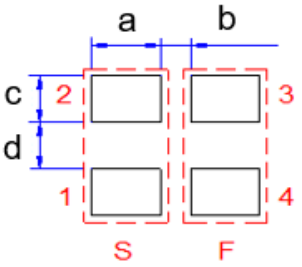
TYPE	A	B	C	D	E	F	H	a	b	c	d	e	f
BP3Y00110809	12.0Max	8.0Max	10.2Max	2.3±0.5	3.5±0.5	2.0	4.3	12.1	4.5	3.1	3.1	1.4	7.6

SMD Shielded Power Inductor – BP3Y Series

Shapes and Dimensions



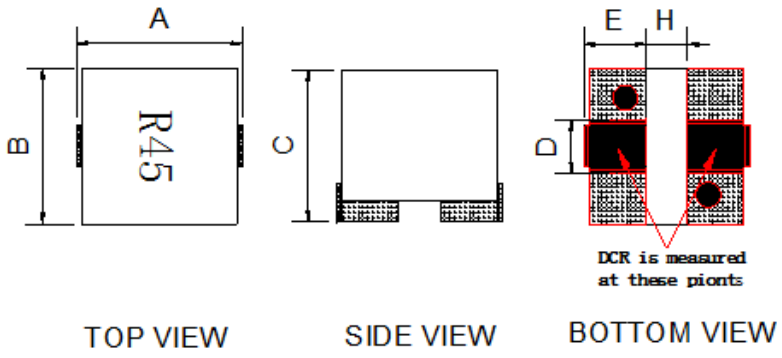
Recommended Pattern



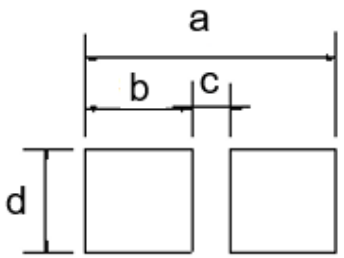
Dimensions in mm

TYPE	A	B	C	D	E	F	H	a	b	c	d
BP3Y00111010	11.3Max	10.8Max	10.5 Max	3.0	4.05±0.4	4.2	2.65	4.65	2.05	3.6	3.6

Shapes and Dimensions



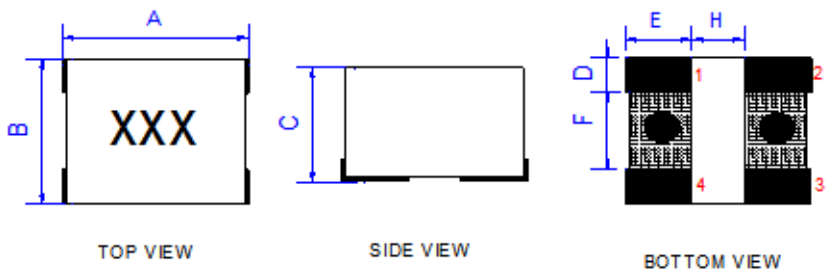
Recommended Pattern



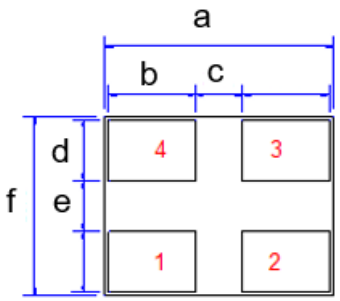
Dimensions in mm

TYPE	A	B	C	D	E	H	a	b	c	d
BP3Y00111110	13.0Max	12.2Max	10.5+1.0/-0.5	3.9±0.5	4.5±0.5	3.0	13	5.5	2.0	5.0

Shapes and Dimensions



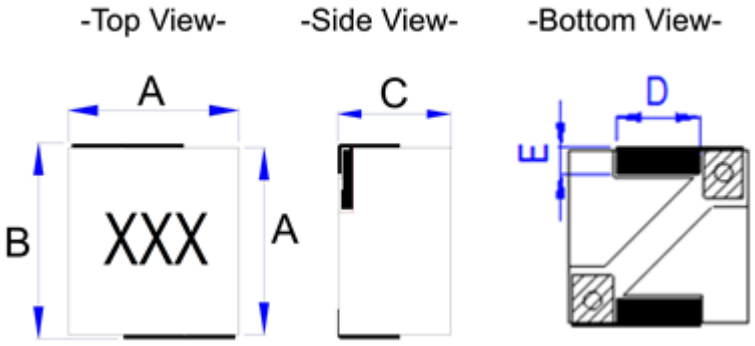
Recommended Pattern



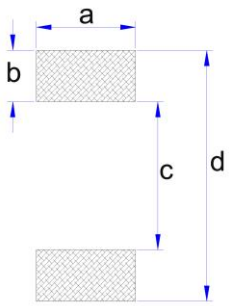
Dimensions in mm

TYPE	A	B	C	D	E	F	H	a	b	c	d	e	f
BP3Y00131210	14.7Max	13.0Max	10.5Max	3.8±0.4	5.0±0.4	4.6	3.7	15.2	5.8	3.1	4.6	3.8	13.5

Shapes and Dimensions



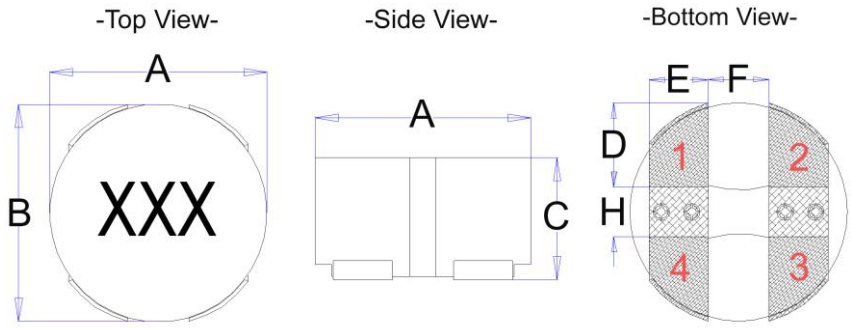
Recommended Pattern



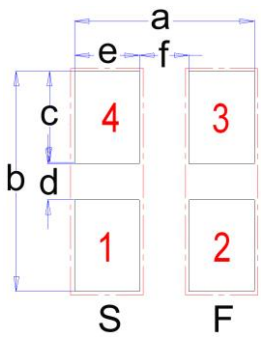
Dimensions in mm

TYPE	A	B	C	D	E	a	b	c	d
BP3Y00151510	15Max	15.7Max	10.5Max	5.1±0.5	2.3±0.5	6.6	3.3	9.5	16.1
BP3Y00151511	15Max	15.7Max	11.5Max	5.1±0.5	2.3±0.5	6.6	3.3	9.5	16.1
BP3Y00151513	15Max	15.7Max	13.5Max	5.1±0.5	2.3±0.5	6.6	3.3	9.5	16.1

Shapes and Dimensions



Recommended Pattern



Dimensions in mm

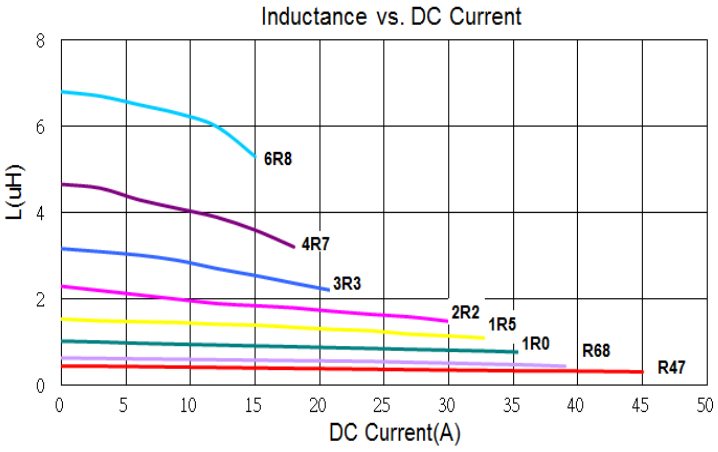
TYPE	A	B	C	D	E	F	H	a	b	c	d	e	f
BP3Y00202015	21.5Max	21.5Max	15.2ax	7.7±0.5	5.5±0.5	6.0	4.6	18.2	21.4	8.9	3.6	6.7	4.8
BP3Y00282816	29.5Max	29.5Max	16Max	11.3±0.5	7.7±0.5	8.0	5.63	24.6	29.95	12.51	4.93	8.9	6.8

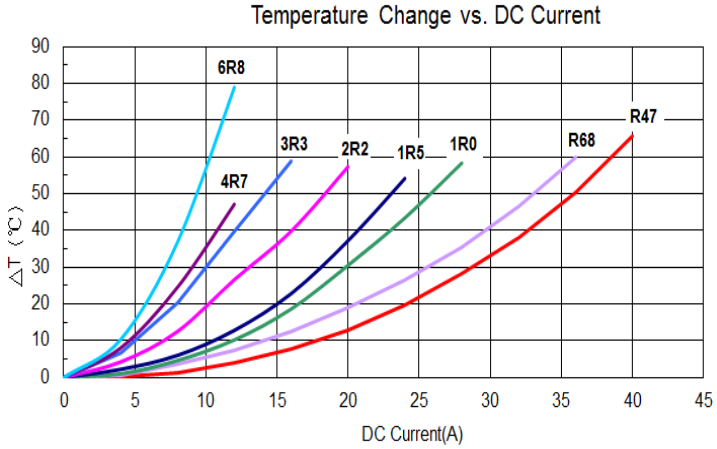
Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ	Irms (A)Typ	Marking
BP3Y00080807R47M00	0.47	20	100/1V	1.6	42	32	R47
BP3Y00080807R68M00	0.68	20	100/1V	2.08	40	29	R68
BP3Y000808071R0M00	1.0	20	100/1V	3.4	35	23	1R0
BP3Y000808071R5M00	1.5	20	100/1V	4.7	31	20	1R5
BP3Y000808072R2M00	2.2	20	100/1V	7.75	25	14	2R2
BP3Y000808073R3M00	3.3	20	100/1V	9.15	17	12.5	3R3
BP3Y000808074R7M00	4.7	20	100/1V	12.6	16	11	4R7
BP3Y000808076R8M00	6.8	20	100/1V	19.55	14	8.5	6R8

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
  Irms for a 40℃ temperature rise from 25℃ ambient with current





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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ	Irms (A)Typ	Marking
BP3Y00100609R33M00	0.33	20	100/1V	1.2	67	40	R33
BP3Y00100609R47M00	0.47	20	100/1V	1.85	65	30	R47

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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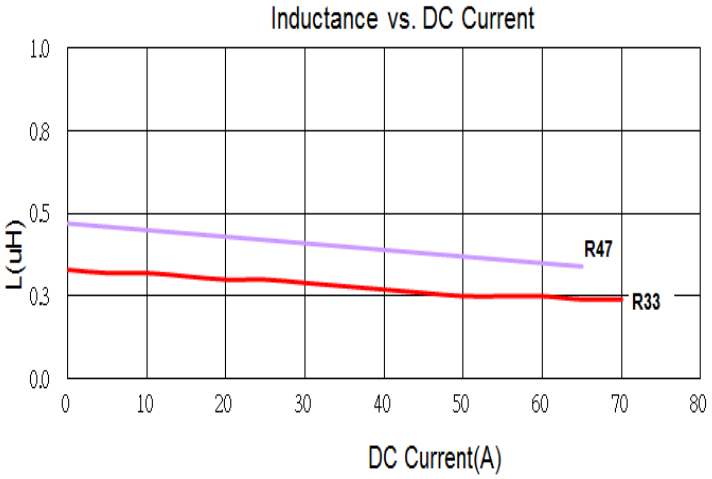
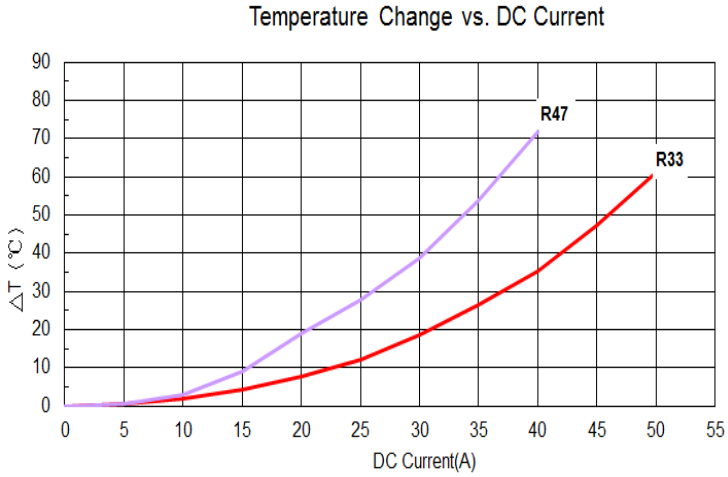
- Isat for Inductance drop 30% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current





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Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ	Irms (A)Typ	Marking
BP3Y00101010R22M00	0.22	20	100/1V	0.55	130	55	R22
BP3Y00101010R45M00	0.45	20	100/1V	0.8	90	50	R45
BP3Y00101010R68M00	0.68	20	100/1V	1.0	80	45	R68
BP3Y001010101R0M00	1.0	20	100/1V	1.3	68	40	1R0
BP3Y001010101R5M00	1.5	20	100/1V	1.9	62	35	1R5
BP3Y001010102R2M00	2.2	20	100/1V	3.1	70	30	2R2
BP3Y001010103R3M00	3.3	20	100/1V	4.3	48	25	3R3
BP3Y001010104R7M00	4.7	20	100/1V	6.7	28	20	4R7
BP3Y001010105R6M00	5.6	20	100/1V	7.4	27	21.2	5R6
BP3Y001010106R8M00	6.8	20	100/1V	9.4	22	18	6R8
BP3Y001010108R2M00	8.2	20	100/1V	14.5	20	16.5	8R2
BP3Y00101010100M00	10	20	100/1V	16.5	19	15	100
BP3Y00101010150M00	15	20	100/1V	21.5	16	13	150

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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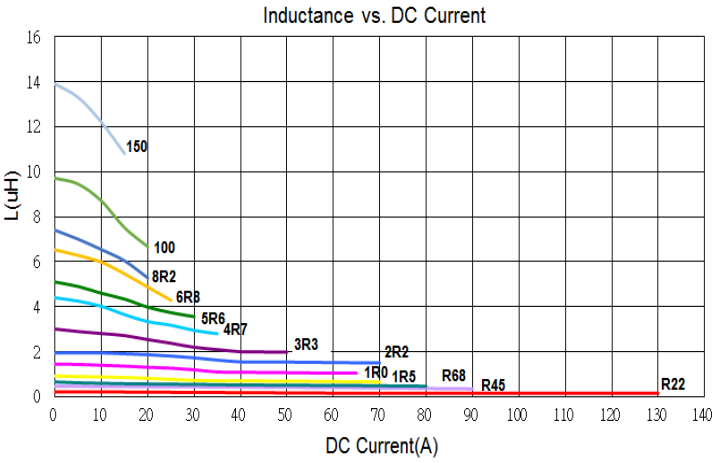
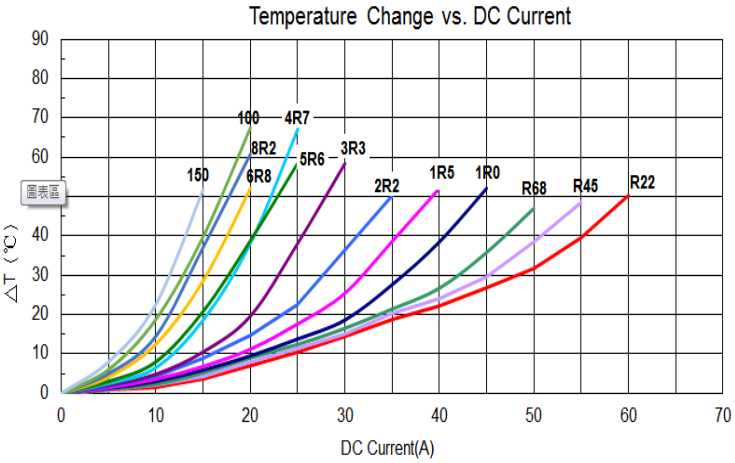
- Irms for a 40℃ temperature rise from 25℃ ambient with current





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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ	Irms (A)Typ	Marking
BP3Y001108091R0M00	1.0	20	100/1V	2.8	67	28	1R0
BP3Y001108091R5M00	1.5	20	100/1V	3.1	55	26	1R5
BP3Y001108092R2M00	2.2	20	100/1V	4.5	40	22	2R2
BP3Y001108094R7M00	4.7	20	100/1V	11.5	33	12	4R7
BP3Y001108096R8M00	6.8	20	100/1V	14.5	16	10	6R8
BP3Y001108098R2M00	8.2	20	100/1V	18	15	9	8R2
BP3Y00110809100M00	10	20	100/1V	21	14	8	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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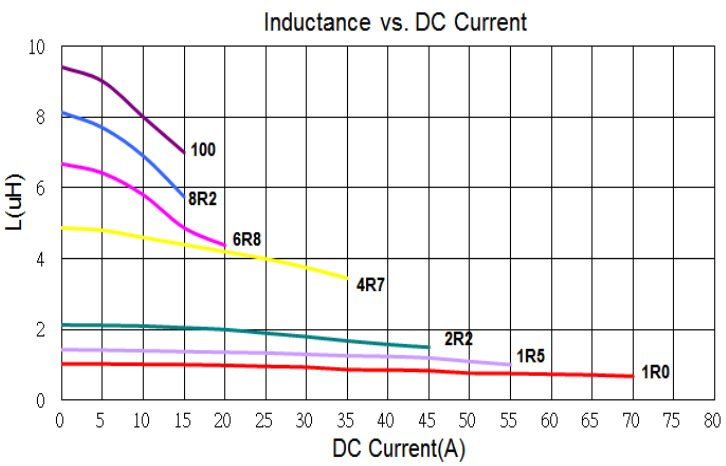
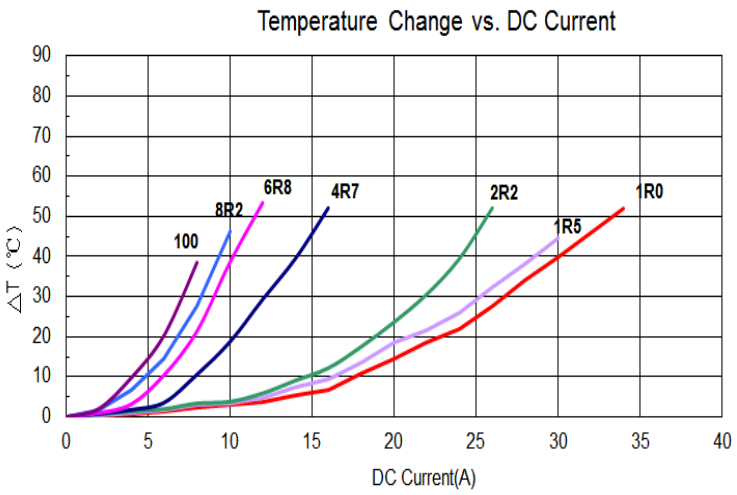
- Irms for a 40℃ temperature rise from 25℃ ambient with current





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Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ	Irms (A)Typ	Marking
BP3Y00111010R47M00	0.47	20	100/1V	1.15	50	35.5	R47
BP3Y00111010R68M00	0.68	20	100/1V	1.42	45	33	R68
BP3Y001110101R0M00	1.0	20	100/1V	2.45	43	27	1R0
BP3Y001110101R5M00	1.5	20	100/1V	3.43	38	22	1R5
BP3Y001110102R2M00	2.2	20	100/1V	4.85	33	20	2R2
BP3Y001110103R3M00	3.3	20	100/1V	6.8	21	17	3R3
BP3Y001110104R7M00	4.7	20	100/1V	9.2	19	15	4R7
BP3Y001110106R8M00	6.8	20	100/1V	14.0	16	11	6R8
BP3Y00111010100M00	10	20	100/1V	19.2	18	9.5	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
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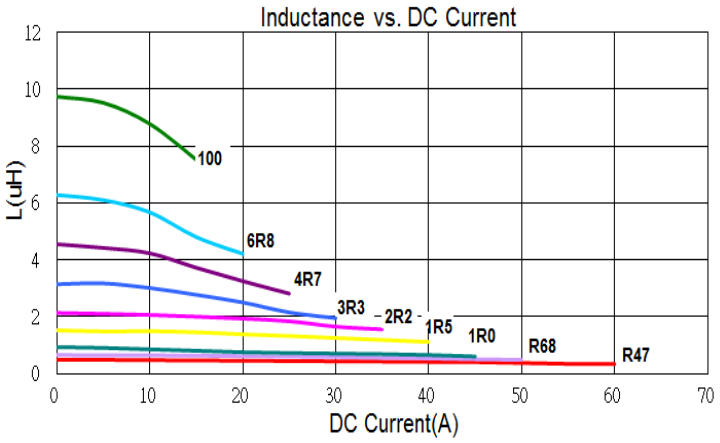

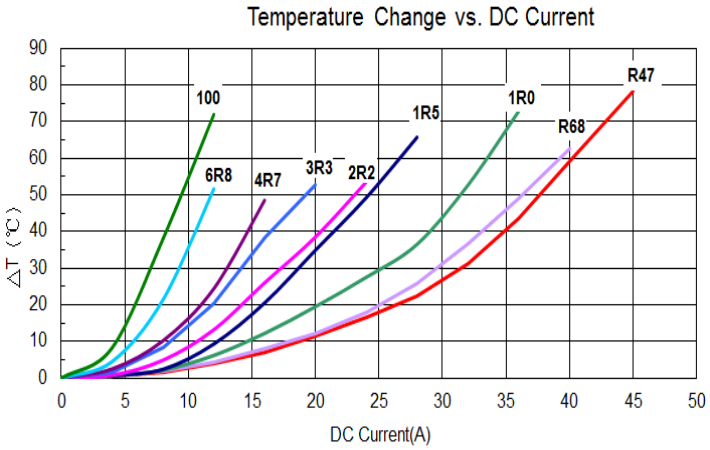

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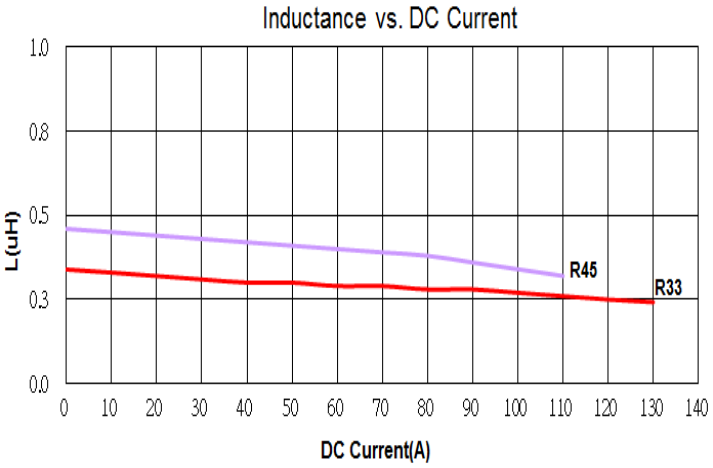
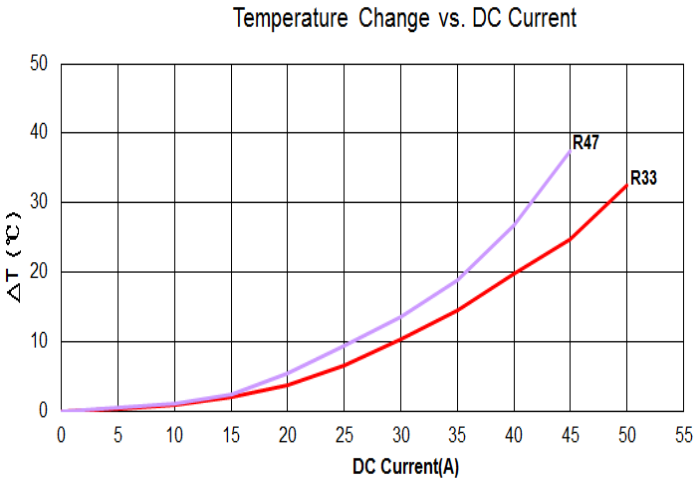
Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ	Irms (A)Typ	Marking
BP3Y00111110R33M00	0.33	20	100/1V	0.65	125	50	R33
BP3Y00111110R45M00	0.45	20	100/1V	0.75	100	46	R45

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current





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BP3Y00131210R47M00	0.47	20	100/1V	0.8	80	54	R47
BP3Y00131210R68M00	0.68	20	100/1V	1.1	75	45	R68
BP3Y001312101R0M00	1.0	20	100/1V	1.65	60	37	1R0
BP3Y001312101R5M00	1.5	20	100/1V	2.0	50	35.5	1R5
BP3Y001312102R2M00	2.2	20	100/1V	2.95	42	29.5	2R2
BP3Y001312103R3M00	3.3	20	100/1V	4.1	40	23	3R3
BP3Y001312104R7M00	4.7	20	100/1V	6.5	30	19	4R7
BP3Y001312106R8M00	6.8	20	100/1V	8.8	26	16	6R8
BP3Y00131210100M00	10	20	100/1V	14.0	23	12	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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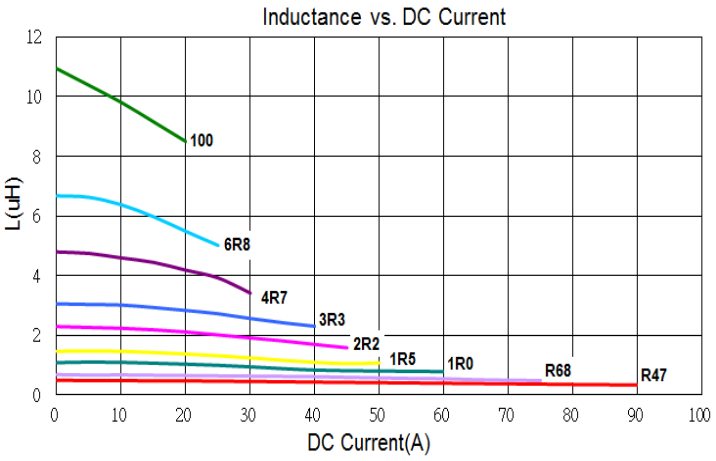
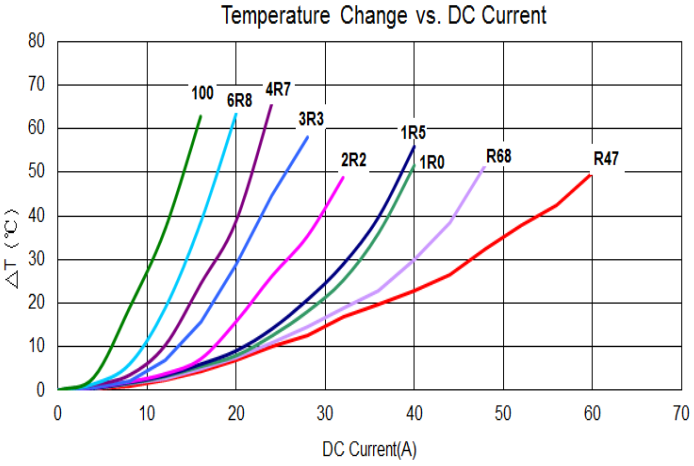
- Irms for a 40℃ temperature rise from 25℃ ambient with current





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Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ	Irms (A)Typ	Marking
BP3Y001515101R0M00	1.0	20	100/1V	1.8	100	44	1R0
BP3Y001515101R5M00	1.5	20	100/1V	2.1	95	38	1R5
BP3Y001515102R2M00	2.2	20	100/1V	2.7	70	36	2R2
BP3Y001515103R3M00	3.3	20	100/1V	3.5	50	32	3R3
BP3Y001515104R7M00	4.7	20	100/1V	5.2	45	28	4R7
BP3Y001515106R8M00	6.8	20	100/1V	6.0	38	26	6R8
BP3Y001515108R2M00	8.2	20	100/1V	7.2	34	24	8R2
BP3Y00151510100M00	10	20	100/1V	8.5	32	21	100
BP3Y00151510150M00	15	20	100/1V	11.5	30	18	150
BP3Y00151510220M00	22	20	100/1V	16.8	24	14	220
BP3Y00151511270M00	27	20	100/1V	26.5	23	11	270
BP3Y00151511330M00	33	20	100/1V	28	19	10	330
BP3Y00151513470M00	47	20	100/1V	38	17	9	470
BP3Y00151513680M00	68	20	100/1V	61	16	7	680

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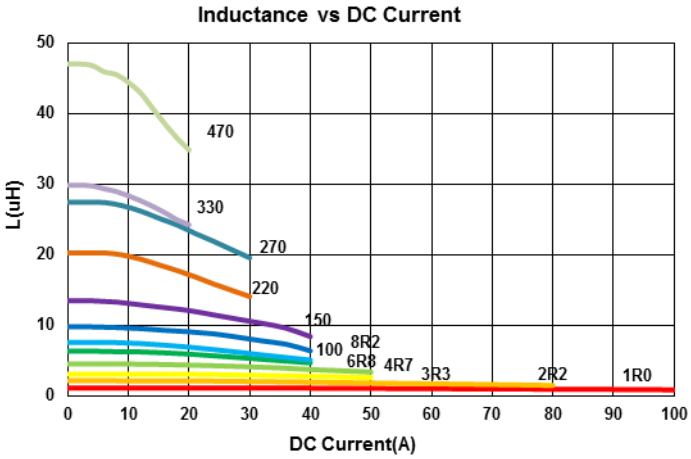

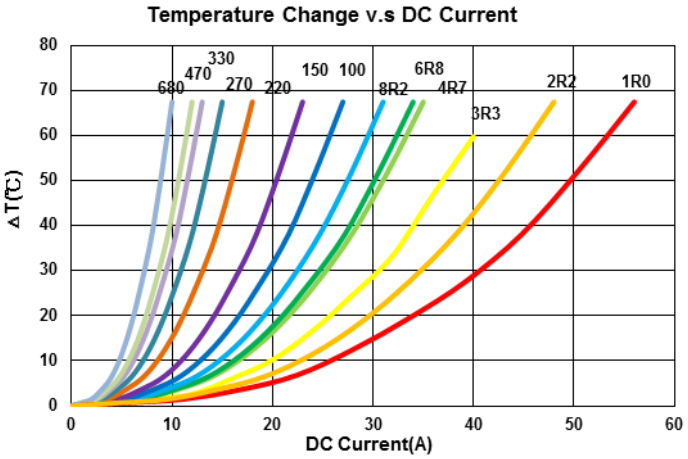

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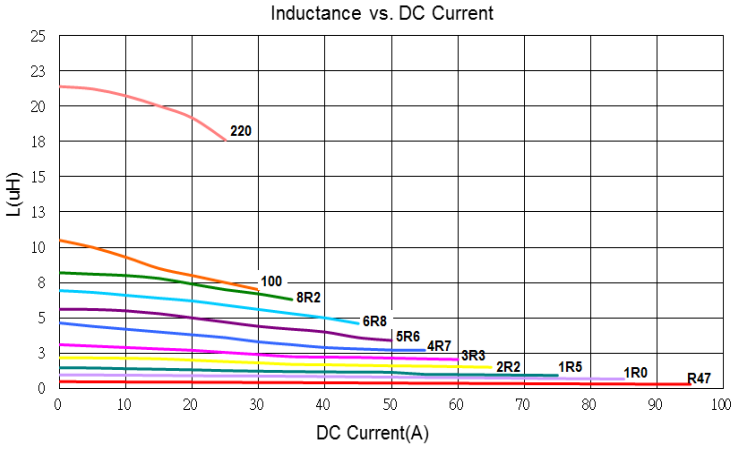
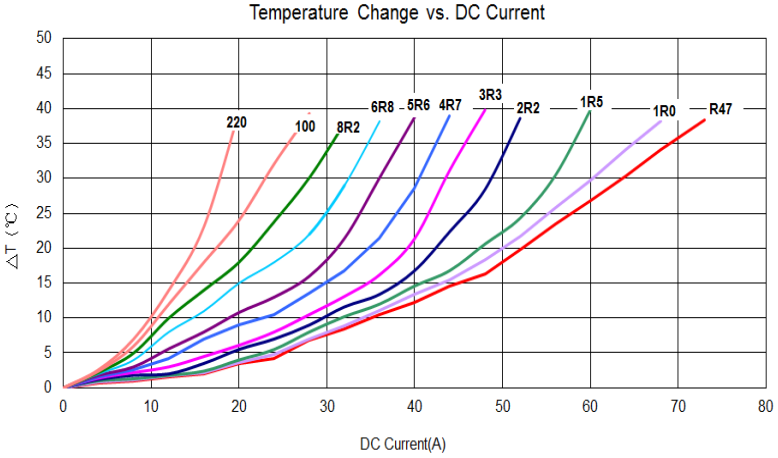
BP3Y00202015R47M00	0.47	20	100/1V	0.6	93	73	R47
BP3Y002020151R0M00	1.0	20	100/1V	0.7	62	68	1R0
BP3Y002020151R5M00	1.5	20	100/1V	1.0	50	58	1R5
BP3Y002020152R2M00	2.2	20	100/1V	1.3	48	53	2R2
BP3Y002020153R3M00	3.3	20	100/1V	1.6	33	47	3R3
BP3Y002020154R7M00	4.7	20	100/1V	2.2	30	42	4R7
BP3Y002020155R6M00	5.6	20	100/1V	3.0	28	40	5R6
BP3Y002020156R8M00	6.8	20	100/1V	3.8	25	35	6R8
BP3Y002020158R2M00	8.2	20	100/1V	4.3	23	30	8R2
BP3Y00202015100M00	10	20	100/1V	4.8	20	26	100
BP3Y00202015220M00	22	20	100/1V	9.0	11	18	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current





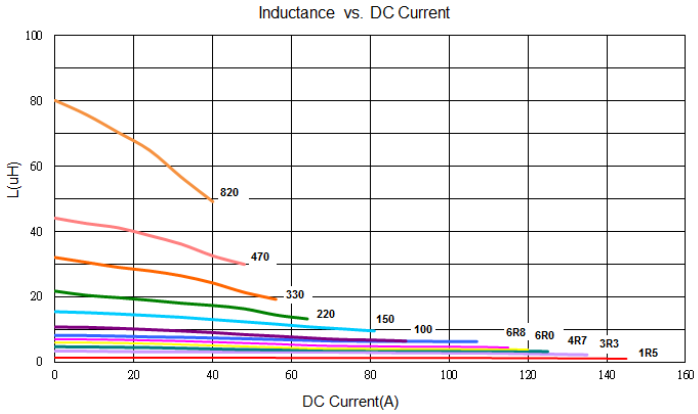
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

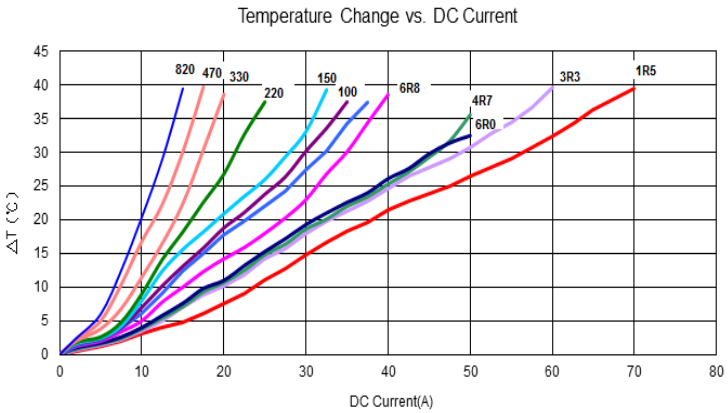
Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ	Irms (A)Typ	Marking
BP3Y002828161R5M00	1.5	20	100/1V	1.0	145	70	1R5
BP3Y002828163R3M00	3.3	20	100/1V	1.5	125	58	3R3
BP3Y002828164R7M00	4.7	20	100/1V	1.9	100	50	4R7
BP3Y002828166R0M00	6.0	20	100/1V	2.0	60	50	6R0
BP3Y002828166R8M00	6.8	20	100/1V	3.0	70	40	6R8
BP3Y002828168R2M00	8.2	20	100/1V	4.0	85	40	8R2
BP3Y00282816100M00	10	20	100/1V	5.5	62	37	100
BP3Y00282816150M00	15	20	100/1V	7.5	55	32	150
BP3Y00282816220M00	22	20	100/1V	11.5	45	25	220
BP3Y00282816330M00	33	20	100/1V	16	44	20	330
BP3Y00282816470M00	47	20	100/1V	24	35	18	470
BP3Y00282816820M00	82	20	100/1V	28	18	16	820

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current





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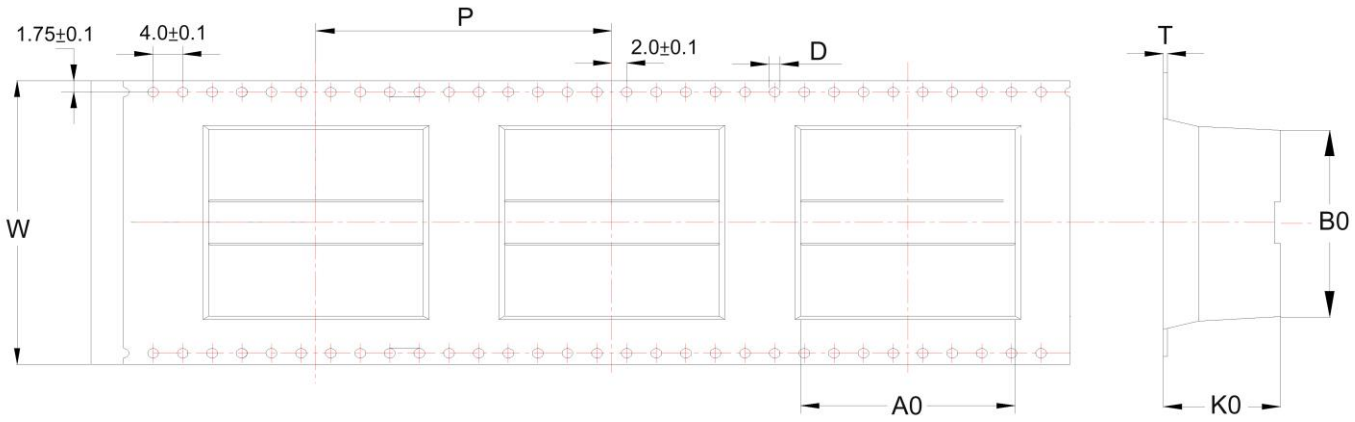
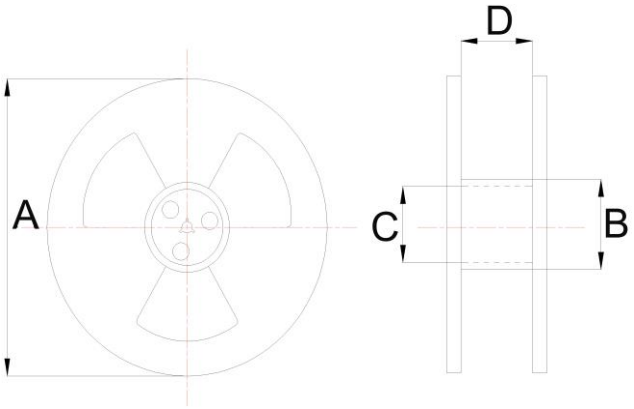
Packaging

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A0	B0	K0	D	W	T	P	A	B	C	D	PCS / REEL
BP3Y00080807	8.8	9.7	9.0	1.5	24	0.5	16	330	100	13.5	24.5	350
BP3Y00100609	12.1	8.1	10.3	1.5	24	0.5	16	330	100	13.5	24.5	350
BP3Y00101010	11.8	11.8	10.0	1.5	24	0.5	20	330	100	13.5	24.5	250
BP3Y00110809	12.1	8.1	10.3	1.5	24	0.5	16	330	100	13.5	24.5	350
BP3Y00111010	11.8	11.8	10.0	1.5	24	0.5	20	330	100	13.5	24.5	250
BP3Y00111110	13.0	12.2	12.0	1.5	24	0.5	20	330	100	13.5	24.5	200
BP3Y00131210	13.2	15.1	10.6	1.5	24	0.5	16	330	100	13.5	24.5	250
BP3Y00151510	15.7	15.1	10.7	1.5	24	0.5	24	330	100	13.5	24.5	150
BP3Y00151511	15.7	15.1	11.7	1.5	24	0.5	24	330	100	13.5	24.5	100
BP3Y00151513	15.7	15.1	13.7	1.5	24	0.5	24	330	100	13.5	24.5	100
BP3Y00202015	21.2	20.8	14.8	1.5	32	0.5	32	330	100	13.5	32.0	100
BP3Y00282816	29.2	29.2	15	1.5	44	0.5	40	330	100	13.5	44.5	30

BPSC Series

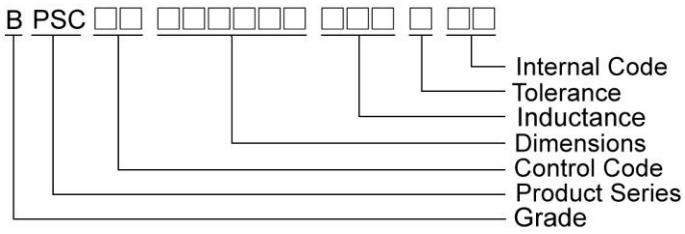
Features

- RoHS, Halogen Free and REACH Compliance
- Magnetic shielded
- Various package size and wide inductance range

Applications

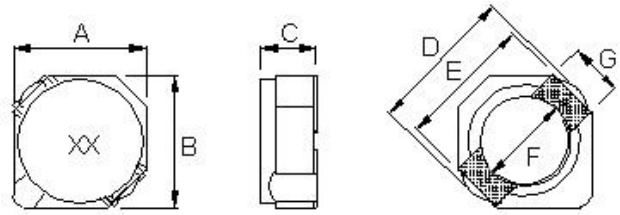
- AP Routers
- STBs
- LCD TVs and monitors
- Game consoles
- LED lightings
- DC/DC converters

Product Identification

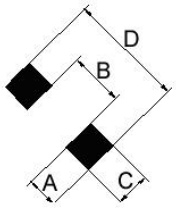


Shape and Dimensions

BPSC00030312/030316/030320



Recommended Pattern

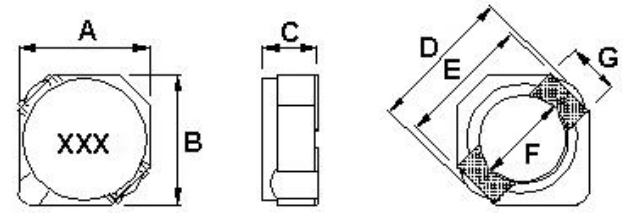


Dimension in mm

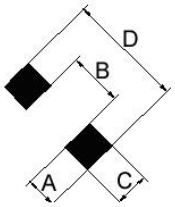
TYPE	Shape and Dimensions							Recommended Pattern			
	A	B	C	D	E	F	G	A	B	C	D
BPSC00030316	3.2^{+0}	3.2^{+0}	1.55^{+0}	4.5^{+0}	3.3	2.1	1.0	1.3	1.7	1.3	4.3
BPSC00303020	3.2^{+0}	3.2^{+0}	2.0^{+0}	4.5^{+0}	3.3	2.1	1.0	1.3	1.7	1.3	4.3

Shape and Dimensions

BPSC00040412



Recommended Pattern



Dimension in mm

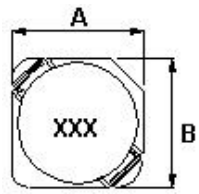
TYPE	Shape and Dimensions							Recommended Pattern			
	A	B	C	D	E	F	G	A	B	C	D
BPSC00040412	4^{+0}	4^{+0}	1.2^{+0}	5.2^{+0}	4.4	2.8	1.1	1.4	2.4	1.5	5.2

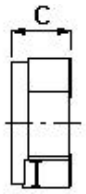
SMD Shielded Power Inductors - BPSC Series

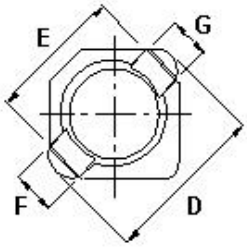
Shape and Dimensions

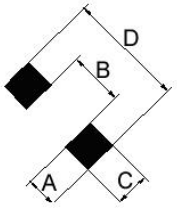
Recommended Pattern

BPSC00040418









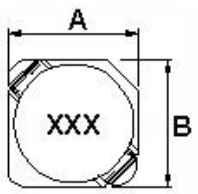
Dimensions in mm

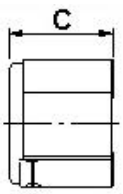
TYPE	Shape and Dimensions							Recommended Pattern			
	A	B	C	D	E	F	G	A	B	C	D
BPSC00040418	4^{+0}	4^{+0}	1.8^{+0}	5.2^{+0}	4.4Typ	1.4^{+0}	1.1Typ	1.4	2.4	1.5	5.2

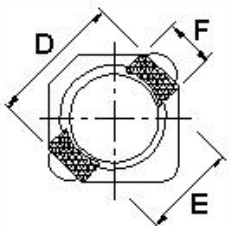
Shape and Dimensions

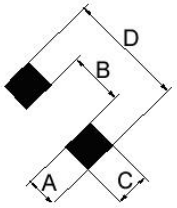
Recommended Pattern

BPSC00404030









Dimension in mm

TYPE	Shape and Dimensions						Recommended Pattern			
	A	B	C	D	E	F	A	B	C	D
BPSC00404030	4^{+0}	4^{+0}	3^{+0}	4.4	2.8	1.1	1.4	2.4	1.5	5.2

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Irms (A)Typ.	Marking
BPSC00030316R47□00	0.47	30	100 kHz,1 V	0.04	2.00(2.80)		AO
BPSC000303161R5□00	1.5	30	100 kHz,1 V	0.063	1.40(1.80)	2	BF
BPSC000303161R8□00	1.8	30	100 kHz,1 V	0.075	1.30(1.70)	1.8	BI
BPSC000303162R2□00	2.2	30	100 kHz,1 V	0.094	1.20(1.60)	1.6	CC
BPSC000303162R7□00	2.7	30	100 kHz,1 V	0.106	1.10(1.40)	1.4	CH
BPSC000303163R3□00	3.3	30	100 kHz,1 V	0.125	0.95(1.20)	1.24	DD
BPSC000303163R9□00	3.9	30	100 kHz,1 V	0.138	0.92(1.10)	1.12	DJ
BPSC000303164R1□00	4.1	20,30	100 kHz,1 V	0.169	0.80(1.00)	1	EA
BPSC000303164R7□00	4.7	20,30	100 kHz,1 V	0.169	0.80(1.00)	1	EH
BPSC000303165R6□00	5.6	20,30	100 kHz,1 V	0.188	0.76(0.95)	0.98	FG
BPSC000303166R8□00	6.8	20,30	100 kHz,1 V	0.213	0.71(0.88)	0.92	GI
BPSC000303168R2□00	8.2	20,30	100 kHz,1 V	0.281	0.64(0.80)	0.8	IC
BPSC00030316100□00	10	20,30	100 kHz,1 V	0.294	0.57(0.72)	0.76	KA
BPSC00030316120□00	12	20,30	100 kHz,1 V	0.394	0.52(0.65)	0.64	QA

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- RDC test method: place testing device to the 2 solder ends of wounding and test the value.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B
  Irms：HP4284+42841A or WK3260B+WK3265B

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Irms (A)Typ.	Marking
BPSC000303202R2□LD	2.2	20,30	100 kHz,1V	0.041	0.85(1.10)	2.3	CC
BPSC000303203R3□LD	3.3	20,30	100 kHz,1V	0.054	0.75(0.95)	2.1	DD
BPSC000303204R7□LD	4.7	20,30	100 kHz,1V	0.078	0.63(0.78)	1.65	EH
BPSC000303206R8□LD	6.8	20,30	100 kHz,1V	0.106	0.52(0.65)	1.32	GI
BPSC00030320100□LD	10	20,30	100 kHz,1V	0.18	0.43(0.53)	1	KA
BPSC00030320150□LD	15	20,30	100 kHz,1V	0.22	0.35(0.45)	0.8	MA
BPSC00030320220□LD	22	20,30	100 kHz,1V	0.32	0.30(0.36)	0.68	LA
BPSC00030320330□LD	33	20,30	100 kHz,1V	0.46	0.24(0.31)	0.56	NA
BPSC00030320390□LD	39	20,30	100 kHz,1V	0.6	0.21(0.28)		PA
BPSC00030320470□LD	47	20,30	100 kHz,1V	0.66	0.19(0.24)	0.48	OA

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- RDC test method: place testing device to the 2 solder ends of wounding and test the value.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B
  Irms：HP4284+42841A or WK3260B+WK3265B

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Irms (A)Typ.	Marking
BPSC000303201R5□HP	1.5	30	100kHz,1V	0.05	1.90(2.40)	2.2	BF
BPSC000303201R7□HP	1.7	20,30	100kHz,1V	0.05	1.85(2.40)	2.2	BH
BPSC000303202R2□HP	2.2	20,30	100kHz,1V	0.06	1.60(2.30)	1.9	CC
BPSC000303203R3□HP	3.3	20,30	100kHz,1V	0.097	1.45(1.80)	1.55	DD
BPSC000303204R7□HP	4.7	20,30	100kHz,1V	0.14	1.00(1.50)	1.2	EH
BPSC000303206R3□HP	6.3	20,30	100kHz,1V	0.18	0.96(1.30)	1.15	GD
BPSC000303206R8□HP	6.8	20,30	100kHz,1V	0.195	0.95(1.20)	1.1	GI
BPSC00030320100□HP	10	20,30	100kHz,1V	0.285	0.85(1.00)	0.9	KA
BPSC00030320150□HP	15	20,30	100kHz,1V	0.41	0.67(0.83)	0.64	MA
BPSC00030320220□HP	22	20,30	100kHz,1V	0.65	0.50(0.67)	0.6	LA

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- RDC test method: place testing device to the 2 solder ends of wounding and test the value.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B
  Irms：HP4284+42841A or WK3260B+WK3265B

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Rated Current (A)	Irms (A)Typ.	Marking
BPSC000404122R7□00	2.7	30	100 kHz,1 V	0.078	0.53	1.82	2R7
BPSC000404124R7□00	4.7	20,30	100 kHz,1 V	0.123	0.4	1.38	4R7
BPSC000404126R8□00	6.8	30	100 kHz,1 V	0.18	0.34	1.05	6R8
BPSC000404128R2□00	8.2	30	100 kHz,1 V	0.204	0.32	0.93	8R2
BPSC00040412100□00	10	20,30	100 kHz,1 V	0.24	0.28	0.9	100
BPSC00040412120□00	12	20,30	100 kHz,1 V	0.276	0.25	0.81	120
BPSC00040412150□00	15	20,30	100 kHz,1 V	0.372	0.23	0.68	150
BPSC00040412180□00	18	20,30	100 kHz,1 V	0.468	0.21	0.58	180
BPSC00040412220□00	22	20,30	100 kHz,1 V	0.54	0.19	0.53	220
BPSC00040412270□00	27	20,30	100 kHz,1 V	0.726	0.17	0.48	270
BPSC00040412330□00	33	20,30	100 kHz,1 V	0.822	0.15	0.41	330
BPSC00040412390□00	39	20,30	100 kHz,1 V	0.942	0.14	0.4	390

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Rated current for Inductance drop 35% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- RDC test method: place testing device to the 2 solder ends of wounding and test the value.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A
  RDC：Chroma 16502
  Rated current：HP4284+42841A or WK3260B+WK3265B
  Irms：HP4284+42841A or WK3260B+WK3265B

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Rated Current (A)	Irms (A)Typ.	Marking
BPSC00040412R60□HP	0.6	30	100 kHz,1 V	0.059	2.9	1.8	R60
BPSC000404121R2□HP	1.2	30	100 kHz,1 V	0.082	2	1.7	1R2
BPSC000404121R5□HP	1.5	30	100 kHz,1 V	0.104	1.85	1.45	1R5
BPSC000404122R2□HP	2.2	30	100 kHz,1 V	0.143	1.6	1.15	2R2
BPSC000404123R3□HP	3.3	30	100 kHz,1 V	0.182	1.25	0.95	3R3
BPSC000404124R7□HP	4.7	30	100 kHz,1 V	0.2	1.2	0.9	4R7
BPSC000404126R8□HP	6.8	30	100 kHz,1 V	0.377	0.85	0.7	6R8
BPSC00040412100□HP	10	20,30	100 kHz,1 V	0.413	0.8	0.6	100
BPSC00040412120□HP	12	20,30	100 kHz,1 V	0.585	0.64	0.48	120
BPSC00040412150□HP	15	20,30	100 kHz,1 V	0.653	0.58	0.45	150
BPSC00040412180□HP	18	20,30	100 kHz,1 V	0.888	0.52	0.4	180
BPSC00040412220□HP	22	20,30	100 kHz,1 V	0.925	0.53	0.33	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Rated current for Inductance drop 35% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- RDC test method: place testing device to the 2 solder ends of wounding and test the value.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A
  RDC：Chroma 16502
  Rated current：HP4284+42841A or WK3260B+WK3265B
  Irms：HP4284+42841A or WK3260B+WK3265B

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Rated Current (A)	Marking
BPSC000404181R0□S1	1.0	30	100kHz,0.1V	0.04	1.6	1R0
BPSC000404181R5□S1	1.5	30	100kHz,0.1V	0.052	1.55	1R5
BPSC000404182R2□S1	2.2	30	100kHz,0.1V	0.072	1.2	2R2
BPSC000404183R3□S1	3.3	30	100kHz,0.1V	0.085	1.1	3R3
BPSC000404184R7□S1	4.7	20,30	100kHz,0.1V	0.105	0.9	4R7
BPSC000404185R6□S1	5.6	30	100kHz,0.1V	0.135	0.8	5R6
BPSC000404186R8□S1	6.8	20,30	100kHz,0.1V	0.17	0.73	6R8
BPSC000404188R2□S1	8.2	20,30	100kHz,0.1V	0.21	0.55	8R2
BPSC00040418100□S1	10	20,30	100kHz,0.1V	0.21	0.55	100
BPSC00040418150□S1	15	30	100kHz,0.1V	0.295	0.45	150
BPSC00040418220□S1	22	20,30	100kHz,0.1V	0.43	0.4	220
BPSC00040418330□S1	33	30	100kHz,0.1V	0.675	0.32	330
BPSC00040418101□S1	100	30	100kHz,0.1V	2.75	0.13	101

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Rated current : DC current that will cause L drop approximately 35% over its nominal value or DC current cause the temperature rising approximately 40℃,whichever is lower.
- RDC test method: place testing device to the 2 solder ends of wounding and test the value.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A
  RDC：Chroma 16502
  Rated current：HP4284+42841A or WK3260B+WK3265B

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Rated Current (A)	Irms (A)Typ.	Marking
BPSC000404301R0□00	1.0	30	100 kHz,1 V	0.045	2.8	2.5	1R0
BPSC000404303R3□00	3.3	30	100 kHz,1 V	0.0721	2	1.85	3R3
BPSC000404304R7□00	4.7	30	100 kHz,1 V	0.0883	1.65	1.62	4R7
BPSC000404306R8□00	6.8	30	100 kHz,1 V	0.119	1.24	1.32	6R8
BPSC00040430100□00	10	30	100 kHz,1 V	0.145	1.05	1.18	100
BPSC00040430150□00	15	30	100 kHz,1 V	0.213	0.9	1.02	150
BPSC00040430220□00	22	30	100 kHz,1 V	0.335	0.76	0.74	220
BPSC00040430330□00	33	30	100 kHz,1 V	0.481	0.58	0.63	330
BPSC00040430470□00	47	20,30	100 kHz,1 V	0.599	0.48	0.56	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Rated current for Inductance drop 35% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- RDC test method: place testing device to the 2 solder ends of wounding and test the value.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A
  RDC：Chroma 16502
  Rated current：HP4284+42841A or WK3260B+WK3265B
  Irms：HP4284+42841A or WK3260B+WK3265B

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Rated Current (A)	Irms (A)Typ.	Marking
BPSC00040430100□LD	10	30	100 kHz,1 V	0.095	0.5	1.52	100
BPSC00040430120□LD	12	30	100 kHz,1 V	0.1	0.45	1.48	120
BPSC00040430150□LD	15	30	100 kHz,1 V	0.115	0.4	1.44	150
BPSC00040430180□LD	18	30	100 kHz,1 V	0.125	0.35	1.37	180
BPSC00040430220□LD	22	30	100 kHz,1 V	0.145	0.33	1.28	220
BPSC00040430270□LD	27	30	100 kHz,1 V	0.175	0.29	1.18	270
BPSC00040430330□LD	33	30	100 kHz,1 V	0.215	0.28	1.15	330
BPSC00040430390□LD	39	30	100 kHz,1 V	0.225	0.25	1	390
BPSC00040430470□LD	47	30	100 kHz,1 V	0.305	0.23	0.81	470
BPSC00040430560□LD	56	30	100 kHz,1 V	0.325	0.2	0.76	560
BPSC00040430680□LD	68	30	100 kHz,1 V	0.47	0.185	0.6	680
BPSC00040430820□LD	82	30	100 kHz,1 V	0.54	0.172	0.58	820
BPSC00040430101□LD	100	30	100 kHz,1 V	0.61	0.16	0.52	101
BPSC00040430121□LD	120	30	100 kHz,1 V	0.755	0.136	0.5	121
BPSC00040430151□LD	150	30	100 kHz,1 V	0.88	0.124	0.48	151
BPSC00040430181□LD	180	30	100 kHz,1 V	1.13	0.119	0.42	181
BPSC00040430221□LD	220	30	100 kHz,1 V	1.27	0.116	0.36	221

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Rated current for Inductance drop 35% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- RDC test method: place testing device to the 2 solder ends of wounding and test the value.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A
  RDC：Chroma 16502
  Rated current：HP4284+42841A or WK3260B+WK3265B
  Irms：HP4284+42841A or WK3260B+WK3265B

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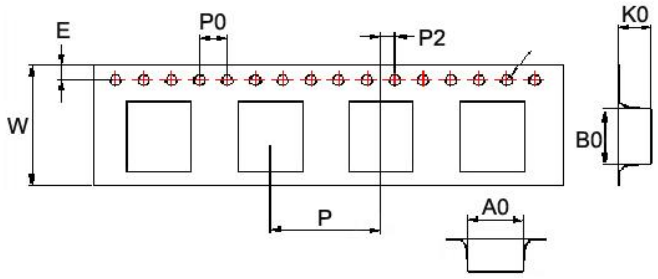
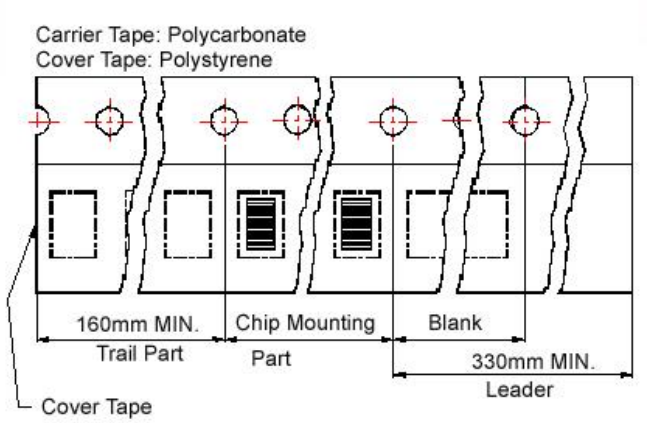
Packaging Specifications

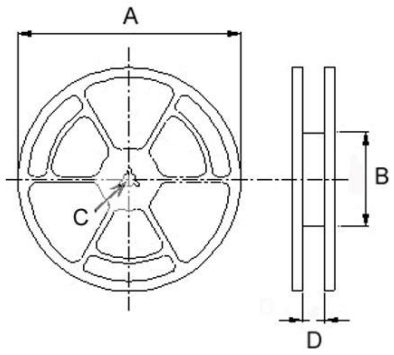
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
BPSC00030316	3.35	3.35	1.7	1.55	1.75	12	8	4	2	178	60	13	13.2	1000
BPSC00030320	3.5	3.5	2.1	1.55	1.75	12	8	4	2	178	60	13	13.2	1000
BPSC00040412	4.2	4.2	1.5	1.55	1.75	12	8	4	2	178	60	13	13.2	1000
BPSC00040418	4.1	4.1	2.0	1.5	1.75	12	8	4	2	178	60	13	13.2	1000
BPSC00040430	4.2	4.2	3.2	1.55	1.75	12	8	4	2	178	60	13	13.2	500

BPSC Series

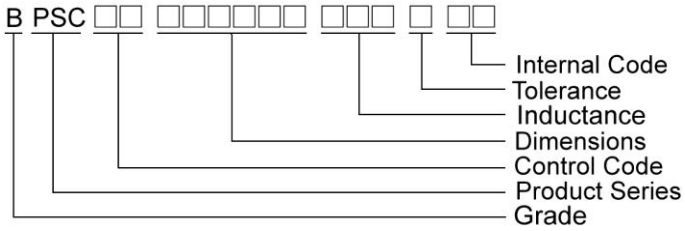
Features

- RoHS, Halogen Free and REACH Compliance
- Magnetic shielded
- Various package size and wide inductance range

Applications

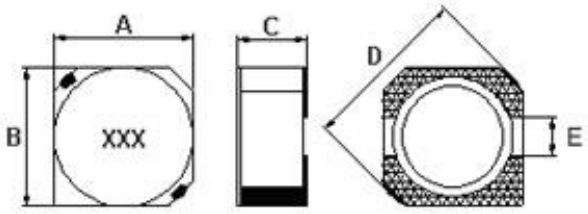
- AP Routers
- STBs
- LCD TVs and monitors
- Game consoles
- LED lightings
- DC/DC converters

Product Identification

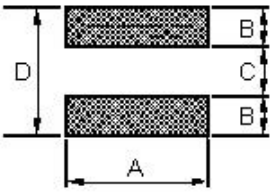


Shape and Dimensions

BPSC00040418



Recommended Pattern

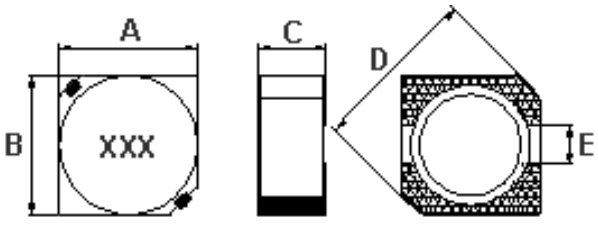


Dimensions in mm

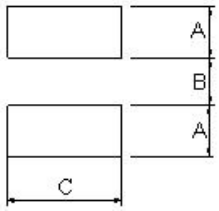
TYPE	Shape and Dimensions					Recommended Pattern			
	A	B	C	D	E	A	B	C	D
BPSC00404018	4^{+0}	4^{+0}	1.8^{+0}	5.2^{+0}	1.0	4.6	1.6	1.4	4.6

Shape and Dimensions

BPSC00050520~050540



Recommended Pattern



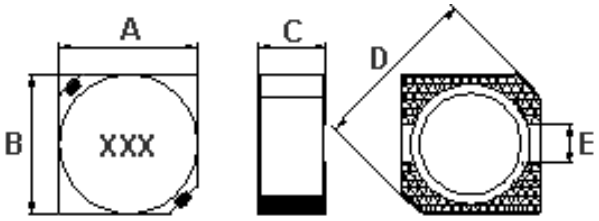
Dimension in mm

TYPE	Shape and Dimensions					Recommended Pattern		
	A	B	C	D	E	A	B	C
BPSC00050520	4.7±0.3	4.7±0.3	2.0^{+0}	6.9^{+0}	1.5	1.9	1.5	5.3
BPSC00050530	4.7±0.3	4.7±0.3	3.0^{+0}	6.9^{+0}	1.5	1.9	1.5	5.3
BPSC00050540	4.7±0.3	4.7±0.3	4^{+0}	6.9^{+0}	1.5	1.9	1.5	5.3

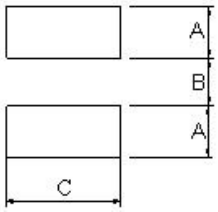
SMD Shielded Power Inductors - BPSC Series

Shape and Dimensions

BPSC00060620~070740



Recommended Pattern



Dimension in mm

TYPE	Shape and Dimensions					Recommended Pattern		
	A	B	C	D	E	A	B	C
BPSC00060620	5.7±0.3	5.7±0.3	2.0^{+0}	8.2^{+0}	2.0	2.15	2.0	6.3
BPSC00060630	5.7±0.3	5.7±0.3	3.0^{+0}	8.2^{+0}	2.0	2.15	2.0	6.3
BPSC00070730	6.7±0.3	6.7±0.3	3.0^{+0}	9.5^{+0}	2.0	2.65	2.0	7.3
BPSC00070740	7^{+0}	7^{+0}	4^{+0}	9.5^{+0}	2.0	2.65	2.0	7.3

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Marking
BPSC000404181R0□S0	1.0	30	100 kHz,0.1 V	0.04	1.35(1.70)	1R0
BPSC000404181R5□S0	1.5	30	100 kHz,0.1 V	0.052	1.25(1.60)	1R5
BPSC000404182R2□S0	2.2	30	100 kHz,0.1 V	0.072	1.00(1.30)	2R2
BPSC000404183R3□S0	3.3	20,30	100 kHz,0.1 V	0.085	0.88(1.10)	3R3
BPSC000404183R6□S0	3.6	30	100 kHz,0.1 V	0.09	0.74(0.93)	3R6
BPSC000404184R7□S0	4.7	20,30	100 kHz,0.1 V	0.105	0.72(0.90)	4R7
BPSC000404186R8□S0	6.8	20,30	100 kHz,0.1 V	0.17	0.61(0.74)	6R8
BPSC00040418100□S0	10	20,30	100 kHz,0.1 V	0.21	0.55(0.60)	100
BPSC00040418150□S0	15	20,30	100 kHz,0.1 V	0.295	0.45(0.52)	150
BPSC00040418220□S0	22	20,30	100 kHz,0.1 V	0.43	0.32(0.40)	220
BPSC00040418270□S0	27	30	100 kHz,0.1 V	0.62	0.30(0.37)	270
BPSC00040418330□S0	33	30	100 kHz,0.1 V	0.675	0.26(0.32)	330
BPSC00040418680□S0	68	30	100 kHz,0.1 V	1.7	0.16(0.21)	680

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- RDC test method: place testing device to the 2 solder ends of wounding and test the value.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Marking
BPSC000505201R0□S0	1	30	7.96 MHz,1 V	0.045	1.72(2.50)	1R0
BPSC00050520R5□S0	1.5	30	7.96 MHz,1 V	0.06	1.50(1.80)	1R5
BPSC000505201R8□S0	1.8	30	7.96 MHz,1 V	0.07	1.35(1.70)	1R8
BPSC000505202R2□S0	2.2	20,30	7.96 MHz,1 V	0.075	1.30(1.60)	2R2
BPSC000505202R7□S0	2.7	30	7.96 MHz,1 V	0.105	1.20(1.50)	2R7
BPSC000505203R3□S0	3.3	20,30	7.96 MHz,1 V	0.11	1.04(1.30)	3R3
BPSC000505203R9□S0	3.9	30	7.96 MHz,1 V	0.155	0.88(1.20)	3R9
BPSC000505204R7□S0	4.7	30	7.96 MHz,1 V	0.162	0.84(1.10)	4R7
BPSC000505205R6□S0	5.6	30	7.96 MHz,1 V	0.17	0.80(1.00)	5R6
BPSC000505206R3□S0	6.3	30	7.96 MHz,1 V	0.18	0.78(0.95)	6R3
BPSC000505206R8□S0	6.8	20,30	7.96 MHz,1 V	0.2	0.76(0.85)	6R8
BPSC000505208R2□S0	8.2	30	7.96 MHz,1 V	0.245	0.68(0.80)	8R2
BPSC00050520100□S0	10	20,30	100 kHz,1 V	0.28	0.61(0.75)	100
BPSC00050520120□S0	12	30	100 kHz,1 V	0.32	0.56(0.70)	120
BPSC00050520150□S0	15	30	100 kHz,1 V	0.36	0.50(0.65)	150
BPSC00050520180□S0	18	30	100 kHz,1 V	0.4	0.48(0.60)	180
BPSC00050520220□S0	22	20,30	100 kHz,1 V	0.48	0.41(0.55)	220
BPSC00050520270□S0	27	30	100 kHz,1 V	0.57	0.35(0.50)	270
BPSC00050520330□S0	33	30	100 kHz,1 V	0.694	0.32(0.45)	330
BPSC00050520390□S0	39	30	100 kHz,1 V	0.8	0.30(0.40)	390
BPSC00050520470□S0	47	30	100 kHz,1 V	0.95	0.28(0.38)	470
BPSC00050520560□S0	56	30	100 kHz,1 V	1.08	0.26(0.35)	560
BPSC00050520680□S0	68	30	100 kHz,1 V	1.3	0.24(0.34)	680
BPSC00050520101□S0	100	20,30	100 kHz,1 V	2	0.20(0.30)	101

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- RDC test method: place testing device to the 2 solder ends of wounding and test the value.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Marking
BPSC000505301R2□S0	1.2	30	100 kHz,1 V	0.0236	2.56(4.10)	1R2
BPSC000505301R8□S0	1.8	30	100 kHz,1 V	0.035	2.20(3.20)	1R8
BPSC000505302R0□S0	2.0	30	100 kHz,1 V	0.030	2.10(3.00)	2R0
BPSC000505302R2□S0	2.2	20,30	100 kHz,1 V	0.0313	2.04(2.90)	2R2
BPSC000505302R7□S0	2.7	30	100 kHz,1 V	0.0433	1.60(2.80)	2R7
BPSC000505303R3□S0	3.3	30	100 kHz,1 V	0.0492	1.57(2.30)	3R3
BPSC000505303R9□S0	3.9	30	100 kHz,1 V	0.0648	1.44(2.10)	3R9
BPSC000505304R7□S0	4.7	20,30	100 kHz,1 V	0.072	1.32(2.00)	4R7
BPSC000505305R6□S0	5.6	30	100 kHz,1 V	0.1009	1.17(1.70)	5R6
BPSC000505306R8□S0	6.8	20,30	100 kHz,1 V	0.1089	1.12(1.60)	6R8
BPSC000505308R2□S0	8.2	30	100 kHz,1 V	0.1175	1.04(1.50)	8R2
BPSC00050530100□S0	10	30	100 kHz,1 V	0.1283	1.00(1.30)	100
BPSC00050530120□S0	12	20,30	100 kHz,1 V	0.1316	0.84(1.10)	120
BPSC00050530150□S0	15	30	100 kHz,1 V	0.149	0.76(1.00)	150
BPSC00050530180□S0	18	30	100 kHz,1 V	0.166	0.72(0.99)	180
BPSC00050530220□S0	22	20,30	100 kHz,1 V	0.235	0.70(0.93)	220
BPSC00050530270□S0	27	30	100 kHz,1 V	0.261	0.58(0.83)	270
BPSC00050530330□S0	33	20,30	100 kHz,1 V	0.3313	0.56(0.64)	330
BPSC00050530390□S0	39	20,30	100 kHz,1 V	0.3837	0.50(0.70)	390
BPSC00050530470□S0	47	20,30	100 kHz,1 V	0.587	0.48(0.61)	470
BPSC00050530560□S0	56	30	100 kHz,1 V	0.6245	0.41(0.54)	560
BPSC00050530680□S0	68	30	100 kHz,1 V	0.699	0.35(0.49)	680
BPSC00050530820□S0	82	30	100 kHz,1 V	0.9148	0.32(0.49)	820
BPSC00050530101□S0	100	20,30	100 kHz,1 V	1.02	0.29(0.45)	101
BPSC00050530121□S0	120	30	100 kHz,1 V	1.27	0.27(0.40)	121
BPSC00050530151□S0	150	30	100 kHz,1 V	1.35	0.24(0.34)	151
BPSC00050530181□S0	180	30	100 kHz,1 V	1.54	0.22(0.32)	181
BPSC00050530221□S0	220	30	100 kHz,1 V	2	0.20(0.29)	221
BPSC00050530331□S0	330	20,30	100 kHz,1 V	3.4	0.19(0.24)	331
BPSC00050530391□S0	390	20,30	100 kHz,1 V	3.56	0.18(0.22)	391
BPSC00050530681□S0	680	20,30	100 kHz,1 V	5.2	0.10(0.17)	681

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- RDC test method: place testing device to the 2 solder ends of wounding and test the value.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Irms (A)Typ.	Marking
BPSC000505402R2□S0	2.2	30	100 kHz,1V	0.033	3.5(4.6)	4.3	2R2
BPSC000505403R3□S0	3.3	30	100 kHz,1V	0.039	2.7(3.4)	3.6	3R3
BPSC000505404R7□S0	4.7	20,30	100 kHz,1V	0.053	2.4(3.0)	3	4R7
BPSC000505406R8□S0	6.8	20,30	100 kHz,1V	0.06	2.0(2.6)	2.8	6R8
BPSC00050540100□S0	10	20,30	100 kHz,1V	0.15	1.5(2.0)	1.6	100
BPSC00050540150□S0	15	20,30	100 kHz,1V	0.21	1.2(1.6)	1.35	150
BPSC00050540220□S0	22	20,30	100 kHz,1V	0.27	1.0(1.4)	1	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- RDC test method: place testing device to the 2 solder ends of wounding and test the value.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A (under 1MHz)
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B
  Irms：HP4284+42841A or WK3260B+WK3265B

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Marking
BPSC000606201R0□S0	1.0	30	10 kHz,1 V	0.038	1.00(3.50)	1R0
BPSC000606201R5□S0	1.5	30	10 kHz,1 V	0.038	2.50(3.00)	1R5
BPSC000606202R0□S0	2.0	30	10 kHz,1 V	0.045	2.10(2.60)	2R0
BPSC000606202R2□S0	2.2	30	10 kHz,1 V	0.048	2.00(2.50)	2R2
BPSC000606203R3□S0	3.3	30	10 kHz,1 V	0.056	1.70(2.00)	3R3
BPSC000606204R1□S0	4.1	30	10 kHz,1 V	0.057	1.55(1.90)	4R1
BPSC000606204R7□S0	4.7	20,30	10 kHz,1 V	0.076	1.35(1.70)	4R7
BPSC000606205R4□S0	5.4	30	10 kHz,1 V	0.076	1.20(1.50)	5R4
BPSC000606206R2□S0	6.2	30	10 kHz,1 V	0.096	1.10(1.40)	6R2
BPSC000606206R8□S0	6.8	30	10 kHz,1 V	0.1	1.00(1.30)	6R8
BPSC000606208R9□S0	8.9	30	10 kHz,1 V	0.116	0.95(1.25)	8R9
BPSC00060620100□S0	10	20,30	10 kHz,1 V	0.124	0.90(1.20)	100
BPSC00060620120□S0	12	30	10 kHz,1 V	0.153	0.90(1.00)	120
BPSC00060620150□S0	15	20,30	10 kHz,1 V	0.196	0.80(0.91)	150
BPSC00060620180□S0	18	30	10 kHz,1 V	0.21	0.75(0.90)	180
BPSC00060620220□S0	22	20,30	10 kHz,1 V	0.29	0.65(0.80)	220
BPSC00060620270□S0	27	30	10 kHz,1 V	0.33	0.60(0.70)	270
BPSC00060620330□S0	33	20,30	10 kHz,1 V	0.386	0.55(0.65)	330
BPSC00060620390□S0	39	30	10 KHz,1 V	0.52	0.48(0.60)	390
BPSC00060620470□S0	47	20,30	10 kHz,1 V	0.595	0.44(0.51)	470
BPSC00060620560□S0	56	30	10 kHz,1 V	0.665	0.40(0.50)	560
BPSC00060620680□S0	68	30	10 kHz,1 V	0.84	0.33(0.43)	680
BPSC00060620820□S0	82	30	10 kHz,1 V	0.978	0.30(0.41)	820
BPSC00060620101□S0	100	20,30	10 kHz,1 V	1.2	0.25(0.36)	101

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

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  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Marking
BPSC000606301R0□S0	1.0	30	10 kHz,1 V	0.015	3.50(4.20)	1R0
BPSC000606301R5□S0	1.5	30	10 kHz,1 V	0.015	2.80(3.70)	1R5
BPSC000606302R2□S0	2.2	30	10 kHz,1 V	0.018	2.40(3.10)	2R2
BPSC000606302R5□S0	2.5	30	10 kHz,1 V	0.022	2.30(2.70)	2R5
BPSC000606302R6□S0	2.6	30	10 kHz,1 V	0.022	2.20(2.60)	2R6
BPSC000606302R7□S0	2.7	30	10 kHz,1 V	0.024	2.20(2.60)	2R7
BPSC000606303R0□S0	3.0	30	10 kHz,1 V	0.024	2.20(2.50)	3R0
BPSC000606303R3□S0	3.3	30	10 kHz,1 V	0.027	2.10(2.50)	3R3
BPSC000606304R2□S0	4.2	30	10 kHz,1 V	0.031	2.00(2.20)	4R2
BPSC000606304R3□S0	4.3	30	10 kHz,1 V	0.041	1.80(2.10)	4R3
BPSC000606304R7□S0	4.7	20,30	10 kHz,1 V	0.038	1.60(2.00)	4R7
BPSC000606305R0□S0	5.0	30	10 kHz,1 V	0.038	1.50(1.90)	5R0
BPSC000606305R3□S0	5.3	20,30	10 kHz,1 V	0.038	1.50(1.90)	5R3
BPSC000606306R2□S0	6.2	20,30	10 kHz,1 V	0.045	1.20(1.80)	6R2
BPSC000606306R8□S0	6.8	20,30	10 kHz,1 V	0.05	1.20(1.60)	6R8
BPSC000606308R2□S0	8.2	20,30	10 kHz,1 V	0.053	1.00(1.50)	8R2
BPSC00060630100□S0	10	20,30	10 kHz,1 V	0.065	0.95(1.40)	100
BPSC00060630120□S0	12	20,30	10 kHz,1 V	0.076	0.90(1.30)	120
BPSC00060630150□S0	15	20,30	10 kHz,1 V	0.103	0.85(1.10)	150
BPSC00060630180□S0	18	30	10 kHz,1 V	0.11	0.80(1.00)	180
BPSC00060630220□S0	22	20,30	10 kHz,1 V	0.122	0.75(0.92)	220
BPSC00060630270□S0	27	30	10 kHz,1 V	0.175	0.65(0.82)	270
BPSC00060630330□S0	33	30	10 kHz,1 V	0.189	0.60(0.75)	330
BPSC00060630390□S0	39	30	10 kHz,1 V	0.212	0.55(0.70)	390
BPSC00060630470□S0	47	20,30	10 kHz,1 V	0.25	0.50(0.62)	470
BPSC00060630560□S0	56	30	10 kHz,1 V	0.305	0.48(0.59)	560
BPSC00060630680□S0	68	30	10 kHz,1 V	0.355	0.42(0.52)	680
BPSC00060630820□S0	82	30	10 kHz,1 V	0.463	0.39(0.46)	820

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- RDC test method: place testing device to the 2 solder ends of wounding and test the value.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Marking
BPSC00060630101□S0	100	20,30	10 kHz,1 V	0.52	0.35(0.42)	101
BPSC00060630181□S0	180	30	10 kHz,1 V	1.05	0.21(0.31)	181
BPSC00060630221□S0	220	30	10 kHz,1 V	1.2	0.20(0.30)	221
BPSC00060630331□S0	330	20,30	10 kHz,1 V	1.7	0.15(0.24)	331
BPSC00060630391□S0	390	30	10 kHz,1 V	1.8	0.13(0.22)	391
BPSC00060630471□S0	470	20,30	10 kHz,1 V	2.5	0.11(0.21)	471
BPSC00060630561□S0	560	20,30	10 kHz,1 V	3.2	0.10(0.17)	561

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30% , N=+40% -20%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- RDC test method: place testing device to the 2 solder ends of wounding and test the value.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Marking
BPSC000707301R0□S0	1.0	30	10 kHz,1 V	0.024	3.50(5.30)	1R0
BPSC000707301R5□S0	1.5	30	10 kHz,1 V	0.0195	3.40(4.50)	1R5
BPSC000707302R2□S0	2.2	20,30	10 kHz,1 V	0.035	3.00(3.40)	2R2
BPSC000707303R0□S0	3	30	10 kHz,1 V	0.024	2.60(3.20)	3R0
BPSC000707303R3□S0	3.3	30	10 kHz,1 V	0.025	2.50(3.10)	3R3
BPSC000707303R9□S0	3.9	30	10 kHz,1 V	0.027	2.30(2.90)	3R9
BPSC000707304R7□S0	4.7	20,30	10 kHz,1 V	0.031	1.92(2.40)	4R7
BPSC000707305R0□S0	5.0	30	10 kHz,1 V	0.031	1.74(2.40)	5R0
BPSC000707306R0□S0	6.0	30	10 kHz,1 V	0.035	1.70(2.25)	6R0
BPSC000707306R2□S0	6.2	20,30	10 kHz,1 V	0.051	1.40(2.20)	6R2
BPSC000707306R8□S0	6.8	20,30	10 kHz,1 V	0.05	1.30(2.15)	6R8
BPSC000707307R3□S0	7.3	30	10 kHz,1 V	0.054	1.25(2.10)	7R3
BPSC000707308R6□S0	8.6	30	10 kHz,1 V	0.058	1.20(1.85)	8R6
BPSC00070730100□S0	10	20,30	10 kHz,1 V	0.065	1.15(1.70)	100
BPSC00070730120□S0	12	20,30	10 kHz,1 V	0.07	1.14(1.50)	120
BPSC00070730150□S0	15	20,30	10 kHz,1 V	0.084	1.12(1.40)	150
BPSC00070730180□S0	18	30	10 kHz,1 V	0.095	1.02(1.32)	180
BPSC00070730220□S0	22	30	10 kHz,1 V	0.128	0.87(1.20)	220
BPSC00070730270□S0	27	30	10 kHz,1 V	0.142	0.82(1.05)	270
BPSC00070730330□S0	33	30	10 kHz,1 V	0.165	0.80(0.97)	330
BPSC00070730390□S0	39	30	10 kHz,1 V	0.21	0.79(0.90)	390
BPSC00070730470□S0	47	20,30	10 kHz,1 V	0.238	0.70(0.80)	470
BPSC00070730560□S0	56	30	10 kHz,1 V	0.277	0.60(0.73)	560
BPSC00070730680□S0	68	30	10 kHz,1 V	0.304	0.55(0.65)	680
BPSC00070730820□S0	82	30	10 kHz,1 V	0.39	0.48(0.60)	820
BPSC00070730101□S0	100	30	10 kHz,1 V	0.535	0.43(0.54)	101
BPSC00070730121□S0	120	20,30	10 kHz,1 V	0.6	0.36(0.45)	121
BPSC00070730221□S0	220	20,30	10 kHz,1 V	1.3	0.27(0.34)	221

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- RDC test method: place testing device to the 2 solder ends of wounding and test the value.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Marking
BPSC000707402R2□S0	2.2	30	10 kHz,0.1 V	0.018	3.80(4.70)	2R2
BPSC000707402R7□S0	2.7	30	10 kHz,0.1 V	0.02	3.20(4.00)	2R7
BPSC000707403R3□S0	3.3	20,30	10 kHz,0.1 V	0.023	3.00(3.80)	3R3
BPSC000707404R7□S0	4.7	20,30	10 kHz,0.1 V	0.025	2.70(3.40)	4R7
BPSC000707405R0□S0	5	20,30	10 kHz,0.1 V	0.026	2.50(3.10)	5R0
BPSC000707405R6□S0	5.6	30	10 kHz,0.1 V	0.027	2.30(3.00)	5R6
BPSC000707406R2□S0	6.2	20,30	10 kHz,0.1 V	0.027	1.80(2.80)	6R2
BPSC000707406R8□S0	6.8	30	10 kHz,0.1 V	0.032	1.70(2.70)	6R8
BPSC000707407R4□S0	7.4	30	10 kHz,0.1 V	0.032	1.70(2.50)	7R4
BPSC000707408R7□S0	8.7	30	10 kHz,0.1 V	0.034	1.70(2.40)	8R7
BPSC00070740100□S0	10	20,30	10 kHz,0.1 V	0.041	1.60(2.20)	100
BPSC00070740120□S0	12	30	10 kHz,0.1 V	0.053	1.50(1.90)	120
BPSC00070740150□S0	15	20,30	10 kHz,0.1 V	0.057	1.40(1.80)	150
BPSC00070740180□S0	18	30	10 kHz,0.1 V	0.092	1.25(1.60)	180
BPSC00070740220□S0	22	20,30	10 kHz,0.1 V	0.096	1.10(1.50)	220
BPSC00070740270□S0	27	30	10 kHz,0.1 V	0.109	0.90(1.20)	270
BPSC00070740330□S0	33	20,30	10 kHz,0.1 V	0.124	0.85(1.10)	330
BPSC00070740390□S0	39	20,30	10 kHz,0.1 V	0.138	0.80(1.10)	390
BPSC00070740470□S0	47	20,30	10 kHz,0.1 V	0.15	0.70(1.00)	470
BPSC00070740560□S0	56	30	10 kHz,0.1 V	0.202	0.65(0.90)	560
BPSC00070740680□S0	68	20,30	10 kHz,0.1 V	0.234	0.60(0.80)	680
BPSC00070740820□S0	82	30	10 kHz,0.1 V	0.324	0.55(0.70)	820
BPSC00070740101□S0	100	20,30	10 kHz,0.1 V	0.358	0.50(0.65)	101
BPSC00070740561□S0	560	30	10 kHz,0.1 V	1.8	0.20(0.25)	561

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- RDC test method: place testing device to the 2 solder ends of wounding and test the value.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B

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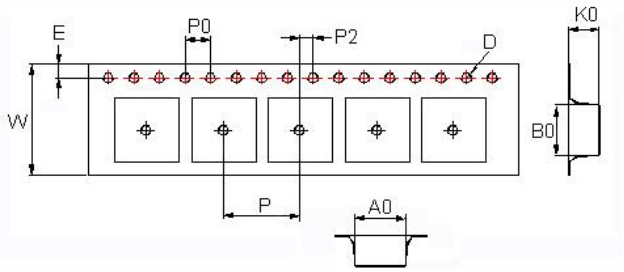
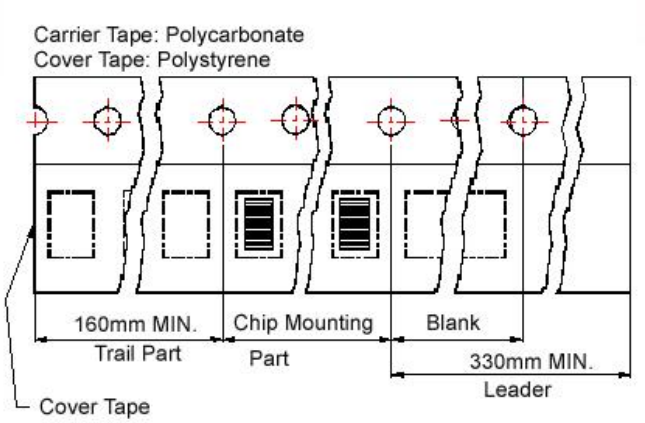
Packaging Specifications

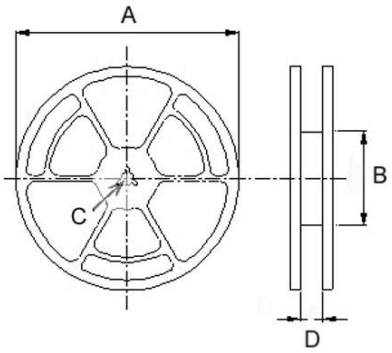
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
BPSC00404018	4.1	4.1	2.0	1.5	1.75	12	8	4	2	178	60	13	13.2	1000
BPSC00050520	5.3	5.3	2.4	1.5	1.75	12	8	4	2	330	100	13	13.4	2000
BPSC00050530	5.3	5.3	3.4	1.5	1.75	12	8	4	2	330	100	13	13.4	2000
BPSC00050540	5.35	5.35	4.1	1.55	1.75	12	8	4	2	330	100	13	13.4	1000
BPSC00060620	6.2	6.2	2.2	1.55	1.75	16	12	4	2	330	100	13	13.4	1500
BPSC00060630	6.2	6.2	3.1	1.55	1.75	16	12	4	2	330	100	13	17.4	1500
BPSC00070730	7.25	7.25	3.35	1.55	1.75	16	12	4	2	330	100	13	17.4	1500
BPSC00070740	7.1	7.1	4.1	1.55	1.75	16	12	4	2	330	100	13	17.4	1000

BPSC Series

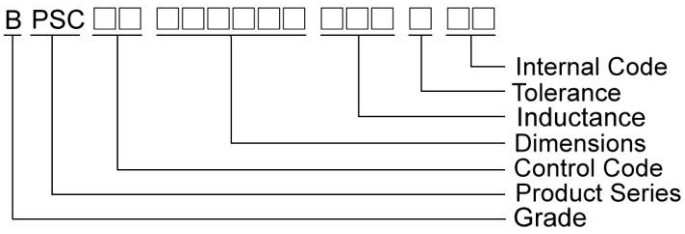
Features

- RoHS, Halogen Free and REACH Compliance
- Magnetic shielded
- Various package size and wide inductance range

Applications

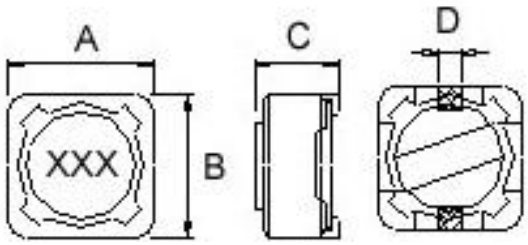
- AP Routers
- STBs
- LCD TVs and monitors
- Game consoles
- LED lightings
- DC/DC converters

Product Identification

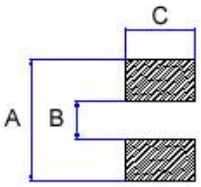


Shape and Dimensions

BPSC00070734/070745



Recommended Pattern

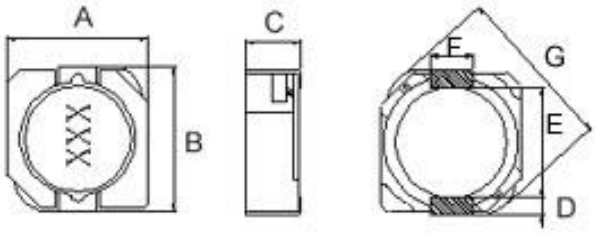


Dimension in mm

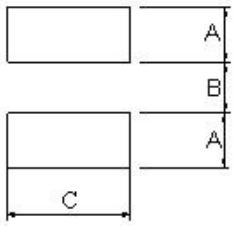
TYPE	Shape and Dimensions				Recommended Pattern		
	A	B	C	D	A	B	C
BPSC00070734	7.3±0.2	7.3±0.2	3.4^{+0}	1.8	8.4	4.4	2.2
BPSC00070745	7.3±0.2	7.3±0.2	4.5^{+0}	1.8	8.4	4.4	2.2

Shape and Dimensions

BPSC00101131/101140/101151



Recommended Pattern



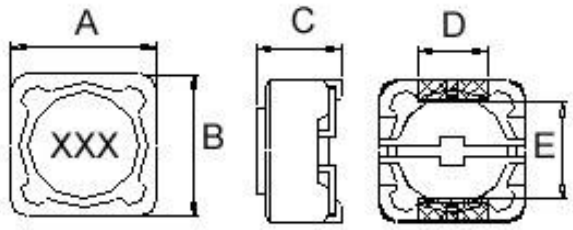
Dimensions in mm

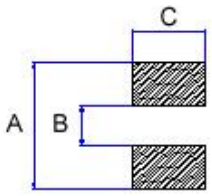
TYPE	A	B	C	D	E	F	G	A	B	C
BPSC00101131	10.3^{+0}	10.5^{+0}	3.1^{+0}	1.2	7.7	3.0	13.5^{+0}	1.6	7.3	3.2
BPSC00101140	10.3^{+0}	10.5^{+0}	4^{+0}	1.2	7.7	3.0	13.5^{+0}	1.6	7.3	3.2
BPSC00101151	10.3^{+0}	10.5^{+0}	5.1^{+0}	1.2	7.7	3.0	13.5^{+0}	1.6	7.3	3.2

Shape and Dimensions

Recommended Pattern

BPSC00131345/131360/131380/131310





Dimensions in mm

TYPE	Shape and Dimensions					Recommended Pattern		
	A	B	C	D	E	A	B	C
BPSC00131345	12.5^{+0}	12.5^{+0}	4.5^{+0}	5	7.6	13	7	5.4
BPSC00131360	12.5^{+0}	12.5^{+0}	6^{+0}	5	7.6	13	7	5.4
BPSC00131380	12.5^{+0}	12.5^{+0}	8^{+0}	5	7.6	13	7	5.4
BPSC00131310	12±0.5	12±0.5	10 Max.	5.0±0.2	7.6±0.3	12.8	7	5.4

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω) Max	Isat (A) Max	Marking
BPSC000707341R5□00	1.5	20	1 kHz,1 V	0.03	4	1R5
BPSC000707342R2□00	2.2	20	1 kHz,1 V	0.03	4	2R2
BPSC000707343R3□00	3.3	20	1 kHz,1 V	0.04	3.7	3R3
BPSC000707346R8□00	6.8	20	1 kHz,1 V	0.06	2	6R8
BPSC00070734100□00	10	20	1 kHz,1 V	0.072	1.68	100
BPSC00070734120□00	12	20	1 kHz,1 V	0.098	1.52	120
BPSC00070734150□00	15	20	1 kHz,1 V	0.13	1.33	150
BPSC00070734180□00	18	20	1 kHz,1 V	0.14	1.2	180
BPSC00070734220□00	22	20	1 kHz,1 V	0.19	1.07	220
BPSC00070734270□00	27	20	1 kHz,1 V	0.21	0.96	270
BPSC00070734330□00	33	20	1 kHz,1 V	0.24	0.91	330
BPSC00070734390□00	39	20	1 kHz,1 V	0.32	0.77	390
BPSC00070734470□00	47	20	1 kHz,1 V	0.36	0.76	470
BPSC00070734560□00	56	20	1 kHz,1 V	0.47	0.68	560
BPSC00070734680□00	68	20	1 kHz,1 V	0.52	0.61	680
BPSC00070734820□00	82	20	1 kHz,1 V	0.69	0.57	820
BPSC00070734101□00	100	20	1 kHz,1 V	0.79	0.5	101
BPSC00070734121□00	120	20	1 kHz,1 V	0.89	0.49	121
BPSC00070734151□00	150	20	1 kHz,1 V	1.27	0.43	151
BPSC00070734181□00	180	20	1 kHz,1 V	1.45	0.39	181
BPSC00070734221□00	220	20	1 kHz,1 V	1.65	0.35	221
BPSC00070734271□00	270	20	1 kHz,1 V	2.31	0.32	271
BPSC00070734331□00	330	20	1 kHz,1 V	2.62	0.28	331
BPSC00070734391□00	390	20	1 kHz,1 V	2.94	0.26	391
BPSC00070734471□00	470	20	1 kHz,1 V	4.18	0.24	471
BPSC00070734561□00	560	20	1 kHz,1 V	4.67	0.22	561
BPSC00070734681□00	680	20	1 kHz,1 V	5.73	0.19	681
BPSC00070734821□00	820	20	1 kHz,1 V	6.54	0.18	821
BPSC00070734102□00	1000	20	1 kHz,1 V	9.44	0.16	102

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω) Max	Isat (A) Max	Marking
BPSC000707451R5□00	1.5	20	1 kHz,1 V	0.02	5	1R5
BPSC000707451R8□00	1.8	20	1 kHz,1 V	0.025	4	1R8
BPSC000707452R2□00	2.2	20,30	1 kHz,1 V	0.025	3.5	2R2
BPSC000707452R7□00	2.7	20,30	1 kHz,1 V	0.03	3.5	2R7
BPSC000707453R3□00	3.3	20,30	1 kHz,1 V	0.035	3.5	3R3
BPSC000707453R6□00	3.6	20,30	1 kHz,1 V	0.035	3.2	3R6
BPSC000707454R7□00	4.7	20,30	1 kHz,1 V	0.035	3	4R7
BPSC000707456R8□00	6.8	20	1 kHz,1 V	0.045	2.5	6R8
BPSC00070745100□00	10	20	1 kHz,1 V	0.049	1.84	100
BPSC00070745120□00	12	20	1 kHz,1 V	0.058	1.71	120
BPSC00070745150□00	15	20	1 kHz,1 V	0.081	1.47	150
BPSC00070745180□00	18	20	1 kHz,1 V	0.091	1.31	180
BPSC00070745220□00	22	20	1 kHz,1 V	0.11	1.23	220
BPSC00070745270□00	27	20	1 kHz,1 V	0.15	1.12	270
BPSC00070745330□00	33	20	1 kHz,1 V	0.17	0.96	330
BPSC00070745390□00	39	20	1 kHz,1 V	0.23	0.91	390
BPSC00070745470□00	47	20	1 kHz,1 V	0.26	0.88	470
BPSC00070745560□00	56	20	1 kHz,1 V	0.35	0.75	560
BPSC00070745680□00	68	20	1 kHz,1 V	0.38	0.69	680
BPSC00070745820□00	82	20	1 kHz,1 V	0.43	0.61	820
BPSC00070745101□00	100	20	1 kHz,1 V	0.61	0.6	101
BPSC00070745121□00	120	20	1 kHz,1 V	0.66	0.52	121
BPSC00070745151□00	150	20	1 kHz,1 V	0.88	0.46	151
BPSC00070745181□00	180	20	1 kHz,1 V	0.98	0.42	181
BPSC00070745221□00	220	10,20	1 kHz,1 V	1.17	0.36	221
BPSC00070745271□00	270	10,20	1 kHz,1 V	1.64	0.34	271
BPSC00070745331□00	330	10,20	1 kHz,1 V	1.86	0.32	331
BPSC00070745391□00	390	10,20	1 kHz,1 V	2.85	0.29	391
BPSC00070745471□00	470	10,20	1 kHz,1 V	3.01	0.26	471
BPSC00070745561□00	560	10,20	1 kHz,1 V	3.62	0.23	561
BPSC00070745681□00	680	10,20	1 kHz,1 V	4.63	0.22	681
BPSC00070745821□00	820	10,20	1 kHz,1 V	5.2	0.2	821
BPSC00070745102□00	1000	10,20	1 kHz,1 V	6	0.18	102

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω) Max	Isat (A) Max	Irms (A)Typ.	Marking
BPSC001011314R7□00	4.7	30	100 kHz,1 V	0.03	4.65	4	4R7
BPSC001011316R8□00	6.8	30	100 kHz,1 V	0.035	3.84	3.6	6R8
BPSC00101131100□00	10	20,30	100 kHz,1 V	0.059	3.18	2.8	100
BPSC00101131150□00	15	20,30	100 kHz,1 V	0.091	2.6	2.05	150
BPSC00101131330□00	33	20,30	100 kHz,1 V	0.202	1.74	1.35	330
BPSC00101131470□00	47	20,30	100 kHz,1 V	0.299	1.43	1.2	470
BPSC00101131560□00	56	20,30	100 kHz,1 V	0.325	0.9	1.15	560

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B
  Irms：HP4284+42841A or WK3260B+WK3265B

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω) Max	Isat(A) Max(Typ.)	Irms (A)Typ.	Marking
BPSC001011401R5□00	1.5	30,+40-20	100 kHz,1 V	0.0088	8.5(10.5)	6.5	1R5
BPSC001011402R2□00	2.2	30	100 kHz,1 V	0.012	8.0(10.5)	6.1	2R2
BPSC001011402R5□00	2.5	30	100 kHz,1 V	0.012	7.5(9.5)	6.1	2R5
BPSC001011403R3□00	3.3	30	100 kHz,1 V	0.015	7.0(8.7)	5.5	3R3
BPSC001011403R8□00	3.8	30	100 kHz,1 V	0.015	6.8(8.5)	5.5	3R8
BPSC001011404R7□00	4.7	20,30	100 kHz,1 V	0.02	5.8(7.3)	5.4	4R7
BPSC001011405R2□00	5.2	20,30	100 kHz,1 V	0.024	5.8(7.3)	5.2	5R2
BPSC001011405R6□00	5.6	20,30	100 kHz,1 V	0.027	5.0(6.5)	4.5	5R6
BPSC001011406R8□00	6.8	20,30	100 kHz,1 V	0.031	5.0(6.5)	4.4	6R8
BPSC001011407R0□00	7	20,30	100 kHz,1 V	0.031	4.8(5.9)	4.4	7R0
BPSC001011408R2□00	8.2	20,30	100 kHz,1 V	0.036	4.5(5.8)	3.8	8R2
BPSC00101140100□00	10	20,30	100 kHz,1 V	0.04	4.0(5.0)	3.6	100
BPSC00101140120□00	12	20,30	100 kHz,1 V	0.046	3.7(4.6)	3.4	120
BPSC00101140150□00	15	20,30	100 kHz,1 V	0.055	3.4(4.3)	2.8	150
BPSC00101140180□00	18	20,30	100 kHz,1 V	0.075	2.9(3.6)	2.5	180
BPSC00101140220□00	22	20,30	100 kHz,1 V	0.08	2.6(3.3)	2.4	220
BPSC00101140270□00	27	20,30	100 kHz,1 V	0.096	2.4(3.0)	2.2	270
BPSC00101140330□00	33	20,30	100 kHz,1 V	0.098	2.3(2.9)	2.1	330
BPSC00101140390□00	39	20,30	100 kHz,1 V	0.12	2.1(2.7)	2	390
BPSC00101140470□00	47	20,30	100 kHz,1 V	0.144	1.8(2.5)	1.8	470
BPSC00101140560□00	56	20,30	100 kHz,1 V	0.175	1.6(2.1)	1.6	560
BPSC00101140680□00	68	20,30	100 kHz,1 V	0.204	1.4(1.9)	1.45	680
BPSC00101140820□00	82	20,30	100 kHz,1 V	0.25	1.3(1.7)	1.4	820
BPSC00101140101□00	100	20,30	100 kHz,1 V	0.304	1.0(1.6)	1.25	101
BPSC00101140151□00	150	20,30	100 kHz,1 V	0.506	0.96(1.3)	0.85	151
BPSC00101140221□00	220	20,30	100 kHz,1 V	0.69	0.8(1.0)	0.73	221
BPSC00101140331□00	330	20,30	100 kHz,1 V	1.09	0.68(0.86)	0.52	331
BPSC00101140471□00	470	20,30	100 kHz,1 V	1.6	0.6(0.75)	0.46	471
BPSC00101140561□00	560	20,30	100 kHz,1 V	1.68	0.5(0.68)	0.45	561

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30% , N=+40% -20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B
  Irms：HP4284+42841A or WK3260B+WK3265B

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω) Max	Isat(A) Max(Typ.)	Irms (A)Typ.	Marking
BPSC00101151R80□00	0.8	30	100 kHz,1 V	0.0062	10.8(13.5)	7.8	R80
BPSC001011511R5□00	1.5	30	100 kHz,1 V	0.0081	10.3(12.9)	7	1R5
BPSC001011512R2□00	2.2	30	100 kHz,1 V	0.011	9.2(11)	6.3	2R2
BPSC001011513R3□00	3.3	30	100 kHz,1 V	0.012	7.2(9.0)	6.1	3R3
BPSC001011514R7□00	4.7	20,30	100 kHz,1 V	0.014	5.6(7.8)	5	4R7
BPSC001011516R8□00	6.8	20,30	100 kHz,1 V	0.024	5.1(6.4)	4.7	6R8
BPSC001011518R2□00	8.2	20,30	100 kHz,1 V	0.027	4.7(5.9)	4.4	8R2
BPSC00101151100□00	10	20,30	100 kHz,1 V	0.028	4.4(5.6)	4.2	100
BPSC00101151120□00	12	20,30	100 kHz,1 V	0.036	3.4(5.8)	3.6	120
BPSC00101151150□00	15	20,30	100 kHz,1 V	0.041	3.2(4.5)	3.4	150
BPSC00101151180□00	18	20,30	100 kHz,1 V	0.046	3.0(3.8)	3.1	180
BPSC00101151220□00	22	20,30	100 kHz,1 V	0.061	2.8(3.6)	2.9	220
BPSC00101151270□00	27	20,30	100 kHz,1 V	0.069	2.1(3.2)	2.6	270
BPSC00101151330□00	33	20,30	100 kHz,1 V	0.084	2.0(2.9)	2.5	330
BPSC00101151390□00	39	20,30	100 kHz,1 V	0.106	1.9(2.6)	2.25	390
BPSC00101151470□00	47	20,30	100 kHz,1 V	0.13	1.7(2.3)	2	470
BPSC00101151560□00	56	20,30	100 kHz,1 V	0.149	1.6(2.2)	1.9	560
BPSC00101151680□00	68	20,30	100 kHz,1 V	0.201	1.5(2.0)	1.6	680
BPSC00101151820□00	82	20,30	100 kHz,1 V	0.227	1.3(1.8)	1.45	820
BPSC00101151101□00	100	20,30	100 kHz,1 V	0.253	1.2(1.7)	1.35	101
BPSC00101151121□00	120	20,30	100 kHz,1 V	0.303	1.1(1.5)	1.18	121
BPSC00101151151□00	150	20,30	100 kHz,1 V	0.42	1.0(1.3)	1	151
BPSC00101151181□00	180	20,30	100 kHz,1 V	0.45	0.9(1.2)	0.9	181
BPSC00101151221□00	220	20,30	100 kHz,1 V	0.54	0.8(1.1)	0.85	221
BPSC00101151271□00	270	20,30	100 kHz,1 V	0.672	0.75(0.99)	0.8	271
BPSC00101151331□00	330	20,30	100 kHz,1 V	0.812	0.74(0.92)	0.73	331
BPSC00101151391□00	390	20,30	100 kHz,1 V	0.953	0.62(0.83)	0.7	391
BPSC00101151471□00	470	20,30	100 kHz,1 V	1.29	0.6(0.77)	0.54	471
BPSC00101151561□00	560	20,30	100 kHz,1 V	1.43	0.47(0.71)	0.52	561
BPSC00101151681□00	680	20,30	100 kHz,1 V	1.6	0.46(0.65)	0.51	681
BPSC00101151821□00	820	20,30	100 kHz,1 V	1.77	0.42(0.57)	0.48	821
BPSC00101151102□00	1000	20,30	100 kHz,1 V	2.2	0.40(0.54)	0.4	102

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B
  Irms：HP4284+42841A or WK3260B+WK3265B

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω) Max	Isat(A) Max(Typ.)	Marking
BPSC001313453R3□00	3.3	30	100 kHz,1 V	0.015	8.8(11.1)	3R3
BPSC001313453R9□00	3.9	30	100 kHz,1 V	0.016	8.0(10.1)	3R9
BPSC001313454R7□00	4.7	20,30	100 kHz,1 V	0.018	7.9(9.9)	4R7
BPSC001313456R8□00	6.8	20,30	100 kHz,1 V	0.023	6.5(8.3)	6R8
BPSC00131345100□00	10	20,30	100 kHz,1 V	0.035	5.2(6.6)	100
BPSC00131345120□00	12	20,30	100 kHz,1 V	0.038	4.8(6.2)	120
BPSC00131345150□00	15	20,30	100 kHz,1 V	0.05	4.1(5.4)	150
BPSC00131345180□00	18	20,30	100 kHz,1 V	0.057	4.0(5.1)	180
BPSC00131345220□00	22	20,30	100 kHz,1 V	0.066	3.5(4.4)	220
BPSC00131345270□00	27	20,30	100 kHz,1 V	0.08	3.1(3.9)	270
BPSC00131345330□00	33	20,30	100 kHz,1 V	0.097	2.7(3.5)	330
BPSC00131345390□00	39	20,30	100 kHz,1 V	0.132	2.1(3.2)	390
BPSC00131345470□00	47	20,30	100 kHz,1 V	0.15	1.9(2.9)	470
BPSC00131345560□00	56	20,30	100 kHz,1 V	0.19	1.8(2.6)	560
BPSC00131345680□00	68	20,30	100 kHz,1 V	0.22	1.5(2.5)	680
BPSC00131345820□00	82	20,30	100 kHz,1 V	0.26	1.3(2.3)	820
BPSC00131345101□00	100	20,30	100 kHz,1 V	0.308	1.2(2.0)	101
BPSC00131345121□00	120	20,30	100 kHz,1 V	0.38	1.1(1.8)	121
BPSC00131345151□00	150	20,30	100 kHz,1 V	0.53	0.95(1.6)	151
BPSC00131345181□00	180	20,30	100 kHz,1 V	0.62	0.85(1.4)	181
BPSC00131345221□00	220	20,30	100 kHz,1 V	0.7	0.8(1.3)	221
BPSC00131345271□00	270	20,30	100 kHz,1 V	0.876	0.6(1.1)	271
BPSC00131345331□00	330	20,30	100 kHz,1 V	0.99	0.5(1.0)	331

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω) Max	Isat(A) Max(Typ.)	Irms (A)Typ.	Marking
BPSC001313603R3□00	3.3	30	1 kHz,1 V	0.015	8.0(11)	6.5	3R3
BPSC001313604R7□00	4.7	20,30	1 kHz,1 V	0.018	7.6(9.2)	5.7	4R7
BPSC001313606R4□00	6.4	20,30	1 kHz,1 V	0.018	6.4(8.1)	5.7	6R4
BPSC001313608R2□00	8.2	20,30	1 kHz,1 V	0.02	5.8(7.4)	5	8R2
BPSC00131360100□00	10	20,30	1 kHz,1 V	0.025	5.3(6.8)	4	100
BPSC00131360120□00	12	20,30	1 kHz,1 V	0.027	5.3(6.8)	3.5	120
BPSC00131360150□00	15	20,30	1 kHz,1 V	0.03	4.0(5.2)	3.3	150
BPSC00131360180□00	18	20,30	1 kHz,1 V	0.034	3.8(4.9)	3	180
BPSC00131360220□00	22	20,30	1 kHz,1 V	0.036	3.6(4.8)	2.8	220
BPSC00131360270□00	27	20,30	1 kHz,1 V	0.051	3.2(4.1)	2.3	270
BPSC00131360330□00	33	20,30	1 kHz,1 V	0.057	2.9(3.7)	2.1	330
BPSC00131360390□00	39	20,30	1 kHz,1 V	0.068	2.7(3.5)	2	390
BPSC00131360470□00	47	20,30	1 kHz,1 V	0.084	2.4(3.1)	1.9	470
BPSC00131360560□00	56	20,30	1 kHz,1 V	0.1	2.1(2.7)	1.7	560
BPSC00131360680□00	68	20,30	1 kHz,1 V	0.12	2.0(2.6)	1.5	680
BPSC00131360820□00	82	20,30	1 kHz,1 V	0.14	1.8(2.3)	1.4	820
BPSC00131360101□00	100	20,30	1 kHz,1 V	0.16	1.6(2.1)	1.3	101
BPSC00131360121□00	120	20,30	1 kHz,1 V	0.18	1.5(1.9)	1.05	121
BPSC00131360151□00	150	20,30	1 kHz,1 V	0.23	1.3(1.7)	1	151
BPSC00131360181□00	180	20,30	1 kHz,1 V	0.29	1.2(1.6)	0.9	181
BPSC00131360221□00	220	20,30	1 kHz,1 V	0.32	1.0(1.4)	0.85	221
BPSC00131360271□00	270	20,30	1 kHz,1 V	0.38	0.90(1.2)	0.83	271
BPSC00131360331□00	330	20,30	1 kHz,1 V	0.48	0.75(1.1)	0.73	331
BPSC00131360391□00	390	20,30	1 kHz,1 V	0.6	0.70(1.0)	0.67	391
BPSC00131360471□00	470	20,30	1 kHz,1 V	0.7	0.65(0.99)	0.66	471
BPSC00131360561□00	560	20,30	1 kHz,1 V	0.86	0.60(0.91)	0.54	561
BPSC00131360681□00	680	20,30	1 kHz,1 V	1.1	0.55(0.82)	0.52	681
BPSC00131360821□00	820	20,30	1 kHz,1 V	1.34	0.50(0.71)	0.43	821
BPSC00131360102□00	1000	20,30	1 kHz,1 V	1.53	0.45(0.64)	0.3	102

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
  RDC：Chroma 16502
  Isat & Irms：HP4284+42841A or WK3260B+WK3265B

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω) Max	Isat(A) Max(Typ.)	Marking
BPSC001313801R5□00	1.5	30	100 kHz,1 V	0.0074	21.6(28.0)	1R5
BPSC001313802R2□00	2.2	30,+40-20	100 kHz,1 V	0.0089	17.6(24.0)	2R2
BPSC001313802R4□00	2.4	30,+40-20	100 kHz,1 V	0.0089	17.6(24.0)	2R4
BPSC001313803R3□00	3.3	30,+40-20	100 kHz,1 V	0.0099	14.6(19.4)	3R3
BPSC001313803R5□00	3.5	30,+40-20	100 kHz,1 V	0.0123	13.8(17.4)	3R5
BPSC001313804R7□00	4.7	20,30	100 kHz,1 V	0.0158	12.3(15.4)	4R7
BPSC001313806R1□00	6.1	20,30,+40-20	100 kHz,1 V	0.0176	10.9(13.8)	6R1
BPSC001313806R8□00	6.8	20,30	100 kHz,1 V	0.018	10.8(13.7)	6R8
BPSC001313807R6□00	7.6	20,30	100 kHz,1 V	0.02	10.0(12.6)	7R6
BPSC00131380100□00	10	20,30	1 kHz,1 V	0.022	8.9(11.2)	100
BPSC00131380120□00	12	20,30	1 kHz,1 V	0.03	7.4(9.4)	120
BPSC00131380150□00	15	20,30	1 kHz,1 V	0.034	7.1(9.0)	150
BPSC00131380180□00	18	20,30	1 kHz,1 V	0.0392	6.5(8.2)	180
BPSC00131380220□00	22	20,30	1 kHz,1 V	0.048	5.8(7.5)	220
BPSC00131380270□00	27	20,30	1 kHz,1 V	0.052	5.3(6.7)	270
BPSC00131380330□00	33	20,30	1 kHz,1 V	0.0648	4.8(6.1)	330
BPSC00131380390□00	39	20,30	1 kHz,1 V	0.065	3.9(5.6)	390
BPSC00131380470□00	47	20,30	1 kHz,1 V	0.1	3.6(5.2)	470
BPSC00131380560□00	56	20,30	1 kHz,1 V	0.11	3.4(4.8)	560
BPSC00131380680□00	68	20,30	1 kHz,1 V	0.12	2.8(4.1)	680
BPSC00131380820□00	82	20,30	1 kHz,1 V	0.16	2.7(4.0)	820
BPSC00131380101□00	100	20,30	1 kHz,1 V	0.17	2.5(3.5)	101
BPSC00131380121□00	120	20,30	1 kHz,1 V	0.19	2.2(3.2)	121
BPSC00131380151□00	150	20,30	1 kHz,1 V	0.25	2.0(2.9)	151
BPSC00131380181□00	180	20,30	1 kHz,1 V	0.31	1.8(2.6)	181
BPSC00131380221□00	220	20,30	1 kHz,1 V	0.35	1.7(2.4)	221
BPSC00131380271□00	270	20,30	1 kHz,1 V	0.43	1.5(2.2)	271
BPSC00131380331□00	330	20,30	1 kHz,1 V	0.51	1.2(2.0)	331
BPSC00131380391□00	390	20,30	1 kHz,1 V	0.6	1.1(1.6)	391
BPSC00131380471□00	470	20,30	1 kHz,1 V	0.71	0.99(1.6)	471
BPSC00131380561□00	560	20,30	1 kHz,1 V	0.88	0.95(1.4)	561
BPSC00131380681□00	680	20,30	1 kHz,1 V	1.04	0.84(1.2)	681
BPSC00131380821□00	820	20,30	1 kHz,1 V	1.36	0.77(1.1)	821
BPSC00131380102□00	1000	20,30	1 kHz,1 V	1.66	0.73(1.0)	102

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30% , N=+40% -20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω) Max.	Isat (A)Max.	Irms (A)Typ.	Marking
BPSC001313101R0□00	1	30	100kHz, 0.1V	0.0055	19.90	11.6	1R0
BPSC001313101R8□00	1.8	30	100kHz, 0.1V	0.0065	13.40	11	1R8
BPSC001313102R0□00	2	30	100kHz, 0.1V	0.0070	12.90	10.7	2R0
BPSC001313102R2□00	2.2	20,30	100kHz, 0.1V	0.0070	12.90	10.7	2R2
BPSC001313102R5□00	2.5	30	100kHz, 0.1V	0.0080	12.16	10.3	2R5
BPSC001313103R5□00	3.5	30	100kHz, 0.1V	0.0097	12.00	8.7	3R5
BPSC001313103R6□00	3.6	30	100kHz, 0.1V	0.0100	12.00	8.7	3R6
BPSC001313104R7□00	4.7	20,30	100kHz, 0.1V	0.0110	11.00	8.4	4R7
BPSC001313105R8□00	5.8	30	100kHz, 0.1V	0.0113	10.50	7.6	5R8
BPSC001313106R8□00	6.8	20,30	100kHz, 0.1V	0.0115	10.00	7.1	6R8
BPSC001313107R5□00	7.5	20,30	100kHz, 0.1V	0.0140	8.48	6.8	7R5
BPSC001313108R2□00	8.2	20,30	100kHz, 0.1V	0.0160	8.30	6.7	8R2
BPSC00131310100□00	10	20,30	100kHz, 0.1V	0.0170	8.20	6.95	100
BPSC00131310120□00	12	20,30	100kHz, 0.1V	0.0185	7.04	6.2	120
BPSC00131310150□00	15	20,30	100kHz, 0.1V	0.025	5.80	5.22	150
BPSC00131310220□00	22	20,30	100kHz, 0.1V	0.029	5.12	4.95	220
BPSC00131310330□00	33	20,30	100kHz, 0.1V	0.053	4.25	3.6	330
BPSC00131310470□00	47	20,30	100kHz, 0.1V	0.063	3.60	3.45	470
BPSC00131310560□00	56	20,30	100kHz, 0.1V	0.068	2.85	2.95	560
BPSC00131310680□00	68	20,30	100kHz, 0.1V	0.093	2.76	2.85	680
BPSC00131310820□00	82	20,30	100kHz, 0.1V	0.099	2.62	2.6	820
BPSC00131310850□00	85	20,30	100kHz, 0.1V	0.120	2.60	2.6	850
BPSC00131310101□00	100	20,30	100kHz, 0.1V	0.126	2.31	2.45	101
BPSC00131310121□00	120	20,30	100kHz, 0.1V	0.154	2.05	2.2	121
BPSC00131310151□00	150	20,30	100kHz, 0.1V	0.174	1.80	1.9	151
BPSC00131310181□00	180	20,30	100kHz, 0.1V	0.191	1.66	1.86	181
BPSC00131310221□00	220	20,30	100kHz, 0.1V	0.246	1.64	1.72	221
BPSC00131310331□00	330	20,30	100kHz, 0.1V	0.386	1.28	1.28	331
BPSC00131310391□00	390	20,30	100kHz, 0.1V	0.440	1.20	1.27	391
BPSC00131310471□00	470	20,30	100kHz, 0.1V	0.471	1.06	1.25	471

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 25% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B
  Irms：HP4284+42841A or WK3260B+WK3265B

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω) Max.	Isat (A)Max.	Irms (A)Typ.	Marking
BPSC00131310561□00	560	20,30	100kHz, 0.1V	0.650	1.01	0.98	561
BPSC00131310681□00	680	20,30	100kHz, 0.1V	0.730	0.83	0.96	681
BPSC00131310821□00	820	20,30	100kHz, 0.1V	0.824	0.81	0.94	821
BPSC00131310102□00	1000	20,30	100kHz, 0.1V	1.220	0.70	0.78	102
BPSC00131310122□00	1200	20,30	100kHz, 0.1V	1.330	0.64	0.79	122
BPSC00131310152□00	1500	20,30	100kHz, 0.1V	1.990	0.56	0.58	152
BPSC00131310182□00	1800	20,30	100kHz, 0.1V	2.180	0.48	0.54	182
BPSC00131310222□00	2200	20,30	100kHz, 0.1V	2.580	0.43	0.52	222
BPSC00131310332□00	3300	20,30	100kHz, 0.1V	4.600	0.30	0.4	332

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 25% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B
  Irms：HP4284+42841A or WK3260B+WK3265B

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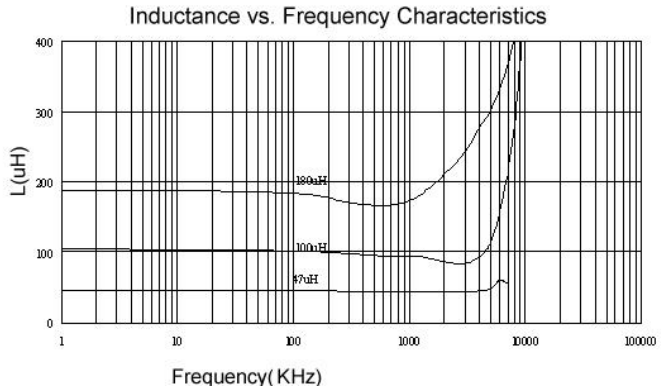
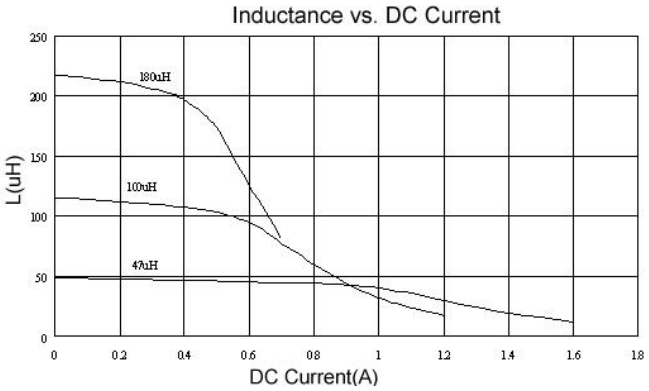
CHILISIN ELECTRONICS CORP.

Curves of BPSC Series

Test Instruments：HP4294 Impedance / Material Analyzer

BPSC00070734





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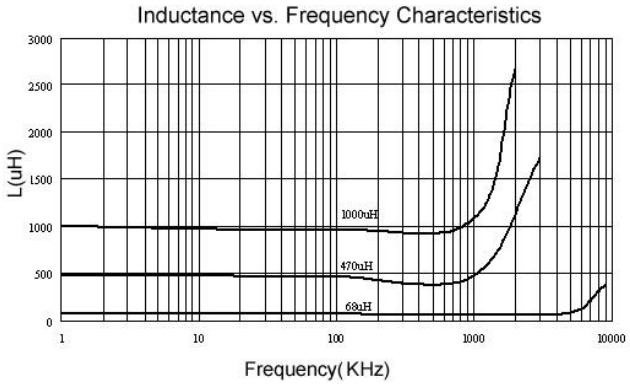

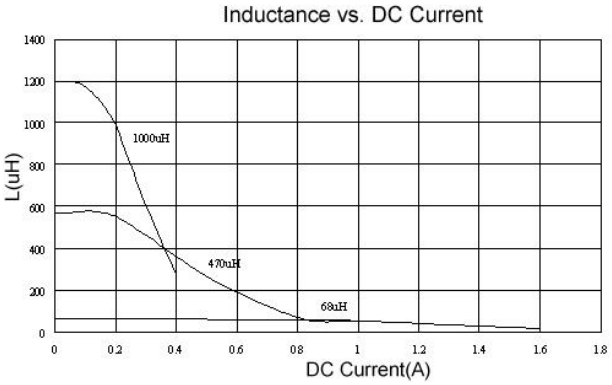

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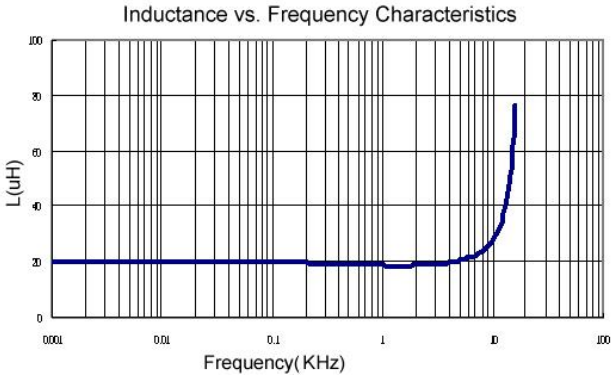
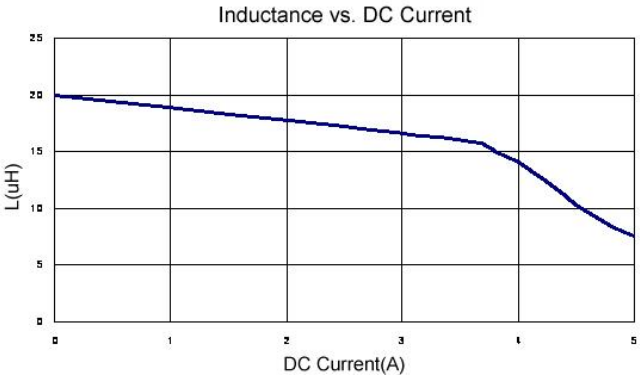
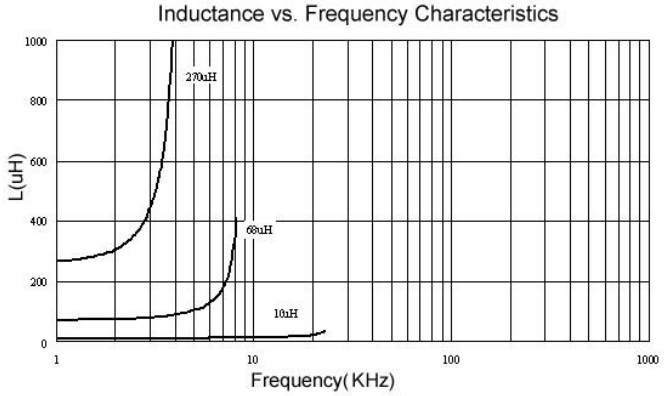
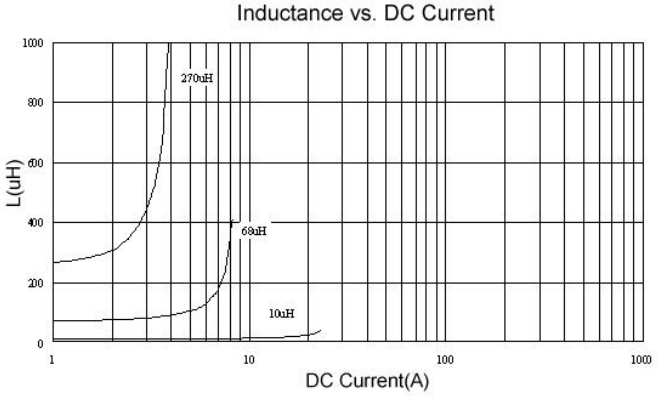




BPSC00131345





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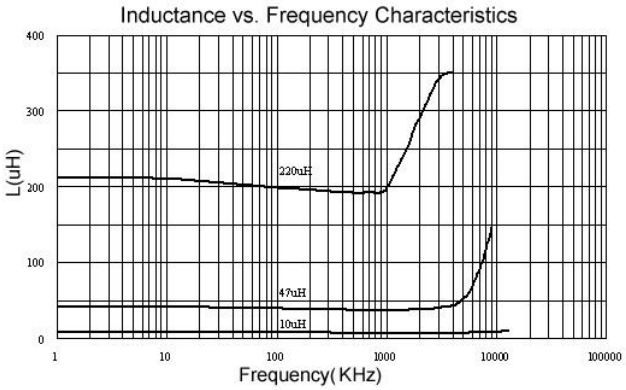
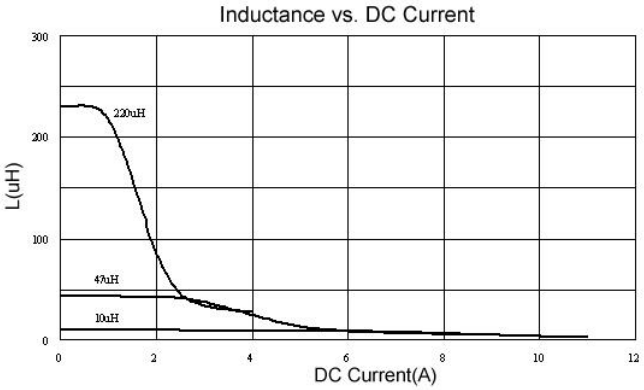
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

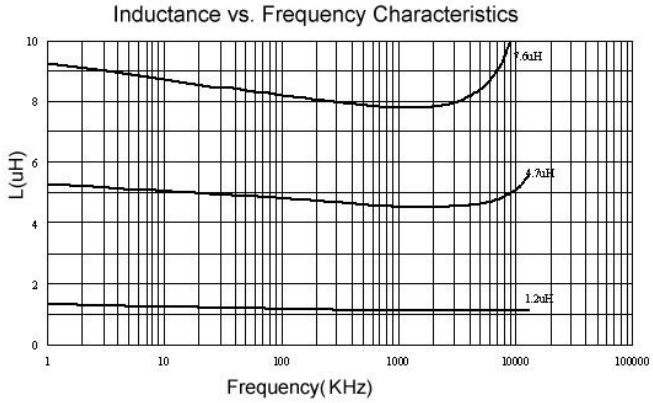
SMD Shielded Power Inductors - BPSC Series

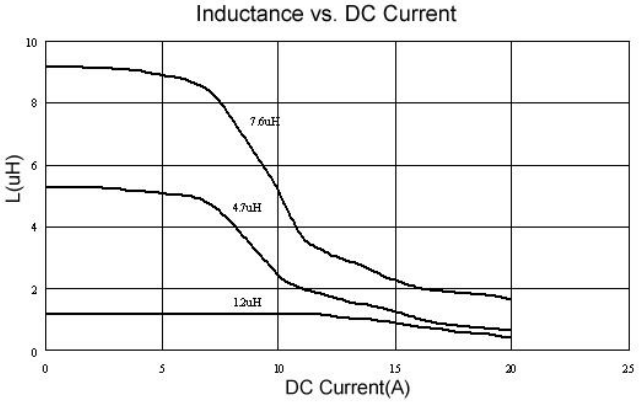
BPSC00131360



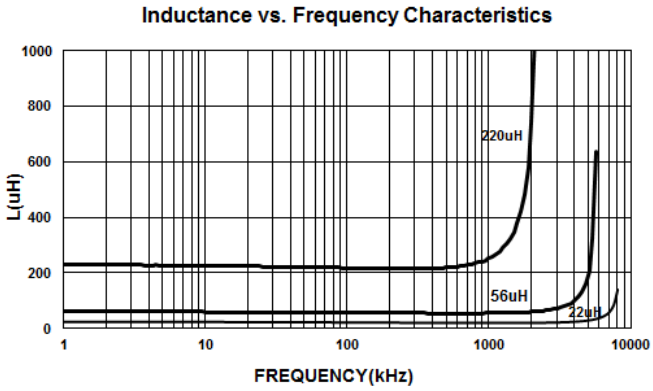


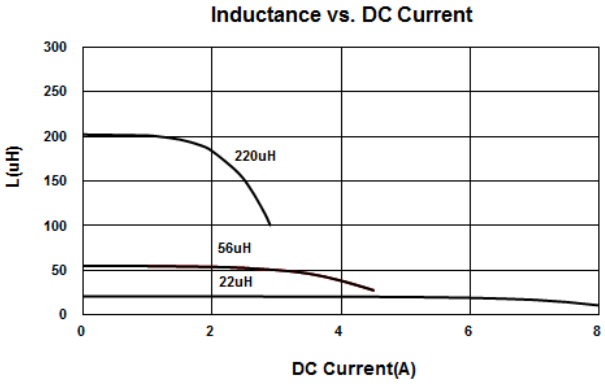
BPSC00131380





BPSC00131310





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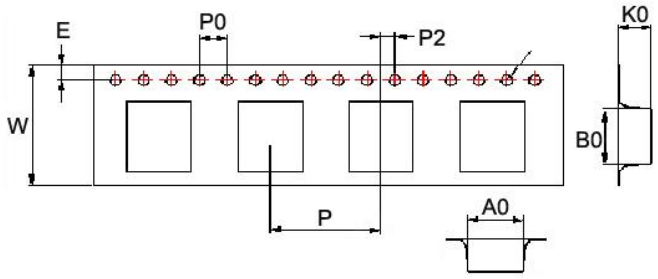
Pulse a YAGEO company

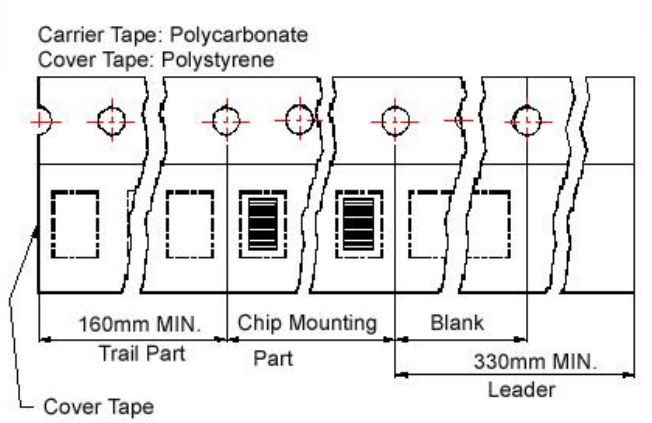
CHILISIN ELECTRONICS CORP.

Packaging Specifications

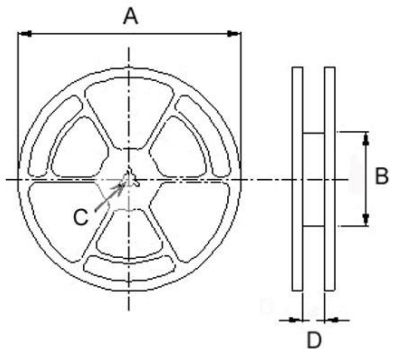
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
BPSC00070734	7.6	7.6	3.6	1.55	1.75	16	12	4	2	330	100	13	16.0	1600
BPSC00070745	7.6	7.6	5.0	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BPSC00101131	10.6	10.75	4.2	1.55	1.75	24	16	4	2	300	100	13	24.4	1000
BPSC00101140	10.6	10.75	4.2	1.5	1.75	24	16	4	2	330	100	13	24.4	1000
BPSC00101151	10.6	10.6	5.0	1.5	1.75	24	16	4	2	330	100	13	24.4	500
BPSC00131345	13.0	12.8	5.1	1.55	1.75	24	16	4	2	330	100	13	24.4	500
BPSC00131360	12.6	12.6	6.7	1.55	1.75	24	16	4	2	330	100	13	24.4	600
BPSC00131380	12.6	12.6	8.7	1.55	1.75	24	16	4	2	330	100	13	24.4	500
BPSC00131310	12.7	12.7	10.2	1.55	1.75	24	24	4	2	330	100	13	24.4	250

BPSC Series

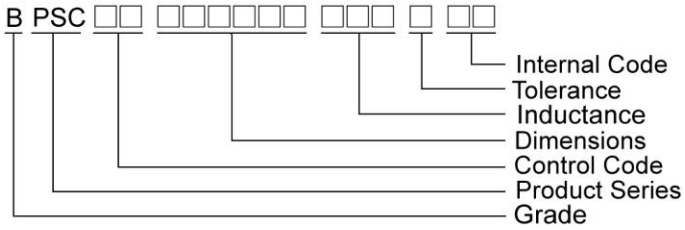
Features

- RoHS, Halogen Free and REACH Compliance
- Magnetic shielded
- Various package size and wide inductance range

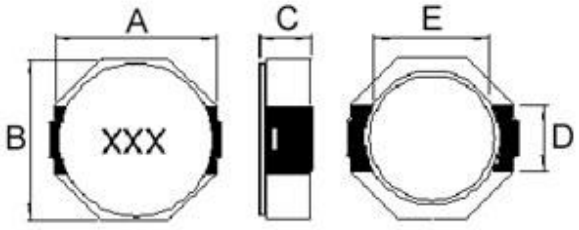
Applications

- AP Routers
- STBs
- LCD TVs and monitors
- Game consoles
- LED lightings
- DC/DC converters

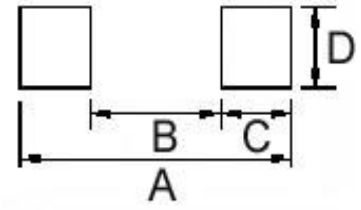
Product Identification



Shapes and Dimensions



Recommended Pattern



Dimension in mm

TYPE	A	B	C	D	E
BPSC00080845	8.3^{+0}	8.3^{+0}	4.5^{+0}	2.5	6.3

Dimension in mm

TYPE	A	B	C	D
BPSC00080845	10.1	6.1	2.0	2.8

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Rated Current (A)	Marking
BPSC000808453R3□00	3.3	20	100	19	5.7	3R3
BPSC000808454R7□00	4.7	20	100	22	5.6	4R7
BPSC000808456R8□00	6.8	20	100	25	4.4	6R8
BPSC00080845100□00	10	20	100	36	4.0	100
BPSC00080845150□00	15	20	100	53	2.9	150
BPSC00080845220□00	22	20	100	75	2.4	220
BPSC00080845470□00	47	20	100	150	1.8	470
BPSC00080845680□00	68	20	100	240	1.5	680
BPSC00080845101□00	100	20	100	353	1.1	101

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Rated current for Inductance drop 35% from its value with current
- Measure Equipment：

  L：HP4284A 100kHz/1V

  RDC：Chroma 16502

  Rated current：HP4284+42841A

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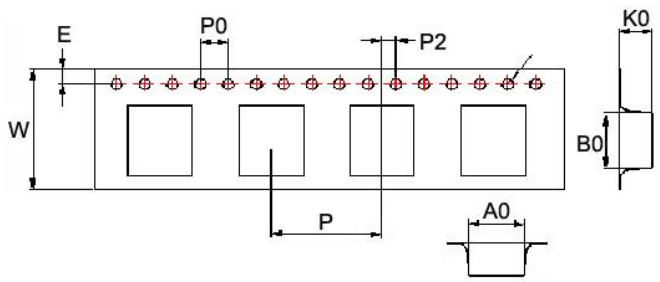
Pulse a YAGEO company

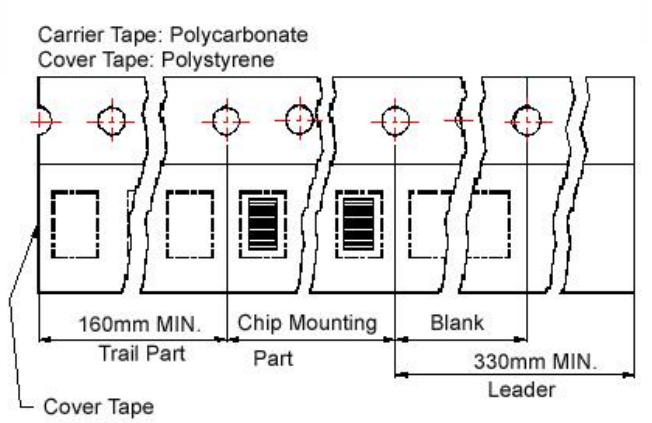
CHILISIN ELECTRONICS CORP.

Packaging Specifications

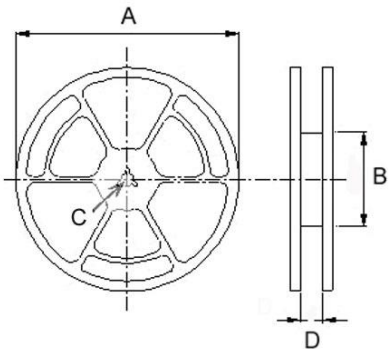
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
BPSC00080845	8.4	9.9	4.8	1.55	1.75	24	12	4	2	330	100	13	24.4	1000

BPDx Series

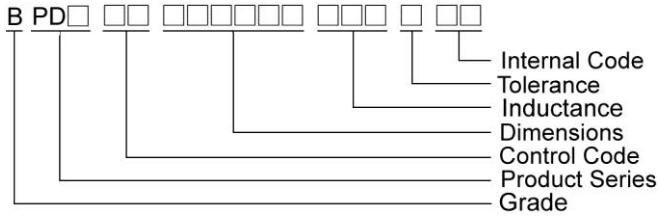
Features

- RoHS, Halogen Free and REACH Compliance
- Magnetic shielded
- Various package size and wide inductance range

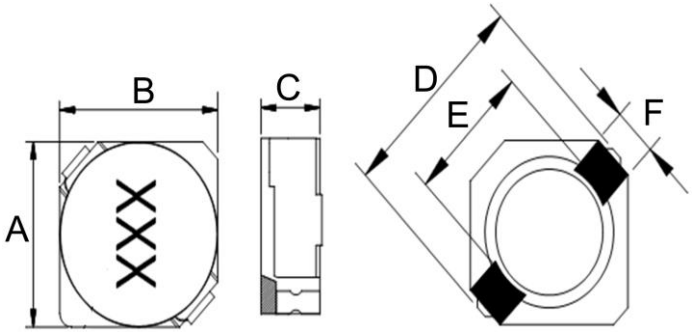
Applications

- AP Routers
- STBs
- LCD TVs and monitors
- Game consoles
- LED lightings
- DC/DC converters

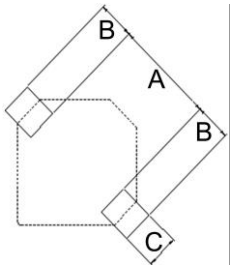
Product Identification



Shape and Dimensions



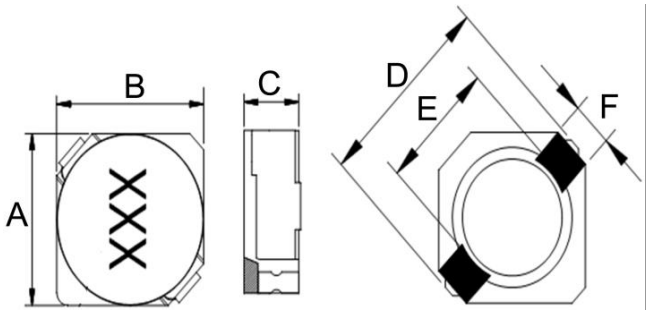
Recommended Pattern



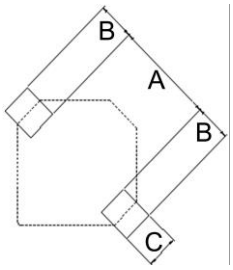
Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPDC00030310	3.0±0.2	3.0±0.2	1.0Max	4.5Max	2.1	1.0	1.7	1.3	1.3
BPDL00030312	3.0±0.2	3.0±0.2	1.2Max	4.5Max	2.1	1.0	1.7	1.3	1.3
BPDS00030316	3.0±0.2	3.0±0.2	1.55Max	4.5Max	2.1	1.0	1.7	1.3	1.3
BPDx00030320	3.0±0.2	3.0±0.2	2.0Max	4.5Max	2.1	1.0	1.7	1.3	1.3

Shape and Dimensions

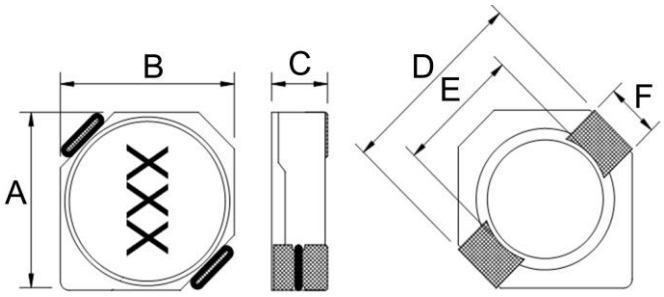


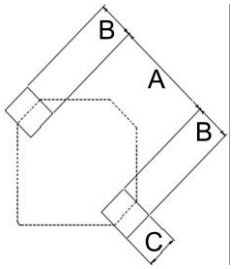
Recommended Pattern



Dimensions in mm

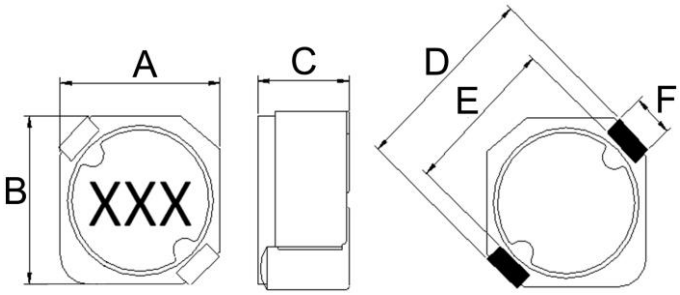
TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPDx00040415	3.8±0.2	3.8±0.2	1.5Max	5.2Max	2.8	1.1	2.4	1.4	1.5
BPDH00040418 (1R0~4R7)	3.8±0.2	3.8±0.2	1.5Max	5.4Max	2.8	1.1	2.4	1.4	1.5
BPDH00040418 (6R8~561)	3.8±0.2	3.8±0.2	1.5Max	5.2Max	2.8	1.1	2.4	1.4	1.5
BPDN00040423	3.8±0.2	3.8±0.2	2.3Max	5.0±0.4	2.8	1.1	2.4	1.4	1.5
BPDN00040430	3.8±0.2	3.8±0.2	3.0Max	5.4Max	2.8	1.1	2.4	1.4	1.5

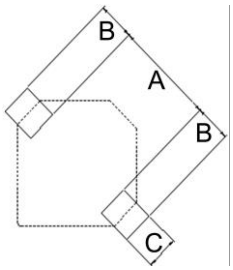




Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPDH00040412	3.8±0.2	3.8±0.2	1.2Max	5.2Max	2.8	1.1	2.4	1.4	1.5
BPDH00060618	5.6±0.2	5.6±0.2	1.8Max	7.0Max	4.7	1.2	4.3	1.45	1.6

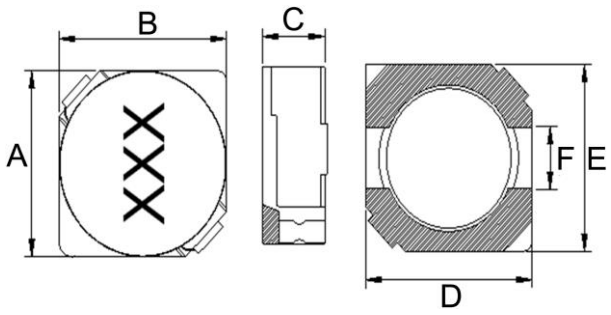




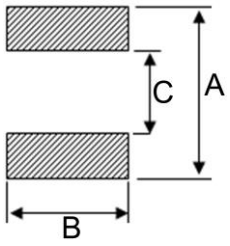
Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPDC00050520	5.1Max	5.1Max	2.0Max	6.2Max	4.4	1.4	4	1.25	2
BPDC00050530	5.1Max	5.1Max	3.0Max	6.2Max	4.4	1.4	4	1.25	2

Shape and Dimensions



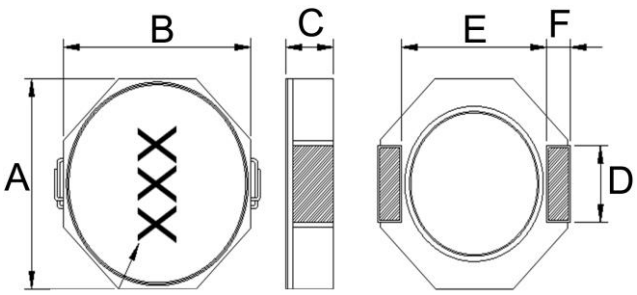
Recommended Pattern



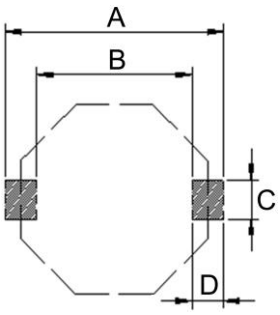
Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPDR00040416	3.8±0.2	3.8±0.2	1.6±0.3	3.7	3.7	1.2	4.4	4.4	1.2
BPDR00050520	4.7±0.3	4.7±0.3	2.0Max	4.5	4.5	1.5	5.3	5.3	1.5
BPDR00050530	4.7±0.3	4.7±0.3	3.0Max	4.5	4.5	1.5	5.3	5.3	1.5
BPDR00060620	5.7±0.3	5.7±0.3	2.0Max	5.5	5.5	2.0	6.3	6.3	2.0
BPDR00060630	5.7±0.3	5.7±0.3	3.0Max	5.5	5.5	2.0	6.3	6.3	2.0
BPDR00060655	5.7±0.3	5.7±0.3	5.5Max	5.5	5.5	2.0	6.3	6.3	2.0
BPDx00070730	6.7±0.3	6.7±0.3	3.0Max	6.5	6.5	2.0	7.3	7.3	2.0
BPDR00070740	6.7±0.3	6.7±0.3	4.0Max	6.5	6.5	2.0	7.3	7.3	2.0

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern			
	A	B	C	D	E	F	A	B	C	D
BPDR00080830	8.0±0.2	8.0±0.2	3.0Max	2.5	6.3	1.2	10.1	6.1	2.8	2
BPDR00080840	8.0±0.2	8.0±0.2	4.0Max	2.5	6.3	1.2	10.1	6.1	2.8	2
BPDR00080845	8.0±0.2	8.0±0.2	4.5Max	2.5	6.3	1.2	10.1	6.1	2.8	2

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDC000303101R2□00	1.2	20,30	100	0.078	0.83	1.55	1R2
BPDC000303101R5□00	1.5	20,30	100	0.088	0.70	1.35	1R5
BPDC000303102R2□00	2.2	20,30	100	0.119	0.60	1.20	2R2
BPDC000303102R4□00	2.4	20,30	100	0.119	0.58	1.10	2R4
BPDC000303103R3□00	3.3	20,30	100	0.174	0.50	0.90	3R3
BPDC000303104R7□00	4.7	20,30	100	0.238	0.38	0.80	4R7
BPDC000303106R4□00	6.4	20,30	100	0.29	0.36	0.65	6R4
BPDC000303108R2□00	8.2	20,30	100	0.40	0.31	0.56	8R2
BPDC00030310100□00	10	20,30	100	0.50	0.30	0.51	100
BPDC00030310120□00	12	20,30	100	0.55	0.27	0.45	120
BPDC00030310150□00	15	20,30	100	0.65	0.24	0.42	150
BPDC00030310180□00	18	20,30	100	0.77	0.22	0.38	180
BPDC00030310220□00	22	20,30	100	0.94	0.20	0.35	220
BPDC00030310270□00	27	20,30	100	1.11	0.16	0.32	270

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPDC000505201R1□00	1.1	30	100	0.029	2.4	1R1
BPDC000505201R2□00	1.2	30	100	0.029	2.4	1R2
BPDC000505202R2□00	2.2	20,30	100	0.039	1.7	2R2
BPDC000505203R0□00	3.0	30	100	0.061	1.5	3R0
BPDC000505203R3□00	3.3	20,30	100	0.061	1.5	3R3
BPDC000505204R7□00	4.7	20,30	100	0.110	1.15	4R7
BPDC000505206R8□00	6.8	30	100	0.125	1.05	6R8
BPDC00050520100□00	10	20,30	100	0.156	0.83	100
BPDC00050520150□00	15	20,30	100	0.194	0.70	150
BPDC00050520220□00	22	20,30	100	0.323	0.60	220
BPDC00050520330□00	33	20,30	100	0.550	0.46	330
BPDC00050520470□00	47	20,30	100	0.783	0.41	470
BPDC00050520680□00	68	20,30	100	1.16	0.305	680
BPDC00050520101□00	100	20,30	100	1.51	0.250	101

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Rated Current：Based on inductance change (△L/Lo：drop 35% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：40℃ Typ.)

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPDC000505301R1□00	1.1	30	100	0.022	3.8	1R1
BPDC000505302R0□00	2.0	20,30	100	0.029	2.6	2R0
BPDC000505303R2□00	3.2	30	100	0.042	2.3	3R2
BPDC000505304R7□00	4.7	20,30	100	0.063	1.8	4R7
BPDC000505306R3□00	6.3	30	100	0.094	1.3	6R3
BPDC00050530100□00	10	20,30	100	0.106	1.26	100
BPDC00050530150□00	15	20,30	100	0.137	1.05	150
BPDC00050530220□00	22	20,30	100	0.207	0.85	220
BPDC00050530330□00	33	20,30	100	0.331	0.70	330
BPDC00050530470□00	47	20,30	100	0.510	0.54	470
BPDC00050530680□00	68	20,30	100	0.625	0.49	680
BPDC00050530101□00	100	20,30	100	0.948	0.40	101

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Rated Current : Based on inductance change (△L/Lo：drop 35% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：40℃ Typ.)

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDH000303201R3□00	1.3	30	100	0.044	1.90	2.5	1R3
BPDH000303201R5□00	1.5	30	100	0.044	1.85	2.2	1R5
BPDH000303201R7□00	1.7	30	100	0.044	1.85	2.2	1R7
BPDH000303202R2□00	2.2	20,30	100	0.060	1.60	1.9	2R2
BPDH000303203R3□00	3.3	20,30	100	0.086	1.45	1.55	3R3
BPDH000303203R9□00	3.9	30	100	0.125	1.30	1.35	3R9
BPDH000303204R7□00	4.7	20,30	100	0.140	1.20	1.20	4R7
BPDH000303206R3□00	6.3	20,30	100	0.160	1.05	1.15	6R3
BPDH00030320100□00	10	20,30	100	0.245	0.85	0.90	100
BPDH00030320150□00	15	20,30	100	0.345	0.7	0.64	150
BPDH00030320470□00	47	20,30	100	1.1	0.4	0.40	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDH00040412R60□00	0.6	30	100	0.059	2.9	1.80	R60
BPDH000404121R2□00	1.2	30	100	0.082	2.0	1.70	1R2
BPDH000404121R5□00	1.5	30	100	0.104	1.85	1.45	1R5
BPDH000404122R2□00	2.2	30	100	0.143	1.60	1.15	2R2
BPDH000404122R5□00	2.5	20,30	100	0.150	1.55	1.10	2R5
BPDH000404123R3□00	3.3	30	100	0.182	1.25	0.95	3R3
BPDH000404124R7□00	4.7	20,30	100	0.234	1.00	0.90	4R7
BPDH000404125R6□00	5.6	20,30	100	0.305	0.93	0.80	5R6
BPDH000404126R8□00	6.8	30	100	0.377	0.85	0.70	6R8
BPDH00040412100□00	10	20,30	100	0.413	0.80	0.60	100
BPDH00040412120□00	12	20,30	100	0.585	0.64	0.48	120
BPDH00040412150□00	15	20,30	100	0.653	0.58	0.45	150
BPDH00040412180□00	18	20,30	100	0.888	0.52	0.40	180
BPDH00040412220□00	22	20,30	100	1.012	0.45	0.33	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

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- Irms for a 40℃ temperature rise from 25℃ ambient with current
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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDH000404151R5□00	1.5	25,30	100	0.076	2.6	1.85	1R5
BPDH000404152R2□00	2.2	30	100	0.129	2.0	1.32	2R2
BPDH000404152R4□00	2.4	30	100	0.129	2.0	1.32	2R4
BPDH000404153R2□00	3.2	30	100	0.139	1.8	1.25	3R2
BPDH000404154R7□00	4.7	20,25,30	100	0.214	1.45	1.04	4R7
BPDH000404156R8□00	6.8	20,25,30	100	0.29	1.20	0.84	6R8
BPDH00040415100□00	10	20,25,30	100	0.44	1.00	0.67	100
BPDH00040415150□00	15	20,30	100	0.65	0.80	0.50	150
BPDH00040415180□00	18	20,30	100	0.74	0.73	0.49	180
BPDH00040415220□00	22	20,25,30	100	0.83	0.65	0.48	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , Y=±25% , T=±30%

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- Isat for Inductance drop 35% from its value without current
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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDH000404181R0□00	1.0	30	100	0.048	2.5	2.8	1R0
BPDH000404181R2□00	1.2	30	100	0.0495	2.3	2.6	1R2
BPDH000404181R5□00	1.5	30	100	0.051	2.0	2.4	1R5
BPDH000404181R7□00	1.7	30	100	0.051	2.0	2.4	1R7
BPDH000404182R2□00	2.2	20,30	100	0.059	1.75	2.3	2R2
BPDH000404183R3□00	3.3	20,30	100	0.085	1.4	1.8	3R3
BPDH000404184R7□00	4.7	20,30	100	0.116	1.2	1.5	4R7
BPDH000404186R8□00	6.8	20,30	100	0.18	1.0	1.1	6R8
BPDH00040418100□00	10	20,30	100	0.23	0.84	1.0	100
BPDH00040418150□00	15	20,30	100	0.41	0.65	0.75	150
BPDH00040418220□00	22	20,30	100	0.61	0.55	0.52	220
BPDH00040418330□00	33	20,30	100	0.87	0.46	0.41	330
BPDH00040418470□00	47	20,30	100	0.95	0.42	0.37	470
BPDH00040418561□00	560	20,30	100	15	0.09	0.11	561

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

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- Irms for a 40℃ temperature rise from 25℃ ambient with current
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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDH00060618R90□00	0.9	30	100	0.022	4.7	5.0	R90
BPDH000606182R2□00	2.2	20,30	100	0.0359	3.0	2.9	2R2
BPDH000606184R7□00	4.7	20,30	100	0.0641	2.1	2.1	4R7
BPDH00060618100□00	10	20,30	100	0.14	1.45	1.3	100
BPDH00060618150□00	15	20,30	100	0.24	1.10	1.1	150
BPDH00060618220□00	22	20,30	100	0.32	0.95	0.8	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

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- Isat for Inductance drop 35% from its value without current
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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDH000707304R7□00	4.7	20,30	100	0.042	3.5	3.5	4R7
BPDH00070730100□00	10	20,30	100	0.085	2.3	2.3	100
BPDH00070730150□00	15	20,30	100	0.128	2.0	1.45	150
BPDH00070730220□00	22	20,30	100	0.174	1.7	1.2	220
BPDH00070730330□00	33	20,30	100	0.250	1.5	1.1	330

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

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- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDL000303121R5□00	1.5	30	100	0.068	0.90	1.48	1R5
BPDL000303122R2□00	2.2	30	100	0.098	0.78	1.27	2R2
BPDL000303123R3□00	3.3	30	100	0.123	0.60	1.02	3R3
BPDL000303124R7□00	4.7	20,30	100	0.17	0.50	0.88	4R7
BPDL000303126R8□00	6.8	30	100	0.26	0.44	0.80	6R8
BPDL00030312100□00	10	20,30	100	0.40	0.35	0.65	100
BPDL00030312150□00	15	20,30	100	0.52	0.31	0.60	150
BPDL00030312220□00	22	20,30	100	0.67	0.27	0.55	220
BPDL00030312330□00	33	20,30	100	1.00	0.22	0.40	330

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDL000303202R2□00	2.2	20,30	100	0.041	0.85	2.3	2R2
BPDL000303203R3□00	3.3	20,30	100	0.054	0.75	2.1	3R3
BPDL000303204R7□00	4.7	30	100	0.078	0.63	1.65	4R7
BPDL000303206R8□00	6.8	30	100	0.106	0.52	1.32	6R8
BPDL00030320100□00	10	20,30	100	0.18	0.43	1.00	100
BPDL00030320150□00	15	30	100	0.22	0.35	0.80	150
BPDL00030320220□00	22	20,30	100	0.32	0.30	0.68	220
BPDL00030320330□00	33	20,30	100	0.46	0.24	0.56	330
BPDL00030320470□00	47	20,30	100	0.66	0.20	0.48	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDL000404151R2□00	1.2	30	100	0.038	1.50	2.7	1R2
BPDL000404151R5□00	1.5	30	100	0.048	1.35	2.4	1R5
BPDL000404152R0□00	2.0	30	100	0.055	1.15	2.2	2R0
BPDL000404152R2□00	2.2	20,30	100	0.055	1.15	2.2	2R2
BPDL000404152R5□00	2.5	30	100	0.068	1.05	1.9	2R5
BPDL000404153R0□00	3.0	30	100	0.077	0.95	1.6	3R0
BPDL000404153R9□00	3.9	30	100	0.096	0.80	1.5	3R9
BPDL000404154R5□00	4.5	30	100	0.105	0.75	1.45	4R5
BPDL000404155R6□00	5.6	30	100	0.159	0.70	1.10	5R6
BPDL000404156R8□00	6.8	30	100	0.173	0.60	1.05	6R8
BPDL00040415100□00	10	20,30	100	0.220	0.50	1.00	100
BPDL00040415120□00	12	20,30	100	0.270	0.45	0.80	120
BPDL00040415150□00	15	20,30	100	0.302	0.40	0.75	150
BPDL00040415220□00	22	20,30	100	0.447	0.35	0.60	220
BPDL00040415330□00	33	20,30	100	0.848	0.30	0.40	330
BPDL00040415470□00	47	20,30	100	1.080	0.25	0.35	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDN000404152R2□00	2.2	25,30	100	0.055	1.15	2.2	2R2
BPDN000404154R7□00	4.7	25,30	100	0.105	0.75	1.45	4R7

Note: When ordering, please specify tolerance code. Tolerance: Y=±25% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDN000404231R0□00	1.0	25	100	0.025	2.8	3.1	1R0
BPDN000404231R5□00	1.5	25	100	0.029	2.2	2.9	1R5
BPDN000404232R2□00	2.2	25	100	0.0383	1.8	2.5	2R2
BPDN000404233R3□00	3.3	25	100	0.0563	1.45	2.2	3R3
BPDN000404234R7□00	4.7	25	100	0.0688	1.30	1.9	4R7
BPDN000404235R6□00	5.6	25	100	0.075	1.10	1.8	5R6
BPDN000404236R8□00	6.8	25	100	0.0878	1.00	1.7	6R8
BPDN000404238R2□00	8.2	25	100	0.0948	0.95	1.6	8R2
BPDN00040423100□00	10	20,25	100	0.117	0.85	1.4	100
BPDN00040423150□00	15	20,25	100	0.119	0.70	0.85	150
BPDN00040423220□00	22	20,25	100	0.270	0.55	0.75	220
BPDN00040423330□00	33	20,25	100	0.381	0.50	0.60	330
BPDN00040423470□00	47	20,25	100	0.546	0.35	0.55	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , Y=±25%

- Operating temperature range - 40℃~125℃(Including self - temperature rise)
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- Irms for a 40℃ temperature rise from 25℃ ambient with current
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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDN000404301R0□00	1.0	30	100	0.021	3.7	5.2	1R0
BPDN000404302R2□00	2.2	30	100	0.045	2.5	2.2	2R2
BPDN000404303R3□00	3.3	30	100	0.0721	2.0	1.85	3R3
BPDN000404304R7□00	4.7	30	100	0.0883	1.65	1.62	4R7
BPDN000404306R8□00	6.8	30	100	0.119	1.24	1.32	6R8
BPDN00040430100□00	10	30	100	0.145	1.05	1.18	100
BPDN00040430150□00	15	30	100	0.213	0.90	1.02	150
BPDN00040430220□00	22	30	100	0.335	0.76	0.74	220
BPDN00040430330□00	33	30	100	0.481	0.58	0.63	330
BPDN00040430470□00	47	30	100	0.599	0.48	0.56	470

Note: When ordering, please specify tolerance code. Tolerance: T=±30%

- Operating temperature range - 40℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPDR000404162R2□00	2.2	20,30	100	0.072	1.2	2R2
BPDR000404163R3□00	3.3	30	100	0.085	1.1	3R3
BPDR000404164R7□00	4.7	20,30	100	0.105	0.9	4R7
BPDR000404166R2□00	6.2	30	100	0.16	0.8	6R2
BPDR000404166R8□00	6.8	20,30	100	0.17	0.73	6R8
BPDR000404168R2□00	8.2	30	100	0.20	0.65	8R2
BPDR00040416100□00	10	20,30	100	0.21	0.55	100
BPDR00040416150□00	15	20,30	100	0.295	0.45	150
BPDR00040416220□00	22	20,30	100	0.43	0.40	220
BPDR00040416330□00	33	20,30	100	0.675	0.32	330
BPDR00040416390□00	39	20,30	100	0.82	0.26	390
BPDR00040416470□00	47	20,30	100	0.99	0.24	470
BPDR00040416680□00	68	20,30	100	1.1	0.22	680
BPDR00040416101□00	100	20,30	100	2.2	0.17	101
BPDR00040416221□00	220	20,30	100	4.0	0.15	221

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Rated Current : Based on inductance change (△L/Lo：drop 35% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：40℃ Typ.)

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPDR000505201R0□00	1.0	30	100	0.045	1.72	1R0
BPDR000505202R2□00	2.2	30	100	0.075	1.32	2R2
BPDR000505202R7□00	2.7	30	100	0.105	1.28	2R7
BPDR000505203R3□00	3.3	30	100	0.110	1.04	3R3
BPDR000505203R9□00	3.9	30	100	0.155	0.88	3R9
BPDR000505204R7□00	4.7	20,30	100	0.162	0.84	4R7
BPDR000505205R6□00	5.6	20,30	100	0.170	0.80	5R6
BPDR000505206R8□00	6.8	20,30	100	0.200	0.76	6R8
BPDR000505208R2□00	8.2	20,30	100	0.245	0.68	8R2
BPDR00050520100□00	10	20,30	100	0.260	0.61	100
BPDR00050520120□00	12	20,30	100	0.280	0.56	120
BPDR00050520150□00	15	20,30	100	0.310	0.50	150
BPDR00050520180□00	18	20,30	100	0.338	0.48	180
BPDR00050520220□00	22	20,30	100	0.397	0.41	220
BPDR00050520270□00	27	20,30	100	0.441	0.35	270
BPDR00050520330□00	33	20,30	100	0.694	0.32	330
BPDR00050520390□00	39	20,30	100	0.709	0.30	390
BPDR00050520101□00	100	20,30	100	1.4	0.20	101
BPDR00050520221□00	220	20,30	100	2.4	0.15	221

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Rated Current：Based on inductance change (△L/Lo：drop 35% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：40℃ Typ.)

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPDR000505301R0□00	1.0	30	100	0.0236	2.56	1R0
BPDR000505301R2□00	1.2	30	100	0.0236	2.56	1R2
BPDR000505301R8□00	1.8	20,30	100	0.0275	2.20	1R8
BPDR000505302R2□00	2.2	20,30	100	0.0313	2.04	2R2
BPDR000505302R7□00	2.7	30	100	0.0433	1.60	2R7
BPDR000505303R3□00	3.3	20,30	100	0.0492	1.57	3R3
BPDR000505303R9□00	3.9	30	100	0.0648	1.44	3R9
BPDR000505304R7□00	4.7	20,30	100	0.0720	1.32	4R7
BPDR000505305R6□00	5.6	20,30	100	0.1009	1.17	5R6
BPDR000505306R8□00	6.8	20,30	100	0.1089	1.12	6R8
BPDR000505308R2□00	8.2	20,30	100	0.1175	1.04	8R2
BPDR00050530100□00	10	20,30	100	0.1283	1.00	100
BPDR00050530120□00	12	20,30	100	0.1316	0.84	120
BPDR00050530150□00	15	20,30	100	0.149	0.76	150
BPDR00050530180□00	18	20,30	100	0.166	0.72	180
BPDR00050530220□00	22	20,30	100	0.235	0.70	220
BPDR00050530270□00	27	20,30	100	0.261	0.58	270
BPDR00050530330□00	33	20,30	100	0.3313	0.56	330
BPDR00050530390□00	39	20,30	100	0.3837	0.50	390
BPDR00050530470□00	47	20,30	100	0.587	0.48	470
BPDR00050530560□00	56	20,30	100	0.6245	0.41	560
BPDR00050530680□00	68	20,30	100	0.699	0.35	680
BPDR00050530820□00	82	20,30	100	0.9148	0.32	820
BPDR00050530101□00	100	10,20	100	1.02	0.29	101
BPDR00050530121□00	120	10,20	100	1.27	0.27	121
BPDR00050530151□00	150	10,20	100	1.35	0.24	151
BPDR00050530181□00	180	10,20	100	1.54	0.22	181
BPDR00050530271□00	270	20,30	100	3.00	0.16	271

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Rated Current : Based on inductance change (△L/Lo：drop 35% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：40℃ Typ.)

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPDR000606204R1□00	4.1	30	100	0.057	1.95	4R1
BPDR000606205R4□00	5.4	30	100	0.076	1.60	5R4
BPDR000606206R2□00	6.2	20,30	100	0.096	1.40	6R2
BPDR000606206R8□00	6.8	20,30	100	0.096	1.40	6R8
BPDR000606208R9□00	8.9	20,30	100	0.116	1.25	8R9
BPDR00060620100□00	10	20,30	100	0.124	1.20	100
BPDR00060620120□00	12	20,30	100	0.153	1.10	120
BPDR00060620150□00	15	20,30	100	0.196	0.97	150
BPDR00060620180□00	18	20,30	100	0.21	0.85	180
BPDR00060620220□00	22	20,30	100	0.29	0.80	220
BPDR00060620270□00	27	20,30	100	0.33	0.75	270
BPDR00060620330□00	33	20,30	100	0.385	0.65	330
BPDR00060620390□00	39	20,30	100	0.52	0.57	390
BPDR00060620470□00	47	20,30	100	0.595	0.54	470
BPDR00060620560□00	56	20,30	100	0.665	0.50	560
BPDR00060620680□00	68	20,30	100	0.84	0.43	680
BPDR00060620820□00	82	20,30	100	0.978	0.41	820
BPDR00060620101□00	100	10,20	100	1.2	0.36	101

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Rated Current : Based on inductance change (△L/Lo：drop 35% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：40℃ Typ.)

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPDR000606301R0□00	1.0	30	100	0.012	3.7	1R0
BPDR000606301R2□00	1.2	30	100	0.013	3.5	1R2
BPDR000606302R2□00	2.2	30	100	0.018	2.8	2R2
BPDR000606302R5□00	2.5	30	100	0.018	2.6	2R5
BPDR000606302R7□00	2.7	30	100	0.018	2.6	2R7
BPDR000606303R0□00	3.0	30	100	0.024	2.4	3R0
BPDR000606303R3□00	3.3	20,30	100	0.024	2.4	3R3
BPDR000606303R9□00	3.9	30	100	0.031	2.2	3R9
BPDR000606304R2□00	4.2	30	100	0.031	2.2	4R2
BPDR000606304R7□00	4.7	20,30	100	0.035	2.0	4R7
BPDR000606305R3□00	5.3	30	100	0.038	1.9	5R3
BPDR000606306R2□00	6.2	20,30	100	0.045	1.8	6R2
BPDR000606306R6□00	6.6	20,30	100	0.045	1.8	6R6
BPDR000606308R2□00	8.2	20,30	100	0.053	1.6	8R2
BPDR00060630100□00	10	20,30	100	0.065	1.3	100
BPDR00060630120□00	12	20,30	100	0.076	1.2	120
BPDR00060630150□00	15	20,30	100	0.103	1.1	150
BPDR00060630180□00	18	20,30	100	0.110	1.0	180
BPDR00060630220□00	22	20,30	100	0.112	0.9	220
BPDR00060630270□00	27	20,30	100	0.175	0.85	270
BPDR00060630330□00	33	20,30	100	0.189	0.75	330
BPDR00060630390□00	39	20,30	100	0.212	0.7	390
BPDR00060630470□00	47	20,30	100	0.250	0.62	470
BPDR00060630560□00	56	20,30	100	0.305	0.58	560
BPDR00060630680□00	68	20,30	100	0.355	0.52	680
BPDR00060630820□00	82	20,30	100	0.463	0.46	820
BPDR00060630101□00	100	20,30	100	0.52	0.42	101
BPDR00060630151□00	150	20,30	100	1.05	0.35	151
BPDR00060630181□00	180	20,30	100	1.55	0.32	181
BPDR00060630221□00	220	20,30	100	1.90	0.28	221

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Rated Current：Based on inductance change (△L/Lo：drop 35% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：40℃ Typ.)

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDR000606551R5□00	1.5	20,30	100	0.0103	5.5	6.3	1R5
BPDR000606552R2□00	2.2	30	100	0.0170	4.5	5.0	2R2
BPDR000606553R3□00	3.3	20,30	100	0.0222	3.5	4.3	3R3
BPDR000606554R7□00	4.7	20,30	100	0.0261	3.0	4.0	4R7
BPDR000606556R8□00	6.8	20,30	100	0.0355	2.5	3.5	6R8
BPDR00060655100□00	10	20,30	100	0.0666	1.7	2.3	100
BPDR00060655101□00	100	30	100	0.358	0.65	0.85	101

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPDR000707301R2□00	1.2	30	100	0.014	4.5	1R2
BPDR000707301R5□00	1.5	30	100	0.015	4.0	1R5
BPDR000707302R2□00	2.2	20,30	100	0.020	3.5	2R2
BPDR000707303R0□00	3.0	30	100	0.024	3.0	3R0
BPDR000707303R3□00	3.3	30	100	0.025	3.0	3R3
BPDR000707303R6□00	3.6	30	100	0.027	2.6	3R6
BPDR000707303R9□00	3.9	30	100	0.027	2.6	3R9
BPDR000707304R7□00	4.7	20,30	100	0.030	2.5	4R7
BPDR000707305R0□00	5.0	30	100	0.031	2.4	5R0
BPDR000707306R0□00	6.0	30	100	0.035	2.25	6R0
BPDR000707306R8□00	6.8	30	100	0.054	2.1	6R8
BPDR000707307R3□00	7.3	30	100	0.054	2.1	7R3
BPDR000707308R6□00	8.6	30	100	0.058	1.85	8R6
BPDR000707309R0□00	9.0	20,30	100	0.058	1.85	9R0
BPDR00070730100□00	10	20,30	100	0.065	1.7	100
BPDR00070730120□00	12	20,30	100	0.070	1.55	120
BPDR00070730150□00	15	20,30	100	0.084	1.4	150
BPDR00070730180□00	18	20,30	100	0.095	1.32	180
BPDR00070730220□00	22	20,30	100	0.128	1.2	220
BPDR00070730270□00	27	20,30	100	0.142	1.05	270
BPDR00070730330□00	33	20,30	100	0.165	0.97	330
BPDR00070730390□00	39	20,30	100	0.210	0.86	390
BPDR00070730470□00	47	20,30	100	0.238	0.80	470
BPDR00070730560□00	56	20,30	100	0.277	0.73	560
BPDR00070730680□00	68	20,30	100	0.304	0.65	680
BPDR00070730820□00	82	20,30	100	0.390	0.60	820
BPDR00070730101□00	100	20,30	100	0.535	0.54	101
BPDR00070730151□00	150	20,30	100	0.72	0.40	151

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Rated Current : Based on inductance change (△L/Lo：drop 35% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：40℃ Typ.)

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPDR000707401R0□00	1.0	30	100	0.010	4.5	1R0
BPDR000707401R5□00	1.5	30	100	0.011	4.3	1R5
BPDR000707402R2□00	2.2	30	100	0.015	4.0	2R2
BPDR000707403R3□00	3.3	20,30	100	0.020	3.5	3R3
BPDR000707403R8□00	3.	30	100	0.020	3.5	3R8
BPDR000707405R0□00	5.0	30	100	0.024	2.9	5R0
BPDR000707406R2□00	6.2	30	100	0.027	2.5	6R2
BPDR000707406R8□00	6.8	20,30	100	0.027	2.4	6R8
BPDR000707407R4□00	7.4	30	100	0.031	2.3	7R4
BPDR000707408R2□00	8.2	30	100	0.034	2.2	8R2
BPDR000707408R7□00	8.7	30	100	0.034	2.2	8R7
BPDR00070740100□00	10	20,30	100	0.038	2.0	100
BPDR00070740120□00	12	20,30	100	0.053	1.7	120
BPDR00070740150□00	15	20,30	100	0.057	1.6	150
BPDR00070740180□00	18	20,30	100	0.092	1.5	180
BPDR00070740220□00	22	20,30	100	0.096	1.3	220
BPDR00070740270□00	27	20,30	100	0.109	1.2	270
BPDR00070740330□00	33	20,30	100	0.124	1.1	330
BPDR00070740390□00	39	20,30	100	0.138	1.0	390
BPDR00070740470□00	47	20,30	100	0.155	0.95	470
BPDR00070740560□00	56	20,30	100	0.202	0.85	560
BPDR00070740680□00	68	20,30	100	0.234	0.75	680
BPDR00070740820□00	82	20,30	100	0.324	0.70	820
BPDR00070740101□00	100	10,20,30	100	0.358	0.65	101
BPDR00070740221□00	220	20,30	100	1.50	0.45	221
BPDR00070740331□00	330	20,30	100	1.55	0.35	331

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Rated Current：Based on inductance change (△L/Lo：drop 35% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：40℃ Typ.)

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDR000808302R5□00	2.5	30	100	0.0156	4.5	6.4	2R5
BPDR000808303R3□00	3.3	20,30	100	0.0182	4.0	6.0	3R3
BPDR000808303R6□00	3.6	20,30	100	0.0240	3.8	4.6	3R6
BPDR000808304R7□00	4.7	20,30	100	0.0247	3.4	4.5	4R7
BPDR000808307R3□00	7.3	30	100	0.039	2.8	3.4	7R3
BPDR00080830100□00	10	20,30	100	0.047	2.5	3.2	100
BPDR00080830150□00	15	20,30	100	0.069	1.9	2.35	150
BPDR00080830220□00	22	20,30	100	0.099	1.6	1.85	220
BPDR00080830330□00	33	20,30	100	0.156	1.3	1.45	330
BPDR00080830470□00	47	20,30	100	0.195	1.15	1.30	470
BPDR00080830680□00	68	20,30	100	0.286	0.92	0.98	680
BPDR00080830101□00	100	20,30	100	0.430	0.75	0.80	101

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDR000808401R8□00	1.8	30	100	0.0156	7.0	6.8	1R8
BPDR000808402R5□00	2.5	30	100	0.0175	6.5	6.0	2R5
BPDR000808403R5□00	3.5	30	100	0.024	5.0	5.2	3R5
BPDR000808404R7□00	4.7	20,30	100	0.029	4.6	4.4	4R7
BPDR000808406R0□00	6.0	20,30	100	0.032	4.2	4.0	6R0
BPDR00080840100□00	10	20,30	100	0.048	3.0	3.2	100
BPDR00080840150□00	15	20,30	100	0.067	2.75	2.5	150
BPDR00080840220□00	22	20,30	100	0.105	2.3	2.0	220
BPDR00080840330□00	33	20,30	100	0.157	1.75	1.6	330
BPDR00080840390□00	39	20,30	100	0.173	1.65	1.51	390
BPDR00080840470□00	47	20,30	100	0.189	1.52	1.42	470
BPDR00080840680□00	68	20,30	100	0.29	1.3	1.08	680
BPDR00080840101□00	100	20,30	100	0.41	1.05	0.88	101

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDR000808451R0□00	1.0	30	100	0.0122	8.0	6.2	1R0
BPDR000808451R2□00	1.2	30	100	0.0122	8.0	6.2	1R2
BPDR000808452R0□00	2.0	30	100	0.014	7.0	5.5	2R0
BPDR000808452R2□00	2.2	30	100	0.016	6.8	5.0	2R2
BPDR000808453R6□00	3.6	20,30	100	0.019	5.9	4.5	3R3
BPDR000808453R9□00	3.9	30	100	0.019	5.9	4.5	3R9
BPDR000808454R7□00	4.7	20,30	100	0.022	5.6	4.1	4R7
BPDR000808456R8□00	6.8	20,30	100	0.025	4.4	3.9	6R8
BPDR000808458R2□00	8.2	20,30	100	0.033	4.2	3.6	8R2
BPDR00080845100□00	10	20,30	100	0.036	4.0	3.2	100
BPDR00080845150□00	15	20,30	100	0.062	2.9	2.3	150
BPDR00080845220□00	22	20,30	100	0.075	2.6	1.8	220
BPDR00080845330□00	33	20,30	100	0.125	2.2	1.4	330
BPDR00080845470□00	47	20,30	100	0.150	1.8	1.3	470
BPDR00080845560□00	56	20,30	100	0.225	1.65	1.2	560
BPDR00080845680□00	68	20,30	100	0.240	1.5	1.0	680
BPDR00080845101□00	100	20,30	100	0.360	1.3	0.8	101
BPDR00080845121□00	120	20,30	100	0.51	1.0	0.7	121
BPDR00080845221□00	220	20,30	100	1.00	0.6	0.6	221

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDS000303161R5□00	1.5	30	100	0.063	1.80	2.0	1R5
BPDS000303161R8□00	1.8	30	100	0.075	1.65	1.8	1R8
BPDS000303162R2□00	2.2	20,25,30	100	0.094	1.50	1.6	2R2
BPDS000303162R7□00	2.7	20,30	100	0.106	1.35	1.4	2R7
BPDS000303163R3□00	3.3	30	100	0.125	1.2	1.24	3R3
BPDS000303163R9□00	3.9	30	100	0.138	1.1	1.12	3R9
BPDS000303164R7□00	4.7	20,30	100	0.169	1.0	1.00	4R7
BPDS000303165R6□00	5.6	20,30	100	0.188	0.95	0.98	5R6
BPDS000303166R8□00	6.8	30	100	0.213	0.85	0.92	6R8
BPDS000303168R2□00	8.2	30	100	0.281	0.80	0.80	8R2
BPDS00030316100□00	10	20,30	100	0.294	0.70	0.76	100
BPDS00030316120□00	12	20,30	100	0.394	0.62	0.64	120
BPDS00030316220□00	22	20,30	100	0.65	0.30	0.30	220
BPDS00030316330□00	33	20,30	100	1.00	0.24	0.24	330
BPDS00030316470□00	47	20,30	100	1.25	0.20	0.20	470
BPDS00030316101□00	100	20,30	100	2.40	0.12	0.12	101

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , Y=±25% , T=±30%

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- Isat for Inductance drop 35% from its value without current
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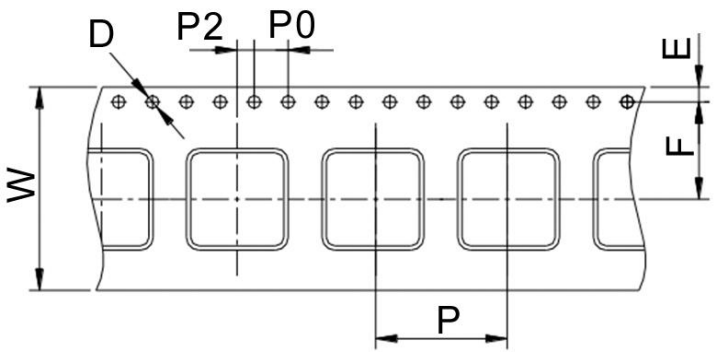
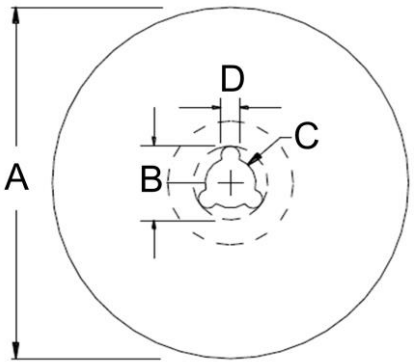
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	W	D	E	F	P	P0	P2	A	B	C	D	PCS / Reel
BPDC00030310	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
BPDL00030312	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
BPDS00030316	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
BPDx00030320	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
BPDH00040412	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
BPDx00040415	12	1.5	1.75	5.5	8	4	2	330	20	13	2	3500
BPDR00040416	12	1.5	1.75	5.5	8	4	2	330	20	13	2	3500
BPDH00040418	12	1.5	1.75	5.5	8	4	2	330	20	13	2	3500
BPDN00040423	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2500
BPDN00040430	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2000
BPDx00050520	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2000
BPDx00050530	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2000
BPDH00060618	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2000
BPDR00060620	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2000
BPDR00060630	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2000
BPDR00060655	16	1.5	1.75	7.5	12	4	2	330	20	13	2	900
BPDx00070730	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
BPDR00070740	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
BPDR00080830	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
BPDR00080840	16	1.5	1.75	7.5	16	4	2	330	20	13	2	900
BPDR00080845	16	1.5	1.75	7.5	16	4	2	330	20	13	2	900

BPRR Series

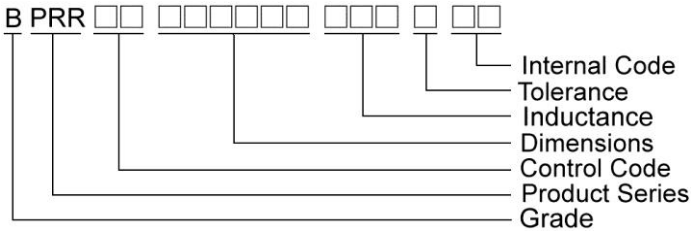
Features

- RoHS, Halogen Free and REACH Compliance
- Magnetic shielded
- Various package size and wide inductance range

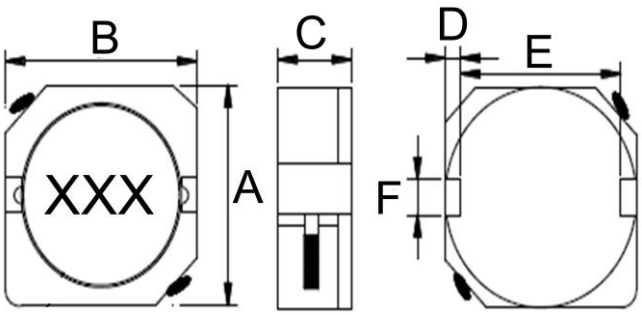
Applications

- AP Routers
- STBs
- LCD TVs and monitors
- Game consoles
- LED lightings
- DC/DC converters

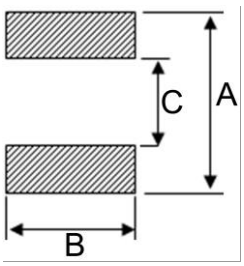
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPRR00101031	10±0.5	10.1±0.5	3.1Max	1.2	7.7	3	10.7	3.2	7.3
BPRR00101041	10±0.5	10.1±0.5	4.1Max	1.2	7.7	3	10.7	3.2	7.3
BPRR00101051	10±0.5	10.1±0.5	5.1Max	1.2	7.7	3	10.7	3.2	7.3

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPRR00101031R82□00	0.82	30	100	0.0090	9.5	7.0	R82
BPRR001010311R0□00	1.0	30	100	0.0110	8.0	5.8	1R0
BPRR001010311R5□00	1.5	30	100	0.0110	8.0	5.8	1R5
BPRR001010312R2□00	2.2	30	100	0.0169	6.7	5.1	2R2
BPRR001010313R3□00	3.3	30	100	0.021	5.56	4.7	3R3
BPRR001010313R6□00	3.6	30	100	0.021	5.56	4.7	3R6
BPRR001010314R7□00	4.7	20,30	100	0.030	4.65	4.0	4R7
BPRR001010315R6□00	5.6	20,30	100	0.033	4.30	3.8	5R6
BPRR001010316R8□00	6.8	20,30	100	0.035	3.84	3.6	6R8
BPRR001010318R2□00	8.2	30	100	0.050	3.54	3.0	8R2
BPRR00101031100□00	10	20,30	100	0.059	3.18	2.8	100
BPRR00101031150□00	15	20,30	100	0.091	2.60	2.05	150
BPRR00101031220□00	22	20,30	100	0.143	2.16	1.60	220
BPRR00101031270□00	27	20,30	100	0.180	1.80	1.40	270
BPRR00101031330□00	33	20,30	100	0.202	1.74	1.35	330
BPRR00101031390□00	39	20,30	100	0.250	1.60	1.30	390
BPRR00101031470□00	47	20,30	100	0.299	1.43	1.20	470
BPRR00101031560□00	56	20,30	100	0.325	1.36	1.15	560
BPRR00101031680□00	68	20,30	100	0.429	1.22	0.95	680
BPRR00101031820□00	82	20,30	100	0.494	1.14	0.80	820
BPRR00101031101□00	100	10,20	100	0.683	1.02	0.70	101
BPRR00101031121□00	120	10,20	100	0.754	0.89	0.65	121
BPRR00101031151□00	150	10,20	100	0.871	0.84	0.51	151
BPRR00101031221□00	220	10,20	100	1.20	0.49	0.50	221

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range - 40℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPRR00101031150□A0	15	20,30	100	0.089	3.4	2.2	150
BPRR00101031330□A0	33	20,30	100	0.18	2.7	1.3	330
BPRR00101031470□A0	47	20,30	100	0.24	2.0	1.0	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPRR001010411R0□00	1.0	30	100	0.0065	10.5	6.8	1R0
BPRR001010411R5□00	1.5	30	100	0.0081	10.0	6.5	1R5
BPRR001010412R2□00	2.2	20,30	100	0.0105	7.5	6.1	2R2
BPRR001010412R5□00	2.5	20,30	100	0.0105	7.5	6.1	2R5
BPRR001010413R3□00	3.3	20,30	100	0.013	6.0	5.5	3R3
BPRR001010413R8□00	3.8	20,30	100	0.013	6.0	5.5	3R8
BPRR001010413R9□00	3.9	20,30	100	0.013	6.0	5.5	3R9
BPRR001010414R4□00	4.4	30	100	0.022	5.8	5.4	4R4
BPRR001010414R7□00	4.7	20,30	100	0.022	5.8	5.4	4R7
BPRR001010415R2□00	5.2	20,30	100	0.022	5.5	5.4	5R2
BPRR001010416R2□00	6.2	30	100	0.027	5.0	4.5	6R2
BPRR001010416R8□00	6.8	20,30	100	0.027	4.8	4.5	6R8
BPRR001010417R0□00	7.0	20,30	100	0.027	4.8	4.5	7R0
BPRR001010418R2□00	8.2	20,30	100	0.030	4.5	4.2	8R2
BPRR00101041100□00	10	20,30	100	0.035	4.4	3.8	100
BPRR00101041110□00	11	20,30	100	0.040	4.0	3.6	110
BPRR00101041120□00	12	20,30	100	0.046	3.7	3.4	120
BPRR00101041150□00	15	20,30	100	0.050	3.6	3.1	150
BPRR00101041180□00	18	20,30	100	0.069	3.1	2.6	180
BPRR00101041220□00	22	20,30	100	0.073	2.9	2.5	220
BPRR00101041270□00	27	20,30	100	0.088	2.6	2.3	270
BPRR00101041330□00	33	20,30	100	0.093	2.3	2.2	330
BPRR00101041390□00	39	20,30	100	0.127	2.2	2.0	390
BPRR00101041470□00	47	20,30	100	0.128	2.1	1.9	470
BPRR00101041560□00	56	20,30	100	0.188	1.65	1.5	560
BPRR00101041680□00	68	20,30	100	0.213	1.50	1.42	680
BPRR00101041820□00	82	20,30	100	0.283	1.45	1.30	820
BPRR00101041101□00	100	10,20	100	0.304	1.35	1.25	101
BPRR00101041121□00	120	10,20	100	0.375	1.20	1.08	121
BPRR00101041151□00	150	10,20	100	0.506	1.15	0.85	151
BPRR00101041181□00	180	10,20	100	0.568	1.00	0.75	181
BPRR00101041221□00	220	10,20	100	0.756	0.92	0.70	221
BPRR00101041271□00	270	10,20	100	0.853	0.84	0.55	271
BPRR00101041331□00	330	10,20	100	1.09	0.70	0.52	331
BPRR00101041471□00	470	10,20	100	1.49	0.55	0.48	471

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

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- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPRR001010411R0□A0	1.0	30	100	0.0055	12	8.8	1R0
BPRR001010411R2□A0	1.2	30	100	0.0055	12	8.8	1R2
BPRR001010411R5□A0	1.5	30	100	0.0066	11	8.4	1R5
BPRR001010411R8□A0	1.8	30	100	0.0072	10.4	8.2	1R8
BPRR001010412R0□A0	2.0	30	100	0.0072	10.4	8.2	2R0
BPRR001010412R2□A0	2.2	20,30	100	0.0072	10.4	8.2	2R2
BPRR001010413R3□A0	3.3	30	100	0.0103	8.0	7.2	3R3
BPRR001010414R7□A0	4.7	30	100	0.0120	5.7	6.5	4R7
BPRR001010415R6□A0	5.6	20,30	100	0.0192	5.5	5.4	5R6
BPRR001010416R8□A0	6.8	20,30	100	0.0204	4.8	5.1	6R8
BPRR00101041100□A0	10	20,30	100	0.0288	4.30	4.3	100
BPRR00101041150□A0	15	20,30	100	0.0445	4.15	3.5	150
BPRR00101041220□A0	22	20,30	100	0.0663	4.0	2.8	220
BPRR00101041330□A0	33	20,30	100	0.101	3.5	2.3	330
BPRR00101041390□A0	39	20,30	100	0.14	3.2	2.1	390
BPRR00101041470□A0	47	20,30	100	0.17	2.8	2.0	470
BPRR00101041560□A0	56	20,30	100	0.20	2.3	1.9	560
BPRR00101041680□A0	68	20	100	0.24	2.1	1.8	680
BPRR00101041101□A0	100	20	100	0.28	1.7	1.7	101
BPRR00101041121□A0	120	20	100	0.33	1.6	1.5	121
BPRR00101041151□A0	150	20	100	0.40	1.4	1.4	151
BPRR00101041331□A0	330	20	100	1.10	0.9	0.7	331

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPRR001010511R2□00	1.2	30	100	0.0058	10.5	8.3	1R2
BPRR001010511R5□00	1.5	30	100	0.0058	10.5	8.3	1R5
BPRR001010511R8□00	1.8	30	100	0.0072	9.25	7.5	1R8
BPRR001010512R2□00	2.2	20,30	100	0.0072	9.25	7.5	2R2
BPRR001010513R3□00	3.3	30	100	0.0104	7.8	6.5	3R3
BPRR001010514R7□00	4.7	20,30	100	0.0123	6.4	6.1	4R7
BPRR001010516R8□00	6.8	20,30	100	0.018	5.4	5.4	6R8
BPRR001010518R2□00	8.2	20,30	100	0.020	4.85	5.0	8R2
BPRR00101051100□00	10	20,30	100	0.026	4.45	4.5	100
BPRR00101051120□00	12	20,30	100	0.033	4.0	3.8	120
BPRR00101051150□00	15	20,30	100	0.041	3.6	3.4	150
BPRR00101051180□00	18	20,30	100	0.046	3.2	3.1	180
BPRR00101051220□00	22	20,30	100	0.061	2.95	2.9	220
BPRR00101051270□00	27	20,30	100	0.069	2.7	2.6	270
BPRR00101051330□00	33	20,30	100	0.084	2.4	2.5	330
BPRR00101051390□00	39	20,30	100	0.106	2.3	2.25	390
BPRR00101051470□00	47	20,30	100	0.130	2.0	2.0	470
BPRR00101051560□00	56	20,30	100	0.149	1.9	1.9	560
BPRR00101051680□00	68	20,30	100	0.201	1.65	1.6	680
BPRR00101051820□00	82	20,30	100	0.227	1.5	1.45	820
BPRR00101051101□00	100	10,20	100	0.253	1.35	1.35	101
BPRR00101051121□00	120	10,20	100	0.303	1.28	1.18	121
BPRR00101051151□00	150	10,20,30	100	0.370	1.12	1.10	151
BPRR00101051181□00	180	10,20	100	0.419	1.04	1.00	181
BPRR00101051221□00	220	10,20	100	0.500	0.94	0.94	221
BPRR00101051271□00	270	10,20	100	0.672	0.84	0.80	271
BPRR00101051331□00	330	10,20	100	0.812	0.75	0.73	331
BPRR00101051391□00	390	10,20	100	0.953	0.70	0.70	391
BPRR00101051471□00	470	10,20	100	1.289	0.60	0.54	471
BPRR00101051561□00	560	10,20	100	1.430	0.54	0.52	561
BPRR00101051681□00	680	10,20	100	1.599	0.52	0.51	681
BPRR00101051821□00	820	10,20	100	1.768	0.50	0.48	821
BPRR00101051102□00	1000	10,20	100	1.989	0.48	0.42	102

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range - 40℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPRR001010511R0□A0	1.0	30	100	0.0072	18	12	1R0
BPRR001010511R2□A0	1.2	30	100	0.0098	15	10	1R2
BPRR001010511R3□A0	1.3	20,30	100	0.0098	15	15	1R3
BPRR001010511R5□A0	1.5	30	100	0.0098	15	10	1R5
BPRR001010511R8□A0	1.8	30	100	0.0107	12.8	9.1	1R8
BPRR001010512R2□A0	2.2	30	100	0.0120.	10.0	8.0	2R2
BPRR001010512R5□A0	2.5	30	100	0.0120	10.0	8.0	2R5
BPRR001010513R3□A0	3.5	30	100	0.0155	7.0	6.5	3R3
BPRR001010513R5□A0	2.2	20,30	100	0.0155	7.0	6.5	3R5
BPRR001010514R7□A0	4.7	20,30	100	0.0160	6.5	6.0	4R7
BPRR001010515R6□A0	5.6	20,30	100	0.0178	6.4	5.6	5R6
BPRR001010516R8□A0	6.8	20,30	100	0.018	6.3	5.4	6R8
BPRR001010518R2□A0	8.2	20,30	100	0.020	6.1	5.2	8R2
BPRR00101051100□A0	10	20,30	100	0.026	6.0	4.3	100
BPRR00101051120□A0	12	20,30	100	0.033	4.5	3.9	120
BPRR00101051150□A0	15	20,30	100	0.041	4.2	3.3	150
BPRR00101051180□A0	18	20,30	100	0.046	3.8	3.1	180
BPRR00101051220□A0	22	20,30	100	0.061	3.4	3.0	220
BPRR00101051270□A0	27	20,30	100	0.069	3.3	2.8	270
BPRR00101051330□A0	33	20,30	100	0.084	2.8	2.6	330
BPRR00101051390□A0	39	20,30	100	0.106	2.65	2.4	390
BPRR00101051470□A0	47	20,30	100	0.130	2.5	2.2	470
BPRR00101051560□A0	56	20,30	100	0.149	2.3	2.0	560
BPRR00101051680□A0	68	20,30	100	0.201	2.1	1.7	680
BPRR00101051820□A0	82	20,30	100	0.227	1.8	1.5	820
BPRR00101051101□A0	100	20,30	100	0.253	1.6	1.4	101
BPRR00101051121□A0	120	20,30	100	0.303	1.5	1.3	121
BPRR00101051151□A0	150	20,30	100	0.35	1.4	1.2	151
BPRR00101051181□A0	180	20,30	100	0.40	1.3	1.1	181
BPRR00101051221□A0	220	20,30	100	0.50	1.0	1.0	221
BPRR00101051102□A0	1000	20	100	1.88	0.5	0.55	102

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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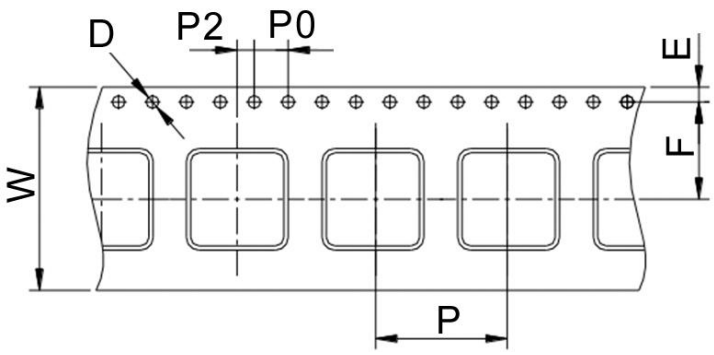
Pulse a YAGEO company

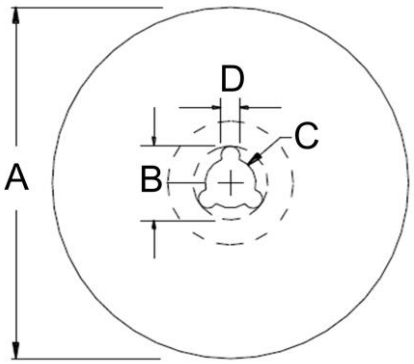
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	W	D	E	F	P	P0	P2	A	B	C	D	PCS / Reel
BPRR00101031	24	1.5	1.75	11.5	16	4	2	330	20	13	2	1000
BPRR00101041	24	1.5	1.75	11.5	16	4	2	330	20	13	2	900
BPRR00101051	24	1.5	1.75	11.5	16	4	2	330	20	13	2	700

BPCI Series

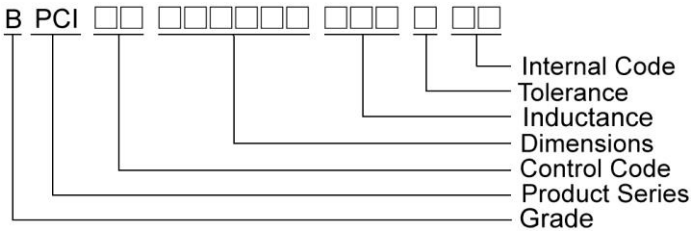
Features

- RoHS, Halogen Free and REACH Compliance
- Magnetic shielded
- Various package size and wide inductance range

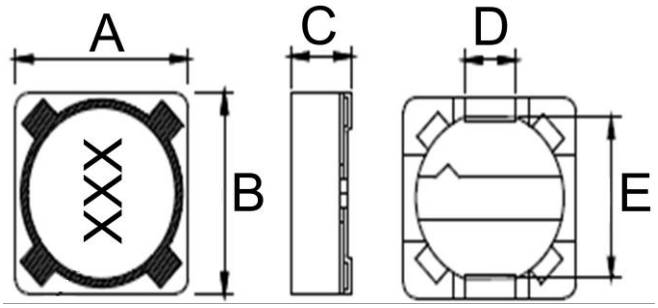
Applications

- AP Routers
- STBs
- LCD TVs and monitors
- Game consoles
- LED lightings
- DC/DC converters

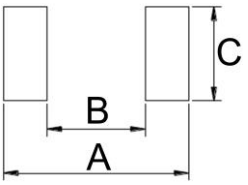
Product Identification



Shape and Dimensions



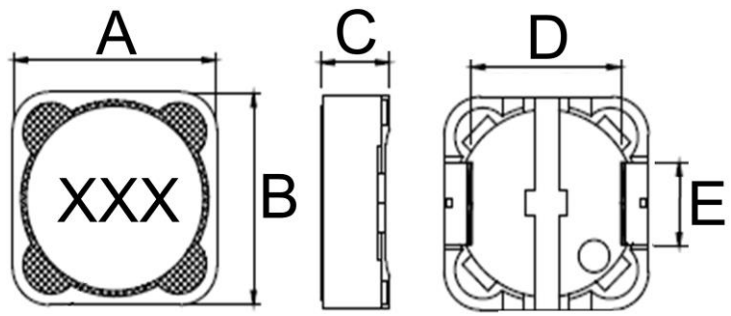
Recommended Pattern



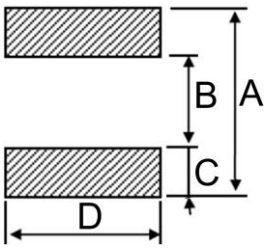
Dimensions in mm

TYPE	Shape and Dimensions					Recommended Pattern		
	A	B	C	D	E	A	B	C
BPCI00070746-00	7.3±0.5	7.3±0.5	4.6Max	2	5.4	8.0	4.8	2.4
BPCI00070746-A0	7.3±0.5	7.3±0.5	4.6Max	2	5.0	8.0	4.8	2.4

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	Shape and Dimensions					Recommended Pattern			
	A	B	C	D	E	A	B	C	D
BPCI00121250	12±0.5	12±0.5	5.0Max	7.6±0.3	5.0±0.2	12.6	7.0	2.8	5.4
BPCI00121260	12±0.5	12±0.5	6.0Max	7.6±0.3	5.0±0.2	12.6	7.0	2.8	5.4
BPCI00121280	12±0.5	12±0.5	8.0Max	7.6±0.3	5.0±0.2	12.6	7.0	2.8	5.4
BPCI00121210	12±0.5	12±0.5	10Max	7.6±0.3	5.0±0.2	12.6	7.0	2.8	5.4

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPCI00070746R33□00	0.33	30	100	0.0087	8.5	R33
BPCI00070746R47□00	0.47	30	100	0.0109	8	R47
BPCI000707461R0□00	1.0	30	100	0.0111	6.8	1R0
BPCI000707461R2□00	1.2	30	100	0.0111	6.8	1R2
BPCI000707461R5□00	1.5	30	100	0.0134	5.7	1R5
BPCI000707461R8□00	1.8	30	100	0.0147	5.0	1R8
BPCI000707462R2□00	2.2	30	100	0.0147	5.0	2R2
BPCI000707463R3□00	3.3	20,30	100	0.0214	4.0	3R3
BPCI000707464R7□00	4.7	20,30	100	0.0310	3.4	4R7
BPCI000707465R6□00	5.6	20,30	100	0.0335	3.0	5R6
BPCI000707466R8□00	6.8	20,30	100	0.035	2.3	6R8
BPCI000707468R2□00	8.2	20,30	100	0.042	2.1	8R2
BPCI00070746100□00	10	20	100	0.049	1.84	100
BPCI00070746120□00	12	20	100	0.058	1.71	120
BPCI00070746150□00	15	20	100	0.081	1.47	150
BPCI00070746180□00	18	20	100	0.091	1.31	180
BPCI00070746220□00	22	20	100	0.11	1.23	220
BPCI00070746270□00	27	20	100	0.15	1.12	270
BPCI00070746330□00	33	20	100	0.20	0.96	330
BPCI00070746390□00	39	20	100	0.23	0.91	390
BPCI00070746470□00	47	20	100	0.26	0.88	470
BPCI00070746560□00	56	20	100	0.35	0.75	560
BPCI00070746680□00	68	20	100	0.38	0.69	680
BPCI00070746820□00	82	20	100	0.43	0.61	820
BPCI00070746101□00	100	20	100	0.61	0.60	101
BPCI00070746121□00	120	20	100	0.66	0.52	121
BPCI00070746151□00	150	20	100	0.88	0.46	151
BPCI00070746181□00	180	20	100	0.98	0.42	181
BPCI00070746221□00	220	20	100	1.17	0.36	221
BPCI00070746271□00	270	20	100	1.64	0.34	271
BPCI00070746331□00	330	20	100	1.86	0.32	331
BPCI00070746391□00	390	20	100	2.85	0.29	391
BPCI00070746471□00	470	20	100	3.01	0.26	471
BPCI00070746561□00	560	20	100	3.62	0.23	561
BPCI00070746681□00	680	20	100	4.63	0.22	681
BPCI00070746821□00	820	20	100	5.2	0.20	821
BPCI00070746102□00	1000	20	100	6.0	0.18	102

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current : Based on inductance change (△L/Lo：drop 35% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：40℃ Typ.)

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPCI000707461R5□A0	1.5	30	100	0.0089	7.0	6.6	1R5
BPCI000707461R8□A0	1.8	30	100	0.0105	6.7	5.9	1R8
BPCI000707462R2□A0	2.2	30	100	0.0126	6.5	5.0	2R2
BPCI000707463R3□A0	3.3	20,30	100	0.0169	5.9	4.8	3R3
BPCI000707464R7□A0	4.7	20,30	100	0.0235	4.5	4.2	4R7
BPCI000707466R8□A0	6.8	20,30	100	0.0282	4.3	4.0	6R8
BPCI00070746100□A0	10	20,30	100	0.0489	3.2	3.0	100
BPCI00070746150□A0	15	20,30	100	0.0637	2.48	2.11	150
BPCI00070746220□A0	22	20,30	100	0.0925	2.13	1.75	220
BPCI00070746270□A0	27	20,30	100	0.115	1.95	1.59	270
BPCI00070746330□A0	33	20	100	0.143	1.73	1.41	330
BPCI00070746470□A0	47	20	100	0.216	1.41	1.15	470
BPCI00070746560□A0	56	20,30	100	0.260	1.30	1.14	560
BPCI00070746680□A0	68	20	100	0.291	1.20	1.12	680
BPCI00070746101□A0	100	20	100	0.383	0.99	0.86	101
BPCI00070746151□A0	150	20	100	0.58	0.83	0.80	151
BPCI00070746181□A0	180	20,30	100	0.77	0.80	0.73	181
BPCI00070746221□A0	220	20,30	100	0.92	0.78	0.65	221
BPCI00070746331□A0	330	20	100	1.41	0.54	0.45	331
BPCI00070746471□A0	470	20	100	2.44	0.49	0.40	471
BPCI00070746102□A0	1000	20	100	3.89	0.31	0.27	102

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPCI001212101R0□00	1.0	30	100	0.0055	19.9	11.6	1R0
BPCI001212101R8□00	1.8	30	100	0.0065	13.4	11.0	1R8
BPCI001212102R0□00	2.0	30	100	0.0070	12.9	10.7	2R0
BPCI001212102R2□00	2.2	20,30	100	0.0070	12.9	10.7	2R2
BPCI001212102R5□00	2.5	30	100	0.0080	12.16	10.3	2R5
BPCI001212103R5□00	3.5	30	100	0.0097	12.0	8.70	3R5
BPCI001212103R6□00	3.6	30	100	0.0100	12.0	8.70	3R6
BPCI001212104R7□00	4.7	20,30	100	0.0110	11.0	8.40	4R7
BPCI001212105R8□00	5.8	30	100	0.0113	10.5	7.60	5R8
BPCI001212106R8□00	6.8	20,30	100	0.0115	10.0	7.10	6R8
BPCI001212107R5□00	7.5	20,30	100	0.0140	8.48	6.80	7R5
BPCI001212108R2□00	8.2	20,30	100	0.0160	8.30	6.70	8R2
BPCI00121210100□00	10	20,30	100	0.0170	8.20	6.95	100
BPCI00121210120□00	12	20,30	100	0.0185	7.04	6.20	120
BPCI00121210150□00	15	20,30	100	0.025	5.80	5.22	150
BPCI00121210220□00	22	20,30	100	0.029	5.12	4.95	220
BPCI00121210330□00	33	20,30	100	0.053	4.25	3.60	330
BPCI00121210470□00	47	20,30	100	0.063	3.60	3.45	470
BPCI00121210560□00	56	20,30	100	0.068	2.85	2.95	560
BPCI00121210680□00	68	20,30	100	0.093	2.76	2.85	680
BPCI00121210820□00	82	30	100	0.099	2.62	2.60	820
BPCI00121210850□00	85	30	100	0.120	2.60	2.60	850
BPCI00121210101□00	100	20	100	0.126	2.31	2.45	101
BPCI00121210121□00	120	20	100	0.154	2.05	2.20	121
BPCI00121210151□00	150	20	100	0.174	1.80	1.90	151
BPCI00121210181□00	180	20	100	0.191	1.66	1.86	181
BPCI00121210221□00	220	20	100	0.246	1.64	1.72	221
BPCI00121210331□00	330	20	100	0.386	1.28	1.28	331
BPCI00121210391□00	390	20	100	0.440	1.20	1.27	391
BPCI00121210471□00	470	20	100	0.471	1.06	1.25	471
BPCI00121210561□00	560	20	100	0.650	1.01	0.98	561
BPCI00121210681□00	680	20	100	0.730	0.83	0.96	681
BPCI00121210821□00	820	20	100	0.824	0.81	0.94	821
BPCI00121210102□00	1000	20	100	1.22	0.70	0.78	102
BPCI00121210122□00	1200	20	100	1.33	0.64	0.79	122
BPCI00121210152□00	1500	20	100	1.99	0.56	0.58	152
BPCI00121210182□00	1800	20	100	2.18	0.48	0.54	182
BPCI00121210222□00	2200	20	100	2.58	0.43	0.52	222
BPCI00121210332□00	3300	20	100	4.6	0.30	0.40	332

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 25% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPCI001212106R8□A0	6.8	20,30	100	0.0140	12.8	8.4	6R8
BPCI00121210100□A0	10	20,30	100	0.0183	11.5	7.5	100
BPCI00121210150□A0	15	20,30	100	0.0280	8.6	6.0	150
BPCI00121210330□A0	33	20	100	0.0450	5.5	4.2	330
BPCI00121210470□A0	47	20	100	0.0600	4.5	3.8	470
BPCI00121210560□A0	56	20	100	0.0700	4.0	3.4	560
BPCI00121210680□A0	68	20	100	0.0885	3.6	3.2	680
BPCI00121210101□A0	100	20	100	0.110	3.1	2.5	101
BPCI00121210221□A0	220	20	100	0.270	2.5	1.8	221
BPCI00121210271□A0	270	20	100	0.330	2.1	1.6	271
BPCI00121210301□A0	300	20	100	0.340	1.8	1.45	301
BPCI00121210331□A0	330	20	100	0.340	1.8	1.45	331
BPCI00121210681□A0	680	20,30	100	0.675	1.6	1.25	681
BPCI00121210821□A0	820	20	100	1.00	1.1	0.85	821

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPCI001212503R0□00	3.0	20,30	100	0.015	7.0	3R0
BPCI001212503R3□00	3.3	30	100	0.015	7.0	3R3
BPCI001212503R9□00	3.9	30	100	0.015	6.5	3R9
BPCI001212504R2□00	4.2	30	100	0.016	6.5	4R2
BPCI001212504R7□00	4.7	20,30	100	0.018	5.7	4R7
BPCI001212506R8□00	6.8	20,30	100	0.023	4.9	6R8
BPCI001212508R2□00	8.2	30	100	0.026	4.6	8R2
BPCI00121250100□00	10	20,30	100	0.028	4.5	100
BPCI00121250120□00	12	20,30	100	0.038	4.0	120
BPCI00121250150□00	15	20,30	100	0.050	3.2	150
BPCI00121250180□00	18	20,30	100	0.057	3.1	180
BPCI00121250220□00	22	20,30	100	0.066	2.9	220
BPCI00121250270□00	27	20,30	100	0.080	2.8	270
BPCI00121250330□00	33	20,30	100	0.097	2.7	330
BPCI00121250390□00	39	20,30	100	0.132	2.1	390
BPCI00121250470□00	47	20,30	100	0.15	1.9	470
BPCI00121250560□00	56	20,30	100	0.19	1.8	560
BPCI00121250680□00	68	20,30	100	0.22	1.5	680
BPCI00121250820□00	82	20,30	100	0.26	1.3	820
BPCI00121250101□00	100	20,30	100	0.308	1.2	101
BPCI00121250121□00	120	20,30	100	0.38	1.1	121
BPCI00121250151□00	150	20,30	100	0.53	0.95	151
BPCI00121250181□00	180	20,30	100	0.62	0.85	181
BPCI00121250221□00	220	20,30	100	0.70	0.8	221
BPCI00121250271□00	270	20,30	100	0.87	0.6	271
BPCI00121250331□00	330	20,30	100	0.99	0.5	331

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current : Based on inductance change (△L/Lo：drop 10% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：40℃ Typ.)

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPCI001212504R7□A0	4.7	20,30	100	0.017	9.0	7.0	4R7
BPCI001212505R6□A0	5.6	20,30	100	0.020	8.0	6.1	5R6
BPCI00121250100□A0	10	20,30	100	0.0307	6.5	5.0	100
BPCI00121250150□A0	15	20,30	100	0.0425	5.2	4.6	150
BPCI00121250180□A0	18	20,30	100	0.0450	4.9	4.5	180
BPCI00121250220□A0	22	20,30	100	0.0583	4.5	4.3	220
BPCI00121250330□A0	33	20,30	100	0.0845	3.6	3.0	330
BPCI00121250470□A0	47	20,30	100	0.15	3.0	2.5	470
BPCI00121250151□A0	150	20,30	100	0.37	1.7	1.6	151

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPCI001212802R4□00	2.4	30	100	0.015	6.5	2R4
BPCI001212602R7□00	2.7	30	100	0.015	6.5	2R7
BPCI001212603R3□00	3.3	20,30	100	0.017	6.0	3R3
BPCI001212603R9□00	3.9	30	100	0.018	5.7	3R9
BPCI001212604R7□00	4.7	20,30	100	0.020	5.0	4R7
BPCI001212606R8□00	6.8	30	100	0.023	4.3	6R8
BPCI001212608R2□00	8.2	20,30	100	0.024	4.2	8R2
BPCI00121260100□00	10	20,30	100	0.025	4.0	100
BPCI00121260120□00	12	20,30	100	0.027	3.5	120
BPCI00121260150□00	15	20,30	100	0.030	3.3	150
BPCI00121260180□00	18	20,30	100	0.034	3.0	180
BPCI00121260220□00	22	20,30	100	0.036	2.8	220
BPCI00121260270□00	27	20,30	100	0.051	2.3	270
BPCI00121260330□00	33	20,30	100	0.057	2.1	330
BPCI00121260390□00	39	20,30	100	0.068	2.0	390
BPCI00121260470□00	47	20,30	100	0.075	1.8	470
BPCI00121260560□00	56	20,30	100	0.11	1.7	560
BPCI00121260680□00	68	20,30	100	0.12	1.5	680
BPCI00121260820□00	82	20,30	100	0.14	1.4	820
BPCI00121260101□00	100	10,20	100	0.16	1.3	101
BPCI00121260121□00	120	10,20	100	0.17	1.1	121
BPCI00121260151□00	150	10,20	100	0.23	1.0	151
BPCI00121260181□00	180	10,20	100	0.29	0.9	181
BPCI00121260221□00	220	10,20	100	0.40	0.8	221
BPCI00121260271□00	270	10,20	100	0.46	0.75	271
BPCI00121260331□00	330	10,20	100	0.51	0.68	331
BPCI00121260391□00	390	10,20	100	0.69	0.65	391
BPCI00121260471□00	470	10,20	100	0.77	0.58	471
BPCI00121260561□00	560	10,20	100	0.86	0.54	561
BPCI00121260681□00	680	10,20	100	1.20	0.48	681
BPCI00121260821□00	820	10,20	100	1.34	0.43	821
BPCI00121260102□00	1000	10,20	100	1.53	0.40	102

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current : Based on inductance change (△L/Lo：drop 10% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：40℃ Typ.)

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPCI001212801R0□00	1.0	30	100	0.0070	9.8	1R0
BPCI001212801R2□00	1.2	30	100	0.0070	9.8	1R2
BPCI001212802R2□00	2.2	20,30	100	0.0115	8.0	2R2
BPCI001212802R4□00	2.4	20,30	100	0.0115	8.0	2R4
BPCI001212802R5□00	2.5	20,30	100	0.0115	8.0	2R5
BPCI001212803R3□00	3.3	20,30	100	0.0135	7.5	3R3
BPCI001212803R5□00	3.5	20,30	100	0.0135	7.5	3R5
BPCI001212804R6□00	4.6	30	100	0.0158	6.8	4R6
BPCI001212804R7□00	4.7	20,30	100	0.0158	6.8	4R7
BPCI001212805R6□00	5.6	20,30	100	0.0176	6.6	5R6
BPCI001212806R1□00	6.1	20,30	100	0.0176	6.6	6R1
BPCI001212806R4□00	6.4	20,30	100	0.0190	6.3	6R4
BPCI001212806R8□00	6.8	20,30	100	0.0190	6.3	6R8
BPCI001212807R6□00	7.6	20,30	100	0.0200	5.9	7R6
BPCI00121280100□00	10	20,30	100	0.0216	5.4	100
BPCI00121280120□00	12	20,30	100	0.0243	4.9	120
BPCI00121280150□00	15	20,30	100	0.0270	4.5	150
BPCI00121280180□00	18	20,30	100	0.0392	3.9	180
BPCI00121280220□00	22	20,30	100	0.0432	3.6	220
BPCI00121280270□00	27	20,30	100	0.0459	3.4	270
BPCI00121280330□00	33	20,30	100	0.0648	3.0	330
BPCI00121280390□00	39	20,30	100	0.0729	2.75	390
BPCI00121280470□00	47	20,30	100	0.10	2.50	470
BPCI00121280560□00	56	20,30	100	0.11	2.35	560
BPCI00121280680□00	68	20,30	100	0.14	2.10	680
BPCI00121280750□00	75	20,30	100	0.15	2.00	750
BPCI00121280820□00	82	20,30	100	0.16	1.95	820
BPCI00121280101□00	100	10,20	100	0.22	1.70	101
BPCI00121280121□00	120	10,20	100	0.25	1.60	121
BPCI00121280151□00	150	10,20	100	0.28	1.42	151
BPCI00121280181□00	180	10,20	100	0.35	1.30	181
BPCI00121280201□00	200	20	100	0.39	1.16	201
BPCI00121280221□00	220	10,20	100	0.39	1.16	221
BPCI00121280271□00	270	10,20	100	0.56	1.06	271
BPCI00121280331□00	330	10,20	100	0.64	0.95	331
BPCI00121280391□00	390	10,20	100	0.70	0.88	391

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current : Based on inductance change (△L/Lo：drop 10% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：40℃ Typ.)

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPCI00121280471□00	470	10,20	100	0.98	0.79	471
BPCI00121280561□00	560	10,20	100	1.07	0.73	561
BPCI00121280681□00	680	10,20	100	1.46	0.67	681
BPCI00121280821□00	820	10,20	100	1.64	0.60	821
BPCI00121280102□00	1000	10,20	100	1.82	0.55	102
BPCI00121280152□00	1500	10,20	10	2.48	0.45	152
BPCI00121280202□00	2000	10,20	10	3.0	0.42	202
BPCI00121280242□00	2400	10,20	10	3.5	0.40	242
BPCI00121280252□00	2500	10,20	10	3.5	0.40	252
BPCI00121280332□00	3300	10,20	10	5.2	0.35	332
BPCI00121280472□00	4700	10,20	10	5.7	0.30	472
BPCI00121280103□00	10000	10	10	19.2	0.20	103

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current : Based on inductance change (△L/Lo：drop 10% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：40℃ Typ.)

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

SMD Shielded Power Inductors – BPCI Series

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPCI001212801R0□A0	1.0	30	100	0.0055	18	15	1R0
BPCI001212802R2□A0	2.2	30	100	0.0062	16	13	2R2
BPCI001212803R3□A0	3.3	30	100	0.0135	13.5	7.5	3R3
BPCI001212804R5□A0	4.5	20,30	100	0.0158	11.5	6.8	4R5
BPCI001212804R7□A0	4.7	20,30	100	0.0158	11.5	6.8	4R7
BPCI001212805R6□A0	5.6	20,30	100	0.0168	10.5	6.7	5R6
BPCI001212806R5□A0	6.5	20,30	100	0.0176	9.5	6.6	6R5
BPCI001212806R8□A0	6.8	20,30	100	0.0176	9.5	6.6	6R8
BPCI00121280100□A0	10	20,30	100	0.216	7.8	5.4	100
BPCI00121280120□A0	12	20,30	100	0.0243	7.3	4.9	120
BPCI00121280130□A0	13	20,30	100	0.0243	7.3	4.9	130
BPCI00121280150□A0	15	20,30	100	0.0270	6.5	4.5	150
BPCI00121280180□A0	18	20,30	100	0.0392	6.0	3.9	180
BPCI00121280220□A0	22	20,30	100	0.0432	5.3	3.6	220
BPCI00121280270□A0	27	20,30	100	0.0531	4.8	3.3	270
BPCI00121280330□A0	33	20,30	100	0.0648	4.3	3.0	330
BPCI00121280390□A0	39	20,30	100	0.071	4.1	2.8	390
BPCI00121280470□A0	47	20,30	100	0.10	3.8	2.5	470
BPCI00121280560□A0	56	20,30	100	0.11	3.4	2.35	560
BPCI00121280680□A0	68	20,30	100	0.14	3.1	2.10	680
BPCI00121280820□A0	82	20,30	100	0.16	2.7	1.95	820
BPCI00121280101□A0	100	20,30	100	0.22	2.5	1.70	101
BPCI00121280121□A0	120	20,30	100	0.25	2.3	1.60	121
BPCI00121280151□A0	150	20,30	100	0.28	2.0	1.42	151
BPCI00121280181□A0	180	20,30	100	0.35	1.9	1.30	181
BPCI00121280201□A0	200	20,30	100	0.37	1.8	1.23	201
BPCI00121280221□A0	220	20,30	100	0.39	1.7	1.16	221
BPCI00121280271□A0	270	20,30	100	0.51	1.6	1.06	271
BPCI00121280281□A0	280	20,30	100	0.51	1.6	1.06	281
BPCI00121280331□A0	330	20,30	100	0.64	1.4	0.95	331
BPCI00121280391□A0	390	20,30	100	0.70	1.3	0.88	391
BPCI00121280471□A0	470	20,30	100	0.98	1.1	0.79	471
BPCI00121280561□A0	560	20,30	100	1.03	1.05	0.75	561
BPCI00121280681□A0	680	20	100	1.10	1.0	0.70	681
BPCI00121280801□A0	800	20	100	1.29	0.9	0.67	801
BPCI00121280821□A0	820	20	100	1.29	0.9	0.67	821

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPCI00121280102□A0	1000	20	100	1.53	0.85	0.64	102
BPCI00121280112□A0	1100	20	100	1.66	0.82	0.62	112
BPCI00121280122□A0	1200	20	100	1.80	0.80	0.60	122
BPCI00121280132□A0	1300	20	100	1.93	0.76	0.58	132
BPCI00121280142□A0	1400	10,20	100	2.1	0.73	0.56	142
BPCI00121280152□A0	1500	20	100	2.2	0.70	0.55	152
BPCI00121280182□A0	1800	20	10	2.5	0.65	0.50	182
BPCI00121280202□A0	2000	20	10	2.7	0.62	0.48	202
BPCI00121280222□A0	2200	20	10	2.9	0.59	0.46	222
BPCI00121280242□A0	2400	20	10	3.2	0.58	0.45	242
BPCI00121280282□A0	2800	20	10	3.6	0.53	0.42	282
BPCI00121280332□A0	3300	20	10	4.1	0.48	0.39	332
BPCI00121280392□A0	3900	20	10	4.7	0.45	0.37	392
BPCI00121280472□A0	4700	20	10	5.3	0.42	0.36	472
BPCI00121280622□A0	6200	10,20	10	7.1	0.33	0.30	622
BPCI00121280682□A0	6800	20	10	7.2	0.30	0.28	682
BPCI00121280103□A0	10000	20	10	14.2	0.15	0.15	103

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

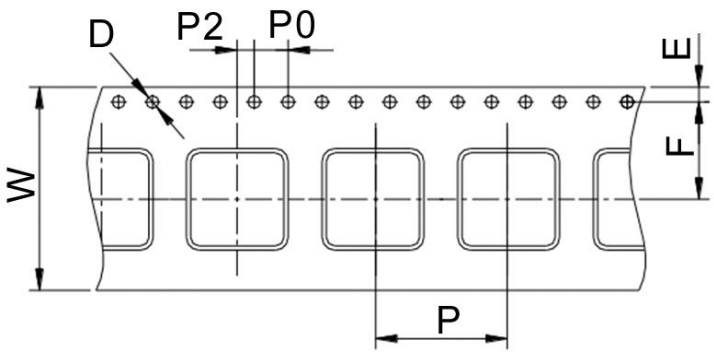
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

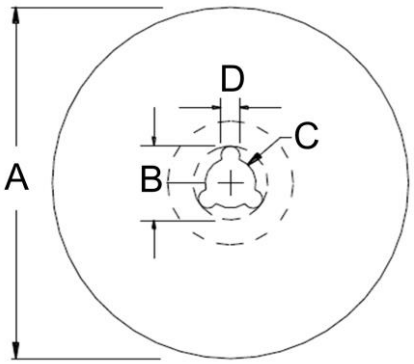
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



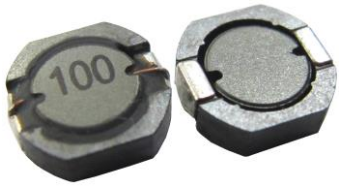
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	W	D	E	F	P	P0	P2	A	B	C	D	PCS / Reel
BPCI00070746	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
BPCI00121250	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500
BPCI00121260	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500
BPCI00121280	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500
BPCI00121210	24	1.5	1.75	11.5	24	4	2	330	20	13	2	250

BPSS Series



The BPSS Series is designed for low profile type with low RDC and large current. The magnetic shielding supports high – density mounting. This series also provides working – frequency up to 1MHz.

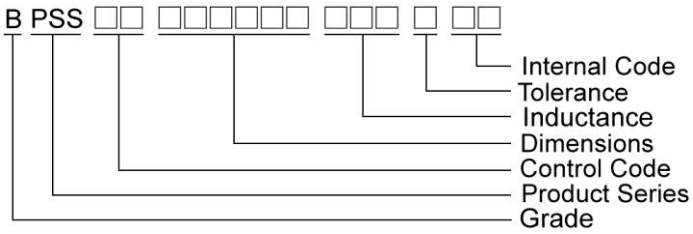
Features

- RoHS compliant
- Low Rdc and high saturation current for portable DC to DC converter line
- High magnetic shielding construction provides high resolution for EMC protection
- Support lead-free soldering

Applications

- Notebook PC
- Set top box
- LCD TV
- LCD displays
- Portable communication device
- DC/DC converters

Product Identification



Shape and Dimensions

FIG 1

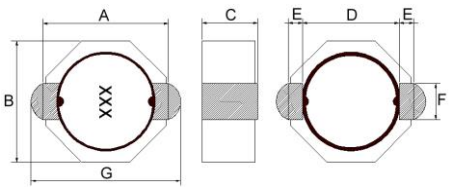
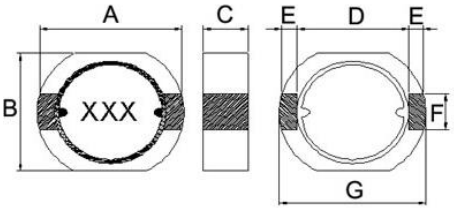
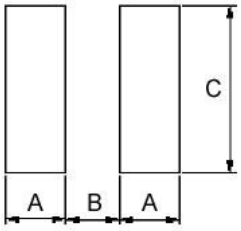


FIG 2



Recommended Pattern



Dimensions in mm

TYPE	Shape and Dimensions								Recommended Pattern		
	FIG	A	B	C	D	E	F	G	A	B	C
BPSS00050522	1	5.2±0.3	5.0±0.3	2.2Max	4.0	0.6	1.5	6.2Max	1.5	3.2	1.5
BPSS00080725	2	7.5±0.3	7.4±0.3	2.5Max	5.6	1.2	2.5	8.7Max	1.5	5.4	2.8
BPSS00080740	2	7.5±0.3	7.4±0.3	4.0Max	5.6	1.2	2.5	9.2Max	1.5	5.4	2.8

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)	Irms (A)
BPSS000505221R2□00	1.2	30	100	25	4.3	3.43
BPSS000505221R8□00	1.8	30	100	32	3.6	3.12
BPSS000505223R3□00	3.3	30	100	54	2.5	2.68
BPSS000505224R7□00	4.7	30	100	81	2.0	2.18
BPSS00050522100□00	10	20,30	100	160	1.4	1.51
BPSS00050522220□00	22	20,30	100	320	0.9	1.02
BPSS00050522330□00	33	20,30	100	490	0.77	0.80

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

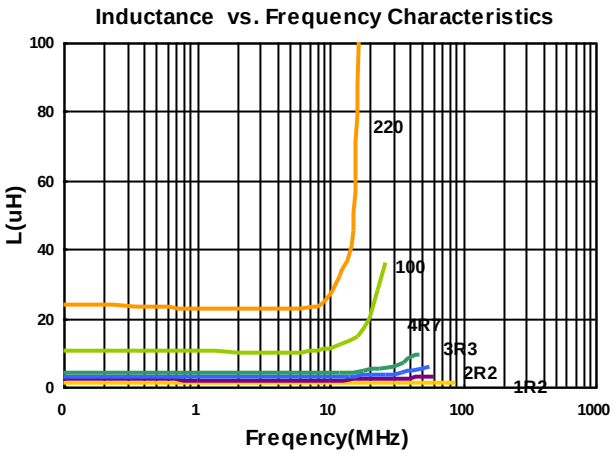
- Operating temperature range - 40℃~105℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

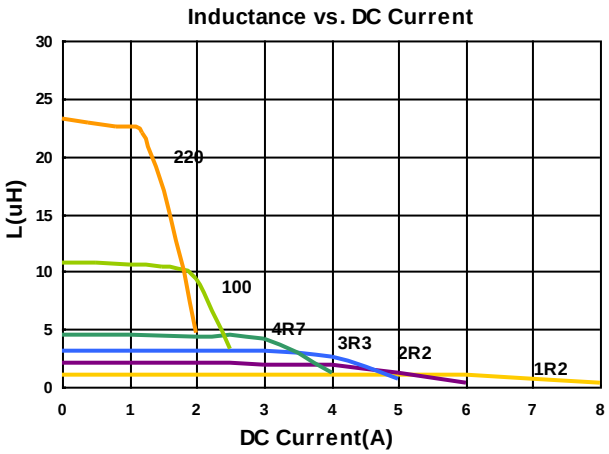
  L：HP4284A.+Aglient 16334A , 100kHz/ 1V

  RDC：Chroma 16502

  Isat：HP4284A+HP42841A or WK3260B+WK3265B

  Irms：Agilent 6641 SYSTEM DC POWER SUPPLY





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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)	Irms (A)
BPSS000807251R0□00	1.0	30	100	14.28	8.3	6.22
BPSS000807251R5□00	1.5	30	100	19.70	7.2	5.00
BPSS000807252R2□00	2.2	30	100	24.09	5.4	4.40
BPSS000807253R3□00	3.3	30	100	41.20	4.4	3.70
BPSS000807254R7□00	4.7	30	100	49.70	4.0	3.20
BPSS000807255R6□00	5.6	20,30	100	58.90	3.9	2.90
BPSS000807256R8□00	6.8	20,30	100	66.30	3.5	2.70
BPSS00080725100□00	10	20,30	100	92.40	2.8	1.90
BPSS00080725150□00	15	20,30	100	170.0	2.3	1.70
BPSS00080725220□00	22	20,30	100	210.0	1.5	1.52
BPSS00080725330□00	33	20,30	100	320.0	1.4	1.10
BPSS00080725470□00	47	20,30	100	490.0	1.2	0.95

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃~105℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

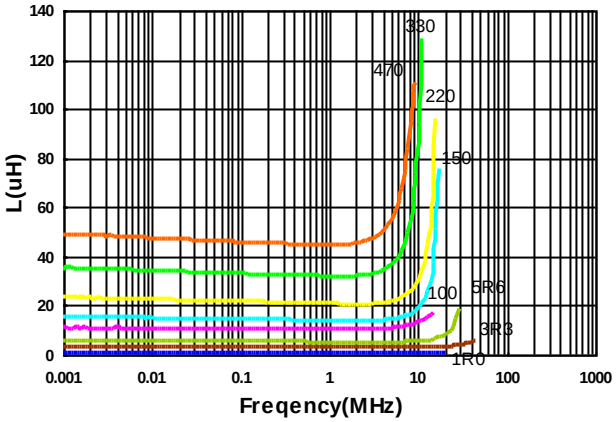
  L：HP4284A.+Aglient 16334A , 100kHz/ 1V

  RDC：Chroma 16502

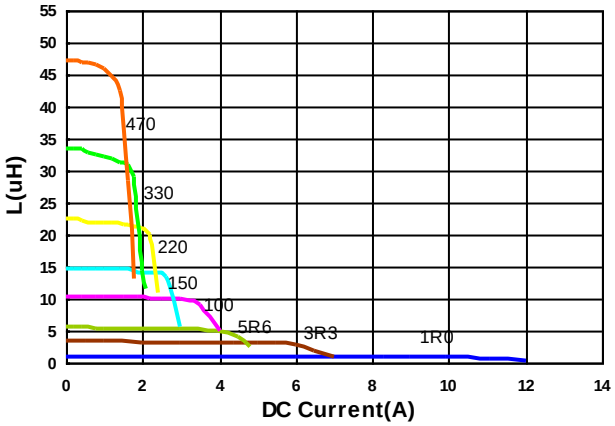
  Isat：HP4284A+HP42841A or WK3260B+WK3265B

  Irms：Agilent 6641 SYSTEM DC POWER SUPPLY

Inductance vs. Frequency Characteristics



Inductance vs. DC Current



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Pulse a YAGEO company

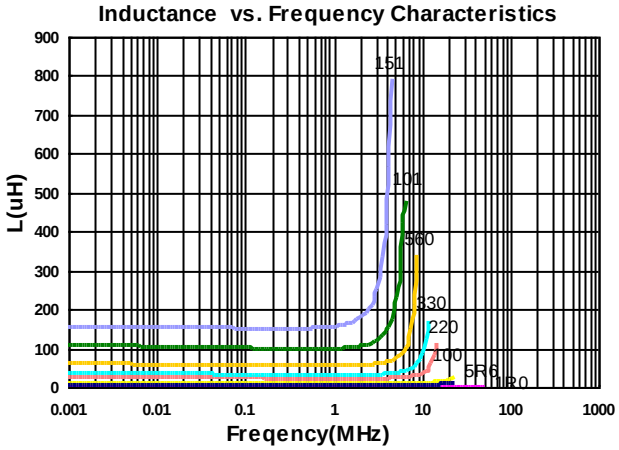
CHILISIN ELECTRONICS CORP.

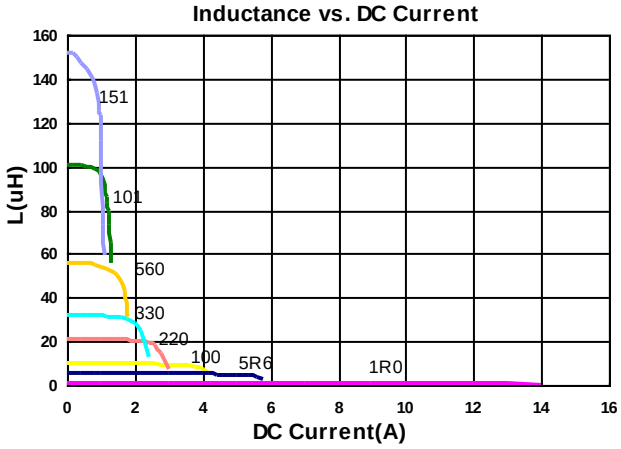
Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat(A) Max(Typ)	Irms (A)
BPSS000807401R0□00	1.0	30	100	6.38	(8.0)12	9.00
BPSS000807401R5□00	1.5	30	100	8.64	(7.0)10	8.00
BPSS000807401R8□00	1.8	30	100	9.60	(6.5)8.6	7.92
BPSS000807402R5□00	2.5	30	100	13.6	(4.8)7.2	7.40
BPSS000807403R3□00	3.3	30	100	17.8	(3.9)6.8	6.70
BPSS000807404R7□00	4.7	20,30	100	26.6	(3.5)4.6	4.90
BPSS000807405R6□00	5.6	20,30	100	29.0	(3.3)4.1	4.60
BPSS000807406R8□00	6.8	20,30	100	34.0	(3.2)3.9	3.90
BPSS00080740100□00	10	20,30	100	55.6	(2.5)3.4	3.25
BPSS00080740150□00	15	20,30	100	74.4	(2.1)3.0	2.70
BPSS00080740220□00	22	20,30	100	98.1	(1.7)2.4	2.40
BPSS00080740330□00	33	20,30	100	140	(1.4)2.0	1.90
BPSS00080740470□00	47	20,30	100	217	(1.2)1.7	1.48
BPSS00080740560□00	56	20,30	100	260	(1.0)1.5	1.33
BPSS00080740680□00	68	20,30	100	310	(0.95)1.36	1.20
BPSS00080740820□00	82	20,30	100	360	(0.9)1.20	1.12
BPSS00080740101□00	100	20,30	100	480	(0.85)1.12	0.95
BPSS00080740121□00	120	20,30	100	560	(0.75)1.00	0.89
BPSS00080740151□00	150	20,30	100	710	(0.65)0.92	0.82

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃~105℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
  L：HP4284A.+Aglient 16334A , 100kHz/ 1V
  RDC：Chroma 16502
  Isat：HP4284A+HP42841A or WK3260B+WK3265B
  Irms：Agilent 6641 SYSTEM DC POWER SUPPLY





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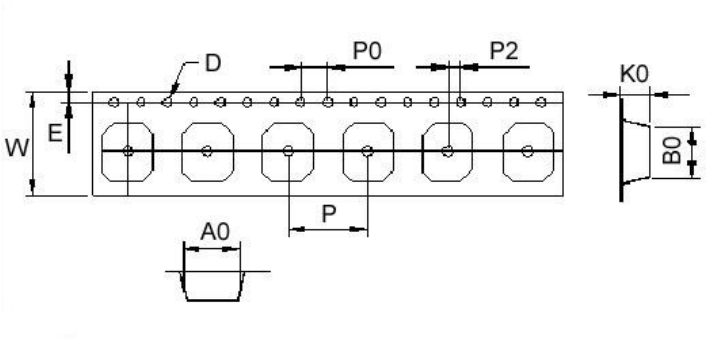
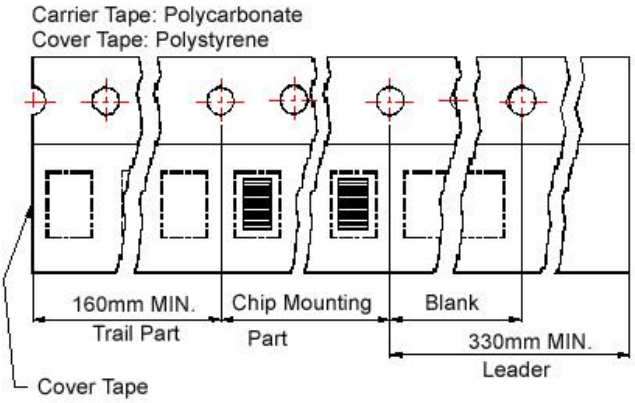
Packaging Specifications

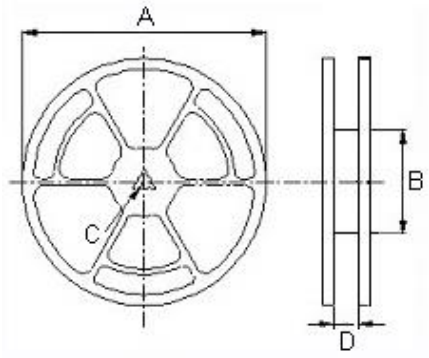
Tape Dimensions



Tape Material



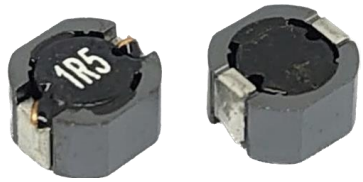
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
BPSS00050522	5.25	6.25	2.4	1.55	1.75	12	8	4	2	330	100	13	13.4	2000
BPSS00080725	7.6	8.65	2.8	1.55	1.75	16	12	4	2	330	100	13	16	1500
BPSS00080740	7.6	9.0	4.3	1.55	1.75	16	12	4	2	330	100	13	16	1000

BPAL Series



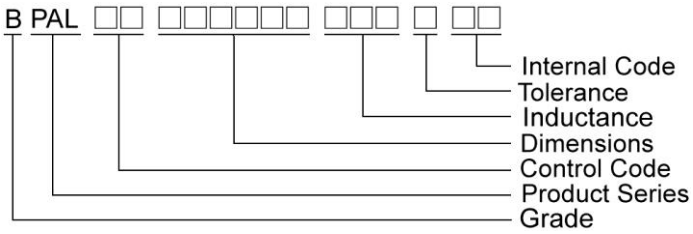
Features

- RoHS compliant
- Low Rdc and high saturation current for portable DC to DC converter line
- High magnetic shielding construction provides high resolution for EMC protection
- Support lead-free soldering

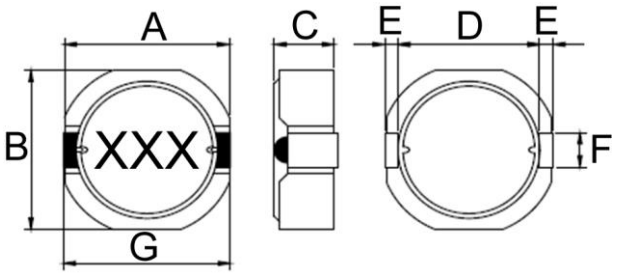
Applications

- Notebook PC
- Set top box
- LCD TV
- LCD displays
- Portable communication device
- DC/DC converters

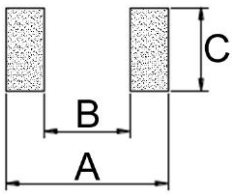
Product Identification



Shape and Dimensions



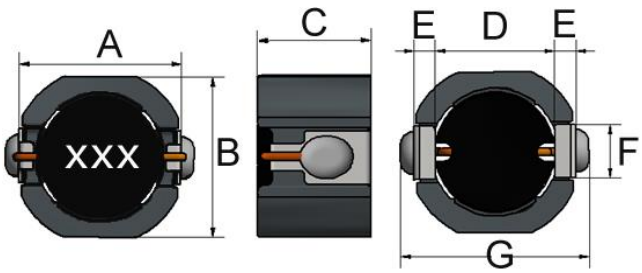
Recommended Pattern



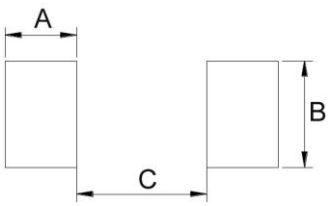
Dimensions in mm

TYPE	Shape and Dimensions							Recommended Pattern		
	A	B	C	D	E	F	G	A	B	C
BPAL00060630	6.3Max	6.2Max	3.0Max	4.8	0.6	2.0	6.4Max	6.6	4.6	2.6

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	Shape and Dimensions							Recommended Pattern		
	A	B	C	D	E	F	G	A	B	C
BPAL00060645	6.2±0.3	6.0±0.3	4.5±0.3	4.6	0.8	2.0	7.2Max	1.5	2.2	4
BPAL00060645-0E	6.2±0.3	6.0±0.3	4.5±0.3	4.6	0.8	2.0	6.7Max	1.5	2.2	4
BPAL00080845	7.5±0.5	7.5±0.5	4.5Max	5.6	1.0	2.5	9.5Max	2.0	2.8	5.4

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) Max	Isat (A)Max	Irms (A)Typ	Marking
BPAL000606301R0□00	1.0	20,30	100	0.014	3.59	5.32	1R0
BPAL000606301R5□00	1.5	30	100	0.016	2.93	4.45	1R5
BPAL000606302R2□00	2.2	30	100	0.020	2.42	4.13	2R2
BPAL000606303R3□00	3.3	20,30	100	0.026	1.89	3.54	3R3
BPAL000606303R6□00	3.6	30	100	0.026	1.89	3.54	3R6
BPAL000606304R7□00	4.7	30	100	0.033	1.66	3.03	4R7
BPAL000606306R2□00	6.2	30	100	0039	1.45	2.69	6R2
BPAL000606306R8□00	6.8	20,30	100	0.041	1.40	2.60	6R8
BPAL000606308R2□00	8.2	20,30	100	0.049	1.20	2.50	8R2
BPAL00060630100□00	10	20,30	100	0.059	1.14	2.25	100
BPAL00060630120□00	12	20,30	100	0.063	1.04	2.12	120
BPAL00060630150□00	15	20,30	100	0.075	0.93	2.04	150
BPAL00060630180□00	18	20,30	100	0.089	0.85	1.86	180
BPAL00060630220□00	22	20,30	100	0.115	0.77	1.58	220
BPAL00060630270□00	27	20,30	100	0.144	0.70	1.35	270
BPAL00060630330□00	33	20,30	100	0.168	0.63	1.19	330
BPAL00060630390□00	39	20,30	100	0.180	0.58	1.16	390
BPAL00060630470□00	47	20,30	100	0.225	0.53	1.05	470
BPAL00060630560□00	56	20,30	100	0.264	0.48	0.97	560
BPAL00060630680□00	68	20,30	100	0.324	0.44	0.87	680
BPAL00060630820□00	82	20,30	100	0.396	0.40	0.76	820
BPAL00060630101□00	100	20,30	100	0.498	0.36	0.69	101
BPAL00060630151□00	150	20,30	100	0.738	0.31	0.52	151
BPAL00060630221□00	220	20,30	100	1.4	0.28	0.45	221
BPAL00060630331□00	330	20,30	100	2.1	0.18	0.42	331

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) Max	Isat (A)Max	Irms (A)Typ	Marking
BPAL000606302R2□AE	2.2	30	100	24.8	5.5	3.8	2R2
BPAL000606303R3□AE	3.3	30	100	20.3	2.3	2.3	3R3
BPAL000606304R7□AE	4.7	30	100	43.1	3.7	2.8	4R7
BPAL000606305R6□AE	5.6	30	100	47.9	3.3	2.7	5R6
BPAL00060630100□AE	10	20,30	100	93	3.0	2.05	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)	Isat (A)Max	Irms (A)Typ	Marking
BPAL000606451R0□00	1.0	30	100	0.011±30%	6.7	4.8	1R0
BPAL000606451R5□00	1.5	30	100	0.013±30%	5.5	4.5	1R5
BPAL000606452R2□00	2.2	30	100	0.015±30%	4.2	4.1	2R2
BPAL000606453R3□00	3.3	30	100	0.019±30%	3.5	3.7	3R3
BPAL000606454R7□00	4.7	30	100	0.023±30%	3.1	3.3	4R7
BPAL000606456R8□00	6.8	30	100	0.027±30%	2.5	3.1	6R8
BPAL00060645100□00	10	20,30	100	0.035±20%	2.1	2.6	100
BPAL00060645150□00	15	20,30	100	0.060±20%	1.7	2.0	150
BPAL00060645220□00	22	20,30	100	0.075±20%	1.4	1.8	220
BPAL00060645330□00	33	20,30	100	0.10±20%	1.1	1.6	330
BPAL00060645470□00	47	20,30	100	0.13±20%	0.97	1.4	470
BPAL00060645680□00	68	20,30	100	0.20±20%	0.81	1.1	680
BPAL00060645101□00	100	20,30	100	0.32±20%	0.61	0.86	101

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)	Isat (A)Max	Irms (A)Typ	Marking
BPAL000606451R0□09	1.0	30	100	0.011±30%	6.7	4.8	●1R0
BPAL000606451R5□09	1.5	30	100	0.013±30%	5.5	4.5	●1R5
BPAL000606452R2□09	2.2	30	100	0.015±30%	4.2	4.1	●2R2
BPAL000606453R3□09	3.3	30	100	0.019±30%	3.5	3.7	●3R3
BPAL000606454R7□09	4.7	30	100	0.023±30%	3.1	3.3	●4R7
BPAL000606456R8□09	6.8	30	100	0.027±30%	2.5	3.1	●6R8
BPAL00060645100□09	10	20,30	100	0.035±20%	2.1	2.6	●100
BPAL00060645150□09	15	20,30	100	0.060±20%	1.7	2.0	●150
BPAL00060645220□09	22	20,30	100	0.075±20%	1.4	1.8	●220
BPAL00060645330□09	33	20,30	100	0.10±20%	1.1	1.6	●330
BPAL00060645470□09	47	20,30	100	0.13±20%	0.97	1.4	●470
BPAL00060645680□09	68	20,30	100	0.20±20%	0.81	1.1	●680
BPAL00060645101□09	100	20,30	100	0.32±20%	0.61	0.86	●101

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)	Isat1 (A)Typ	Isat2 (A)Max	Irms (A)Typ	Marking
BPAL000606451R5□0E	1.5	20,30	100	0.016±30%	4.0	-	4.1	1R5
BPAL00060645330□0E	33	20,30	100	0.10±20%	1.1	-	1.6	330
BPAL00060645331□0E	330	20,30	100	1.59 Max	0.47	-	0.45	331
BPAL00060645471□0E	470	20,30	100	1.68±20%	-	0.27	0.27	471
BPAL00060645222□0E	2200	20,30	100	16 Max	0.08	-	0.1	222

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat1 for Inductance drop 10% from its value without current
- Isat2 for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat1, Isat2 or Irms

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)±30%	Isat (A)Max	Irms (A)Typ	Marking
BPAL000808451R5□00	1.5	20,30	100	0.0065	9.0	8.0	1R5
BPAL000808452R2□00	2.2	30	100	0.00863	7.3	6.5	2R2
BPAL000808453R3□00	3.3	20,30	100	0.0114	6.0	6.0	3R3
BPAL000808454R7□00	4.7	20,30	100	0.0145	5.2	5.4	4R7
BPAL000808456R8□00	6.8	20,30	100	0.0192	4.0	4.38	6R8
BPAL00080845100□00	10	20,30	100	0.02894	3.5	3.5	100
BPAL00080845150□00	15	20,30	100	0.03747	2.9	3.0	150
BPAL00080845180□00	18	20,30	100	0.05143	2.7	2.8	180
BPAL00080845220□00	22	20,30	100	0.05432	2.4	2.6	220
BPAL00080845330□00	33	20,30	100	0.08248	2.1	2.0	330
BPAL00080845470□00	47	20,30	100	0.110	1.6	1.8	470
BPAL00080845680□00	68	20,30	100	0.165	1.4	1.4	680
BPAL00080845101□00	100	20,30	100	0.33	1.2	1.1	101
BPAL00080845331□00	330	20,30	100	1.13	0.7	0.55	331

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)	Isat1 (A)Max	Isat2 (A)Max	Irms (A)Typ	Marking
BPAL000808451R5□0E	1.5	30	100	0.011±20%	7.3	-	4.9	1R5
BPAL000808451R5□0F	1.5	30	100	0.010±30%	-	6.3	8.6	1R5
BPAL000808452R2□0E	2.2	30	100	0.013±30%	-	6.2	6.3	2R2
BPAL000808453R3□0E	3.3	20,30	100	0.019±20%	6.0	-	4.5	3R3
BPAL000808454R7□0E	4.7	20,30	100	0.020±20%	4.1	-	3.6	4R7
BPAL000808454R7□0F	4.7	30	100	0.018±30%	-	4.1	4.8	4R7
BPAL000808456R8□0E	6.8	20,30	100	0.027±20%	3.3	-	3.0	6R8
BPAL00080845100□0E	10	20,30	100	0.038±20%	2.7	-	2.5	100
BPAL00080845151□0E	150	20,30	100	0.43±20%	-	0.69	0.95	151

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat 1 for Inductance drop 20% from its value without current
- Isat 2 for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat1,Isat2 or Irms

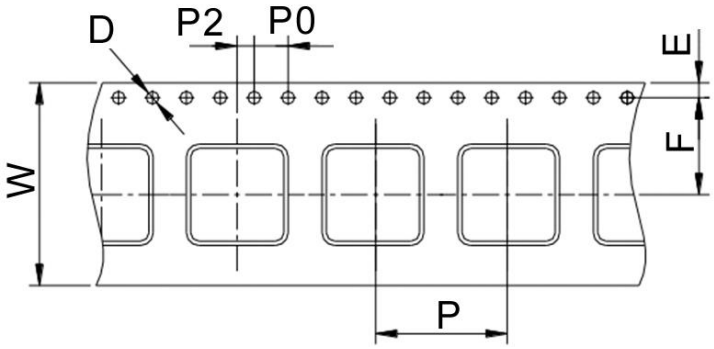
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

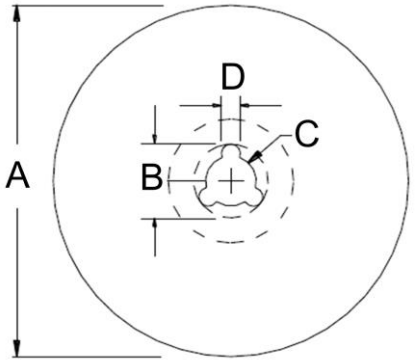
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	W	D	E	F	P	P0	P2	A	B	C	D	PCS / Reel
BPAL00060630	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1500
BPAL00060645	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
BPAL00080845	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000

BPAS Series

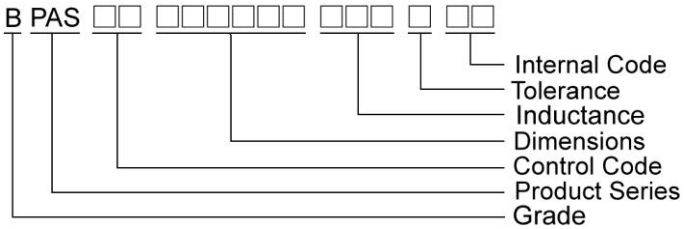
Features

- RoHS compliant
- Low Rdc and high saturation current for portable DC to DC converter line
- High magnetic shielding construction provides high resolution for EMC protection
- Support lead-free soldering

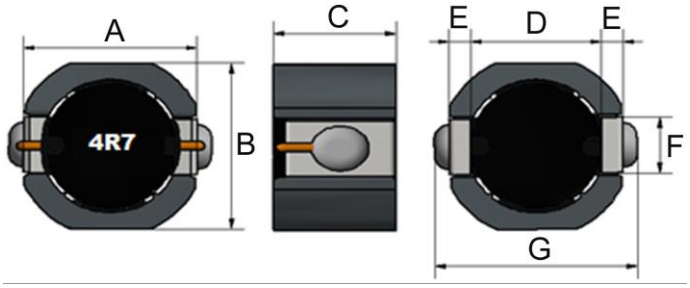
Applications

- Notebook PC
- Set top box
- LCD TV
- LCD displays
- Portable communication device
- DC/DC converters

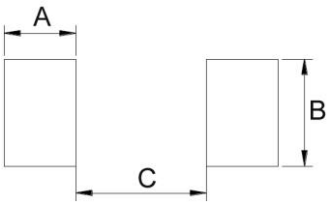
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	Shape and Dimensions							Recommended Pattern		
	A	B	C	D	E	F	G	A	B	C
BPAS00080845	7.5±0.5	7.5±0.5	4.5Max	5.6	1.0	2.0	9.5Max	2.4	2.2	3.3

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)	Isat (A)Max	Irms (A)Typ	Marking
BPAS000808451R0□00	1.0	30	100	0.009±30%	8.5	11	1R0
BPAS000808451R5□00	1.5	30	100	0.010±30%	6.3	8.6	1R5
BPAS000808452R2□00	2.2	30	100	0.013±30%	6.2	6.3	2R2
BPAS000808453R3□00	3.3	30	100	0.016±30%	4.7	6.0	3R3
BPAS000808454R7□00	4.7	30	100	0.018±30%	4.1	4.8	4R7
BPAS000808456R8□00	6.8	30	100	0.022±30%	3.1	4.1	6R8
BPAS00080845100□00	10	20,30	100	0.033±20%	3.0	3.4	100
BPAS00080845150□00	15	20,30	100	0.055±20%	2.3	2.8	150
BPAS00080845220□00	22	20,30	100	0.069±20%	1.7	2.4	220
BPAS00080845270□00	27	20,30	100	0.083±20%	1.65	2.1	330
BPAS00080845330□00	33	20,30	100	0.097±20%	1.60	1.9	330
BPAS00080845470□00	47	20,30	100	0.13±20%	1.26	1.6	470
BPAS00080845680□00	68	20,30	100	0.17±20%	1.08	1.3	680
BPAS00080845101□00	100	20,30	100	0.26±20%	0.81	1.1	101
BPAS00080845151□00	150	20,30	100	0.43±20%	0.69	0.95	151

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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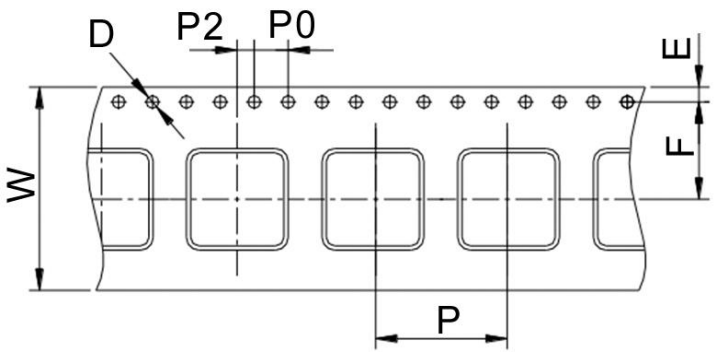
Pulse a YAGEO company

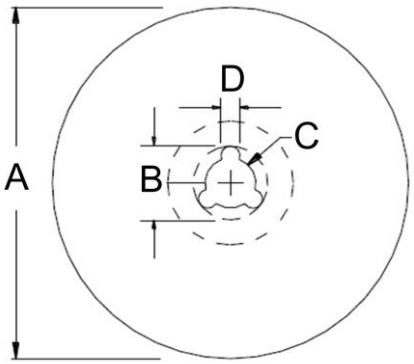
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	W	D	E	F	P	P0	P2	A	B	C	D	PCS / Reel
BPAS00080845	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000

BPCS Series

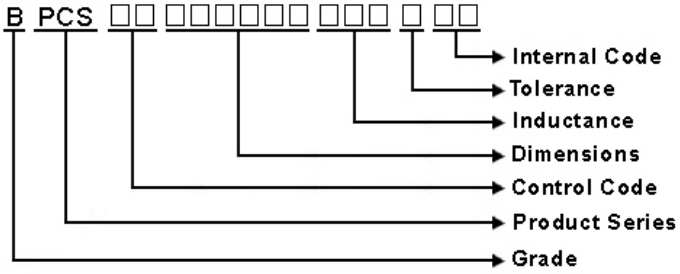
Features

- RoHS compliant
- Low Rdc and high saturation current for portable DC to DC converter line
- High magnetic shielding construction provides high resolution for EMC protection
- Support lead-free soldering

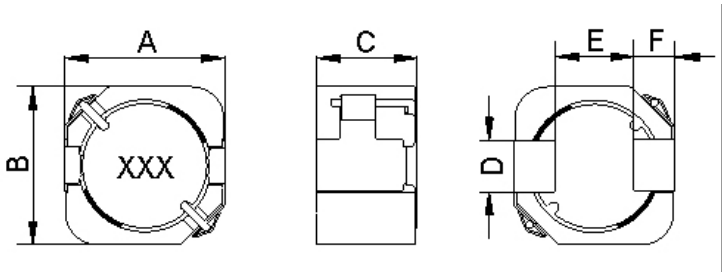
Applications

- Notebook PC
- Set top box
- LCD TV
- LCD displays
- Portable communication device
- DC/DC converters

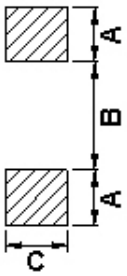
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPCS00101065	10.3±0.3	10.0±0.3	6.5Max	3.5	4.5	2.65	3.3	4.3	3.7
BPCS00121280	12.5±0.4	12.3±0.4	8.0Max	4.0	6.3	3.15	4.5	6.0	4.3

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Marking
BPCS001010652R2□A0	2.2	30	100kHz,0.25V	7.1±30%	11.00	8.50	2R2
BPCS001010653R3□A0	3.3	30	100kHz,0.25V	8.5±30%	8.40	8.10	3R3
BPCS001010654R7□A0	4.7	30	100kHz,0.25V	11±30%	8.00	7.00	4R7
BPCS001010656R8□A0	6.8	30	100kHz,0.25V	13±30%	6.50	6.60	6R8
BPCS00101065100□A0	10	20,30	100kHz,0.25V	17±20%	5.00	5.80	100
BPCS00101065150□A0	15	20,30	100kHz,0.25V	30±20%	4.40	4.10	150
BPCS00101065220□A0	22	20,30	100kHz,0.25V	43±20%	3.60	3.30	220
BPCS00101065330□A0	33	20,30	100kHz,0.25V	61±20%	3.10	2.90	330
BPCS00101065470□A0	47	20,30	100kHz,0.25V	74±20%	2.35	2.60	470
BPCS00101065680□A0	68	20,30	100kHz,0.25V	91±20%	2.05	2.40	680
BPCS00101065101□A0	100	20,30	100kHz,0.25V	150±20%	1.65	1.90	101
BPCS00101065151□A0	150	20,30	100kHz,0.25V	240±20%	1.35	1.50	151
BPCS00101065221□A0	220	20,30	100kHz,0.25V	350±20%	1.10	1.20	221
BPCS00101065331□A0	330	20,30	100kHz,0.25V	445±20%	0.90	1.10	331
BPCS00101065471□A0	470	20,30	100kHz,0.25V	600±20%	0.75	0.90	471

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
  L: HP4284A PRECISION LCR METER (or equivalent) RDC：Chroma 16502
  RDC: CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
  Isat:WK3255BQ+ WK3265B (or equivalent)
  Irms: WK3255BQ+ WK3265B (or equivalent)

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Marking
BPCS001212801R5□A0	1.5	30	100kHz,0.25V	5.5±30%	23.50	10.50	1R5
BPCS001212802R2□A0	2.2	30	100kHz,0.25V	6.3±30%	20.00	9.70	2R2
BPCS001212803R3□A0	3.3	30	100kHz,0.25V	7.7±30%	15.00	9.50	3R3
BPCS001212804R7□A0	4.7	30	100kHz,0.25V	8.7±30%	13.00	9.00	4R7
BPCS001212806R8□A0	6.8	30	100kHz,0.25V	10±20%	9.70	8.50	6R8
BPCS00121280100□A0	10	20,30	100kHz,0.25V	12±20%	9.20	7.70	100
BPCS00121280150□A0	15	20,30	100kHz,0.25V	24±20%	7.40	5.10	150
BPCS00121280220□A0	22	20,30	100kHz,0.25V	27±20%	5.80	4.50	220
BPCS00121280330□A0	33	20,30	100kHz,0.25V	52±20%	4.50	3.60	330
BPCS00121280470□A0	47	20,30	100kHz,0.25V	66±20%	4.20	3.20	470
BPCS00121280680□A0	68	20,30	100kHz,0.25V	90±20%	3.60	2.70	680
BPCS00121280101□A0	100	20,30	100kHz,0.25V	110±20%	2.90	2.60	101
BPCS00121280151□A0	150	20,30	100kHz,0.25V	170±20%	2.40	2.10	151
BPCS00121280221□A0	220	20,30	100kHz,0.25V	280±20%	1.95	1.60	221
BPCS00121280331□A0	330	20,30	100kHz,0.25V	410±20%	1.60	1.25	331
BPCS00121280471□A0	470	20,30	100kHz,0.25V	590±20%	1.30	1.10	471

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
  L: HP4284A PRECISION LCR METER (or equivalent) RDC：Chroma 16502
  RDC: CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
  Isat:WK3255BQ+ WK3265B (or equivalent)
  Irms: WK3255BQ+ WK3265B (or equivalent)

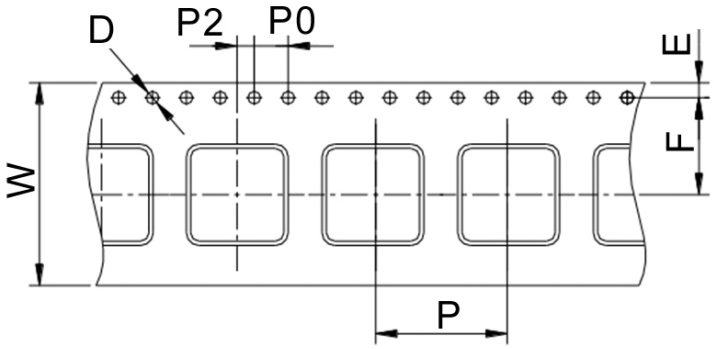
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

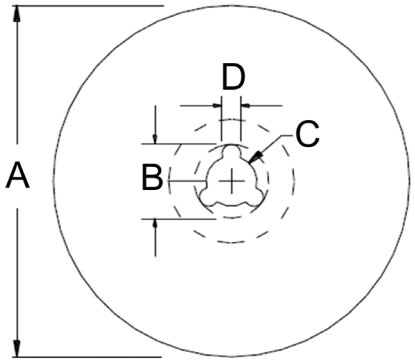
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	W	D	E	F	P	P0	P2	A	B	C	D	PCS / Reel
BPCS00101065	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500
BPCS00121280	24	1.5	1.75	11.5	16	4	2	330	20	13	2	400

BPCA Series

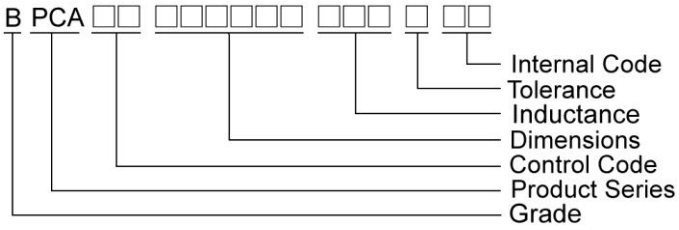
Features

- RoHS, Halogen Free and REACH Compliance
- Shielded power inductor

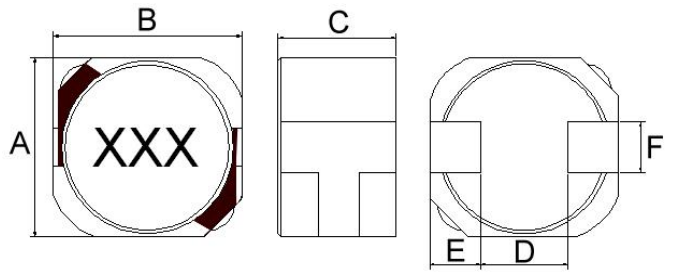
Applications

- Thin-screen TVs
- LCDs
- AV equipment
- STBs
- LED lights

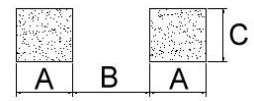
Product Identification



Shape and Dimensions



Recommended Pattern

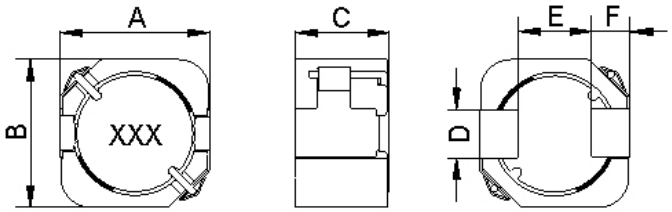


Dimensions in mm

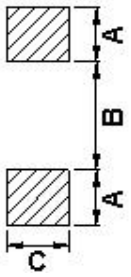
TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPCA00060645	6.0±0.2	6.3±0.2	4.6±0.3	2.9	1.7±0.1	2.0±0.1	2.1	2.8	2.2
BPCA00070745	7.0±0.2	7.4±0.2	4.5±0.3	3.4	2.0±0.1	2.0±0.1	2.4	3.3	2.2

SMD Shielded Power Inductors - BPCA Series

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPCA00101065	10.3±0.3	10.0±0.3	6.5Max	3.5	4.5	2.65	3.3	4.3	3.7
BPCA00121280	12.5±0.4	12.3±0.4	8.0Max	4.0	6.3	3.15	4.5	6.0	4.3

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Pulse a YAGEO company

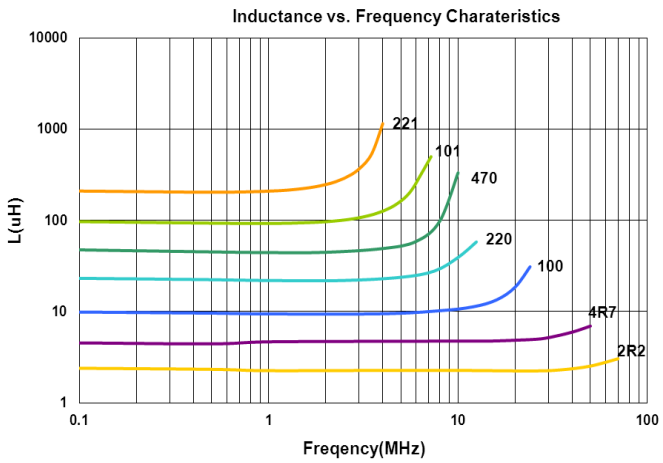
CHILISIN ELECTRONICS CORP.

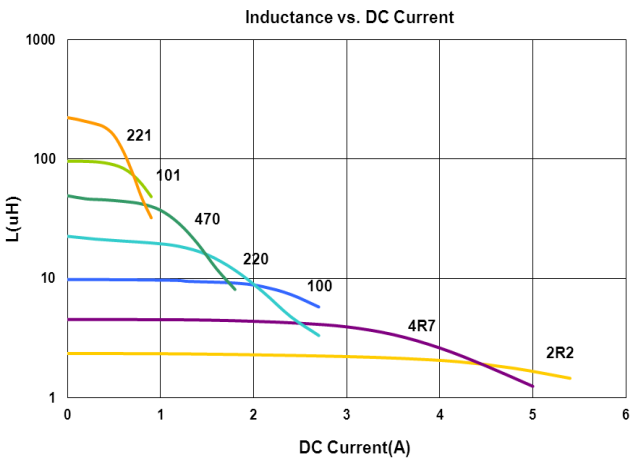
Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) Max	Isat (A) Typ(Max)	Irms (A)	Marking
BPCA000606451R0□00	1.0	30	100	0.0143	6.7(6.0)	4.8	1R0
BPCA000606451R5□00	1.5	30	100	0.0169	5.5(5.2)	4.5	1R5
BPCA000606452R2□00	2.2	30	100	0.0195	4.2(3.6)	4.1	2R2
BPCA000606453R3□00	3.3	30	100	0.0247	3.5(3.2)	3.7	3R3
BPCA000606454R7□00	4.7	30	100	0.0299	3.1(2.5)	3.3	4R7
BPCA000606456R8□00	6.8	30	100	0.0351	2.8(2.0)	3.1	6R8
BPCA00060645100□00	10	20	100	0.042	2.1(1.7)	2.6	100
BPCA00060645150□00	15	20	100	0.072	1.7(1.4)	2.0	150
BPCA00060645220□00	22	20	100	0.09	1.4(1.1)	1.8	220
BPCA00060645330□00	33	20	100	0.12	1.1(0.9)	1.6	330
BPCA00060645470□00	47	20	100	0.156	0.97(0.78)	1.4	470
BPCA00060645680□00	68	20	100	0.24	0.81(0.65)	1.1	680
BPCA00060645101□00	100	20	100	0.384	0.61(0.55)	0.86	101
BPCA00060645151□00	150	20	100	0.576	0.53(0.46)	0.72	151
BPCA00060645221□00	220	20	100	0.864	0.47(0.36)	0.57	221
BPCA00060645331□00	330	20	100	1.104	0.36(0.28)	0.49	331
BPCA00060645471□00	470	20	100	1.56	0.28(0.25)	0.41	471

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- The actual use current is suggested not to be out of Isat*80%
- Irms for a 40℃ temprature rise from 25℃ ambient.
- Measure Equipment：
  L：HP4284+42841A, 100kHz/ 1V
  RDC：Chroma 16502
  Isat：HP4284+42841A





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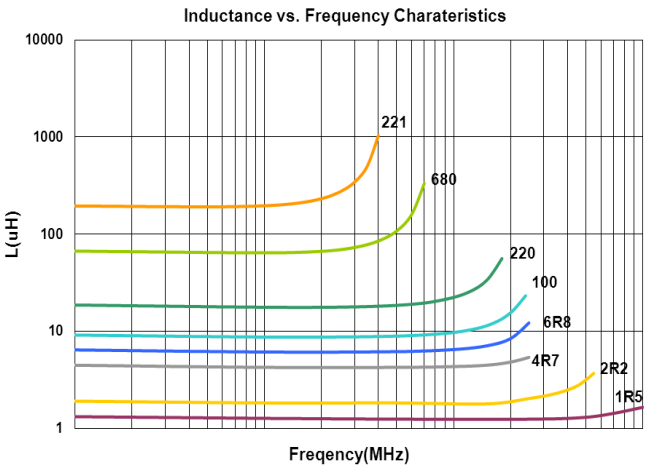
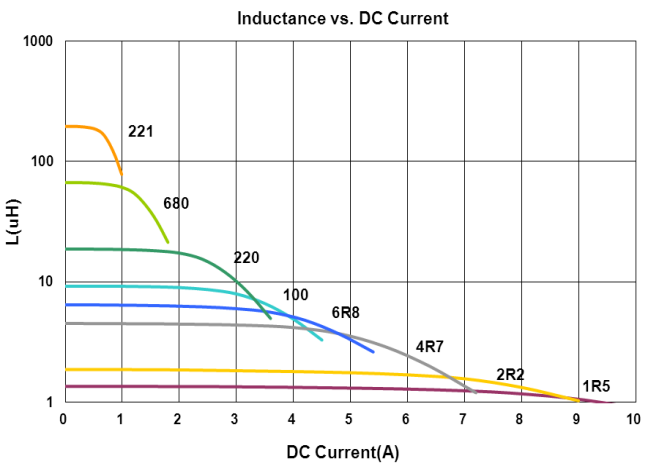
Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) Max	Isat (A) Typ(Max)	Irms (A)	Marking
BPCA000707451R0□00	1.0	30	100	0.0117	9.3(7.6)	6.5	1R0
BPCA000707451R5□00	1.5	30	100	0.013	7.8(6.2)	5.4	1R5
BPCA000707452R2□00	2.2	30	100	0.0169	7.3(6.0)	5.1	2R2
BPCA000707453R3□00	3.3	30	100	0.0208	5.8(4.6)	4.8	3R3
BPCA000707454R7□00	4.7	30	100	0.0234	4.8(4.0)	4.1	4R7
BPCA000707456R8□00	6.8	30	100	0.0264	3.6(3.0)	3.9	6R8
BPCA00070745100□00	10	20	100	0.0396	3.2(2.6)	3.1	100
BPCA00070745150□00	15	20	100	0.066	2.4(2.0)	2.6	150
BPCA00070745220□00	22	20	100	0.0828	2.1(1.6)	2.2	220
BPCA00070745330□00	33	20	100	0.116	1.6(1.3)	1.8	330
BPCA00070745470□00	47	20	100	0.156	1.3(1.1)	1.7	470
BPCA00070745680□00	68	20	100	0.204	1.08(0.95)	1.5	680
BPCA00070745101□00	100	20	100	0.312	0.9(0.8)	1.05	101
BPCA00070745151□00	150	20	100	0.516	0.8(0.65)	0.95	151
BPCA00070745221□00	220	20	100	0.66	0.7(0.54)	0.75	221
BPCA00070745331□00	330	20	100	0.96	0.55(0.45)	0.58	331
BPCA00070745471□00	470	20	100	1.44	0.45(0.37)	0.46	471

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- The actual use current is suggested not to be out of Isat*80%
- Irms for a 40℃ temprature rise from 25℃ ambient.
- Measure Equipment：
  L：HP4284+42841A, 100kHz/ 1V
  RDC：Chroma 16502
  Isat：HP4284+42841A





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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Marking
BPCA001010652R2□A0	2.2	30	100kHz,0.25V	7.1±30%	11.00	8.50	2R2
BPCA001010653R3□A0	3.3	30	100kHz,0.25V	8.5±30%	8.40	8.10	3R3
BPCA001010654R7□A0	4.7	30	100kHz,0.25V	11±30%	8.00	7.00	4R7
BPCA001010656R8□A0	6.8	30	100kHz,0.25V	13±30%	6.50	6.60	6R8
BPCA00101065100□A0	10	20,30	100kHz,0.25V	17±20%	5.00	5.80	100
BPCA00101065150□A0	15	20,30	100kHz,0.25V	30±20%	4.40	4.10	150
BPCA00101065220□A0	22	20,30	100kHz,0.25V	43±20%	3.60	3.30	220
BPCA00101065330□A0	33	20,30	100kHz,0.25V	61±20%	3.10	2.90	330
BPCA00101065470□A0	47	20,30	100kHz,0.25V	74±20%	2.35	2.60	470
BPCA00101065680□A0	68	20,30	100kHz,0.25V	91±20%	2.05	2.40	680
BPCA00101065101□A0	100	20,30	100kHz,0.25V	150±20%	1.65	1.90	101
BPCA00101065151□A0	150	20,30	100kHz,0.25V	240±20%	1.35	1.50	151
BPCA00101065221□A0	220	20,30	100kHz,0.25V	350±20%	1.10	1.20	221
BPCA00101065331□A0	330	20,30	100kHz,0.25V	445±20%	0.90	1.10	331
BPCA00101065471□A0	470	20,30	100kHz,0.25V	600±20%	0.75	0.90	471

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
  L: HP4284+42841A,
  RDC: Chroma 16502
  Isat:WK3255BQ+ WK3265B
  Irms: WK3255BQ+ WK3265B

Standard Specifications

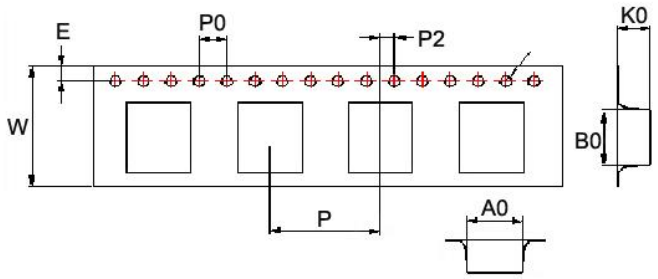
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Marking
BPCA001212801R5□A0	1.5	30	100kHz,0.25V	5.5±30%	23.50	10.50	1R5
BPCA001212802R2□A0	2.2	30	100kHz,0.25V	6.3±30%	20.00	9.70	2R2
BPCA001212803R3□A0	3.3	30	100kHz,0.25V	7.7±30%	15.00	9.50	3R3
BPCA001212804R7□A0	4.7	30	100kHz,0.25V	8.7±30%	13.00	9.00	4R7
BPCA001212806R8□A0	6.8	30	100kHz,0.25V	10±20%	9.70	8.50	6R8
BPCA00121280100□A0	10	20,30	100kHz,0.25V	12±20%	9.20	7.70	100
BPCA00121280150□A0	15	20,30	100kHz,0.25V	24±20%	7.40	5.10	150
BPCA00121280220□A0	22	20,30	100kHz,0.25V	27±20%	5.80	4.50	220
BPCA00121280330□A0	33	20,30	100kHz,0.25V	52±20%	4.50	3.60	330
BPCA00121280470□A0	47	20,30	100kHz,0.25V	66±20%	4.20	3.20	470
BPCA00121280680□A0	68	20,30	100kHz,0.25V	90±20%	3.60	2.70	680
BPCA00121280101□A0	100	20,30	100kHz,0.25V	110±20%	2.90	2.60	101
BPCA00121280151□A0	150	20,30	100kHz,0.25V	170±20%	2.40	2.10	151
BPCA00121280221□A0	220	20,30	100kHz,0.25V	280±20%	1.95	1.60	221
BPCA00121280331□A0	330	20,30	100kHz,0.25V	410±20%	1.60	1.25	331
BPCA00121280471□A0	470	20,30	100kHz,0.25V	590±20%	1.30	1.10	471

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

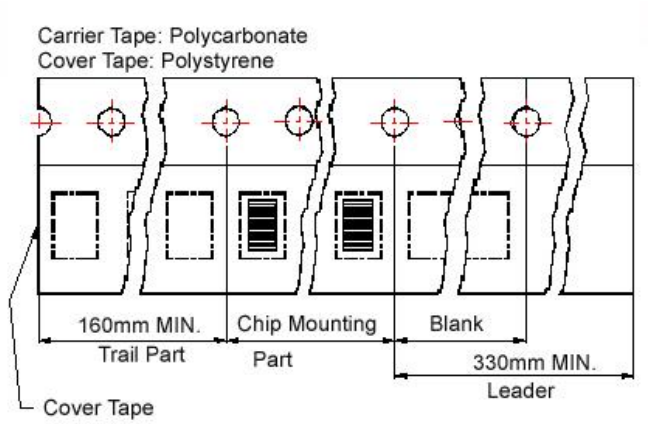
- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
  L: HP4284+42841A,
  RDC: Chroma 16502
  Isat:WK3255BQ+ WK3265B
  Irms: WK3255BQ+ WK3265B

Packaging Specifications

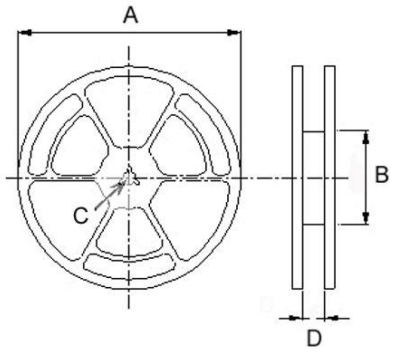
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
BPCA00060645	6.9	6.3	5	1.55	1.75	16	12	4	2	330	100	13	16	1000
BPCA00070745	7.7	7.35	5	1.55	1.75	16	12	4	2	330	100	13	16	1000
BPCA00101065	10.4	10.65	6.7	1.50	1.75	24	16	4	2	330	100	13	24	500
BPCA00121280	12.8	13	8.7	1.50	1.75	24	16	4	2	330	100	13	24	400

BPCP Series

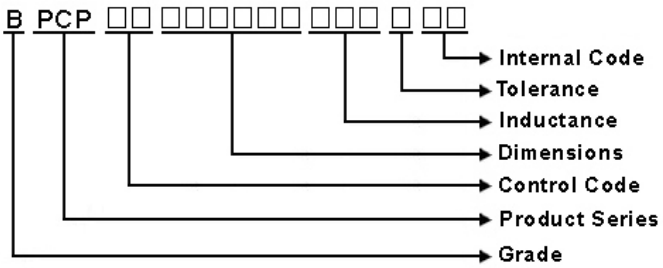
Features

- RoHS compliant
- Low Rdc and high saturation current for portable DC to DC converter line
- High magnetic shielding construction provides high resolution for EMC protection
- Support lead-free soldering

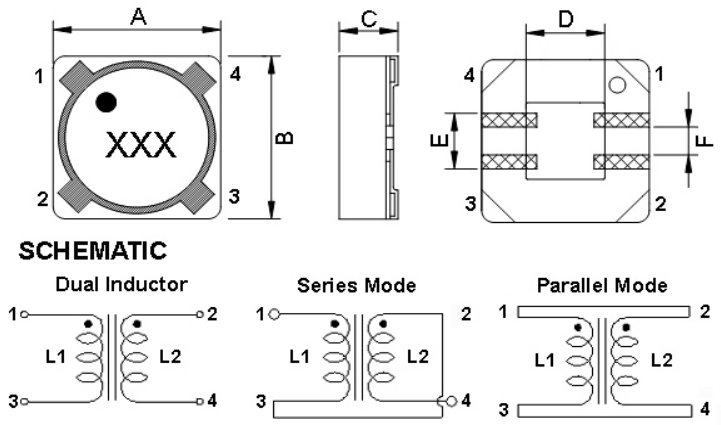
Applications

- Notebook PC
- Set top box
- LCD TV
- LCD displays
- Portable communication device
- DC/DC converters

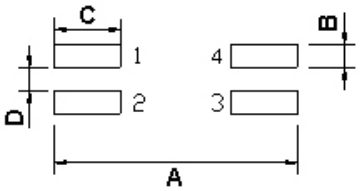
Product Identification



Shape and Dimensions



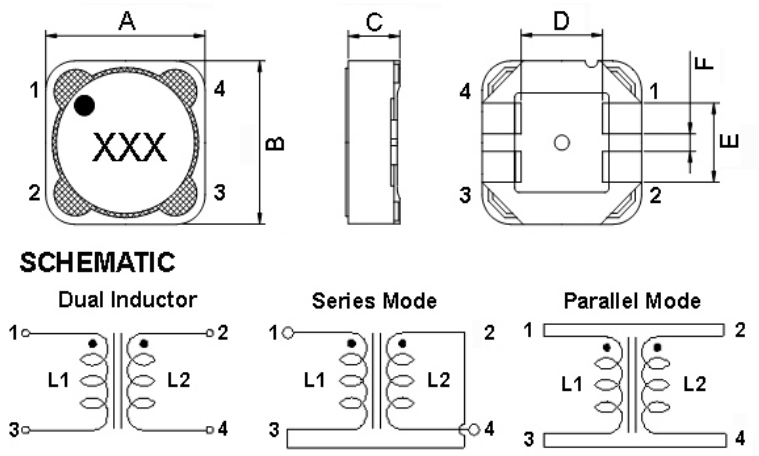
Recommended Pattern



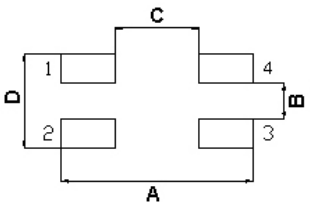
Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern			
	A	B	C	D	E	F	A	B	C	D
BPCP00070738	7.6Max	7.6Max	3.8Max	4.05	2.7	1.1	7.9	1.3	2.3	0.6
BPCP00070746	7.6Max	7.6Max	4.5Max	4.05	2.7	1.1	7.9	1.3	2.3	0.6

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern			
	A	B	C	D	E	F	A	B	C	D
BPCP00121281	12.0±0.5	12.0±0.5	8.1Max	5.7	5.0	1.6	13.1	1.1	5.2	5.5

Standard Specifications

Part Number	Inductance L1,2(uH)	Parallel Ratings				Series Ratings				Marking
		OCL (uH)±20%	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	OCL (uH)±20%	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	
BPCP000707383R3MA0	3.3	3.3	0.0316	4.22	3.31	13.6	0.182	2.11	1.660	●3R3
BPCP000707384R7MA0	4.7	4.7	0.0406	3.78	3.09	17.1	0.242	1.89	1.550	●4R7
BPCP000707386R8MA0	6.8	6.8	0.0658	3.12	2.55	25.5	0.285	1.56	1.280	●6R8
BPCP000707388R2MA0	8.2	8.2	0.0772	2.66	2.19	34.1	0.306	1.33	1.100	●8R2
BPCP00070738100MA0	10	10	0.0826	2.47	2.08	39.6	0.342	1.24	1.040	●100
BPCP00070738150MA0	15	15	0.1190	2.05	1.83	59.6	0.470	1.03	0.916	●150
BPCP00070738220MA0	22	22	0.1500	1.67	1.62	89.5	0.620	0.83	0.811	●220
BPCP00070738330MA0	33	33	0.2400	1.35	1.31	140.5	1.000	0.68	0.653	●330
BPCP00070738470MA0	47	47	0.3380	1.14	1.08	194.2	1.280	0.57	0.542	●470
BPCP00070738680MA0	68	68	0.5070	0.96	0.89	289.3	1.920	0.48	0.444	●680
BPCP00070738820MA0	82	82	0.6100	0.89	0.86	324.7	2.280	0.44	0.430	●820
BPCP00070738101MA0	100	100	0.7150	0.79	0.73	397.6	2.640	0.39	0.367	●101
BPCP00070738151MA0	150	150	0.9860	0.65	0.58	608.2	3.630	0.32	0.289	●151
BPCP00070738221MA0	220	220	1.4800	0.53	0.52	922.6	5.500	0.27	0.260	●221
BPCP00070738331MA0	330	330	2.1600	0.44	0.42	1335	8.250	0.22	0.211	●331
BPCP00070738471MA0	470	470	2.8200	0.37	0.35	1859	11.220	0.18	0.173	●471

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Test Frequency : 100kHz,0.25V
- Dual:L1(1-3) ,L2(2-4) Parallel:(1,2-3,4) Series:(1-4)tie(2-3)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Turns Ratio(1-3):(2-4) 1:1

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance L1,2(uH)	Parallel Ratings				Series Ratings				Marking
		OCL (uH)±20%	RDC (Ω)Typ	Isat (A)Typ	Irms (A)Typ	OCL (uH)±20%	RDC (Ω)Typ	Isat (A)Typ	Irms (A)Typ	
BPCP000707463R3MA0	3.3	3.396	0.0183	5.40	3.94	13.58	0.0732	2.70	1.970	●3R3
BPCP000707464R7MA0	4.7	5.182	0.0254	4.37	3.34	20.73	0.1020	2.19	1.670	●4R7
BPCP000707466R8MA0	6.8	7.344	0.0418	3.67	2.6	29.38	0.1670	1.84	1.300	●6R8
BPCP000707468R2MA0	8.2	8.566	0.0441	3.40	2.53	34.26	0.1770	1.70	1.270	●8R2
BPCP00070746100MA0	10	9.882	0.0489	3.17	2.41	39.53	0.1960	1.58	1.200	●100
BPCP00070746150MA0	15	16.09	0.0637	2.48	2.11	64.36	0.2550	1.24	1.050	●150
BPCP00070746220MA0	22	21.73	0.0925	2.13	1.75	86.92	0.3710	1.07	0.874	●220
BPCP00070746330MA0	33	33.01	0.1430	1.73	1.41	132.0	0.5740	0.87	0.702	●330
BPCP00070746470MA0	47	49.64	0.2160	1.41	1.15	198.6	0.8650	0.71	0.573	●470

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Test Frequency : 100kHz,0.25V
- Dual:L1(1-3) ,L2(2-4) Parallel:(1,2-3,4) Series:(1-4)tie(2-3)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Turns Ratio(1-3):(2-4) 1:1

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance L1,2(uH)	Parallel Ratings				Series Ratings				Marking
		OCL (uH)	RDC (Ω)Max	Isat (A)Typ	Irms (A)Typ	OCL (uH)	RDC (Ω)Max	Isat (A)Typ	Irms (A)Typ	
BPCP001212812R2TA0	2.2	2.2±30%	0.0092	25.50	12.50	8.8±30%	0.0338	12.700	6.230	●2R2
BPCP001212813R3TA0	3.3	3.3±30%	0.0110	21.50	10.40	13.2±30%	0.0400	10.800	5.230	●3R3
BPCP001212814R7TA0	4.7	4.7±30%	0.0135	16.50	8.25	18.8±30%	0.0500	8.240	4.130	●4R7
BPCP001212816R8MA0	6.8	6.8±20%	0.0183	13.30	7.34	27.2±20%	0.0656	6.670	3.670	●6R8
BPCP001212818R2MA0	8.2	8.2±20%	0.0191	12.20	6.32	32.8±20%	0.0714	6.090	3.160	●8R2
BPCP00121281100MA0	10	10±20%	0.0241	11.20	6.04	40±20%	0.0921	5.600	3.020	●100
BPCP00121281150MA0	15	15±20%	0.0333	9.66	5.03	60±20%	0.1290	4.830	2.510	●150
BPCP00121281220MA0	22	22±20%	0.0503	7.57	4.00	88±20%	0.1920	3.780	2.000	●220
BPCP00121281330MA0	33	33±20%	0.0664	6.22	3.23	132±20%	0.2650	3.110	1.610	●330
BPCP00121281470MA0	47	47±20%	0.0898	5.28	2.95	188±20%	0.3530	2.640	1.470	●470
BPCP00121281680MA0	68	68±20%	0.1230	4.44	2.44	272±20%	0.4690	2.220	1.220	●680
BPCP00121281820MA0	82	82±20%	0.1530	4.06	2.09	328±20%	0.5780	2.030	1.040	●820
BPCP00121281101MA0	100	100±20%	0.1750	3.64	1.96	400±20%	0.7010	1.820	0.980	●101
BPCP00121281151MA0	150	150±20%	0.2610	3.01	1.59	600±20%	1.0130	1.510	0.796	●151
BPCP00121281221MA0	220	220±20%	0.3430	2.43	1.29	880±20%	1.3800	1.220	0.645	●221
BPCP00121281331MA0	330	330±20%	0.5400	2.01	1.04	1320±20%	2.1720	1.010	0.522	●331
BPCP00121281471MA0	470	470±20%	0.8650	1.68	0.85	1880±20%	3.3000	0.838	0.427	●471
BPCP00121281681MA0	680	680±20%	1.2960	1.39	0.76	2720±20%	4.8880	0.697	0.380	●681
BPCP00121281821MA0	820	820±20%	1.6320	1.27	0.65	3280±20%	5.8960	0.633	0.325	●821
BPCP00121281102MA0	1000	1000±20%	1.9920	1.14	0.61	4000±20%	7.2020	0.571	0.307	●102

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Test Frequency : 100kHz,0.25V
- Dual:L1(1-3) ,L2(2-4) Parallel:(1,2-3,4) Series:(1-4)tie(2-3)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Turns Ratio(1-3):(2-4) 1:1

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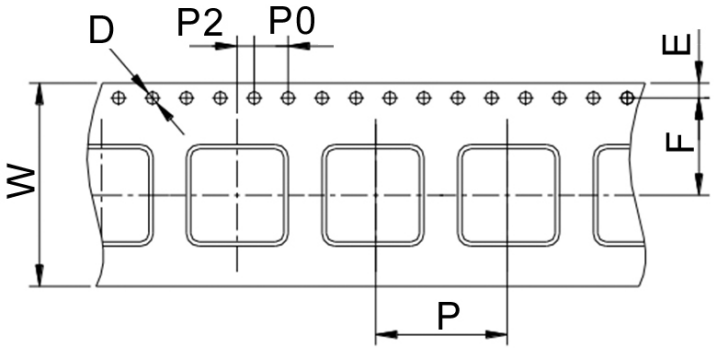
Pulse a YAGEO company

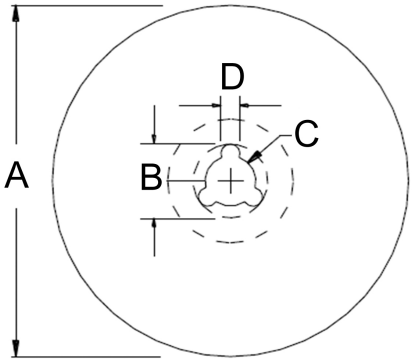
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	W	D	E	F	P	P0	P2	A	B	C	D	PCS / Reel
BPCP00070738	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
BPCP00070746	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
BPCP00121281	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500

BPSY Series

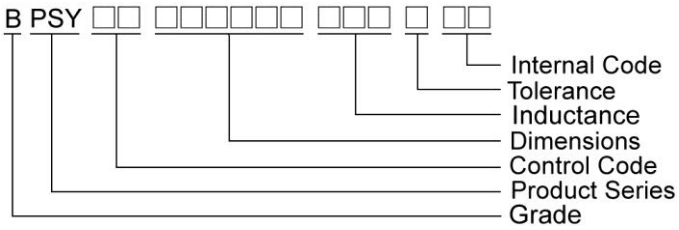
Features

- RoHS, Halogen Free and REACH Compliance
- Magnetic shielded
- Good Q factor, good energy storage and low resistance

Applications

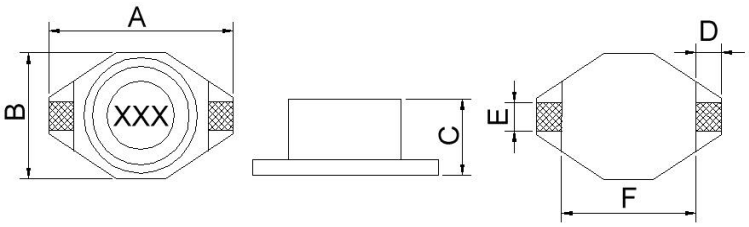
- Flash memory programmers
- Electric motors
- DC/DC converters

Product Identification

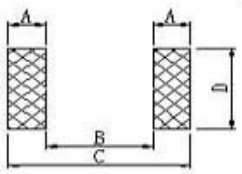


Shape and Dimensions

BPSY00130951



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	E	F
BPSY00130951	12.95^{+0}	9.40^{+0}	5.08^{+0}	2.54	2.54	7.62

Dimensions in mm

TYPE	A	B	C	D
BPSY00130951	2.92	7.37	13.21	2.79

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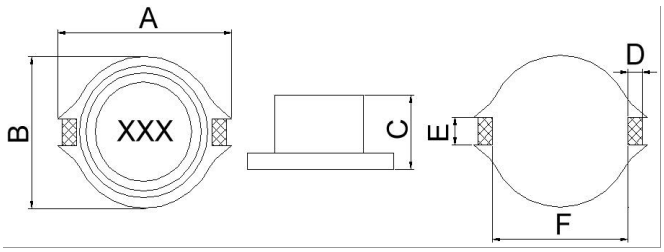
SMD Shielded Power Inductors - BPSY Series

Shape and Dimensions

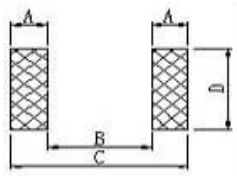
BPSY00191576



Dimensions in mm

TYPE	A	B	C	D	E	F
BPSY00191576	18.54^{+0}	15.24^{+0}	7.62^{+0}	2.54	2.54	12.7

Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
BPSY00191576	2.92	12.45	18.29	2.79

Electrical Characteristics

Part Number	Inductance (µH)	Tolerance (±%)	Q Min	Q Frequency (kHz)	DC Resistance (Ω) Max	SRF (MHz) Typ.	Isat (A)	Irms (A)
BPSY001309511R0M00	1.0	20	3	100	0.021	110	5.6	5.0
BPSY001309511R5M00	1.5	20	5	100	0.022	90	5.2	4.5
BPSY001309512R2M00	2.2	20	5	100	0.032	60	5.0	3.8
BPSY001309513R3M00	3.3	20	5	100	0.039	55	3.9	3.3
BPSY001309514R7M00	4.7	20	10	100	0.054	30	3.2	2.7
BPSY001309516R8M00	6.8	20	10	100	0.075	30	2.8	2.2
BPSY00130951100M00	10	20	10	100	0.101	28	2.4	2.0
BPSY00130951150M00	15	20	15	100	0.15	20	2.0	1.5
BPSY00130951220M00	22	20	20	100	0.207	15	1.6	1.3
BPSY00130951330M00	33	20	20	100	0.334	12	1.4	1.1
BPSY00130951470M00	47	20	20	100	0.472	10	1.0	0.8
BPSY00130951680M00	68	20			0.660	10	0.9	0.7
BPSY00130951101M00	100	20			1.110	7	0.8	0.6
BPSY00130951151M00	150	20			1.550	6	0.6	0.5
BPSY00130951221M00	220	20			2.000	5	0.5	0.37
BPSY00130951102M00	1000	20			8.300	2	0.32	0.17

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

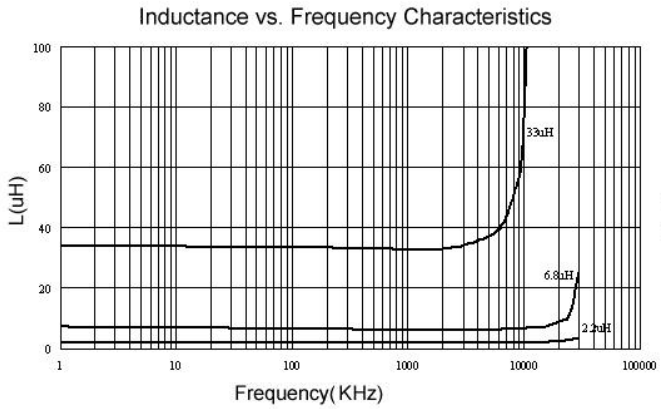
- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

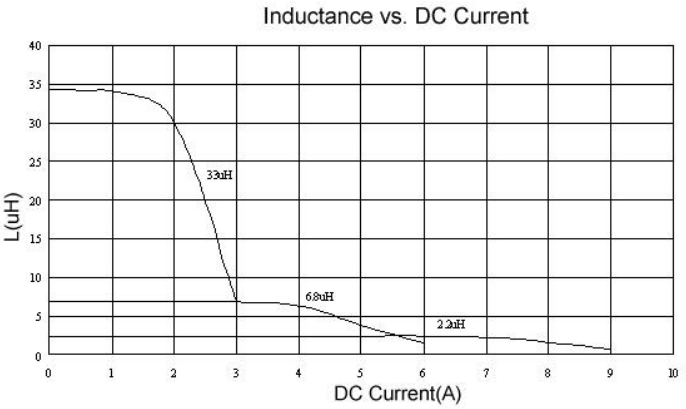
  L：E4980 or HP4284A , 100kHz/ 0.1V

  RDC：Chroma 16502

  Isat：HP4284A+HP42841A or WK3260B+WK3265B

Test Instruments：HP4294A Impedance / Material Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (µH)	Tolerance (±%)	Q Min	Q Frequency (kHz)	DC Resistance (Ω) Max	Isat (A)	Irms (A)	SRF (MHz) Typ.
BPSY00191576100M00	10	20	40	100	0.040	5.5	3.9	24
BPSY00191576150M00	15	20	40	100	0.048	4.5	3.4	16
BPSY00191576220M00	22	20	30	100	0.059	3.5	3.1	14
BPSY00191576330M00	33	20	40	100	0.075	3.3	2.8	11
BPSY00191576470M00	47	20	40	100	0.097	2.7	2.4	8.0
BPSY00191576680M00	68	20	40	100	0.140	2.2	2.0	7.0
BPSY00191576101M00	100	20	40	100	0.210	1.7	1.7	5.5
BPSY00191576151M00	150	20	50	100	0.300	1.3	1.3	4.8
BPSY00191576221M00	220	20	50	100	0.470	1.1	1.1	4.0
BPSY00191576331M00	330	20	50	100	0.780	0.86	0.86	3.0
BPSY00191576471M00	470	20	50	100	1.08	0.73	0.73	2.4
BPSY00191576681M00	680	20	60	100	1.40	0.64	0.64	2.0
BPSY00191576102M00	1000	20	60	100	2.01	0.53	0.53	1.0

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

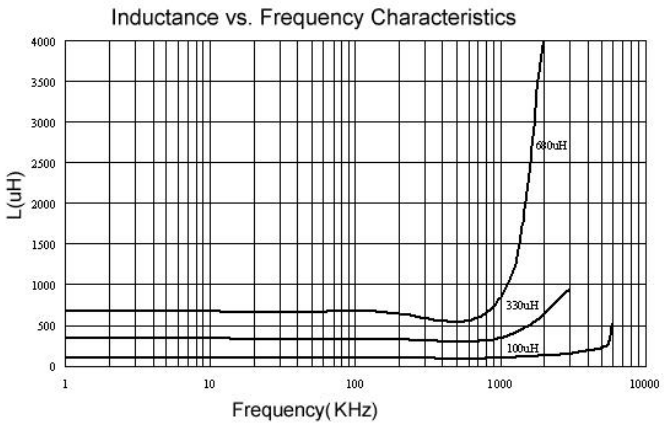
- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

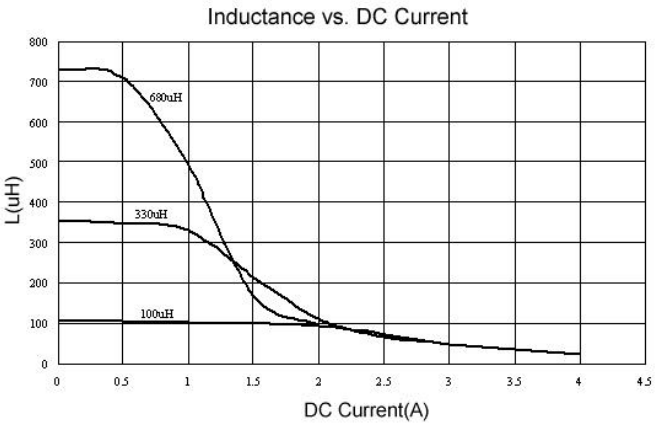
  L：E4980 or HP4284A , 100kHz/ 0.1V

  RDC：Chroma 16502

  Isat：HP4284A+HP42841A or WK3260B+WK3265B

Test Instruments：HP4294A Impedance / Material Analyzer





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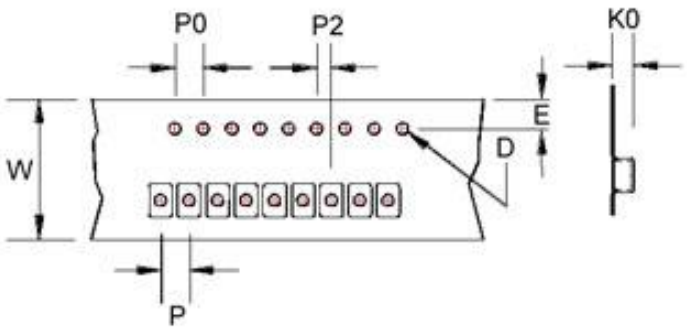
Pulse a YAGEO company

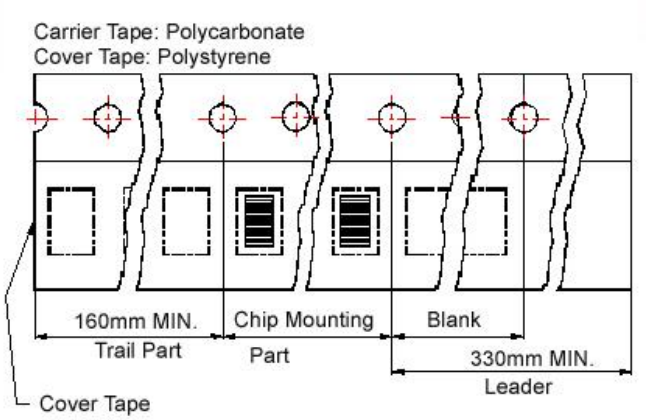
CHILISIN ELECTRONICS CORP.

Packaging Specifications

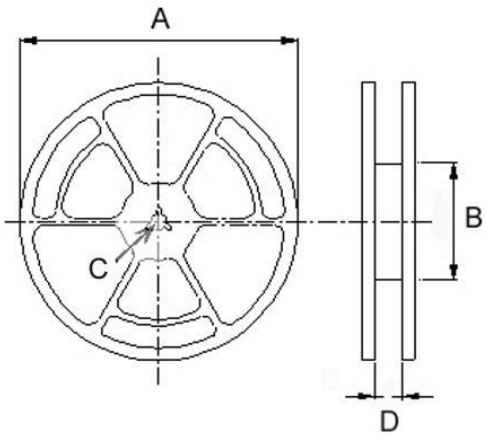
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	K0	D	E	W	P	P0	P2	A	B	C	D	(PCS / REEL)
BPSY00130951	5.4	1.55	1.75	24	12	4	2	330	100	13	24.4	1000
BPSY00191576	7.5	1.55	1.75	32	20	4	2	330	100	13	33.4	250

BPSF Series

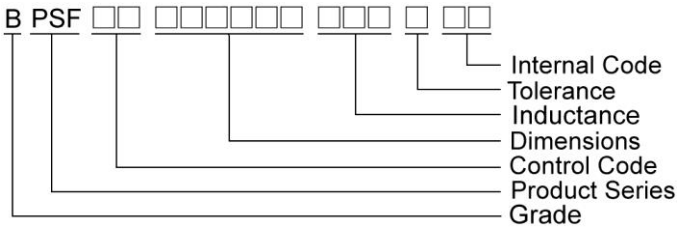
Features

- RoHS, Halogen Free and REACH Compliance
- Magnetic shielded
- Various package size and wide inductance range

Applications

- AP Routers
- STBs
- LCD TVs and monitors
- Game consoles
- LED lightings
- DC/DC converters

Products Identification



Shape and Dimensions

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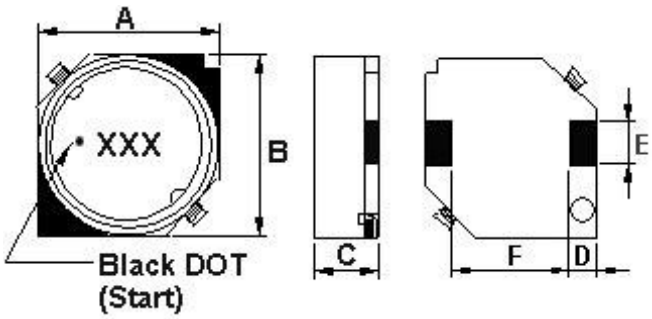

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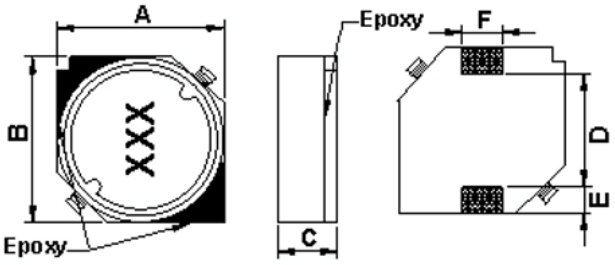
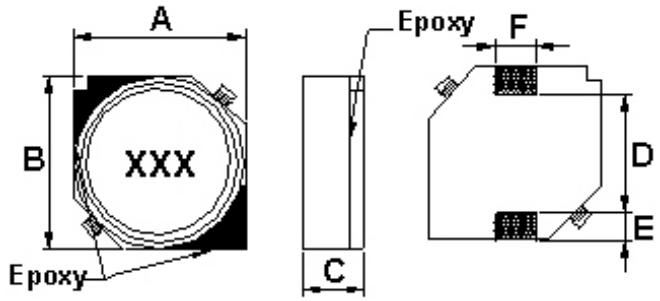


Dimension in mm

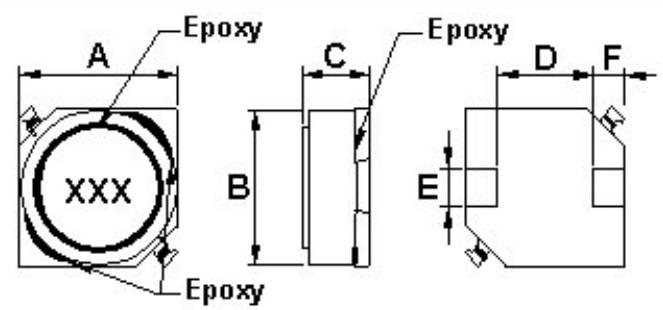
TYPE	A	B	C	D	E	F
BPSF00060628	6±0.2	6±0.2	2.8±0.2	1.5	2±0.1	3.0
BPSF00070728	7±0.2	7±0.2	2.8±0.2	4.0typ	1.5typ	2.0±0.2
BPSF00070730	7±0.2	7±0.2	3.0±0.2	4.0typ	1.5typ	2.0±0.2
BPSF00070732	7±0.2	7±0.2	3.2±0.2	4.0typ	1.5typ	2.0±0.2
BPSF00070745	7±0.2	7±0.2	4.5±0.3	4.0typ	1.5typ	2.0±0.2

Shape and Dimensions

BPSF00070755



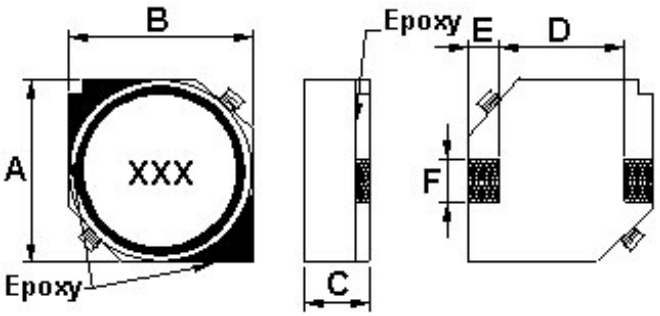
BPSF00101045/101058



Dimension in mm

TYPE	A	B	C	D	E	F
BPSF00070755	7.0±0.2	7.0±0.2	5.5±0.3	4.0typ	1.5typ	2.0±0.2
BPSF00101045	10.1±0.3	10.1±0.3	4.5±0.3	6.0±0.2	3.0typ	2.0±0.2
BPSF00101058	10.1±0.3	10.1±0.3	5.8 Max	6.0±0.2	3.0±0.2	2.0±0.2

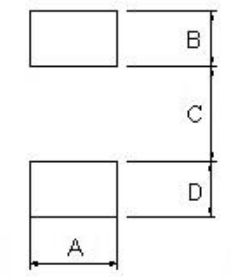
BPSF00131355/131365/131375



Dimension in mm

TYPE	A	B	C	D	E	F
BPSF00131355	12.5±0.3	12.5±0.3	5.5±0.3	8.6typ	2.0typ	3.0typ
BPSF00131365	12.5±0.3	12.5±0.3	6.5±0.35	8.6typ	2.0typ	3.0typ
BPSF00131375	12.5±0.3	12.5±0.3	7.5±0.35	8.6typ	2.0typ	3.0typ

Recommended Pattern



Dimension in mm

TYPE	A	B	C	D
BPSF00060628	2.2	1.5	4.0	1.5
BPSF00070728	2.2	1.5	4.9	1.5
BPSF00070730	2.2	1.5	4.9	1.5
BPSF00070732	2.2	1.5	4.9	1.5
BPSF00070745	2.2	1.5	4.9	1.5
BPSF00070755	2.2	1.5	4.9	1.5
BPSF00101045	3.2	2.5	5.6	2.5
BPSF00101058	3.2	2.5	5.6	2.5
BPSF00131355	3.2	2.5	8.6	2.5
BPSF00131365	3.2	2.5	8.6	2.5
BPSF00131375	3.2	2.5	8.6	2.5

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω±20%)	Isat (A)	Irms (A) Max
BPSF000606284R7M00	4.7	20	1	0.0284	1.6	2.5
BPSF000606286R8M00	6.8	20	1	0.0354	1.5	2.2
BPSF00060628100M00	10	20	1	0.0532	1.3	1.8
BPSF00060628150M00	15	20	1	0.0745	1.0	1.4
BPSF00060628220M00	22	20	1	0.104	0.77	1.3
BPSF00060628330M00	33	20	1	0.148	0.69	1.1
BPSF00060628470M00	47	20	1	0.21	0.59	0.92
BPSF00060628680M00	68	20	1	0.29	0.50	0.78
BPSF00060628101M00	100	20	1	0.43	0.42	0.64

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 25℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
  L：E4980 or HP4284A , 1kHz 0.5V
  RDC：Chroma 16502
  Isat：HP4284A+HP42841A or WK3260B+WK3265B

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω±20%)	Isat (A)
BPSF000707282R2M00	2.2	20	1	0.032	1.8
BPSF000707283R3M00	3.3	20	1	0.037	1.6
BPSF000707284R7M00	4.7	20	1	0.045	1.5
BPSF000707285R0M00	5.0	20	1	0.045	2.4
BPSF000707286R8M00	6.8	20	1	0.059	1.3
BPSF000707288R2M00	8.2	20	1	0.065	1.1
BPSF00070728100M00	10	20	1	0.083	1.1
BPSF00070728150M00	15	20	1	0.13	0.88
BPSF00070728220M00	22	20	1	0.18	0.75
BPSF00070728330M00	33	20	1	0.24	0.65
BPSF00070728470M00	47	20	1	0.34	0.54

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Measure Equipment：
  L：E4980 or HP4284A , 1kHz 0.5V
  RDC：Chroma 16502
  Isat：HP4284A+HP42841A or WK3260B+WK3265B

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω±20%)	Isat (A)
BPSF000707303R3M00	3.3	20	1	0.023	1.8
BPSF000707304R7M00	4.7	20	1	0.036	1.6
BPSF000707306R8M00	6.8	20	1	0.041	1.5
BPSF00070730100M00	10	20	1	0.060	1.3
BPSF00070730150M00	15	20	1	0.084	1
BPSF00070730220M00	22	20	1	0.15	0.86
BPSF00070730330M00	33	20	1	0.16	0.65
BPSF00070730470M00	47	20	1	0.24	0.57
BPSF00070730680M00	68	20	1	0.31	0.49
BPSF00070730101M00	100	20	1	0.45	0.35
BPSF000707322R2M00	2.2	20	1	0.018	2.1
BPSF000707323R3M00	3.3	20	1	0.023	1.9
BPSF000707324R7M00	4.7	20	1	0.036	1.7
BPSF000707326R8M00	6.8	20	1	0.041	1.6
BPSF00070732100M00	10	20	1	0.053	1.4
BPSF00070732150M00	15	20	1	0.075	1.1
BPSF00070732220M00	22	20	1	0.11	0.96
BPSF00070732330M00	33	20	1	0.16	0.75
BPSF00070732470M00	47	20	1	0.24	0.67
BPSF00070732680M00	68	20	1	0.31	0.59
BPSF00070732101M00	100	20	1	0.45	0.45
BPSF00070732151M00	150	20	1	0.65	0.37
BPSF00070732221M00	220	20	1	1.05	0.29
BPSF00070732331M00	330	20	1	1.67	0.22
BPSF00070732471M00	470	20	1	2.05	0.2
BPSF00070732681M00	680	20	1	3.15	0.16
BPSF00070732102M00	1000	20	1	4.78	0.13

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Measure Equipment：

  L：E4980 or HP4284A , 1kHz 0.5V

  RDC：Chroma 16502

  Isat：HP4284A+HP42841A or WK3260B+WK3265B

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω±20%)	Isat (A)	Irms (A) Max
BPSF000707453R3M00	3.3	20	1	0.02	2.5	2.3
BPSF000707454R7M00	4.7	20	1	0.03	2	2.1
BPSF000707456R8M00	6.8	20	1	0.039	1.7	1.74
BPSF00070745100M00	10	20	1	0.036	1.3	1.78
BPSF00070745150M00	15	20	1	0.052	1.1	1.53
BPSF00070745220M00	22	20	1	0.061	0.9	1.34
BPSF00070745330M00	33	20	1	0.096	0.82	1.09
BPSF00070745470M00	47	20	1	0.125	0.75	0.92
BPSF00070745680M00	68	20	1	0.175	0.6	0.77
BPSF00070745101M00	100	20	1	0.25	0.5	0.65
BPSF00070745151M00	150	20	1	0.34	0.4	0.55
BPSF00070745221M00	220	20	1	0.52	0.33	0.45
BPSF00070745331M00	330	20	1	0.74	0.25	0.37
BPSF00070745471M00	470	20	1	1.05	0.22	0.31
BPSF00070745681M00	680	20	1	1.48	0.2	0.27
BPSF00070745102M00	1000	20	1	2.28	0.14	0.25

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 20℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
  L：E4980 or HP4284A , 1kHz 0.5V
  RDC：Chroma 16502
  Isat：HP4284A+HP42841A or WK3260B+WK3265B

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)	Isat (A)	Irms (A) Max
BPSF000707551R5T00	1.5	30	100	0.0174±30%	6.2	4.0
BPSF000707552R2T00	2.2	30	100	0.0217±30%	5.3	3.5
BPSF000707553R3T00	3.3	30	100	0.0240±30%	4.3	3.3
BPSF000707554R7T00	4.7	30	100	0.0280±30%	3.6	3.1
BPSF000707556R8T00	6.8	30	100	0.0340±30%	3.0	2.8
BPSF00070755100M00	10	20	100	0.0391±20%	2.6	2.5
BPSF00070755150M00	15	20	100	0.0508±20%	2.1	2.2
BPSF00070755220M00	22	20	100	0.0643±20%	1.7	2.0
BPSF00070755470M00	47	20	100	0.1550±20%	0.8	1.0

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 30℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
  L：E4980 or HP4284A , 100kHz 1V
  RDC：Chroma 16502
  Isat：HP4284A+HP42841A or WK3260B+WK3265B

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω±20%)	Isat (A)	Irms (A) Max
BPSF001010454R7T00	4.7	20	1	0.0200	4.5	
BPSF00101045100M00	10	20	1	0.0364	3.0	2.5
BPSF00101045150M00	15	20	1	0.0472	2.4	2.2
BPSF00101045220M00	22	20	1	0.0591	2.1	1.9
BPSF00101045330M00	33	20	1	0.0815	1.6	1.7
BPSF00101045470M00	47	20	1	0.1	1.4	1.5
BPSF00101045680M00	68	20	1	0.14	1.2	1.3
BPSF00101045101M00	100	20	1	0.2	1.0	1.1
BPSF00101045151M00	150	20	1	0.35	0.79	0.81
BPSF00101045221M00	220	20	1	0.47	0.65	0.70
BPSF00101045271M00	270	20	1	0.58	0.58	0.60
BPSF00101045331M00	330	20	1	0.68	0.54	0.58
BPSF00101045471M00	470	20	1	1.03	0.47	0.47
BPSF00101045681M00	680	20	1	1.6	0.38	0.38
BPSF00101045102M00	1000	20	1	2.8	0.32	0.29
BPSF00101045152M00	1500	20	1	3.4	0.22	0.26

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 30℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

  L：E4980 or HP4284A , 1kHz 0.5V

  RDC：Chroma 16502

  Isat：HP4284A+HP42841A or WK3260B+WK3265B

  Isat：HP4284A+HP42841A or WK3260B+WK3265B

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) Max	Isat (A)
BPSF001010584R7M00	4.7	20	1	0.035	4.0
BPSF00101058100M00	10	20	1	0.040	3.0
BPSF00101058220M00	22	20	1	0.0456	2.5
BPSF00101058330M00	33	20	1	0.085	2.1

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 15% from its value without current
- Measure Equipment：

  L：E4980 or HP4284A , 1kHz 0.5V

  RDC：Chroma 16502

  Isat：HP4284A+HP42841A or WK3260B+WK3265B

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω±20%)	Isat (A)	Irms (A) Max
BPSF001313556R0M00	6	20	1	0.0164	3.6	4.9
BPSF00131355100M00	10	20	1	0.0215	3.4	4.3
BPSF00131355150M00	15	20	1	0.0259	2.8	3.9
BPSF00131355220M00	22	20	1	0.0338	2.3	3.4
BPSF00131355330M00	33	20	1	0.0415	1.9	3.1
BPSF00131355470M00	47	20	1	0.0618	1.6	2.5
BPSF00131355680M00	68	20	1	0.0832	1.3	2.2
BPSF00131355101M00	100	20	1	0.117	1.1	1.8
BPSF00131355151M00	150	20	1	0.19	0.88	1.4
BPSF00131355221M00	220	20	1	0.27	0.72	1.2
BPSF00131355331M00	330	20	1	0.41	0.59	1
BPSF00131355471M00	470	20	1	0.52	0.49	0.88
BPSF00131355681M00	680	20	1	0.76	0.43	0.73
BPSF00131355102M00	1000	20	1	1.12	0.34	0.6
BPSF00131355152M00	1500	20	1	1.73	0.29	0.48

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 30℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
  L：E4980 or HP4284A , 1kHz 0.5V
  RDC：Chroma 16502
  Isat：HP4284A+HP42841A or WK3260B+WK3265B

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω±20%)	Isat (A)	Irms (A) Max
BPSF001313652R0T00	2	30	1	0.0117	10	6.2
BPSF001313654R2T00	4.2	30	1	0.015	7.3	5.5
BPSF001313657R0T00	7	30	1	0.0177	5.7	5.0
BPSF00131365100M00	10	20	1	0.0202	5.0	4.8
BPSF00131365150M00	15	20	1	0.0237	4.2	4.4
BPSF00131365220M00	22	20	1	0.0316	3.5	3.8
BPSF00131365330M00	33	20	1	0.0490	2.8	3.4
BPSF00131365470M00	47	20	1	0.0578	2.4	2.8
BPSF00131365680M00	68	20	1	0.0787	2.0	2.4
BPSF00131365101M00	100	20	1	0.123	1.6	1.9
BPSF00131365151M00	150	20	1	0.210	1.2	1.5
BPSF00131365221M00	220	20	1	0.273	1.0	1.2
BPSF001313751R2T00	1.2	30	1	0.00828	13	8.2
BPSF001313752R7T00	2.7	30	1	0.0094	10	7.0
BPSF001313753R9T00	3.9	30	1	0.0104	9	6.7
BPSF001313754R7T00	4.7	30	1	0.0110	7.8	6.3
BPSF001313755R6T00	5.6	30	1	0.0116	7.8	6.3
BPSF001313756R8T00	6.8	30	1	0.0131	7.2	5.9
BPSF00131375100M00	10	20	1	0.0156	5.5	5.4
BPSF00131375150M00	15	20	1	0.0184	4.7	5.0
BPSF00131375220M00	22	20	1	0.0263	4.0	4.0
BPSF00131375330M00	33	20	1	0.0395	3.2	3.4
BPSF00131375470M00	47	20	1	0.0528	2.7	3.0
BPSF00131375680M00	68	20	1	0.0778	2.0	2.4
BPSF00131375101M00	100	20	1	0.1250	1.9	1.9
BPSF00131375151M00	150	20	1	0.1750	1.5	1.6
BPSF00131375221M00	220	20	1	0.2580	1.3	1.3
BPSF00131375331M00	330	20	1	0.340	0.9	

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
  L：E4980 or HP4284A , 1kHz 0.5V
  RDC：Chroma 16502
  Isat：HP4284A+HP42841A or WK3260B+WK3265B

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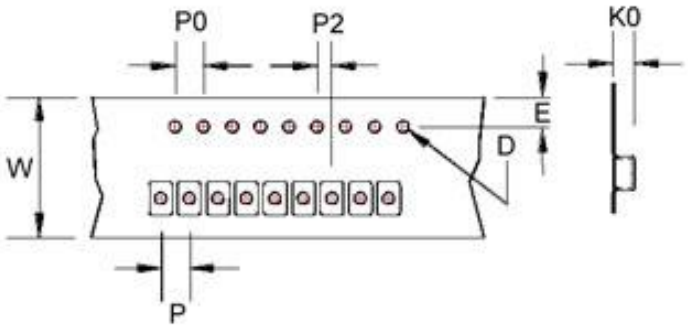
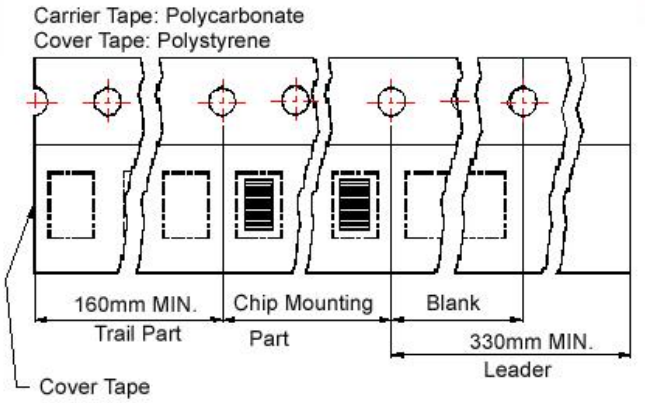
CHILISIN ELECTRONICS CORP.

Packaging Specifications

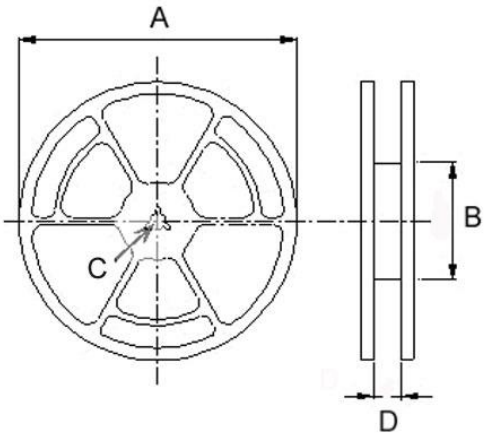
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
BPSF00060728	3.4	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BPSF00070728	3.2	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BPSF00070730	3.5	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BPSF00070732	3.5	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BPSF00070745	4.8	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BPSF00070755	5.7	1.55	1.75	16	12	4	2	330	100	13	16.0	900
BPSF00101045	5.0	1.55	1.75	24	16	4	2	330	100	13	24.4	500
BPSF00101058	5.0	1.55	1.75	24	16	4	2	330	100	13	24.4	500
BPSF00131355	6.0	1.55	1.75	24	16	4	2	330	100	13	24.4	500
BPSF00131365	7.0	1.55	1.75	24	16	4	2	330	100	13	24.4	500
BPSF00131375	8.2	1.55	1.75	24	16	4	2	330	100	13	24.4	350

BPCF Series

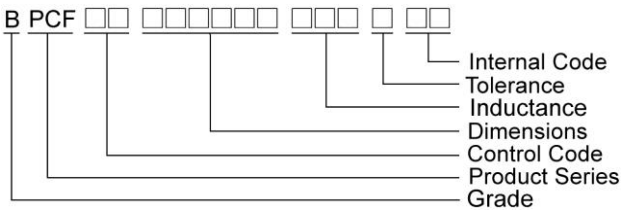
Features

- RoHS, Halogen Free and REACH Compliance
- Magnetic shielded
- Various package size and wide inductance range

Applications

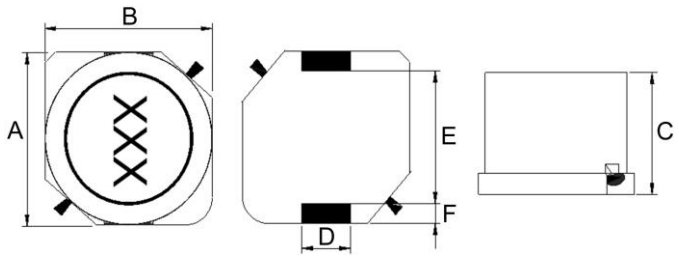
- AP Routers
- STBs
- LCD TVs and monitors
- Game consoles
- LED lightings
- DC/DC converters

Products Identification

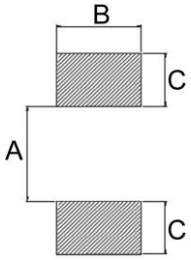


Shape and Dimensions

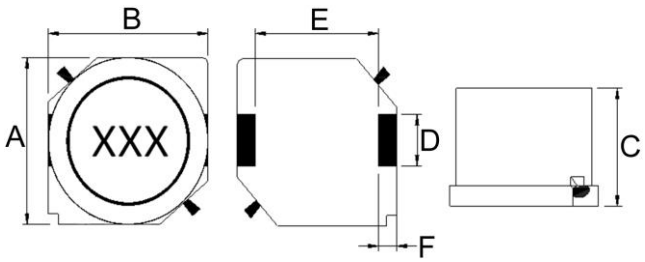
BPCF000606xx

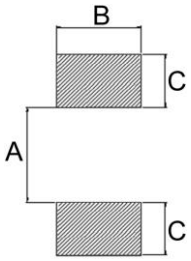


Recommended Pattern



BPCF00070732





Dimension in mm

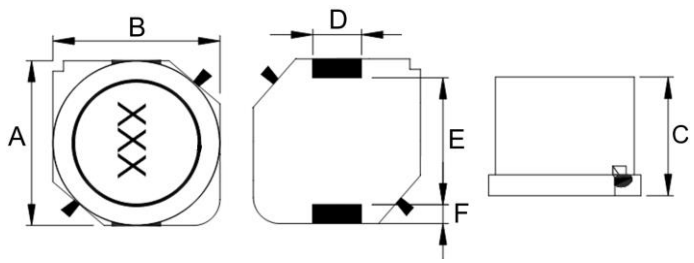
TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPCF00060625	6.0±0.3	6.0±0.3	2.5±0.3	2.0±0.2	3.0±0.2	1.5±0.2	2.8	2.2	1.7
BPCF00060628	6.0±0.3	6.0±0.3	2.8±0.3	2.0±0.2	3.0±0.2	1.5±0.2	2.8	2.2	1.7
BPCF00070732	7.0±0.3	7.0±0.3	3.2±0.3	2.0±0.2	4.0±0.2	1.5±0.2	3.8	2.2	1.7

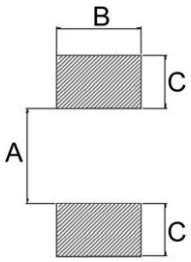
SMD Shielded Power Inductors - BPCF Series

Shape and Dimensions

Recommended Pattern

BPCF00070728\070745





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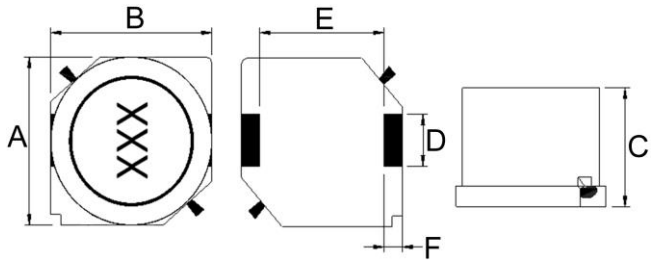

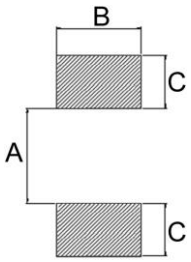

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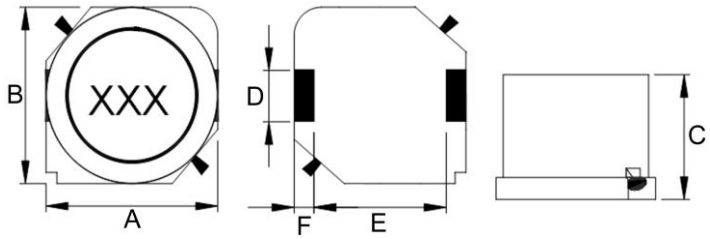
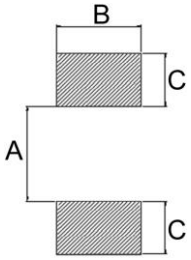
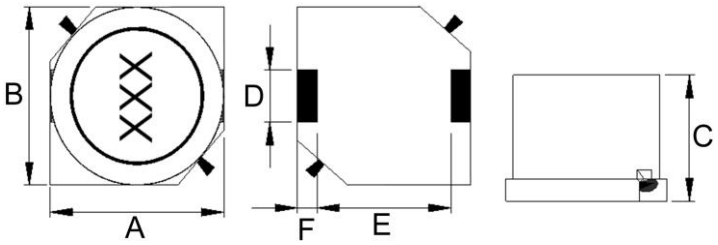
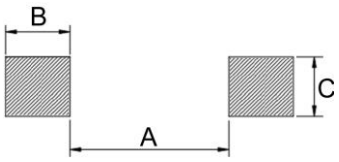




BPCF00101065





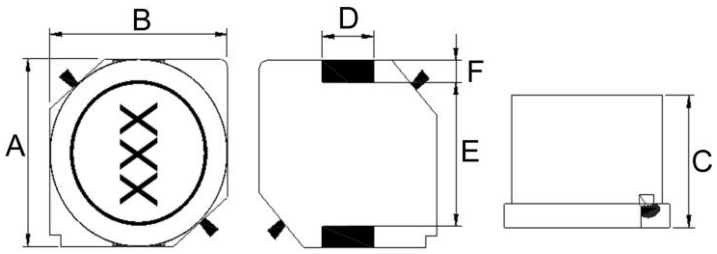
Dimension in mm

TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPCF00070728	7.0±0.3	7.0±0.3	2.8±0.3	2.0±0.2	4.0±0.2	1.5±0.2	3.8	2.2	1.7
BPCF00070745	7.0±0.3	7.0±0.3	4.5±0.3	2.0±0.2	4.0±0.2	1.5±0.2	3.8	2.2	1.7
BPCF00070755	7.0±0.3	7.0±0.3	5.5±0.3	2.0±0.2	4. ±0.2	1.5±0.2	3.8	2.2	1.7
BPCF00101045	10±0.3	10±0.3	4.5±0.3	3.0±0.2	6.0±0.2	2.0±0.2	5.6	3.2	2.5
BPCF00101065	10±0.3	10±0.3	6.5±0.3	2.5±0.2	6.0±0.2	2.0±0.2	5.6	2.5	3

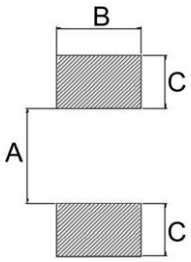
SMD Shielded Power Inductors - BPCF Series

Shape and Dimensions

BPCF001313xx



Recommended Pattern



Dimension in mm

TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPCF00131355	12.5±0.3	12.5±0.3	5.5±0.3	3.0±0.2	8.5±0.2	2.0±0.2	8.6	3.2	2.5
BPCF00131365	12.5±0.3	12.5±0.3	6.5±0.35	3.0±0.2	8.5±0.2	2.0±0.2	8.6	3.2	2.5
BPCF00131375	12.5±0.3	12.5±0.3	7.5±0.35	3.0±0.2	8.5±0.2	2.0±0.2	8.6	3.2	2.5

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)±20%	Isat (A)Max	Irms (A)Typ	Marking
BPCF000606252R2□00	2.2	20,30	100	0.0241	1.7	1.9	2R2
BPCF000606254R7□00	4.7	20,30	100	0.0306	1.5	1.8	4R7
BPCF000606255R6□00	5.6	30	100	0.0405	1.4	1.6	5R6
BPCF000606256R8□00	6.8	20,30	100	0.0442	1.3	1.5	6R8
BPCF00060625100□00	10	20,30	100	0.0573	1.0	1.3	100
BPCF00060625220□00	22	20,30	100	0.122	0.73	0.94	220
BPCF00060625101□00	100	20	100	0.500	0.33	0.47	101

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 25℃temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)±20%	Isat (A)Max	Irms (A)Typ	Marking
BPCF000606284R7□00	4.7	20,30	100	0.0284	1.6	2.5	4R7
BPCF000606286R8□00	6.8	20,30	100	0.0354	1.5	2.2	6R8
BPCF00060628100□00	10	20,30	100	0.0532	1.3	1.8	100
BPCF00060628150□00	15	20,30	100	0.090	1.0	1.4	150
BPCF00060628220□00	22	20,30	100	0.162	0.77	1.0	220
BPCF00060628101□00	100	20,30	100	0.57	0.42	0.64	101
BPCF00060628151□00	150	20,30	100	0.80	0.34	0.45	151

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 25℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)±20%	Rated Current (A)Max	Marking
BPCF000707283R3□00	3.3	20,30	100	0.028	1.6	3R3
BPCF000707284R7□00	4.7	20,30	100	0.038	1.5	4R7
BPCF000707286R8□00	6.8	20,30	100	0.059	1.3	6R8
BPCF00070728100□00	10	20,30	100	0.083	1.1	100
BPCF00070728150□00	15	20,30	100	0.11	0.88	150
BPCF00070728220□00	22	20,30	100	0.18	0.75	220
BPCF00070728330□00	33	20,30	100	0.24	0.65	330
BPCF00070728470□00	47	20,30	100	0.34	0.54	470

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current : Based on inductance change (△L/Lo：drop 15% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：40℃ Typ.)

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)±20%	Rated Current (A)Max	Marking
BPCF000707321R5□00	1.5	20,30	100	0.018	3.4	1R5
BPCF000707322R2□00	2.2	20,30	100	0.021	2.8	2R2
BPCF000707323R3□00	3.3	20,30	100	0.023	1.9	3R3
BPCF000707324R7□00	4.7	20,30	100	0.036	1.7	4R7
BPCF000707326R8□00	6.8	20,30	100	0.041	1.6	6R8
BPCF00070732100□00	10	20,30	100	0.053	1.4	100
BPCF00070732150□00	15	20,30	100	0.075	1.1	150
BPCF00070732220□00	22	20,30	100	0.11	0.96	220
BPCF00070732330□00	33	20,30	100	0.16	0.75	330
BPCF00070732470□00	47	20,30	100	0.24	0.67	470
BPCF00070732680□00	68	20,30	100	0.31	0.59	680
BPCF00070732101□00	100	10,20	100	0.45	0.45	101
BPCF00070732151□00	150	10,20	100	0.65	0.37	151
BPCF00070732221□00	220	10,20	100	1.05	0.29	221
BPCF00070732331□00	330	10,20	100	1.67	0.22	331
BPCF00070732471□00	470	10,20	100	2.05	0.20	471
BPCF00070732681□00	680	10,20	100	3.15	0.16	681
BPCF00070732102□00	1000	10,20	100	4.78	0.13	102

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current : Based on inductance change (△L/Lo：drop 15% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：25℃ Typ.)

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)±20%	Isat (A)Max	Irms (A)Typ	Marking
BPCF000707451R0□00	1.0	20,30	100	0.011	4.5	4.5	1R0
BPCF000707452R2□00	2.2	20,30	100	0.015	3.4	3.3	2R2
BPCF000707453R3□00	3.3	20,30	100	0.020	2.5	2.3	3R3
BPCF000707454R7□00	4.7	20,30	100	0.030	2.0	2.1	4R7
BPCF000707456R8□00	6.8	20,30	100	0.039	1.7	1.74	6R8
BPCF00070745100□00	10	20,30	100	0.036	1.3	1.78	100
BPCF00070745150□00	15	20,30	100	0.052	1.1	1.53	150
BPCF00070745220□00	22	20,30	100	0.061	0.9	1.34	220
BPCF00070745330□00	33	20,30	100	0.096	0.82	1.09	330
BPCF00070745470□00	47	20,30	100	0.125	0.75	0.92	470
BPCF00070745680□00	68	20,30	100	0.175	0.60	0.77	680
BPCF00070745101□00	100	10,20	100	0.25	0.50	0.65	101
BPCF00070745151□00	150	10,20	100	0.34	0.40	0.55	151
BPCF00070745221□00	220	10,20	100	0.52	0.33	0.45	221
BPCF00070745331□00	330	10,20	100	0.74	0.25	0.37	331
BPCF00070745471□00	470	10,20	100	1.05	0.22	0.31	471
BPCF00070745681□00	680	10,20	100	1.48	0.20	0.27	681
BPCF00070745102□00	1000	10,20	100	2.28	0.14	0.25	102

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 15% from its value without current
- Irms for a 25℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)±30%	Isat (A)Max	Irms (A)Typ	Marking
BPCF000707551R5□00	1.5	30	100	0.0174	6.2	4.0	1R5
BPCF000707552R2□00	2.2	30	100	0.0217	5.3	3.5	2R2
BPCF000707553R3□00	3.3	20,30	100	0.0240	4.3	3.3	3R3
BPCF000707554R7□00	4.7	20,30	100	0.0280	3.6	3.1	4R7
BPCF000707555R6□00	5.6	20,30	100	0.0310	3.0	2.9	5R6
BPCF000707556R8□00	6.8	20,30	100	0.0340	2.3	2.8	6R8
BPCF00070755100□00	10	20,30	100	0.0391	2.6	2.5	100
BPCF00070755150□00	15	20,30	100	0.0508	2.1	2.2	150
BPCF00070755220□00	22	20,30	100	0.0643	1.7	2.0	220
BPCF00070755330□00	33	20,30	100	0.12	1.3	1.4	330
BPCF00070755680□00	68	20,30	100	0.20	0.9	1.1	680

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 15% from its value without current
- Irms for a 30℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)±20%	Isat (A)Max	Irms (A)Typ	Marking
BPCF001010451R5□00	1.5	30	100	0.0118	7.5	6.0	1R5
BPCF001010453R3□00	3.3	30	100	0.0161	4.9	3.7	3R3
BPCF001010454R7□00	4.7	20,30	100	0.0198	4.2	3.5	4R7
BPCF001010455R6□00	5.6	30	100	0.0220	3.8	3.2	5R6
BPCF00101045100□00	10	20,30	100	0.0364	3.0	2.5	100
BPCF00101045150□00	15	20,30	100	0.0472	2.4	2.2	150
BPCF00101045220□00	22	20,30	100	0.0591	2.1	1.9	220
BPCF00101045330□00	33	20,30	100	0.0815	1.6	1.7	330
BPCF00101045470□00	47	20,30	100	0.10	1.4	1.5	470
BPCF00101045680□00	68	20,30	100	0.14	1.2	1.3	680
BPCF00101045101□00	100	20,30	100	0.20	1.0	1.1	101
BPCF00101045151□00	150	20,30	100	0.35	0.79	0.81	151
BPCF00101045221□00	220	20,30	100	0.47	0.65	0.70	221
BPCF00101045331□00	330	20,30	100	0.68	0.54	0.58	331
BPCF00101045471□00	470	20,30	100	1.03	0.47	0.47	471
BPCF00101045681□00	680	20,30	100	1.6	0.38	0.38	681
BPCF00101045102□00	1000	20,30	100	2.8	0.32	0.29	102
BPCF00101045152□00	1500	20,30	100	3.4	0.22	0.26	152

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Max	Marking
BPCF001010657R2□AE	7.2	30	100	0.0180	6.0	5.0	7R2
BPCF00101065220□AE	22	20,30	100	0.0376	3.6	3.41	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)±20%	Isat (A)Max	Irms (A)Typ	Marking
BPCF001313556R0□00	6.0	30	100	0.0164	3.6	4.9	6R0
BPCF00131355100□00	10	20,30	100	0.0215	3.4	4.3	100
BPCF00131355150□00	15	20,30	100	0.0259	2.8	3.9	150
BPCF00131355220□00	22	20,30	100	0.0338	2.3	3.4	220
BPCF00131355330□00	33	20,30	100	0.0415	1.9	3.1	330
BPCF00131355470□00	47	20,30	100	0.0618	1.6	2.5	470
BPCF00131355680□00	68	20,30	100	0.0832	1.3	2.2	680
BPCF00131355101□00	100	10,20	100	0.117	1.1	1.8	101
BPCF00131355151□00	150	10,20	100	0.19	0.88	1.4	151
BPCF00131355221□00	220	10,20	100	0.27	0.72	1.2	221
BPCF00131355331□00	330	10,20	100	0.41	0.59	1.0	331
BPCF00131355471□00	470	10,20	100	0.52	0.49	0.88	471
BPCF00131355681□00	680	10,20	100	0.76	0.43	0.73	681
BPCF00131355102□00	1000	10,20	100	1.12	0.34	0.60	102
BPCF00131355122□00	1200	10,20	100	1.48	0.32	0.53	122
BPCF00131355152□00	1500	10,20	100	1.73	0.29	0.48	152

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)±20%	Isat (A)Max	Irms (A)Typ	Marking
BPCF001313652R0□00	2.0	30	100	0.0117	10	6.2	2R0
BPCF001313654R2□00	4.2	30	100	0.0150	7.3	5.5	4R2
BPCF001313657R0□00	7.0	30	100	0.0177	5.7	5.0	7R0
BPCF00131365100□00	10	20,30	100	0.0202	5.0	4.8	100
BPCF00131365150□00	15	20,30	100	0.0237	4.2	4.4	150
BPCF00131365220□00	22	20,30	100	0.0316	3.5	3.8	220
BPCF00131365330□00	33	20,30	100	0.0406	2.8	3.4	330
BPCF00131365470□00	47	20,30	100	0.0578	2.4	2.8	470
BPCF00131365680□00	68	20,30	100	0.0787	2.0	2.4	680
BPCF00131365101□00	100	20,30	100	0.123	1.6	1.9	101
BPCF00131365221□00	220	20,30	100	0.273	1.0	1.2	221
BPCF00131365102□00	1000	20	100	1.1	0.3	0.35	102

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)±20%	Isat (A)Max	Irms (A)Typ	Marking
BPCF001313751R2□00	1.2	30	100	0.0069	13	8.2	1R2
BPCF001313752R7□00	2.7	30	100	0.0094	10	7.0	2R7
BPCF001313753R9□00	3.9	30	100	0.0104	9	6.7	3R9
BPCF001313755R6□00	5.6	30	100	0.0116	7.8	6.3	5R6
BPCF001313756R8□00	6.8	30	100	0.0131	7.2	5.9	6R8
BPCF00131375100□00	10	20,30	100	0.0156	5.5	5.4	100
BPCF00131375150□00	15	20,30	100	0.0184	4.7	5.0	150
BPCF00131375220□00	22	20,30	100	0.0263	4.0	4.0	220
BPCF00131375330□00	33	20,30	100	0.0395	3.2	3.4	330
BPCF00131375470□00	47	20,30	100	0.0528	2.7	3.0	470
BPCF00131375680□00	68	20,30	100	0.0778	2.0	2.4	680
BPCF00131375101□00	100	20,30	100	0.125	1.9	1.9	101
BPCF00131375151□00	150	20,30	100	0.175	1.5	1.6	151
BPCF00131375221□00	220	20,30	100	0.258	1.3	1.3	221

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
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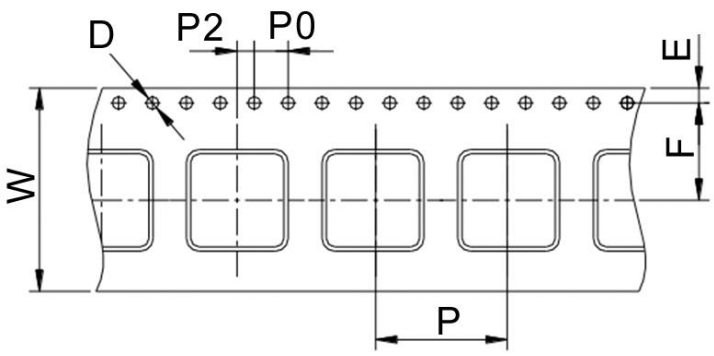
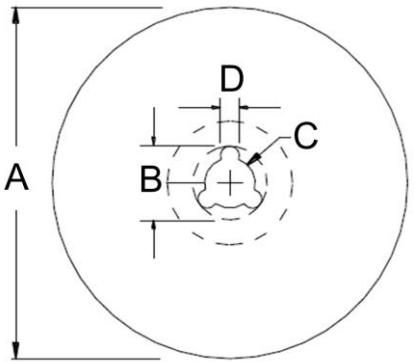
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	W	D	E	F	P	P0	P2	A	B	C	D	PCS / Reel
BPCF00060625	16	1.5	1.75	7.5	8	4	2	330	20	13	2	2000
BPCF00060628	16	1.5	1.75	7.5	8	4	2	330	20	13	2	2000
BPCF00070728	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
BPCF00070732	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
BPCF00070745	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
BPCF00070755	16	1.5	1.75	7.5	12	4	2	330	20	13	2	700
BPCF00101045	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500
BPCF00101065	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500
BPCF00131355	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500
BPCF00131365	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500
BPCF00131375	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500

BPSA Series

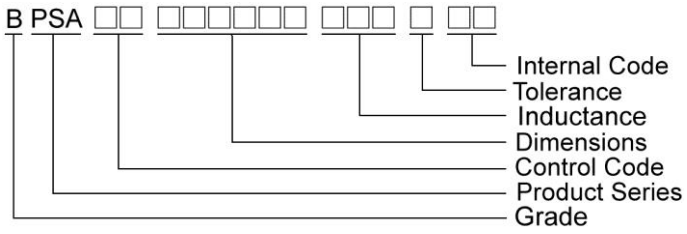
Features

- RoHS, Halogen Free and REACH Compliance
- Magnetically shielded type
- Cost effective
- Low DCR

Applications

- TV
- Laptop
- Mainboard
- Automotive devices
- Commercial devices

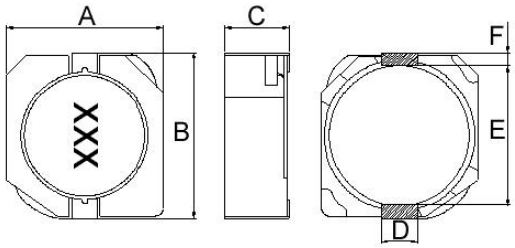
Product Identification

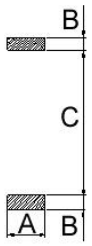


Shape and Dimensions

Recommended Pattern

BPSA00060630

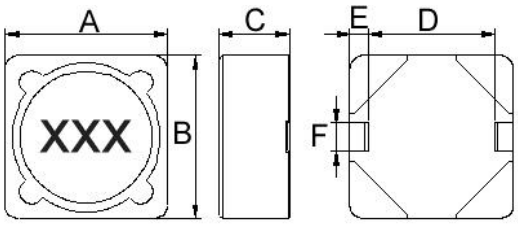


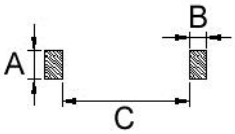


Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPSA00060630	6.3^{+0}	6.3^{+0}	3.0^{+0}	2.0	4.0	0.9	2.2	1.5	4.0

BPSA00070748/070758/131358





Dimension in mm

TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPSA00070748	7.3±0.2	7.3±0.2	4.8^{+0}	5.5	0.9	2.0	2.2	1.5	4.8
BPSA00070758	7.3±0.2	7.3±0.2	5.8^{+0}	5.5	0.9	2.0	2.2	1.5	4.8
BPSA00131358	12.5^{+0}	12.5^{+0}	5.8^{+0}	8.0	2.0	2.7	3.2	2.6	7.5

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

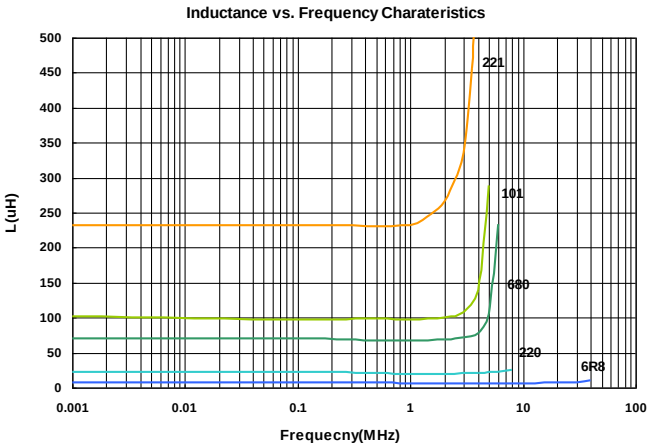
SMD Shielded Power Inductors - BPSA Series

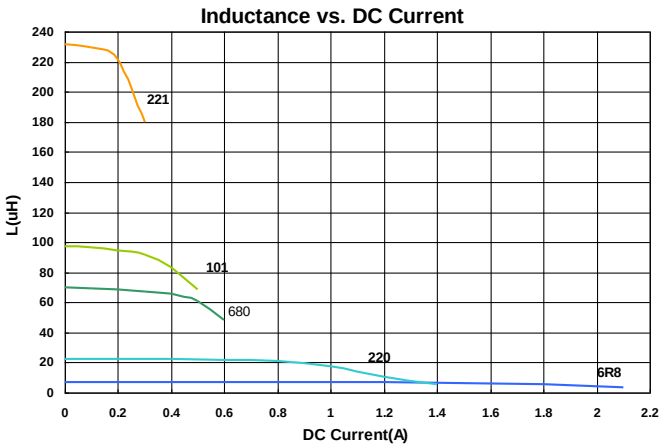
Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	SRF (MHz) Min	RDC (mΩ) Max	Isat (A)	Irms (A)	Marking
BPSA000606306R8T00	6.8	30	100	35	42	1.50	2.20	6R8
BPSA00060630100M00	10	20	100	20	63.8	1.30	1.80	100
BPSA00060630150M00	15	20	100	15	89.4	1.00	1.40	150
BPSA00060630220M00	22	20	100	10	124	0.77	1.30	220
BPSA00060630330M00	33	20	100	7	177	0.69	1.10	330
BPSA00060630470M00	47	20	100	5	252	0.59	0.92	470
BPSA00060630680M00	68	20	100	4	348	0.50	0.78	680
BPSA00060630101M00	100	20	100	4	516	0.42	0.64	101
BPSA00060630151M00	150	20	100	4	780	0.34	0.50	151
BPSA00060630221M00	220	20	100	3.2	1170	0.26	0.38	221

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 25℃ temprature rise from 25℃ ambient
- Measure Equipment：
  L：L: WK6500B+WK6565, 100kHz/ 1V
  RDC：Chroma 16502
  Isat：WK3260B+WK3265B





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

SMD Shielded Power Inductors - BPSA Series

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	SRF (MHz) Min	RDC (mΩ) Max	Isat (A)	Irms (A)	Marking
BPSA000707483R3M00	3.3	20	100	90	24	2.50	2.30	3R3
BPSA000707484R7M00	4.7	20	100	65	36	2.00	2.10	4R7
BPSA000707486R8M00	6.8	20	100	24	40	1.70	1.74	6R8
BPSA00070748100M00	10	20	100	17	43.2	1.30	1.78	100
BPSA00070748150M00	15	20	100	14	62.4	1.10	1.53	150
BPSA00070748220M00	22	20	100	10.5	73.2	0.90	1.34	220
BPSA00070748330M00	33	20	100	10.0	115	0.82	1.09	330
BPSA00070748470M00	47	20	100	8.0	150	0.75	0.92	470
BPSA00070748680M00	68	20	100	7.0	210	0.60	0.77	680
BPSA00070748101M00	100	20	100	6.0	300	0.50	0.65	101
BPSA00070748151M00	150	20	100	4.0	408	0.40	0.55	151
BPSA00070748221M00	220	20	100	3.5	624	0.33	0.45	221
BPSA00070748331M00	330	20	100	3.0	880	0.25	0.37	331
BPSA00070748471M00	470	20	100	2.5	1260	0.22	0.31	471
BPSA00070748681M00	680	20	100	2.1	1770	0.20	0.27	681

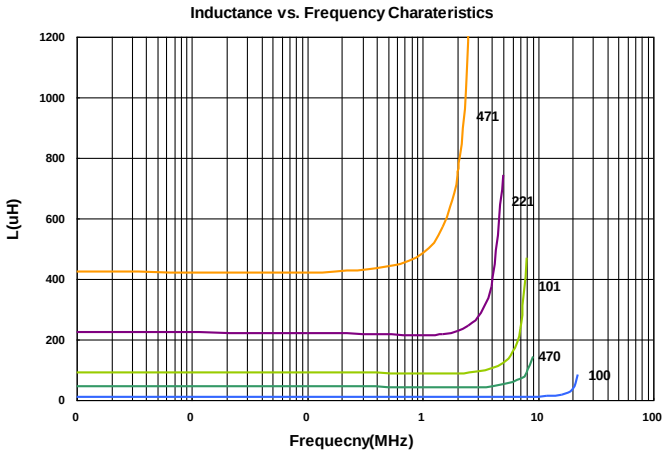
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

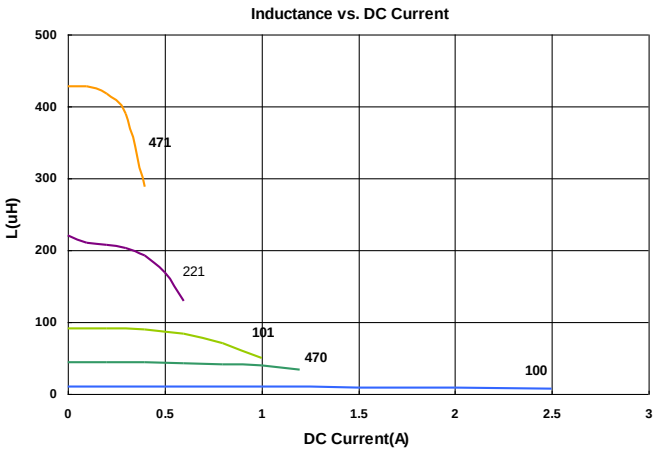
- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 20℃ temprature rise from 25℃ ambient
- Measure Equipment：

  L：L: WK6500B+WK6565, 100kHz/ 1V

  RDC：Chroma 16502

  Isat：WK3260B+WK3265B





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

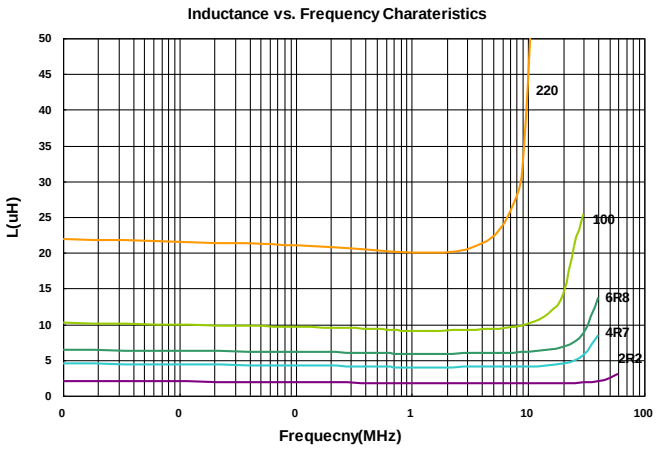
SMD Shielded Power Inductors - BPSA Series

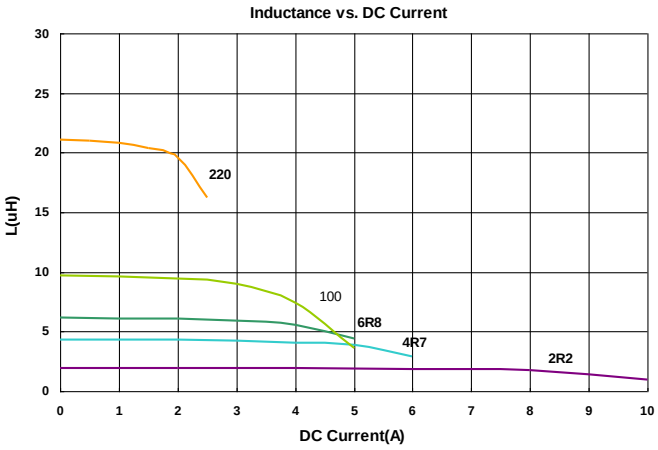
Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	SRF (MHz) Min	RDC (mΩ) Max	Isat (A)	Irms (A)	Marking
BPSA000707581R5T00	1.5	30	100	75	20	6.2	4.0	1R5
BPSA000707582R2T00	2.2	30	100	55	23	5.3	3.5	2R2
BPSA000707583R3T00	3.3	30	100	48	31	4.3	3.3	3R3
BPSA000707584R7T00	4.7	30	100	38	36	3.6	3.1	4R7
BPSA000707586R8T00	6.8	30	100	35	44	3.0	2.8	6R8
BPSA00070758100M00	10	20	100	22	46	2.6	2.5	100
BPSA00070758150M00	15	20	100	14	60.9	2.1	2.2	150
BPSA00070758220M00	22	20	100	8	77	1.7	2.0	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 30℃ temprature rise from 25℃ ambient.
- Measure Equipment：
  L：L: WK6500B+WK6565, 100kHz/ 1V
  RDC：Chroma 16502
  Isat：WK3260B+WK3265B





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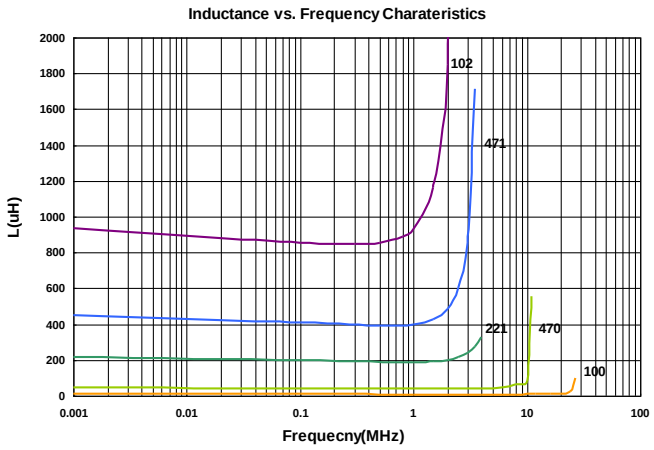
SMD Shielded Power Inductors - BPSA Series

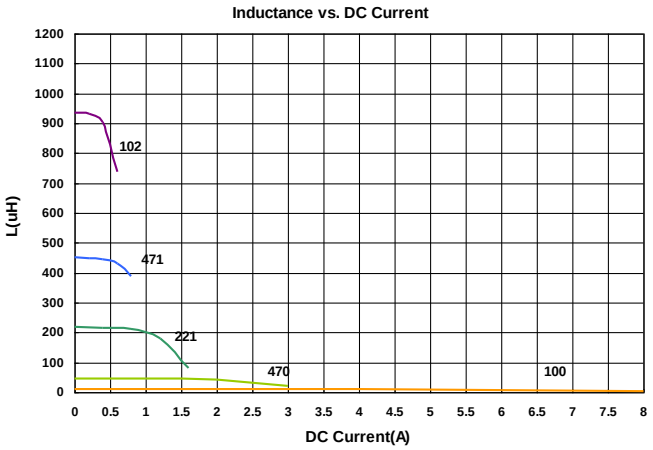
Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	SRF (MHz) Min	RDC (mΩ) Max	Isat (A)	Irms (A)	Marking
BPSA001313586R0T00	6	30	1	26	19.7	3.6	4.9	6R0
BPSA00131358100M00	10	20	1	17	25.8	3.4	4.3	100
BPSA00131358150M00	15	20	1	15	31.0	2.8	3.9	150
BPSA00131358220M00	22	20	1	11	40.6	2.3	3.4	220
BPSA00131358330M00	33	20	1	10	49.8	1.9	3.1	330
BPSA00131358470M00	47	20	1	8	74.2	1.6	2.5	470
BPSA00131358680M00	68	20	1	7	99.8	1.3	2.2	680
BPSA00131358101M00	100	20	1	5.5	140	1.1	1.8	101
BPSA00131358151M00	150	30	1	4.5	228	0.88	1.4	151
BPSA00131358221M00	220	20	1	3.0	324	0.72	1.2	221
BPSA00131358331M00	330	20	1	3.0	492	0.59	1.0	331
BPSA00131358471M00	470	20	1	2.5	624	0.49	0.88	471
BPSA00131358681M00	680	20	1	2.0	912	0.43	0.73	681
BPSA00131358102M00	1000	20	1	1.7	1344	0.34	0.60	102
BPSA00131358152M00	1500	20	1	1.4	2076	0.29	0.48	152

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 30℃ temprature rise from 25℃ ambient.
- Measure Equipment：
  L：L: WK6500B+WK6565, 1kHz/ 1V
  RDC：Chroma 16502
  Isat：WK3260B+WK3265B





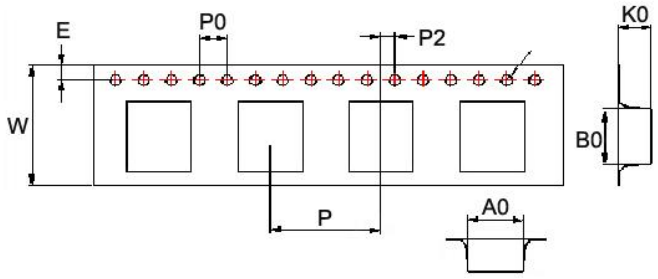
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

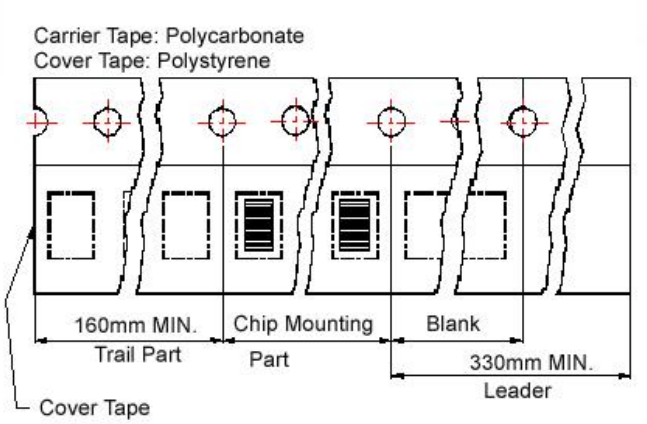
CHILISIN ELECTRONICS CORP.

Packaging Specifications

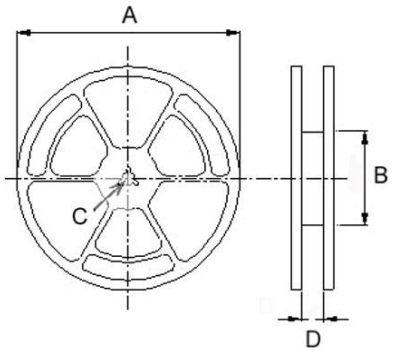
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
BPSA00060630	6.3	6.55	3.3	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BPSA00070748	7.6	7.6	5.2	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BPSA00070758	7.8	7.8	6.0	1.55	1.75	16	12	4	2	330	100	13	16.0	900
BPSA00131358	12.6	12.6	6.7	1.55	1.75	24	16	4	2	330	100	13	24.2	600

BPXX Series

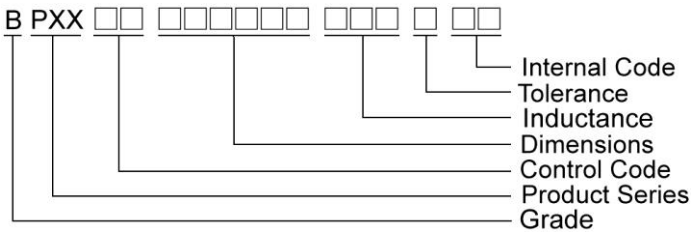
Features

- RoHS compliant
- Low Rdc and high saturation current for portable DC to DC converter line
- High magnetic shielding construction provides high resolution for EMC protection
- Support lead-free soldering

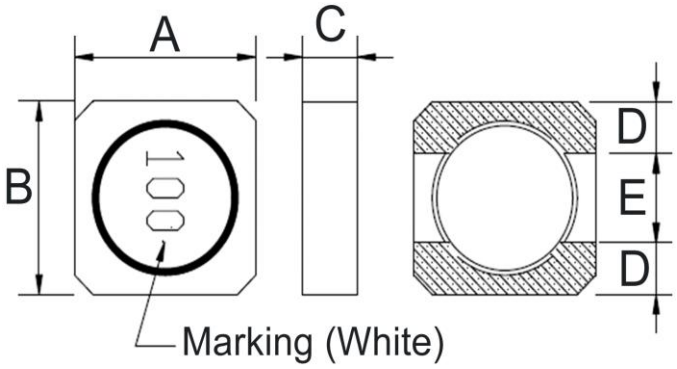
Applications

- Notebook PC
- Set top box
- LCD TV
- LCD displays
- Portable communication device
- DC/DC converters
- SSD
- Networking

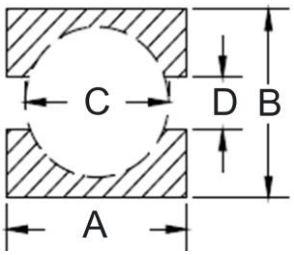
Product Identification



Shape and Dimensions



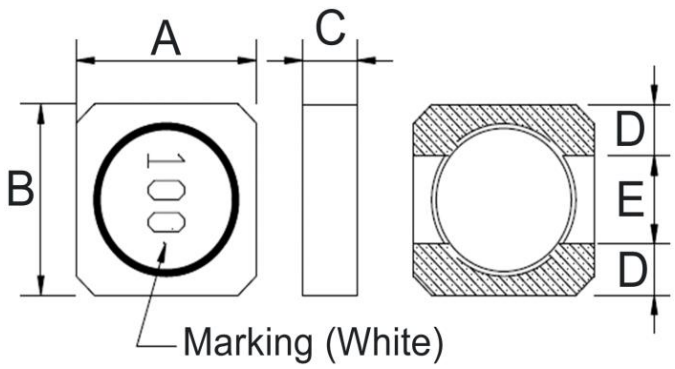
Recommended Pattern



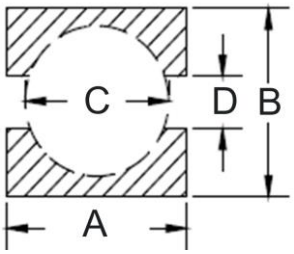
Dimensions in mm

TYPE	Shape and Dimensions					Recommended Pattern			
	A	B	C	D	E	A	B	C	D
BPXX00030310	3.0±0.2	3.0±0.2	1.0Max	0.9	1.2	3.3	3.3	2.2	1.0
BPXX00030312	3.0±0.2	3.0±0.2	1.2Max	0.9	1.2	3.3	3.3	2.2	1.0
BPXX00030315	3.0±0.2	3.0±0.2	1.5Max	0.9	1.2	3.3	3.3	2.2	1.0
BPXX00030320	3.0±0.2	3.0±0.2	2.0Max	0.9	1.2	3.3	3.3	2.2	1.0

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	Shape and Dimensions					Recommended Pattern			
	A	B	C	D	E	A	B	C	D
BPXX00040412	4.0±0.2	4.0±0.2	1.2Max	1.1	1.8	4.4	4.4	2.9	1.8
BPXX00040418	4.0±0.2	4.0±0.2	1.8Max	1.1	1.8	4.4	4.4	2.9	1.8
BPXX00040420	4.0±0.2	4.0±0.2	2.0Max	1.1	1.8	4.4	4.4	2.9	1.8
BPXX00040430	4.0±0.2	4.0±0.2	3.0Max	1.1	1.8	4.4	4.4	2.9	1.8
BPXX00050515	5.0±0.2	5.0±0.2	1.5Max	1.75	1.5	5.4	5.4	3.8	1.5
BPXX00050520	5.0±0.2	5.0±0.2	2.0Max	1.75	1.5	5.4	5.4	3.8	1.5
BPXX00050530	5.0±0.2	5.0±0.2	3.0Max	1.75	1.5	5.4	5.4	3.8	1.5
BPXX00060620	6.0±0.2	6.0±0.2	2.0Max	2.0	2.0	6.6	6.6	4.6	2.0
BPXX00060625	6.0±0.2	6.0±0.2	2.5Max	2.0	2.0	6.6	6.6	4.6	2.0
BPXX00060630	6.0±0.2	6.0±0.2	3.0Max	2.0	2.0	6.6	6.6	4.6	2.0
BPXX00060635	6.0±0.2	6.0±0.2	3.5Max	2.0	2.0	6.6	6.6	4.6	2.0

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX00030310R47□00	0.47	20,30	100	0.07	2.3	2.3	R47
BPXX00030310R56□00	0.56	20,30	100	0.08	2.0	2.0	R56
BPXX000303101R0□00	1.0	20,30	100	0.085	1.6	1.75	1R0
BPXX000303101R2□00	1.2	20,30	100	0.10	1.5	1.7	1R2
BPXX000303101R5□00	1.5	20,30	100	0.12	1.3	1.6	1R5
BPXX000303101R8□00	1.8	20,30	100	0.15	1.2	1.4	1R8
BPXX000303102R2□00	2.2	20,30	100	0.22	1.1	1.15	2R2
BPXX000303103R3□00	3.3	20,30	100	0.22	0.82	1.05	3R3
BPXX000303103R9□00	3.9	20,30	100	0.25	0.78	0.95	3R9
BPXX000303104R7□00	4.7	20,30	100	0.33	0.72	0.80	4R7
BPXX000303105R6□00	5.6	20,30	100	0.40	0.66	0.78	5R6
BPXX000303106R8□00	6.8	20,30	100	0.45	0.62	0.74	6R8
BPXX000303108R2□00	8.2	20,30	100	0.56	0.55	0.71	8R2
BPXX00030310100□00	10	20,30	100	0.63	0.51	0.64	100
BPXX00030310120□00	12	20,30	100	0.74	0.45	0.55	120
BPXX00030310150□00	15	20,30	100	0.95	0.40	0.50	150
BPXX00030310180□00	18	20,30	100	1.0	0.37	0.47	180
BPXX00030310220□00	22	20,30	100	1.2	0.33	0.41	220
BPXX00030310330□00	33	20,30	100	2.0	0.27	0.35	330
BPXX00030310470□00	47	20,30	100	3.2	0.24	0.31	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX00030312R47□00	0.47	30	100	0.05	2.5	2.5	R47
BPXX000303121R0□00	1.0	30	100	0.08	1.8	1.8	1R0
BPXX000303121R2□00	1.2	30	100	0.095	1.65	1.7	1R2
BPXX000303121R5□00	1.5	30	100	0.11	1.5	1.65	1R5
BPXX000303122R0□00	2.0	30	100	0.15	1.3	1.3	2R0
BPXX000303122R2□00	2.2	30	100	0.15	1.3	1.3	2R2
BPXX000303123R3□00	3.3	30	100	0.18	1.0	1.2	3R3
BPXX000303124R7□00	4.7	20,30	100	0.28	0.85	1.05	4R7
BPXX000303125R6□00	5.6	20,30	100	0.36	0.80	0.85	5R6
BPXX000303126R8□00	6.8	20,30	100	0.42	0.75	0.70	6R8
BPXX000303128R2□00	8.2	20,30	100	0.55	0.65	0.65	8R2
BPXX00030312100□00	10	20,30	100	0.62	0.57	0.6	100
BPXX00030312150□00	15	20,30	100	0.8	0.5	0.5	150
BPXX00030312220□00	22	20,30	100	1.2	0.4	0.42	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX000303151R0□00	1.0	20,30	100	0.075	2.0	2.0	1R0
BPXX000303151R5□00	1.5	20,30	100	0.10	1.8	1.7	1R5
BPXX000303151R8□00	1.8	20,30	100	0.10	1.5	1.4	1R8
BPXX000303152R1□00	2.1	20,30	100	0.11	1.5	1.4	2R1
BPXX000303152R2□00	2.2	20,30	100	0.11	1.5	1.4	2R2
BPXX000303153R3□00	3.3	20,30	100	0.13	1.3	1.4	3R3
BPXX000303154R7□00	4.7	20,30	100	0.20	1.1	1.2	4R7
BPXX000303156R8□00	6.8	20,30	100	0.30	0.91	0.90	6R8
BPXX00030315100□00	10	20,30	100	0.44	0.65	0.75	100
BPXX00030315150□00	15	20,30	100	0.70	0.55	0.59	150
BPXX00030315180□00	18	20,30	100	0.75	0.53	0.58	180
BPXX00030315220□00	22	20,30	100	0.825	0.49	0.57	220
BPXX00030315330□00	33	20,30	100	1.30	0.42	0.48	330
BPXX00030315470□00	47	20,30	100	1.55	0.32	0.40	470
BPXX00030315680□00	68	20,30	100	2.25	0.28	0.33	680
BPXX00030315101□00	100	20,30	100	3.4	0.23	0.26	101
BPXX00030315471□00	470	20,30	100	15	0.11	0.11	471

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX000303201R0□00	1.0	20,30	100	0.04	2.8	2.5	1R0
BPXX000303202R2□00	2.2	20,30	100	0.08	2.0	1.8	2R2
BPXX000303203R3□00	3.3	20,30	100	0.10	1.8	1.6	3R3
BPXX000303204R7□00	4.7	20,30	100	0.14	1.6	1.4	4R7
BPXX000303206R8□00	6.8	20,30	100	0.17	1.4	1.2	6R8
BPXX00030320100□00	10	20,30	100	0.4	1.0	0.80	100
BPXX00030320220□00	22	20,30	100	0.6	0.7	0.65	220
BPXX00030320330□00	33	20,30	100	1.0	0.6	0.52	330
BPXX00030320470□00	47	20,30	100	1.35	0.5	0.50	470

Note: When ordering, please specify tolerance 00de. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX00040412R33□00	0.33	20,30	100	0.023	5.6	3.7	R33
BPXX00040412R47□00	0.47	30	100	0.045	4.0	2.5	R47
BPXX00040412R68□00	0.68	30	100	0.055	3.5	2.45	R68
BPXX000404121R0□00	1.0	30	100	0.060	2.8	2.4	1R0
BPXX000404121R2□00	1.2	20,30	100	0.065	2.65	2.3	1R2
BPXX000404121R5□00	1.5	30	100	0.07	2.5	2.2	1R5
BPXX000404122R2□00	2.2	20,30	100	0.10	2.1	1.75	2R2
BPXX000404123R3□00	3.3	20,30	100	0.13	1.5	1.45	3R3
BPXX000404124R7□00	4.7	20,30	100	0.175	1.4	1.3	4R7
BPXX000404125R6□00	5.6	20,30	100	0.26	1.3	1.1	5R6
BPXX000404126R8□00	6.8	20,30	100	0.34	1.2	0.98	6R8
BPXX00040412100□00	10	20,30	100	0.35	0.7	0.75	100
BPXX00040412150□00	15	20,30	100	0.55	0.6	0.73	150
BPXX00040412470□00	47	20,30	100	1.4	0.38	0.52	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX00040418R56□00	0.56	20,30	100	0.030	4.8	2.80	R56
BPXX00040418R68□00	0.68	30	100	0.035	4.5	2.75	R68
BPXX000404181R0□00	1.0	30	100	0.04	3.4	2.7	1R0
BPXX000404181R5□00	1.5	30	100	0.05	2.7	2.5	1R5
BPXX000404181R6□00	1.6	20,30	100	0.05	2.7	2.5	1R6
BPXX000404181R8□00	1.8	30	100	0.06	2.6	2.4	1R8
BPXX000404182R2□00	2.2	20,30	100	0.07	2.5	2.2	2R2
BPXX000404182R5□00	2.5	20,30	100	0.075	2.4	2.1	2R5
BPXX000404183R3□00	3.3	20,30	100	0.08	2.2	2.0	3R3
BPXX000404183R6□00	3.6	20,30	100	0.10	2.0	1.8	3R6
BPXX000404183R9□00	3.9	20,30	100	0.10	2.0	1.8	3R9
BPXX000404184R7□00	4.7	20,30	100	0.125	1.7	1.6	4R7
BPXX000404185R6□00	5.6	20,30	100	0.135	1.5	1.45	5R6
BPXX000404186R8□00	6.8	20,30	100	0.15	1.2	1.30	6R8
BPXX00040418100□00	10	20,30	100	0.20	1.1	1.15	100
BPXX00040418150□00	15	20,30	100	0.28	0.86	0.90	150
BPXX00040418180□00	18	20,30	100	0.30	0.78	0.88	180
BPXX00040418220□00	22	20,30	100	0.36	0.74	0.85	220
BPXX00040418330□00	33	20,30	100	0.46	0.58	0.77	330
BPXX00040418470□00	47	20,30	100	0.75	0.51	0.63	470
BPXX00040418680□00	68	20,30	100	1.07	0.41	0.48	680
BPXX00040418820□00	82	20,30	100	1.22	0.38	0.44	820
BPXX00040418101□00	100	20,30	100	1.64	0.34	0.42	101
BPXX00040418121□00	120	20,30	100	1.88	0.31	0.38	121
BPXX00040418151□00	150	20,30	100	2.45	0.27	0.31	151
BPXX00040418181□00	180	20,30	100	2.91	0.24	0.30	181
BPXX00040418221□00	220	20,30	100	4.2	0.22	0.24	221
BPXX00040418331□00	330	20,30	100	5.9	0.18	0.22	331
BPXX00040418471□00	470	20,30	100	7.1	0.14	0.20	471
BPXX00040418561□00	560	20,30	100	10	0.13	0.18	561
BPXX00040418681□00	680	20,30	100	11.5	0.12	0.16	681
BPXX00040418821□00	820	20,30	100	17.8	0.11	0.12	821
BPXX00040418102□00	1000	20,30	100	19.4	0.10	0.10	102
BPXX00040418152□00	1500	20,30	100	30	0.08	0.08	152

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

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- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX000404201R8□00	1.8	30	100	0.051	1.97	2.37	1R8
BPXX000404202R2□00	2.2	30	100	0.059	1.72	2.19	2R2
BPXX000404203R3□00	3.3	30	100	0.078	1.52	1.94	3R3
BPXX000404204R7□00	4.7	20,30	100	0.098	1.24	1.71	4R7
BPXX000404206R8□00	6.8	20,30	100	0.131	1.05	1.47	6R8
BPXX00040420100□00	10	20,30	100	0.185	0.85	1.0	100
BPXX00040420150□00	15	20,30	100	0.241	0.70	0.9	150
BPXX00040420220□00	22	20,30	100	0.431	0.56	0.8	220
BPXX00040420330□00	33	20,30	100	0.628	0.47	0.69	330
BPXX00040420470□00	47	20,30	100	0.934	0.39	0.56	470
BPXX00040420680□00	68	20,30	100	1.2	0.32	0.5	680
BPXX00040420101□00	100	20,30	100	1.4	0.26	0.4	101
BPXX00040420561□00	560	20,30	100	6.6	0.12	0.2	561

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
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- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX000404301R0□00	1.0	30	100	0.020	2.80	3.3	1R0
BPXX000404301R2□00	1.2	30	100	0.025	2.65	3.1	1R2
BPXX000404301R5□00	1.5	30	100	0.028	2.6	3.0	1R5
BPXX000404302R2□00	2.2	30	100	0.035	2.3	2.7	2R2
BPXX000404303R3□00	3.3	20,30	100	0.045	2.1	2.5	3R3
BPXX000404304R7□00	4.7	20,30	100	0.055	2.0	2.3	4R7
BPXX000404306R8□00	6.8	20,30	100	0.078	1.5	2.0	6R8
BPXX00040430100□00	10	20,30	100	0.130	1.0	1.5	100
BPXX00040430120□00	12	20,30	100	0.175	0.9	1.4	120
BPXX00040430150□00	15	20,30	100	0.21	0.85	1.3	150
BPXX00040430220□00	22	20,30	100	0.29	0.8	1.1	220
BPXX00040430330□00	33	20,30	100	0.455	0.7	0.85	330
BPXX00040430470□00	47	20,30	100	0.685	0.6	0.70	470
BPXX00040430680□00	68	20,30	100	0.955	0.5	0.55	680
BPXX00040430820□00	82	20,30	100	1.1	0.45	0.45	820
BPXX00040430101□00	100	20,30	100	1.5	0.4	0.40	101
BPXX00040430151□00	150	20,30	100	2.4	0.3	0.35	151
BPXX00040430181□00	180	20,30	100	3.6	0.25	0.30	181
BPXX00040430471□00	470	20,30	100	5.5	0.14	0.15	471
BPXX00040430102□00	1000	20,30	100	9	0.12	0.12	102
BPXX00040430122□00	1200	20,30	100	14	0.11	0.11	122
BPXX00040430222□00	2200	20,30	100	18	0.09	0.09	222

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX000505151R0□00	1.0	20,30	100	0.05	3.5	2.65	1R0
BPXX000505151R2□00	1.2	20,30	100	0.05	3.5	2.65	1R2
BPXX000505151R3□00	1.3	20,30	100	0.065	2.6	2.35	1R3
BPXX000505151R5□00	1.5	20,30	100	0.065	2.6	2.35	1R5
BPXX000505151R8□00	1.8	30	100	0.075	2.6	2.15	1R8
BPXX000505152R2□00	2.2	20,30	100	0.09	2.6	2.0	2R2
BPXX000505153R3□00	3.3	20,30	100	0.125	2.0	1.8	3R3
BPXX000505154R7□00	4.7	20,30	100	0.150	1.7	1.62	4R7
BPXX000505155R6□00	5.6	20,30	100	0.175	1.6	1.45	5R6
BPXX000505156R8□00	6.8	20,30	100	0.225	1.4	1.25	6R8
BPXX000505158R2□00	8.2	20,30	100	0.28	1.3	1.05	8R2
BPXX00050515100□00	10	20,30	100	0.30	1.1	0.95	100
BPXX00050515120□00	12	20,30	100	0.35	1.0	0.84	120
BPXX00050515150□00	15	20,30	100	0.36	0.7	0.84	150
BPXX00050515180□00	18	20,30	100	0.55	0.65	0.83	180
BPXX00050515220□00	22	20,30	100	0.675	0.65	0.82	220
BPXX00050515330□00	33	20,30	100	0.75	0.50	0.70	330
BPXX00050515470□00	47	20,30	100	1.0	0.45	0.57	470
BPXX00050515560□00	56	20,30	100	1.13	0.40	0.52	560
BPXX00050515680□00	68	20,30	100	1.45	0.38	0.47	680
BPXX00050515101□00	100	20,30	100	1.95	0.28	0.42	101
BPXX00050515121□00	120	20,30	100	2.5	0.28	0.37	121
BPXX00050515151□00	150	20,30	100	3.4	0.24	0.33	151
BPXX00050515221□00	220	20,30	100	4.5	0.20	0.29	221
BPXX00050515331□00	330	20,30	100	7.4	0.165	0.22	331
BPXX00050515471□00	470	20,30	100	7.5	0.12	0.21	471
BPXX00050515561□00	560	20,30	100	8.5	0.11	0.19	561
BPXX00050515681□00	680	20,30	100	10.6	0.10	0.175	681
BPXX00050515102□00	1000	20,30	100	20	0.08	0.15	102

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX00050520R30□00	0.30	30	100	0.00875	6.0	7	R30
BPXX00050520R33□00	0.33	30	100	0.01065	5.8	6	R33
BPXX00050520R68□00	0.68	30	100	0.01470	4.0	5.2	R68
BPXX000505201R0□00	1.0	30	100	0.02455	3.5	4.0	1R0
BPXX000505201R3□00	1.3	30	100	0.035	3.2	3.3	1R3
BPXX000505201R5□00	1.5	30	100	0.035	3.2	3.3	1R5
BPXX000505201R8□00	1.8	20,30	100	0.045	3.0	3.0	1R8
BPXX000505202R2□00	2.2	20,30	100	0.055	2.7	2.75	2R2
BPXX000505202R5□00	1.3	20,30	100	0.060	2.6	2.6	2R5
BPXX000505202R7□00	1.3	20,30	100	0.062	2.5	2.6	2R7
BPXX000505203R3□00	3.3	20,30	100	0.065	2.4	2.5	3R3
BPXX000505204R7□00	4.7	20,30	100	0.08	2.1	2.0	4R7
BPXX000505205R6□00	5.6	20,30	100	0.09	1.95	1.9	5R6
BPXX000505206R8□00	6.8	20,30	100	0.105	1.8	1.7	6R8
BPXX000505208R2□00	8.2	20,30	100	0.12	1.6	1.6	8R2
BPXX00050520100□00	10	20,30	100	0.15	1.4	1.5	100
BPXX00050520150□00	15	20,30	100	0.27	1.1	1.2	150
BPXX00050520220□00	22	20,30	100	0.35	0.78	0.9	220
BPXX00050520330□00	33	20,30	100	0.48	0.65	0.8	330
BPXX00050520470□00	47	20,30	100	0.75	0.60	0.7	470
BPXX00050520101□00	100	20,30	100	1.21	0.34	0.55	101
BPXX00050520121□00	120	20,30	100	1.60	0.30	0.48	121
BPXX00050520151□00	150	20,30	100	2.25	0.28	0.40	151
BPXX00050520221□00	220	20,30	100	3.3	0.26	0.37	221
BPXX00050520331□00	330	20,30	100	4.2	0.22	0.30	331

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX000505301R2□00	1.2	20,30	100	0.040	3.5	2.65	1R2
BPXX000505302R2□00	2.2	30	100	0.057	3.1	2.15	2R2
BPXX000505303R3□00	3.3	20,30	100	0.066	2.5	1.80	3R3
BPXX000505304R7□00	4.7	20,30	100	0.083	2.0	1.75	4R7
BPXX000505306R8□00	6.8	20,30	100	0.099	1.7	1.6	6R8
BPXX000505308R2□00	8.2	20,30	100	0.12	1.6	1.5	8R2
BPXX00050530100□00	10	20,30	100	0.15	1.5	1.4	100
BPXX00050530120□00	12	20,30	100	0.16	1.4	1.3	120
BPXX00050530150□00	15	20,30	100	0.175	1.3	1.2	150
BPXX00050530220□00	22	20,30	100	0.19	1.0	1.1	220
BPXX00050530270□00	27	20,30	100	0.27	0.9	1.0	270
BPXX00050530330□00	33	20,30	100	0.35	0.8	0.9	330
BPXX00050530470□00	47	20,30	100	0.50	0.75	0.75	470
BPXX00050530560□00	56	20,30	100	0.65	0.65	0.65	560
BPXX00050530680□00	68	20,30	100	0.75	0.60	0.60	680
BPXX00050530101□00	100	20,30	100	0.90	0.45	0.55	101
BPXX00050530221□00	220	20,30	100	1.35	0.25	0.45	221
BPXX00050530331□00	330	20,30	100	1.8	0.17	0.42	331
BPXX00050530821□00	820	20,30	100	5.0	0.12	0.26	821
BPXX00050530102□00	1000	20,30	100	5.1	0.11	0.25	102
BPXX00050530152□00	1500	20	100	7.6	0.09	0.18	152
BPXX00050530222□00	2200	20	100	11	0.08	0.15	222

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX000606201R2□00	1.2	30	100	0.03	3.5	3.0	1R2
BPXX000606201R3□00	1.3	30	100	0.0305	3.2	3.0	1R3
BPXX000606201R5□00	1.5	30	100	0.0305	3.2	3.0	1R5
BPXX000606201R8□00	1.8	30	100	0.0375	3.0	2.6	1R8
BPXX000606202R2□00	2.2	30	100	0.04	2.7	2.4	2R2
BPXX000606202R5□00	2.5	20,30	100	0.04	2.7	2.4	1R5
BPXX000606203R3□00	3.3	20,30	100	0.06	2.5	2.3	3R3
BPXX000606204R7□00	4.7	20,30	100	0.07	2.1	2.0	4R7
BPXX000606206R2□00	6.2	20,30	100	0.085	1.9	1.8	6R2
BPXX000606206R8□00	6.8	20,30	100	0.085	1.9	1.8	6R8
BPXX000606208R2□00	8.2	20,30	100	0.125	1.7	1.5	8R2
BPXX00060620100□00	10	20,30	100	0.15	1.4	1.2	100
BPXX00060620150□00	15	20,30	100	0.22	1.1	1.1	150
BPXX00060620220□00	22	20,30	100	0.32	1.0	0.9	220
BPXX00060620330□00	33	20,30	100	0.45	0.9	0.8	330
BPXX00060620470□00	47	20,30	100	0.6	0.85	0.7	470
BPXX00060620101□00	100	20,30	100	1.2	0.5	0.45	101

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX000606251R0□00	1.0	30	100	0.035	5.5	1.80	1R0
BPXX000606251R2□00	1.2	30	100	0.040	5.3	1.65	1R2
BPXX000606251R5□00	1.5	30	100	0.040	5.3	1.65	1R5
BPXX000606252R2□00	2.2	30	100	0.045	3.9	1.40	2R2
BPXX000606253R3□00	3.3	20,30	100	0.055	3.5	1.35	3R3
BPXX000606254R7□00	4.7	20,30	100	0.065	3.1	1.3	4R7
BPXX000606255R0□00	5.0	30	100	0.065	3.1	1.3	5R0
BPXX000606256R8□00	6.8	20,30	100	0.095	2.7	1.3	6R8
BPXX000606258R2□00	8.2	20,30	100	0.100	2.2	1.3	8R2
BPXX00060625100□00	10	20,30	100	0.105	2.0	1.3	100
BPXX00060625150□00	15	20,30	100	0.135	2.0	1.2	150
BPXX00060625220□00	22	20,30	100	0.175	1.4	1.1	220
BPXX00060625330□00	33	20,30	100	0.26	1.1	0.9	330
BPXX00060625470□00	47	20,30	100	0.42	0.98	0.8	470
BPXX00060625680□00	68	20,30	100	0.42	0.59	0.74	470
BPXX00060625101□00	100	20,30	100	0.61	0.48	0.64	101
BPXX00060625121□00	120	20,30	100	0.75	0.43	0.58	121
BPXX00060625151□00	150	20,30	100	0.92	0.40	0.54	151
BPXX00060625221□00	220	20,30	100	1.3	0.32	0.50	221
BPXX00060625331□00	330	20,30	100	2.0	0.26	0.39	331
BPXX00060625471□00	470	20,30	100	2.6	0.22	0.37	471
BPXX00060625681□00	680	20,30	100	4	0.18	0.26	681
BPXX00060625102□00	1000	20,30	100	6	0.15	0.24	102

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX000606301R0□00	1.0	30	100	0.01385	4.2	4.5	1R0
BPXX000606301R5□00	1.5	30	100	0.0190	4.0	4.0	1R5
BPXX000606302R2□00	2.2	30	100	0.02375	3.8	3.8	2R2
BPXX000606302R7□00	2.7	20,30	100	0.032	3.7	3.7	2R7
BPXX000606303R3□00	3.3	20,30	100	0.036	3.6	2.75	3R3
BPXX000606304R7□00	4.7	20,30	100	0.045	3.3	2.5	4R7
BPXX000606305R0□00	5.0	30	100	0.045	3.3	2.5	5R0
BPXX000606306R2□00	6.2	20,30	100	0.056	2.5	2.4	6R2
BPXX000606306R8□00	6.8	20,30	100	0.056	2.5	2.4	6R8
BPXX000606308R2□00	8.2	20,30	100	0.070	2.3	2.3	8R2
BPXX00060630100□00	10	20,30	100	0.085	2.2	2.2	100
BPXX00060630120□00	12	20,30	100	0.10	1.9	1.9	120
BPXX00060630150□00	15	20,30	100	0.12	1.7	1.6	150
BPXX00060630180□00	18	20,30	100	0.14	1.6	1.5	180
BPXX00060630220□00	22	20,30	100	0.16	1.5	1.4	220
BPXX00060630330□00	33	20,30	100	0.22	1.3	1.1	330
BPXX00060630470□00	47	20,30	100	0..3	1.1	1.0	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

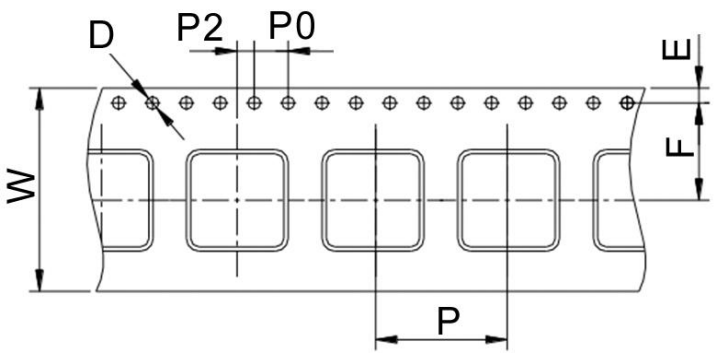
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat 1 (A)Typ	Isat 2 (A)Typ	Isat 3 (A)Typ	Irms (A)Typ	Marking
BPXX00060635100□00	10	20,30	100	0.10	2.3	2.4	2.5	1.8	100
BPXX00060635220□00	22	20,30	100	0.145	1.6	1.7	1.7	2.0	220
BPXX00060635330□00	33	20,30	100	0.18	1.3	1.4	1.5	1.3	330
BPXX00060635470□00	47	20,30	100	0.245	1.1	1.2	1.2	1.2	470
BPXX00060635560□00	56	20,30	100	0.280	1.0	1.0	1.1	1.07	560
BPXX00060635680□00	68	20,30	100	0.345	0.9	0.94	0.96	1.1	680
BPXX00060635101□00	100	20,30	100	0.375	0.46	0.52	0.54	0.9	101
BPXX00060635221□00	220	20,30	100	0.72	0.31	0.36	0.37	0.64	221
BPXX00060635471□00	470	20,30	100	1.6	0.22	0.25	0.26	0.43	471
BPXX00060635681□00	680	20,30	100	2.2	0.17	0.19	0.21	0.37	681
BPXX00060635102□00	1000	20,30	100	3.2	0.14	0.17	0.18	0.30	102
BPXX00060635152□00	1500	20,30	100	4.6	0.12	0.13	0.14	0.26	152
BPXX00060635103□00	10000	20,30	1	30.5	0.05	0.055	0.06	0.095	103

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

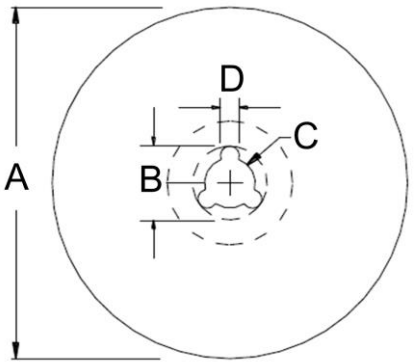
- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat 1 for Inductance drop 10% from its value without current
- Isat 2 for Inductance drop 20% from its value without current
- Isat 3 for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat1~3 or Irms

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	W	D	E	F	P	P0	P2	A	B	C	D	PCS / Reel
BPXX00030310	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1500
BPXX00030312	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1500
BPXX00030315	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
BPXX00030320	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
BPXX00040412	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
BPXX00040418	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
BPXX00040420	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
BPXX00040430	12	1.5	1.75	5.5	8	4	2	178	20	13	2	600
BPXX00050515	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
BPXX00050520	12	1.5	1.75	5.5	8	4	2	178	20	13	2	900
BPXX00050530	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2000
BPXX00060620	16	1.5	1.75	7.5	12	4	2	330	20	13	2	2000
BPXX00060625	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1500
BPXX00060630	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1500
BPXX00060635	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1500

BPSD Series

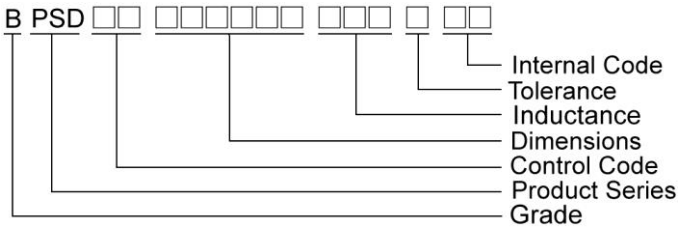
Features

- RoHS, Halogen Free and REACH Compliance
- Unshielded power inductor
- Various package size and wide inductance range

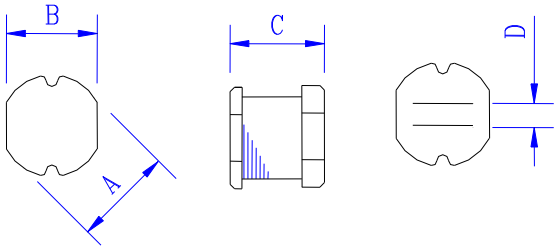
Applications

- Graphic cards
- DC/DC converters

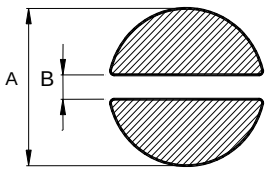
Product Identification



Shape and Dimensions



Recommended Pattern



PAD LAYOUT

Dimensions in mm

TYPE	A	B	C	D
BPSD00030315	3.3±0.3	3.0±0.3	1.5±0.3	1.0
BPSD00030321	3.3±0.3	3.0±0.3	2.1±0.3	1.0
BPSD00050432	4.5±0.3	4.0±0.3	3.2±0.3	1.2
BPSD00060525	5.8±0.3	5.2±0.3	2.5±0.3	2.0
BPSD00060530	5.8±0.3	5.2±0.3	3±0.3	2.0
BPSD00060545	5.8±0.3	5.2±0.3	4.5±0.4	1.3
BPSD00080735	7.8±0.3	7.0±0.3	3.5±0.3	2.1
BPSD00080750	7.8±0.3	7.0±0.3	5.0±0.3	2.1
BPSD00109040	10.0±0.3	9.0±0.3	4.0±0.5	2.1
BPSD00100954	10.0±0.4	9.0±0.4	5.4±0.4	2.1
BPSD00100965	10.0±0.4	9.0±0.4	6.5±0.4	2.1

Dimensions in mm

Dim	A	B
BPSD00030315	4.5	1.0
BPSD00030321	4.5	1.0
BPSD00050432	5.5	1.2
BPSD00060525	6.8	2.0
BPSD00060530	6.8	2.0
BPSD00060545	6.8	1.3
BPSD00080735	8.8	2.1
BPSD00080750	8.8	2.1
BPSD00109040	11	2.1
BPSD00100954	11	2.1
BPSD00100965	11	2.1

Electrical Characteristics

Part Number	Inductance (µH)	Tolerance (±%)	Test Frequency	RDC (Ω)	Isat (A)	Irms (A)	Marking
BPSD000303152R2□00	2.2	20	1 MHz,1 V	0.10±30%	0.79	1	CC
BPSD000303153R3□00	3.3	20	1 MHz,1 V	0.11±30%	0.73	0.97	DD
BPSD000303154R7□00	4.7	20	1 MHz,1 V	0.15±30%	0.65	0.93	EH
BPSD000303155R6□00	5.6	20	1 MHz,1 V	0.15±30%	0.6	0.9	FG
BPSD000303156R8□00	6.8	20	1 MHz,1 V	0.20±30%	0.77	0.85	GI
BPSD00030315100□00	10	20	1 MHz,1 V	0.30±30%	0.45	0.52	KA
BPSD00030315150□00	15	20	1 MHz,1 V	0.58±30%	0.3	0.35	MA
BPSD00030315220□00	22	10,20	1 MHz,1 V	0.71±30%	0.25	0.29	LA
BPSD00030315330□00	33	20	1 MHz,1 V	1.10±30%	0.2	0.23	NA
BPSD00030315390□00	39	20	1 MHz,1 V	1.30±30%	0.17	0.2	PA
BPSD00030315470□00	47	20	1 MHz,1 V	1.30±30%	0.17	0.2	OA
BPSD00030315680□00	68	20	1 MHz,1 V	2.20±30%	0.13	0.15	VA
BPSD00030315101□00	100	20	1 MHz,1 V	3.50±30%	0.1	0.12	KB
BPSD00030315221□00	220	20	1 MHz,1 V	10.92Max	0.07	0.08	LB

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- Measure Equipment：

  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)

  RDC：Chroma 16502

  Isat：HP4284+42841A or WK3260B+WK3265B

  Irms: WK3255BQ+ WK3265B (or equivalent)

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat (A)	Irms (A)	Marking
BPSD00030321R82□00	0.82	30	7.96 MHz,1 V	0.06	2.2	2.53	AX
BPSD000303211R0□00	1	20	7.96 MHz,1 V	0.07	2.08	2.39	BA
BPSD000303211R2□00	1.2	20	7.96 MHz,1 V	0.08	2	2.30	BC
BPSD000303211R4□00	1.4	20	7.96 MHz,1 V	0.09	1.86	2.14	BE
BPSD000303211R5□00	1.5	20	7.96 MHz,1 V	0.11	1.8	2.07	BF
BPSD000303211R8□00	1.8	20	7.96 MHz,1 V	0.11	1.8	2.07	BI
BPSD000303212R2□00	2.2	20	7.96 MHz,1 V	0.13	1.39	1.60	CC
BPSD000303212R7□00	2.7	20	7.96 MHz,1 V	0.14	1.32	1.52	CH
BPSD000303213R3□00	3.3	10,20	7.96 MHz,1 V	0.17	1.25	1.44	DD
BPSD000303213R9□00	3.9	20	7.96 MHz,1 V	0.19	1.2	1.38	DJ
BPSD000303214R7□00	4.7	20	7.96 MHz,1 V	0.21	1.13	1.30	EH
BPSD000303215R6□00	5.6	20	7.96 MHz,1 V	0.22	0.91	1.05	FG
BPSD000303216R8□00	6.8	20	7.96 MHz,1 V	0.25	0.85	0.98	GI
BPSD000303217R0□00	7	20	7.96 MHz,1 V	0.28	0.82	0.94	HA
BPSD000303218R2□00	8.2	20	7.96 MHz,1 V	0.28	0.82	0.94	IC
BPSD00030321100□00	10	10,20	2.52 MHz,1 V	0.32	0.74	0.85	KA
BPSD00030321120□00	12	20	2.52 MHz,1 V	0.35	0.64	0.74	QA
BPSD00030321150□00	15	20	2.52 MHz,1 V	0.4	0.6	0.69	MA
BPSD00030321180□00	18	20	2.52 MHz,1 V	0.48	0.54	0.62	RA
BPSD00030321220□00	22	10,20	2.52 MHz,1 V	0.58	0.5	0.58	LA
BPSD00030321270□00	27	20	2.52 MHz,1 V	0.65	0.43	0.49	SA
BPSD00030321330□00	33	20	2.52 MHz,1 V	0.8	0.4	0.46	NA
BPSD00030321390□00	39	20	2.52 MHz,1 V	0.9	0.37	0.43	PA
BPSD00030321470□00	47	20	2.52 MHz,1 V	1.19	0.36	0.41	OA
BPSD00030321500□00	50	20	2.52 MHz,1 V	1.22	0.33	0.38	TA
BPSD00030321560□00	56	20	2.52 MHz,1 V	1.27	0.31	0.36	UA
BPSD00030321680□00	68	10,20	2.52 MHz,1 V	1.73	0.3	0.35	VA
BPSD00030321750□00	75	20	2.52 MHz,1 V	1.9	0.29	0.33	WA

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

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- Irms for a 40℃ temperature rise from 25℃ ambient.
- Measure Equipment：

  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)

  RDC：Chroma 16502

  Isat：HP4284+42841A or WK3260B+WK3265B

  Irms: WK3255BQ+ WK3265B (or equivalent)

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat (A)	Irms (A)	Marking
BPSD00030321820□00	82	10,20	2.52 MHz,1 V	1.99	0.28	0.32	XA
BPSD00030321101□00	100	10,20	1 kHz,1 V	2.52	0.25	0.29	KB
BPSD00030321121□00	120	10,20	1 kHz,1 V	2.9	0.2	0.23	QB
BPSD00030321151□00	150	20	1 kHz,1 V	3.36	0.19	0.22	MB
BPSD00030321181□00	180	20	1 kHz,1 V	5.1	0.17	0.20	RB
BPSD00030321221□00	220	10,20	1 kHz,1 V	5.8	0.16	0.18	LB
BPSD00030321271□00	270	10,20	1 kHz,1 V	7.8	0.14	0.16	SB

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat (A)	Irms (A)	Marking
BPSD00050432R15□00	0.15	30	7.96 MHz,1 V	0.0085	7.5	7.5	R15
BPSD000504321R0□00	1.0	10,20	7.96 MHz,1 V	0.033	3.8	3.8	1R0
BPSD000504321R2□00	1.2	20	7.96 MHz,1 V	0.035	3.5	3.5	1R2
BPSD000504321R4□00	1.4	20	7.96 MHz,1 V	0.038	3.3	3.3	1R4
BPSD000504321R8□00	1.8	10,20	7.96 MHz,1 V	0.042	2.91	2.91	1R8
BPSD000504322R2□00	2.2	10,20	7.96 MHz,1 V	0.047	2.6	2.6	2R2
BPSD000504322R7□00	2.7	20	7.96 MHz,1 V	0.052	2.43	2.43	2R7
BPSD000504323R3□00	3.3	10,20	7.96 MHz,1 V	0.058	2.15	2.15	3R3
BPSD000504323R9□00	3.9	20	7.96 MHz,1 V	0.076	1.98	1.98	3R9
BPSD000504324R7□00	4.7	10,20	7.96 MHz,1 V	0.094	1.7	1.7	4R7
BPSD000504325R6□00	5.6	10,20	7.96 MHz,1 V	0.101	1.6	1.6	5R6
BPSD000504326R2□00	6.2	20	7.96 MHz,1 V	0.11	1.5	1.5	6R2
BPSD000504326R8□00	6.8	10,20	7.96 MHz,1 V	0.117	1.41	1.41	6R8
BPSD000504328R2□00	8.2	10,20	7.96 MHz,1 V	0.132	1.26	1.26	8R2
BPSD00050432100□00	10	10,20	2.52 MHz,1 V	0.182	1.15	1.15	100
BPSD00050432120□00	12	20	2.52 MHz,1 V	0.21	1.05	1.05	120
BPSD00050432150□00	15	10,20	2.52 MHz,1 V	0.235	0.92	0.92	150
BPSD00050432180□00	18	20	2.52 MHz,1 V	0.338	0.84	0.84	180
BPSD00050432220□00	22	10,20	2.52 MHz,1 V	0.378	0.76	0.76	220
BPSD00050432270□00	27	10,20	2.52 MHz,1 V	0.522	0.71	0.71	270
BPSD00050432330□00	33	10,20	2.52 MHz,1 V	0.54	0.64	0.64	330
BPSD00050432390□00	39	10,20	2.52 MHz,1 V	0.587	0.59	0.59	390
BPSD00050432470□00	47	10,20	2.52 MHz,1 V	0.844	0.54	0.54	470
BPSD00050432560□00	56	10,20	2.52 MHz,1 V	0.937	0.5	0.5	560
BPSD00050432680□00	68	10,20	2.52 MHz,1 V	1.117	0.46	0.46	680
BPSD00050432101□00	100	10,20	1kHz,1 V	2	0.4	0.4	101
BPSD00050432121□00	120	10,20	1kHz,1 V	1.8	0.38	0.38	121
BPSD00050432151□00	150	10,20	1kHz,1 V	2.8	0.3	0.3	151
BPSD00050432181□00	180	10,20	1kHz,1 V	3.2	0.25	0.25	181
BPSD0005043221□00	220	10,20	1kHz,1 V	4	0.15	0.15	221
BPSD00050432331□00	330	10,20	1kHz,1 V	5.85	0.21	0.21	331

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- Measure Equipment：

  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)

  RDC：Chroma 16502

  Isat：HP4284+42841A or WK3260B+WK3265B / Irms: WK3255BQ+ WK3265B (or equivalent)

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat (A)	Irms (A)	Marking
BPSD000605251R0□00	1	20	7.96 MHz,1 V	0.03	4.5	4.5	1R0
BPSD000605251R4□00	1.4	20	7.96 MHz,1 V	0.04	4	4	1R4
BPSD000605251R8□00	1.8	20	7.96 MHz,1 V	0.05	3.3	3.3	1R8
BPSD000605252R2□00	2.2	20	7.96 MHz,1 V	0.06	2.94	2.94	2R2
BPSD000605252R7□00	2.7	20	7.96 MHz,1 V	0.07	2.5	2.5	2R7
BPSD000605253R3□00	3.3	20	7.96 MHz,1 V	0.08	2.35	2.35	3R3
BPSD000605253R9□00	3.9	20	7.96 MHz,1 V	0.09	2.2	2.2	3R9
BPSD000605254R7□00	4.7	10,20	7.96 MHz,1 V	0.14	2	2	4R7
BPSD000605255R6□00	5.6	20	7.96 MHz,1 V	0.15	1.8	1.8	5R6
BPSD000605256R8□00	6.8	20	7.96 MHz,1 V	0.16	1.7	1.7	6R8
BPSD000605258R2□00	8.2	20	7.96 MHz,1 V	0.17	1.4	1.4	8R2
BPSD00060525100□00	10	10,20	2.52 MHz,1 V	0.18	1.2	1.2	100
BPSD00060525120□00	12	20	2.52 MHz,1 V	0.2	1.18	1.18	120
BPSD00060525150□00	15	20	2.52 MHz,1 V	0.22	1.15	1.15	150
BPSD00060525180□00	18	20	2.52 MHz,1 V	0.25	1.1	1.1	180
BPSD00060525220□00	22	10,20	2.52 MHz,1 V	0.35	1	1	220
BPSD00060525270□00	27	20	2.52 MHz,1 V	0.45	0.86	0.86	270
BPSD00060525330□00	33	10,20	2.52 MHz,1 V	0.56	0.76	0.76	330
BPSD00060525390□00	39	10,20	2.52 MHz,1 V	0.69	0.75	0.75	390
BPSD00060525470□00	47	10,20	2.52 MHz,1 V	0.72	0.73	0.73	470
BPSD00060525560□00	56	10,20	2.52 MHz,1 V	0.84	0.55	0.55	560
BPSD00060525680□00	68	10,20	2.52 MHz,1 V	0.9	0.52	0.52	680
BPSD00060525820□00	82	10,20	2.52 MHz,1 V	1.2	0.5	0.5	820
BPSD00060525101□00	100	10,20	1 kHz,1 V	1.3	0.4	0.4	101
BPSD00060525121□00	120	10,20	1 kHz,1 V	1.38	0.36	0.36	121
BPSD00060525151□00	150	10,20	1 kHz,1 V	1.81	0.3	0.3	151
BPSD00060525181□00	180	10,20	1 kHz,1 V	1.95	0.26	0.26	181
BPSD00060525221□00	220	10,20	1 kHz,1 V	3	0.25	0.25	221

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
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- Measure Equipment：

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  RDC：Chroma 16502

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat (A)	Irms (A)	Marking
BPSD00060525271□00	270	10,20	1 kHz,1 V	3.2	0.21	0.21	271
BPSD00060525331□00	330	10,20	1 kHz,1 V	3.82	0.18	0.18	331
BPSD00060525391□00	390	10,20	1 kHz,1 V	4.68	0.16	0.16	391
BPSD00060525471□00	470	10,20	1 kHz,1 V	5.1	0.15	0.15	471
BPSD00060525561□00	560	10,20	1 kHz,1 V	8.5	0.14	0.14	561
BPSD00060525681□00	680	10,20	1 kHz,1 V	10	0.13	0.13	681
BPSD00060525821□00	820	10,20	1 kHz,1 V	12	0.07	0.07	821
BPSD00060525102□00	1000	10,20	1 kHz,1 V	18	0.05	0.05	102

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- Measure Equipment：

  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat (A)	Irms (A)	Marking
BPSD000605301R0□00	1.0	20	7.96 MHz,1 V	0.03	4.5	4.5	1R0
BPSD000605301R2□00	1.2	20	7.96 MHz,1 V	0.03	4.2	4.2	1R2
BPSD000605301R5□00	1.5	20	7.96 MHz,1 V	0.03	4.1	4.1	1R5
BPSD000605301R8□00	1.8	10,20	7.96 MHz,1 V	0.03	3.7	3.7	1R8
BPSD000605302R0□00	2	20	7.96 MHz,1 V	0.03	3.6	3.6	2R0
BPSD000605302R2□00	2.2	20	7.96 MHz,1 V	0.03	3.5	3.5	2R2
BPSD000605302R7□00	2.7	20	7.96 MHz,1 V	0.04	3.2	3.2	2R7
BPSD000605303R3□00	3.3	10,20	7.96 MHz,1 V	0.05	2.8	2.8	3R3
BPSD000605303R9□00	3.9	20	7.96 MHz,1 V	0.06	2.6	2.6	3R9
BPSD000605304R7□00	4.7	10,20	7.96 MHz,1 V	0.07	2.5	2.5	4R7
BPSD000605305R6□00	5.6	20	7.96 MHz,1 V	0.08	2.4	2.4	5R6
BPSD000605306R8□00	6.8	20	7.96 MHz,1 V	0.09	2.2	2.2	6R8
BPSD000605308R2□00	8.2	20	7.96 MHz,1 V	0.1	2	2	8R2
BPSD00060530100□00	10	10,20	2.52 MHz,1 V	0.12	1.8	1.8	100
BPSD00060530120□00	12	10,20	2.52 MHz,1 V	0.13	1.75	1.75	120
BPSD00060530150□00	15	10,20	2.52 MHz,1 V	0.15	1.7	1.7	150
BPSD00060530180□00	18	10,20	2.52 MHz,1 V	0.22	1.6	1.6	180
BPSD00060530220□00	22	10,20	2.52 MHz,1 V	0.22	1.5	1.5	220
BPSD00060530270□00	27	20	2.52 MHz,1 V	0.26	1.4	1.4	270
BPSD00060530330□00	33	10,20	2.52 MHz,1 V	0.33	1.1	1.1	330
BPSD00060530390□00	39	10,20	2.52 MHz,1 V	0.42	1	1	390
BPSD00060530470□00	47	10,20	2.52 MHz,1 V	0.5	0.9	0.9	470
BPSD00060530560□00	56	10,20	2.52 MHz,1 V	0.55	0.85	0.85	560
BPSD00060530680□00	68	10,20	2.52 MHz,1 V	0.65	0.8	0.8	680
BPSD00060530820□00	82	10,20	2.52 MHz,1 V	0.8	0.65	0.65	820
BPSD00060530101□00	100	10,20	1 kHz,1 V	0.9	0.6	0.6	101
BPSD00060530121□00	120	10,20	1 kHz,1 V	1	0.58	0.58	121
BPSD00060530151□00	150	10,20	1 kHz,1 V	1.3	0.43	0.43	151

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- Measure Equipment：

  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)

  RDC：Chroma 16502

  Isat：HP4284+42841A or WK3260B+WK3265B

  Irms: WK3255BQ+ WK3265B (or equivalent)

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat (A)	Irms (A)	Marking
BPSD00060530181□00	180	10,20	1 kHz,1 V	1.5	0.41	0.41	181
BPSD00060530221□00	220	10,20	1 kHz,1 V	2	0.38	0.38	221
BPSD00060530271□00	270	10,20	1 kHz,1 V	2.5	0.35	0.35	271
BPSD00060530331□00	330	10,20	1 kHz,1 V	3.2	0.28	0.28	331
BPSD00060530391□00	390	10,20	1 kHz,1 V	3.5	0.26	0.26	391
BPSD00060530471□00	470	10,20	1 kHz,1 V	4.2	0.2	0.2	471
BPSD00060530561□00	560	10,20	1 kHz,1 V	4.5	0.19	0.19	561
BPSD00060530681□00	680	10,20	1 kHz,1 V	6.5	0.18	0.18	681
BPSD00060530821□00	820	10,20	1 kHz,1 V	7.5	0.15	0.15	821
BPSD00060530102□00	1000	10,20	1 kHz,1 V	8	0.13	0.13	102

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat (A)	Irms (A)	Marking
BPSD000605451R8□00	1.8	20	7.96 MHz,1 V	0.02	3.5	3.5	1R8
BPSD000605452R2□00	2.2	20	7.96 MHz,1 V	0.023	3.2	3.2	2R2
BPSD000605453R3□00	3.3	10,20	7.96 MHz,1 V	0.0314	2.59	2.59	3R3
BPSD000605453R5□00	3.5	20	7.96 MHz,1 V	0.03	2.4	2.4	3R5
BPSD000605454R7□00	4.7	10,20	7.96 MHz,1 V	0.0372	2.3	2.3	4R7
BPSD000605456R8□00	6.8	20	7.96 MHz,1 V	0.057	1.8	1.8	6R8
BPSD000605458R2□00	8.2	20	7.96 MHz,1 V	0.0594	1.7	1.7	8R2
BPSD00060545100□00	10	10,20	2.52 MHz,1 V	0.1	1.44	1.44	100
BPSD00060545120□00	12	20	2.52 MHz,1 V	0.12	1.4	1.4	120
BPSD00060545150□00	15	10,20	2.52 MHz,1 V	0.14	1.3	1.3	150
BPSD00060545180□00	18	20	2.52 MHz,1 V	0.15	1.23	1.23	180
BPSD00060545220□00	22	20	2.52 MHz,1 V	0.18	1.11	1.11	220
BPSD00060545270□00	27	20	2.52 MHz,1 V	0.2	0.97	0.97	270
BPSD00060545330□00	33	10,20	2.52 MHz,1 V	0.23	0.88	0.88	330
BPSD00060545390□00	39	10,20	2.52 MHz,1 V	0.32	0.8	0.8	390
BPSD00060545470□00	47	10,20	2.52 MHz,1 V	0.37	0.72	0.72	470
BPSD00060545560□00	56	10,20	2.52 MHz,1 V	0.42	0.68	0.68	560
BPSD00060545680□00	68	10,20	2.52 MHz,1 V	0.46	0.61	0.61	680
BPSD00060545820□00	82	10,20	2.52 MHz,1 V	0.6	0.58	0.58	820
BPSD00060545101□00	100	10,20	1 kHz,1 V	0.7	0.52	0.52	101
BPSD00060545121□00	120	10,20	1 kHz,1 V	0.93	0.48	0.48	121
BPSD00060545151□00	150	10,20	1 kHz,1 V	1.1	0.4	0.4	151
BPSD00060545181□00	180	10,20	1 kHz,1 V	1.38	0.38	0.38	181
BPSD00060545221□00	220	10,20	1 kHz,1 V	1.57	0.35	0.35	221
BPSD00060545271□00	270	10,20	1 kHz,1 V	1.85	0.29	0.29	271
BPSD00060545331□00	330	10,20	1 kHz,1 V	2	0.28	0.28	331
BPSD00060545391□00	390	10,20	1 kHz,1 V	2.6	0.26	0.26	391
BPSD00060545471□00	470	10,20	1 kHz,1 V	3	0.12	0.12	471

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20%

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- Measure Equipment：

  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)

  RDC：Chroma 16502

  Isat：HP4284+42841A or WK3260B+WK3265B

  Irms: WK3255BQ+ WK3265B (or equivalent)

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat (A)	Irms (A)	Marking
BPSD00060545561□00	560	10,20	1 kHz,1 V	4.19	0.1	0.1	561
BPSD00060545681□00	680	10,20	1 kHz,1 V	4.44	0.08	0.08	681
BPSD00060545821□00	820	10,20	1 kHz,1 V	5.12	0.05	0.05	821
BPSD00060545102□00	1000	10,20	1 kHz,1 V	10	0.03	0.03	102
BPSD00060545152□00	1500	10,20	1 kHz,1V	11	0.03	0.03	152
BPSD00060545182□00	1800	10,20	1 kHz,1V	12.3	0.03	0.03	182
BPSD00060545202□00	2000	10,20	1 kHz,1V	12.6	0.03	0.03	202
BPSD00060545222□00	2200	10,20	1 kHz,1V	12.9	0.03	0.03	222

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20%

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- Measure Equipment：

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  RDC：Chroma 16502

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat (A)	Irms (A)	Marking
BPSD000807352R2□00	2.2	20	7.96 MHz,1 V	0.03	3.2	3.2	2R2
BPSD000807354R7□00	4.7	20	2.52 MHz,1 V	0.04	1.6	1.6	4R7
BPSD00080735100□00	10	20	2.52 MHz,1 V	0.08	1.44	1.44	100
BPSD00080735120□00	12	10,20	2.52 MHz,1 V	0.09	1.39	1.39	120
BPSD00080735150□00	15	10,20	2.52 MHz,1 V	0.1	1.24	1.24	150
BPSD00080735180□00	18	20	2.52 MHz,1 V	0.11	1.12	1.12	180
BPSD00080735220□00	22	20	2.52 MHz,1 V	0.13	1.07	1.07	220
BPSD00080735270□00	27	20	2.52 MHz,1 V	0.15	0.94	0.94	270
BPSD00080735330□00	33	10,20	2.52 MHz,1 V	0.17	0.85	0.85	330
BPSD00080735390□00	39	10,20	2.52 MHz,1 V	0.22	0.74	0.74	390
BPSD00080735470□00	47	10,20	2.52 MHz,1 V	0.25	0.68	0.68	470
BPSD00080735560□00	56	10,20	2.52 MHz,1 V	0.28	0.64	0.64	560
BPSD00080735680□00	68	10,20	2.52 MHz,1 V	0.33	0.59	0.59	680
BPSD00080735820□00	82	10,20	2.52 MHz,1 V	0.41	0.54	0.54	820
BPSD00080735101□00	100	10,20	1 kHz,1 V	0.48	0.51	0.51	101
BPSD00080735121□00	120	10,20	1 kHz,1 V	0.54	0.49	0.49	121
BPSD00080735151□00	150	10,20	1 kHz,1 V	0.75	0.4	0.4	151
BPSD00080735181□00	180	10,20	1 kHz,1 V	1.02	0.36	0.36	181
BPSD00080735221□00	220	10,20	1 kHz,1 V	1.2	0.31	0.31	221
BPSD00080735271□00	270	10,20	1 kHz,1 V	1.31	0.29	0.29	271
BPSD00080735331□00	330	10,20	1 kHz,1 V	1.5	0.28	0.28	331
BPSD00080735561□00	560	10,20	1 kHz,1 V	2.5	0.14	0.14	561

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20%

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- Irms for a 40℃ temperature rise from 25℃ ambient.
- Measure Equipment：

  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)

  RDC：Chroma 16502

  Isat：HP4284+42841A or WK3260B+WK3265B

  Irms: WK3255BQ+ WK3265B (or equivalent)

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat (A)	Irms (A)	Marking
BPSD000807501R4□00	1.4	20	7.96 MHz,1 V	0.02	3.7	3.7	1R4
BPSD000807501R5□00	1.5	20	7.96 MHz,1 V	0.02	3.7	3.7	1R5
BPSD000807501R8□00	1.8	20	7.96 MHz,1 V	0.02	3.7	3.7	1R8
BPSD000807502R2□00	2.2	20	7.96 MHz,1 V	0.02	3.7	3.7	2R2
BPSD000807502R7□00	2.7	20	7.96 MHz,1 V	0.02	3.7	3.7	2R7
BPSD000807503R0□00	3	20	7.96 MHz,1 V	0.025	3.7	3.7	3R0
BPSD000807503R3□00	3.3	20	7.96 MHz,1 V	0.03	3.7	3.7	3R3
BPSD000807503R6□00	3.6	20	7.96 MHz,1 V	0.03	3.7	3.7	3R6
BPSD000807503R9□00	3.9	20	7.96 MHz,1 V	0.03	3.7	3.7	3R9
BPSD000807504R7□00	4.7	10,20	7.96 MHz,1 V	0.04	3.5	3.5	4R7
BPSD000807505R6□00	5.6	20	7.96 MHz,1 V	0.04	3.3	3.3	5R6
BPSD000807506R8□00	6.8	20	7.96 MHz,1 V	0.04	3.1	3.1	6R8
BPSD000807508R2□00	8.2	20	7.96 MHz,1 V	0.05	2.7	2.7	8R2
BPSD00080750100□00	10	10,20	2.52 MHz,1 V	0.07	2.3	2.3	100
BPSD00080750120□00	12	20	2.52 MHz,1 V	0.08	2	2	120
BPSD00080750150□00	15	10,20	2.52 MHz,1 V	0.09	1.8	1.8	150
BPSD00080750180□00	18	20	2.52 MHz,1 V	0.1	1.6	1.6	180
BPSD00080750220□00	22	10,20	2.52 MHz,1 V	0.11	1.5	1.5	220
BPSD00080750270□00	27	20	2.52 MHz,1 V	0.12	1.3	1.3	270
BPSD00080750330□00	33	10,20	2.52 MHz,1 V	0.13	1.2	1.2	330
BPSD00080750390□00	39	10,20	2.52 MHz,1 V	0.16	1.1	1.1	390
BPSD00080750470□00	47	10,20	2.52 MHz,1 V	0.18	1.1	1.1	470
BPSD00080750560□00	56	10,20	2.52 MHz,1 V	0.24	0.94	0.94	560
BPSD00080750680□00	68	10,20	2.52 MHz,1 V	0.28	0.85	0.85	680
BPSD00080750820□00	82	10,20	2.52 MHz,1 V	0.37	0.78	0.78	820
BPSD00080750101□00	100	10,20	1 kHz,1 V	0.43	0.72	0.72	101
BPSD00080750121□00	120	10,20	1 kHz,1 V	0.47	0.66	0.66	121
BPSD00080750151□00	150	10,20	1 kHz,1 V	0.64	0.58	0.58	151

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  RDC：Chroma 16502

  Isat：HP4284+42841A or WK3260B+WK3265B

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat (A)	Irms (A)	Marking
BPSD00080750181□00	180	10,20	1 kHz,1 V	0.71	0.51	0.51	181
BPSD00080750221□00	220	10,20	1 kHz,1 V	0.96	0.49	0.49	221
BPSD00080750271□00	270	10,20	1 kHz,1 V	1.11	0.42	0.42	271
BPSD00080750331□00	330	10,20	1 kHz,1 V	1.26	0.4	0.4	331
BPSD00080750391□00	390	10,20	1 kHz,1 V	1.77	0.36	0.36	391
BPSD00080750471□00	470	10,20	1 kHz,1 V	1.96	0.34	0.34	471
BPSD00080750561□00	560	10,20	1 kHz,1 V	2.41	0.32	0.32	561
BPSD00080750681□00	680	10,20	1 kHz,1 V	2.5	0.29	0.29	681
BPSD00080750102□00	1000	10,20	1 kHz,1 V	2.8	0.19	0.19	102

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20%

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat (A)	Irms (A)	Marking
BPSD001009403R3□00	3.3	20	7.96 MHz,1 V	0.022	4.5	4.5	3R3
BPSD001009403R8□00	3.8	20	7.96 MHz,1 V	0.022	4.2	4.2	3R8
BPSD001009406R8□00	6.8	20	7.96 MHz,1 V	0.04	3	3	6R8
BPSD00100940100□00	10	20	2.52 MHz,1 V	0.05	2.38	2.38	100
BPSD00100940120□00	12	20	2.52 MHz,1 V	0.06	2.13	2.13	120
BPSD00100940150□00	15	10,20	2.52 MHz,1 V	0.07	1.87	1.87	150
BPSD00100940180□00	18	20	2.52 MHz,1 V	0.08	1.73	1.73	180
BPSD00100940220□00	22	10,20	2.52 MHz,1 V	0.09	1.6	1.6	220
BPSD00100940270□00	27	20	2.52 MHz,1 V	0.1	1.44	1.44	270
BPSD00100940330□00	33	10,20	2.52 MHz,1 V	0.12	1.26	1.26	330
BPSD00100940390□00	39	10,20	2.52 MHz,1 V	0.15	1.2	1.2	390
BPSD00100940470□00	47	10,20	2.52 MHz,1 V	0.17	1.1	1.1	470
BPSD00100940560□00	56	10,20	2.52 MHz,1 V	0.2	1.01	1.01	560
BPSD00100940680□00	68	10,20	2.52 MHz,1 V	0.22	0.91	0.91	680
BPSD00100940820□00	82	10,20	2.52 MHz,1 V	0.3	0.85	0.85	820
BPSD00100940101□00	100	10,20	1 kHz,1 V	0.34	0.74	0.74	101
BPSD00100940121□00	120	10,20	1 kHz,1 V	0.4	0.69	0.69	121
BPSD00100940151□00	150	10,20	1 kHz,1 V	0.54	0.61	0.61	151
BPSD00100940181□00	180	10,20	1 kHz,1 V	0.62	0.56	0.56	181
BPSD00100940221□00	220	10,20	1 kHz,1 V	0.72	0.53	0.53	221
BPSD00100940271□00	270	10,20	1 kHz,1 V	0.95	0.45	0.45	271
BPSD00100940331□00	330	10,20	1 kHz,1 V	1.1	0.42	0.42	331
BPSD00100940391□00	390	10,20	1 kHz,1 V	1.24	0.38	0.38	391
BPSD00100940471□00	470	10,20	1 kHz,1 V	1.53	0.35	0.35	471
BPSD00100940561□00	560	10,20	1 kHz,1 V	1.9	0.32	0.32	561

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- Measure Equipment：

  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)

  RDC：Chroma 16502

  Isat：HP4284+42841A or WK3260B+WK3265B

  Irms: WK3255BQ+ WK3265B (or equivalent)

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat (A)	Irms (A)	Marking
BPSD001009543R3□00	3.3	20	7.96 MHz,1 V	0.038	2.8	2.8	3R3
BPSD001009544R7□00	4.7	20	7.96 MHz,1 V	0.04	2.6	2.6	4R7
BPSD001009545R6□00	5.6	20	7.96 MHz,1 V	0.037	4.5	4.5	5R6
BPSD001009546R8□00	6.8	20	7.96 MHz,1 V	0.037	4.33	4.33	6R8
BPSD001009548R2□00	8.2	20	7.96 MHz,1 V	0.05	3.5	3.5	8R2
BPSD00100954100□00	10	10,20	2.52 MHz,1 V	0.06	2.6	2.6	100
BPSD00100954120□00	12	20	2.52 MHz,1 V	0.07	2.45	2.45	120
BPSD00100954150□00	15	10,20	2.52 MHz,1 V	0.08	2.27	2.27	150
BPSD00100954180□00	18	20	2.52 MHz,1 V	0.09	2.15	2.15	180
BPSD00100954220□00	22	10,20	2.52 MHz,1 V	0.1	1.95	1.95	220
BPSD00100954270□00	27	10,20	2.52 MHz,1 V	0.11	1.76	1.76	270
BPSD00100954330□00	33	10,20	2.52 MHz,1 V	0.12	1.5	1.5	330
BPSD00100954390□00	39	10,20	2.52 MHz,1 V	0.14	1.37	1.37	390
BPSD00100954470□00	47	10,20	2.52 MHz,1 V	0.17	1.28	1.28	470
BPSD00100954560□00	56	10,20	2.52 MHz,1 V	0.19	1.17	1.17	560
BPSD00100954680□00	68	10,20	2.52 MHz,1 V	0.22	1.11	1.11	680
BPSD00100954820□00	82	10,20	2.52 MHz,1 V	0.25	1	1	820
BPSD00100954101□00	100	10,20	1 kHz,1 V	0.35	0.97	0.97	101
BPSD00100954121□00	120	10,20	1 kHz,1 V	0.4	0.89	0.89	121
BPSD00100954151□00	150	10,20	1 kHz,1 V	0.47	0.78	0.78	151
BPSD00100954181□00	180	10,20	1 kHz,1 V	0.63	0.72	0.72	181
BPSD00100954221□00	220	10,20	1 kHz,1 V	0.73	0.66	0.66	221
BPSD00100954271□00	270	10,20	1 kHz,1 V	0.97	0.57	0.57	271
BPSD00100954331□00	330	10,20	1 kHz,1 V	1.15	0.52	0.52	331
BPSD00100954391□00	390	10,20	1 kHz,1 V	1.3	0.48	0.48	391
BPSD00100954471□00	470	10,20	1 kHz,1 V	1.48	0.42	0.42	471
BPSD00100954561□00	560	10,20	1 kHz,1 V	1.9	0.33	0.33	561
BPSD00100954681□00	680	10,20	1 kHz,1 V	2.25	0.28	0.28	681
BPSD00100954821□00	820	10,20	1 kHz,1 V	2.55	0.24	0.24	821
BPSD00100954102□00	1000	10,20	1 kHz,1 V	3.1	0.2	0.2	102

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B
  Irms: WK3255BQ+ WK3265B (or equivalent)

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat (A)	Irms (A)	Marking
BPSD00100965220□00	22	10,20	2.52 MHz,1 V	0.08	3.8	3.8	220
BPSD00100965471□00	470	10,20	1 kHz,1 V	1.421	0.82	0.82	471
BPSD00100965102□00	1000	10,20	1 kHz,1 V	2.9	0.6	0.6	102
BPSD00100965122□00	1200	10,20	1 kHz,1 V	3.5	0.5	0.5	122
BPSD00100965152□00	1500	10,20	1 kHz,1 V	3.8	0.6	0.6	152
BPSD00100965202□00	2000	10,20	1 kHz,1 V	6.6	0.4	0.4	202
BPSD00100965222□00	2200	10,20	1 kHz,1 V	6	0.4	0.4	222
BPSD00100965602□00	6000	10,20	1 kHz,1 V	14	0.27	0.27	602
BPSD00100965822□00	8200	10,20	1 kHz,1 V	50	0.2	0.2	822

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- Measure Equipment：

  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)

  RDC：Chroma 16502

  Isat：HP4284+42841A or WK3260B+WK3265B

  Irms: WK3255BQ+ WK3265B (or equivalent)

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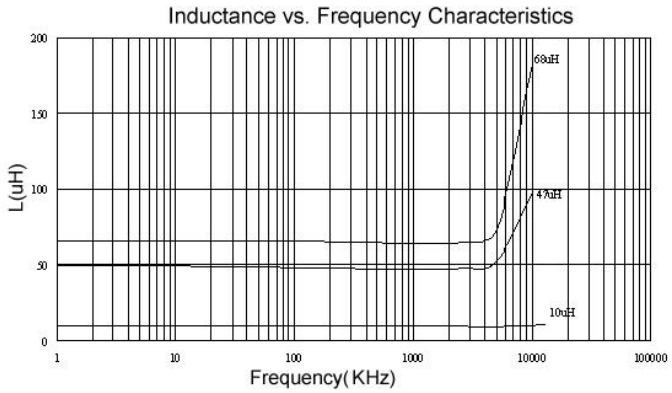
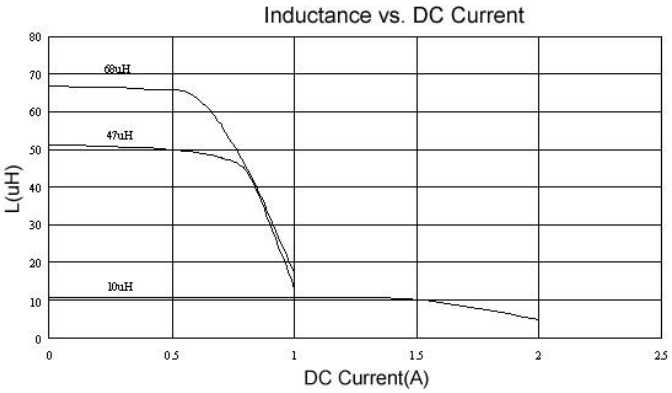
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Test Instruments：HP4294A Impedance / Material Analyzer

BPSD00050432





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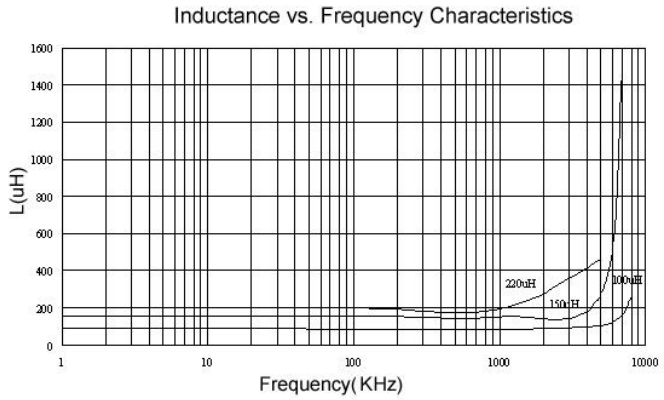

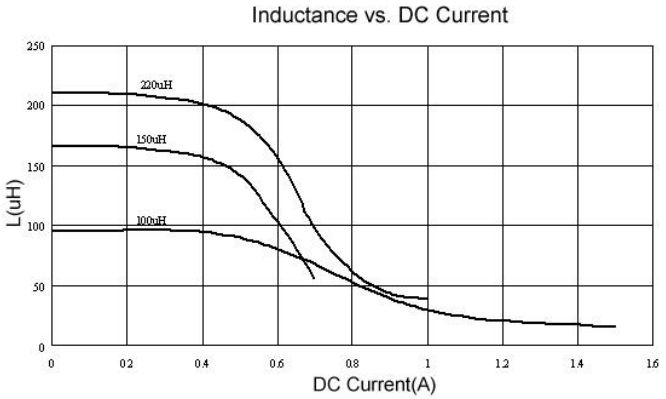

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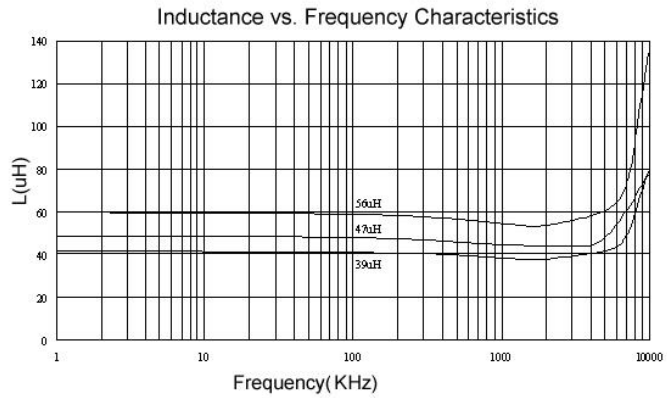

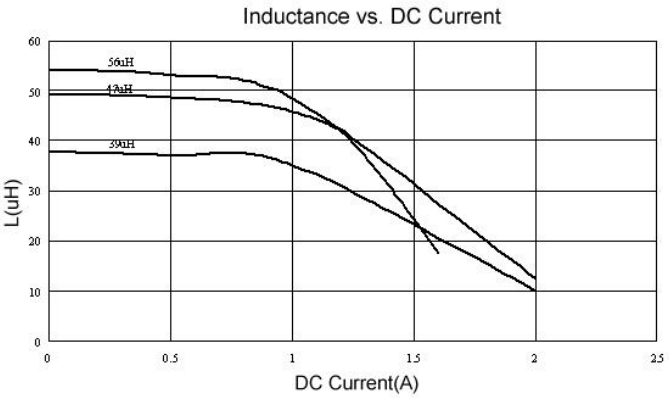

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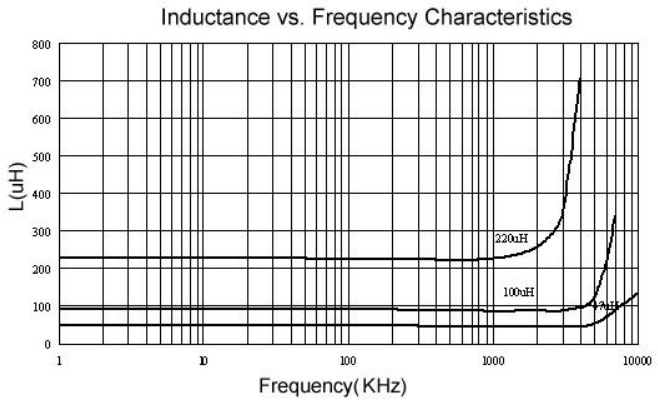
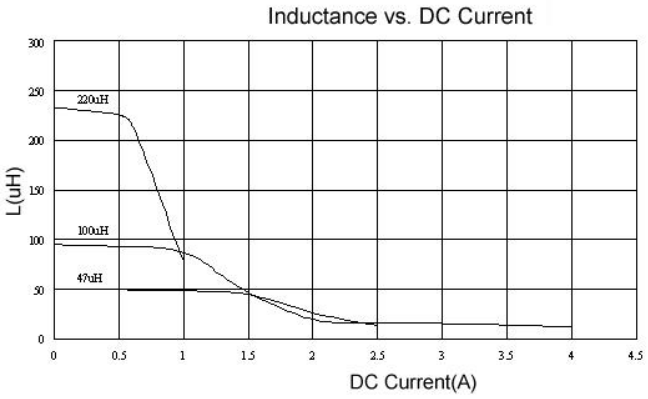
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Test Instruments：HP4294A Impedance / Material Analyzer

BPSD00080750





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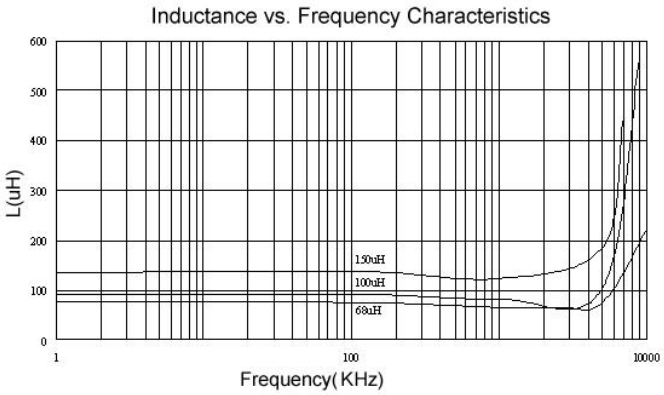

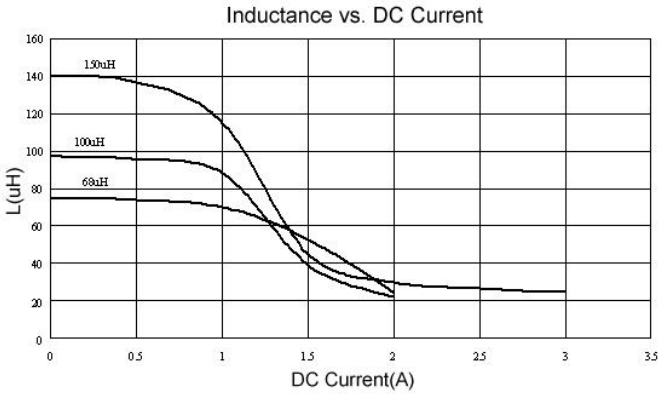

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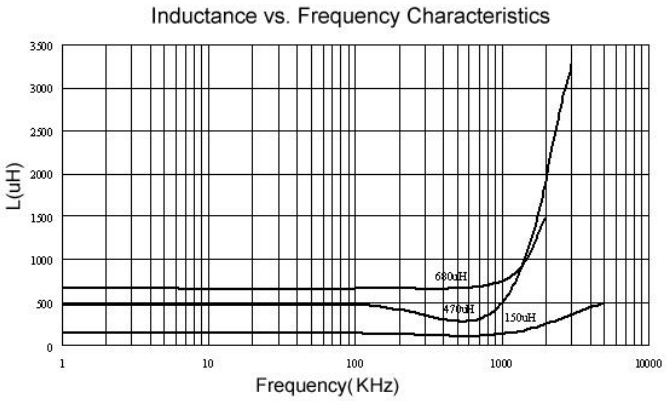

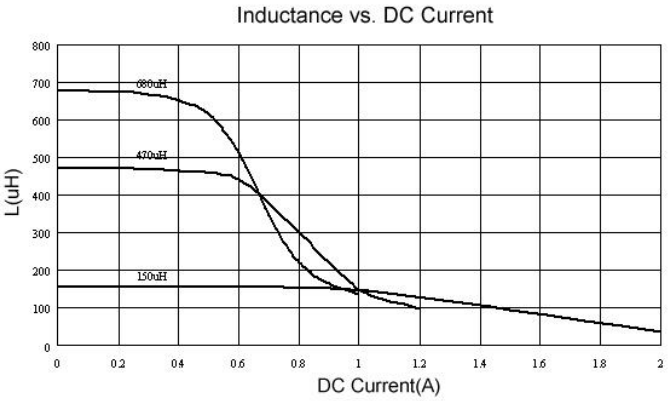

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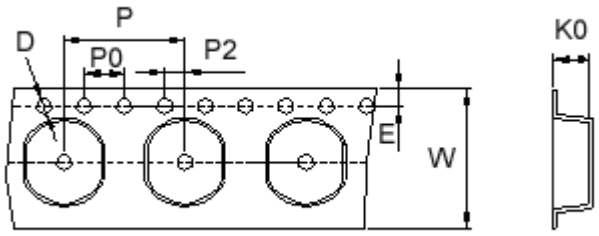
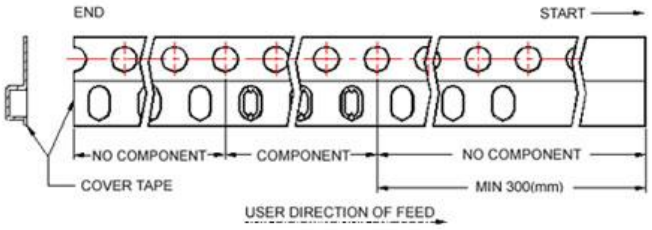
CHILISIN ELECTRONICS CORP.

Packaging Specifications

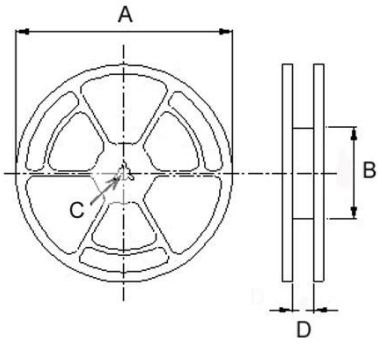
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
BPSD00030315	1.80	1.55	1.75	12	8	4	2	330	100	13	13.4	3000
BPSD00030321	2.50	1.55	1.75	12	8	4	2	330	100	13	13.4	3000
BPSD00050432	3.55	1.55	1.75	12	8	4	2	330	100	13	13.4	2000
BPSD00060525	3.30	1.50	1.75	16	8	4	2	330	100	13	16.0	2000
BPSD00060530	3.30	1.50	1.75	16	8	4	2	330	100	13	16.0	2000
BPSD00060545	4.8	1.55	1.75	16	8	4	2	330	100	13	16.0	1500
BPSD00080735	3.8	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BPSD00080750	5.2	1.55	1.75	16	12	4	2	330	100	13	16.0	700
BPSD00100940	4.5	1.55	1.75	24	12	4	2	330	100	13	24.4	700
BPSD00100954	5.8	1.55	1.75	24	12	4	2	330	100	13	24.4	700
BPSD00100965	7.0	1.55	1.75	24	12	4	2	330	100	13	24.4	500

BPSL Series

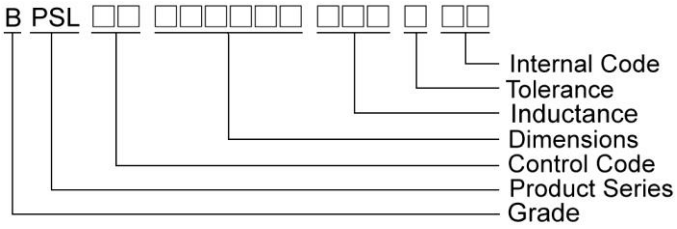
Features

- RoHS, Halogen Free and REACH Compliance
- Unshielded power inductor
- Various package size and wide inductance range. SSL-HC family is designed for low resistance and high current purpose

Applications

- DC/DC converters

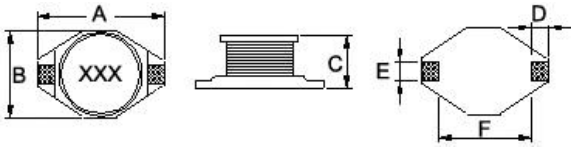
Product Identification

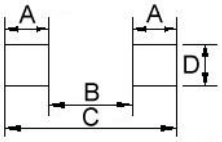


Shape and Dimensions

Recommended Pattern

BPSL00130952/130911

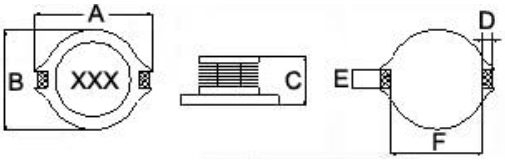


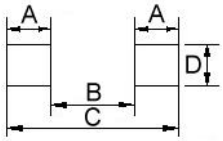


Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern			
	A	B	C	D	E	F	A	B	C	D
BPSL00130952	12.95^{+0}	9.40^{+0}	5.21^{+0}	2.54	2.54	7.62	2.92	7.37	13.21	2.79
BPSL00130911	12.95^{+0}	9.40^{+0}	11.43^{+0}	2.54	2.54	7.62	2.92	7.37	13.21	2.79

BPSL00191571





Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern			
	A	B	C	D	E	F	A	B	C	D
BPSL00191571	18.54^{+0}	15.24^{+0}	7.11^{+0}	2.54	2.54	12.7	2.92	12.45	18.29	2.79

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	SRF (MHz) Typ.	RDC (Ω) Max	Isat (A)	Irms (A)
BPSL001309521R0M00	1.0	20	100	100	0.009	9.0	6.8
BPSL001309521R5M00	1.5	20	100	90	0.010	8.0	6.4
BPSL001309522R2M00	2.2	20	100	80	0.012	7.0	6.1
BPSL001309523R3M00	3.3	20	100	65	0.015	6.4	5.4
BPSL001309524R7M00	4.7	20	100	45	0.018	5.4	4.8
BPSL001309526R8M00	6.8	20	100	38	0.027	4.6	4.4
BPSL00130952100M00	10	20	100	30	0.038	3.8	3.9
BPSL00130952120M00	12	20	100	27	0.0432	3.5	3.6
BPSL00130952150M00	15	20	100	27	0.046	3.0	3.1
BPSL00130952220M00	22	20	100	19	0.085	2.6	2.7
BPSL00130952330M00	33	20	100	15	0.100	2.0	2.1
BPSL00130952470M00	47	20	100	12	0.140	1.6	1.8
BPSL00130952680M00	68	20	100	10	0.200	1.4	1.5
BPSL00130952101M00	100	20	100	9	0.260	1.2	1.3
BPSL00130952151M00	150	20	100	6	0.400	1.0	1.0
BPSL00130952221M00	220	20	100	5	0.610	0.8	0.8
BPSL00130952331M00	330	20	100	4.5	1.020	0.6	0.6
BPSL00130952471M00	470	20	100	3.5	1.270	0.5	0.5
BPSL00130952681M00	680	20	100	2.5	2.020	0.4	0.4
BPSL00130952102M00	1000	20	100	2.0	3.000	0.3	0.3
BPSL00130952152M00	1500	20	100	1.4	4.500	0.25	0.2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

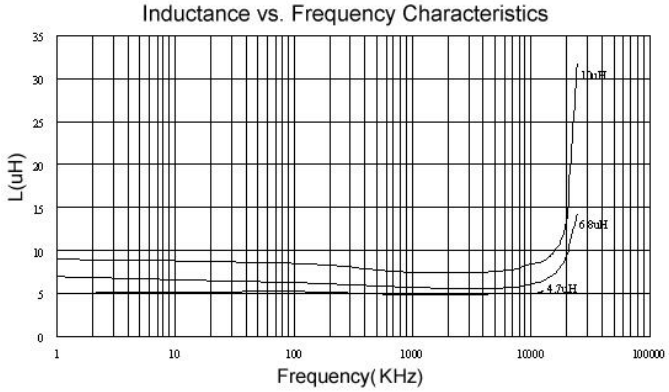
  L：E4980 or HP4284A , 100kHz 0.1V

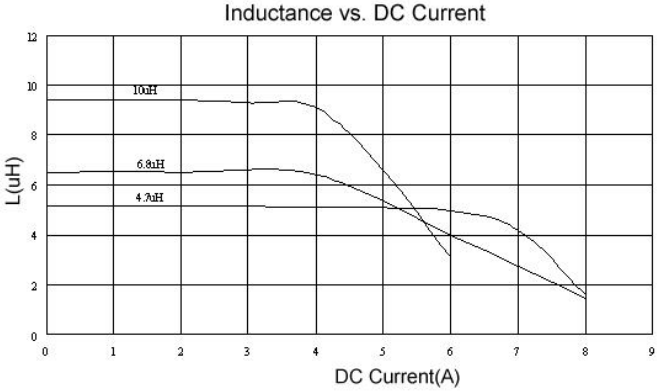
  SRF:HP4291A or HP4192A

  RDC：Chroma 16502

  Isat：HP4284A+HP42841A or WK3260B+WK3265B

Test Instruments：





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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	SRF (MHz) Typ.	RDC (Ω) Max	Isat (A)	Irms (A)
BPSL001309113R3M00	3.3	20	100	30	0.025	10	4.0
BPSL001309114R7M00	4.7	20	100	25	0.033	8.0	3.5
BPSL00130911100M00	10	20	100	22	0.033	8.0	3.5
BPSL00130911150M00	15	20	100	18	0.042	7.0	3.0
BPSL00130911220M00	22	20	100	11	0.054	5.5	2.5
BPSL00130911330M00	33	20	100	9	0.08	4.0	2.0
BPSL00130911470M00	47	20	100	8	0.10	3.8	1.6
BPSL00130911680M00	68	20	100	7	0.17	3.0	1.2
BPSL00130911101M00	100	20	100	5	0.22	2.5	1.2
BPSL00130911151M00	150	20	100	4	0.34	2.0	0.9
BPSL00130911221M00	220	20	100	3.5	0.44	1.6	0.7
BPSL00130911271M00	270	20	100	2.5	0.60	1.4	0.6
BPSL00130911331M00	330	20	100	2.5	0.70	1.2	0.6
BPSL00130911471M00	470	20	100	2	0.95	1.0	0.3
BPSL00130911681M00	680	20	100	2	1.2	1.0	0.2
BPSL00130911102M00	1000	20	100	1.5	2.0	0.8	0.1

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

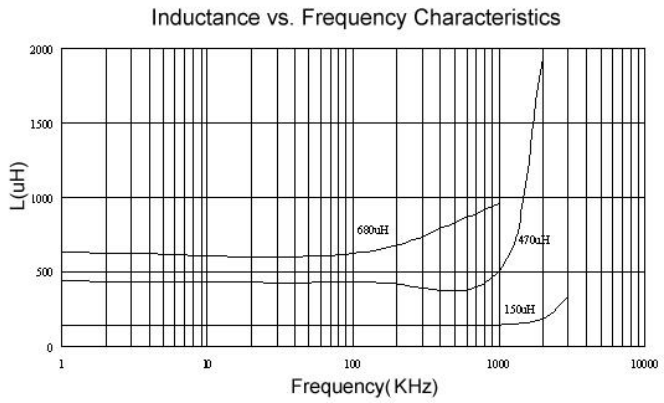
  L：E4980 or HP4284A , 100kHz 0.1V

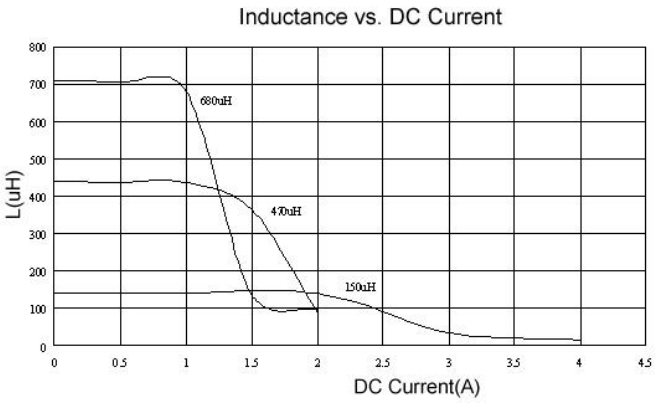
  SRF:HP4291A or HP4192A

  RDC：Chroma 16502

  Isat：HP4284A+HP42841A or WK3260B+WK3265B

Test Instruments：





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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	SRF (MHz) Typ.	RDC (Ω+15%)	Isat (A)	Irms (A)
BPSL001915711R0M00	1.0	20	100	80	0.011	20	8.6
BPSL001915712R2M00	2.2	20	100	80	0.014	16	7.1
BPSL001915713R3M00	3.3	20	100	60	0.016	14	6.2
BPSL001915714R7M00	4.7	20	100	45	0.022	13	5.5
BPSL001915715R6M00	5.6	20	100	40	0.022	12	5.3
BPSL001915716R8M00	6.8	20	100	30	0.022	10	5.0
BPSL00191571100M00	10	20	100	30	0.032	10	4.3
BPSL00191571150M00	15	20	100	22	0.036	8.0	4.0
BPSL00191571180M00	18	20	100	20	0.039	7.5	3.7
BPSL00191571220M00	22	20	100	20	0.047	7.0	3.5
BPSL00191571330M00	33	20	100	15	0.066	5.5	3.0
BPSL00191571470M00	47	20	100	9	0.087	4.5	2.6
BPSL00191571680M00	68	20	100	8	0.13	3.5	2.3
BPSL00191571101M00	100	20	100	7	0.19	3.0	1.8
BPSL00191571151M00	150	20	100	6	0.25	2.6	1.5
BPSL00191571221M00	220	20	100	5	0.38	2.4	1.2
BPSL00191571331M00	330	20	100	4	0.56	1.9	1.0
BPSL00191571471M00	470	20	100	3	0.85	1.4	0.82
BPSL00191571681M00	680	20	100	2.5	1.2	1.2	0.72
BPSL00191571102M00	1000	20	100	2	1.8	1.0	0.56

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

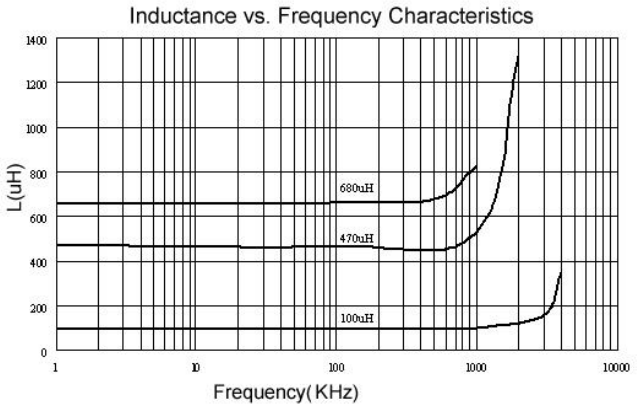
  L：E4980 or HP4284A , 100kHz 0.1V

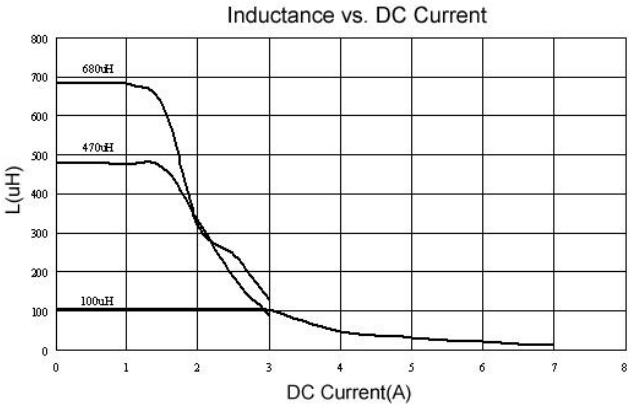
  SRF:HP4291A or HP4192A

  RDC：Chroma 16502

  Isat：HP4284A+HP42841A or WK3260B+WK3265B

Test Instruments：





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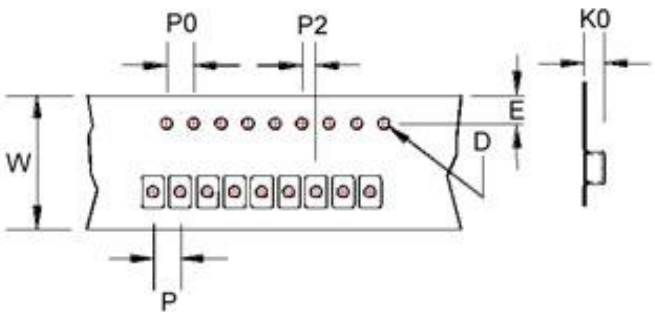
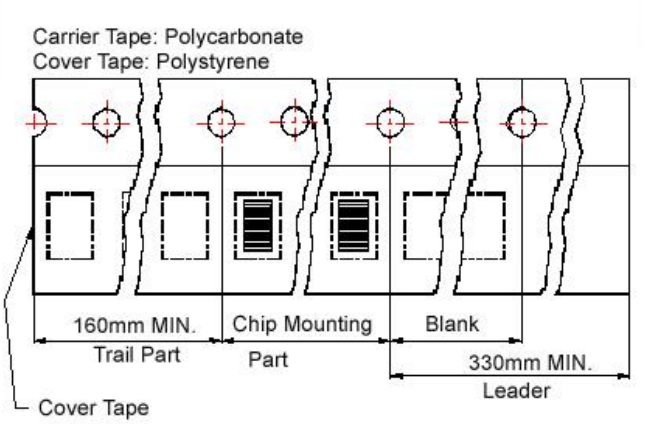
Packaging Specifications

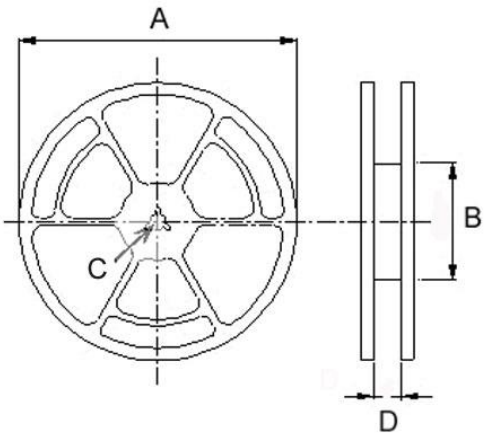
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	K0	D	E	W	P	P0	P2	A	B	C	D	(PCS / REEL)
BPSL00130952	5.4	1.55	1.75	24	16	4	2	330	100	13	24.4	750
BPSL00130911	11.2	1.55	1.75	24	20	4	2	330	100	13	24.4	225
BPSL00191571	7.5	1.55	1.75	32	20	4	2	330	100	13	33.4	350

BPSL-BN Series

This series is specially designed for high current, low voltage DC-DC converter applications. Its simple, rugged design provides current ratings normally available in larger packages. With tinned self-leaded construction, BPSL-BN series can achieve very low DCR values and excellent solderability. In addition, they have very low resistance. Standard parts shown in catalogue and custom values are also available.

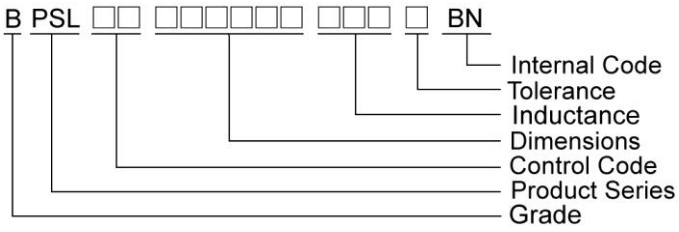
Features

- RoHS, Halogen Free and REACH Compliance
- Unshielded power inductor
- Various package size and wide inductance range. SSL-HC family is designed for low resistance and high current purpose

Applications

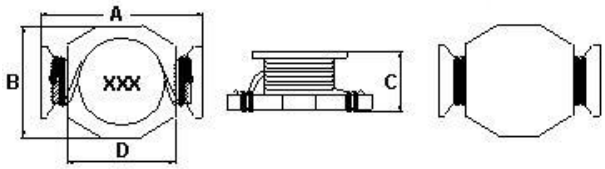
- DC/DC converters

Product Identification



Shape and Dimension

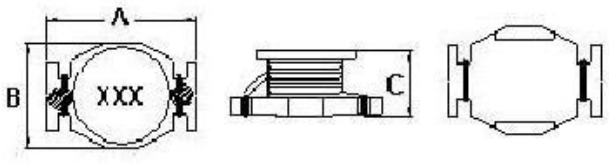
BPSL00090650



Dimension in mm

A	B	C	D
8.89^{+0}	6.10^{+0}	5.00^{+0}	5.84

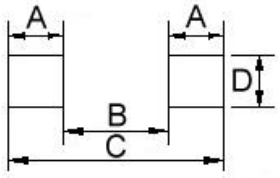
BPSL00131064



Dimension in mm

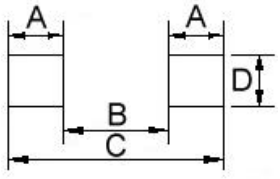
A	B	C
13.21^{+0}	9.91^{+0}	6.35^{+0}

Recommended Pattern



Dimension in mm

A	B	C	D
1.91	4.06	8.89	5.08



Dimension in mm

A	B	C	D
1.52	8.64	11.68	4.06

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	SRF (MHz) Typ.	RDC (Ω) Max	Isat (A)	Irms (A)
BPSL00090650R33TBN	0.33	30	100	330	0.007	8.2	7.0
BPSL00090650R56MBN	0.56	20	100	200	0.010	7.7	6.0
BPSL000906501R0MBN	1.0	20	100	140	0.017	5.3	4.4
BPSL000906501R2MBN	1.2	20	100	140	0.017	5.3	4.4
BPSL000906501R6MBN	1.6	20	100	100	0.022	4.5	4.0
BPSL000906502R2MBN	2.2	20	100	100	0.035	3.5	3.1
BPSL000906504R7MBN	4.7	20	100	50	0.054	2.6	2.2
BPSL000906506R8MBN	6.8	20	100	45	0.070	2.0	1.8
BPSL00090650100MBN	10	20	100	40	0.111	1.9	1.5
BPSL00090650150MBN	15	20	100	30	0.17	1.5	1.2
BPSL00090650220MBN	22	20	100	25	0.25	1.2	1.0
BPSL00090650270MBN	27	20	100	20	0.32	1.0	0.85
BPSL00090650330MBN	33	20	100	20	0.37	0.99	0.82
BPSL00090650470MBN	47	20	100	15	0.47	0.87	0.72

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

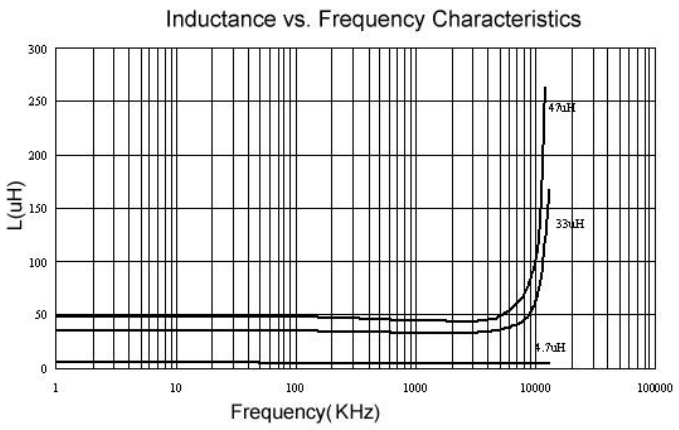
  L：E4980 or HP4284A , 100kHz 0.25V

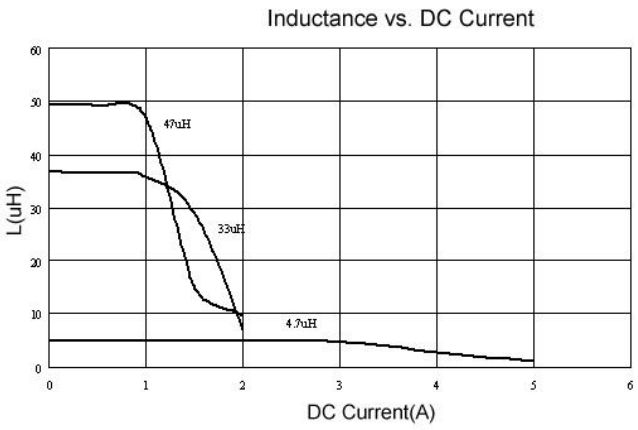
  SRF：HP4291A or HP4192A

  RDC：Chroma 16502

  Isat：HP4284A+HP42841A or WK3260B+WK3265B

Test Instruments：





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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	SRF (MHz) Typ.	RDC (Ω) Max	Isat (A)	Irms (A)
BPSL00131064R33MBN	0.33	20	100	300	0.002	20.0	16.0
BPSL00131064R68MBN	0.68	20	100	200	0.005	13.0	12.0
BPSL001310641R0MBN	1.0	20	100	100	0.006	11.0	10.0
BPSL001310641R5MBN	1.5	20	100	90	0.008	9.0	9.0
BPSL001310642R2MBN	2.2	20	100	90	0.011	7.8	7.4
BPSL001310642R7MBN	2.7	20	100	65	0.012	7.0	6.6
BPSL001310643R3MBN	3.3	20	100	65	0.014	6.4	5.9
BPSL001310644R7MBN	4.7	20	100	45	0.018	5.4	4.8
BPSL001310646R8MBN	6.8	20	100	35	0.035	3.6	5.0
BPSL00131064100MBN	10	20	100	26	0.04	3.3	4.3
BPSL00131064150MBN	15	20	100	21	0.06	2.4	3.5
BPSL00131064220MBN	22	20	100	17	0.08	2.0	2.8
BPSL00131064330MBN	33	20	100	14	0.15	1.7	2.1
BPSL00131064470MBN	47	20	100	12	0.28	1.4	1.7
BPSL00131064680MBN	68	20	100	9	0.3	1.2	1.5
BPSL00131064101MBN	100	20	100	7	0.4	0.95	1.2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

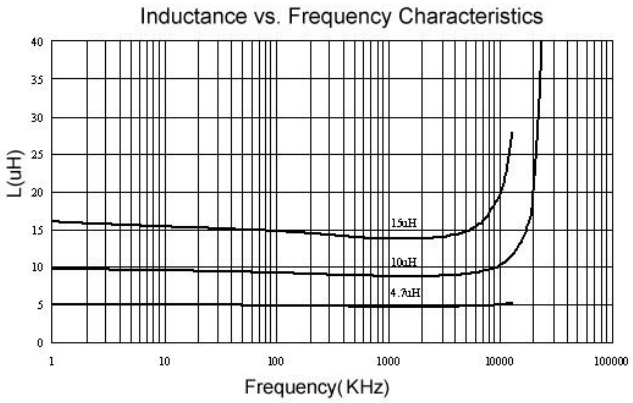
  L：E4980 or HP4284A , 100kHz 0.1V

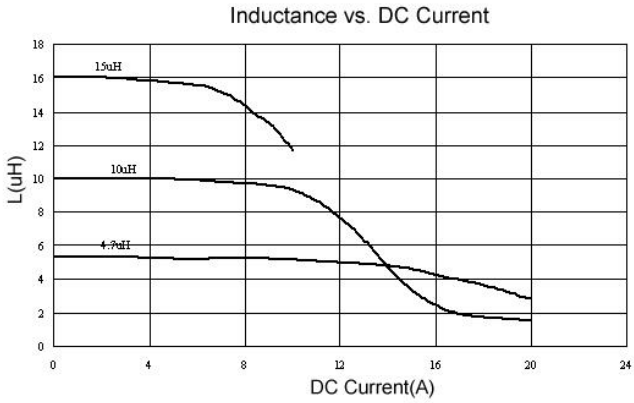
  SRF：HP4291A or HP4192A

  RDC：Chroma 16502

  Isat：HP4284A+HP42841A or WK3260B+WK3265B.

Test Instruments：





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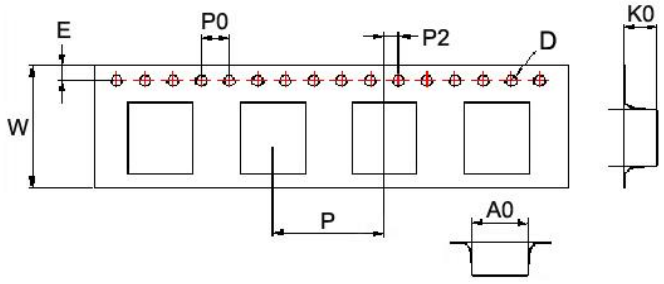
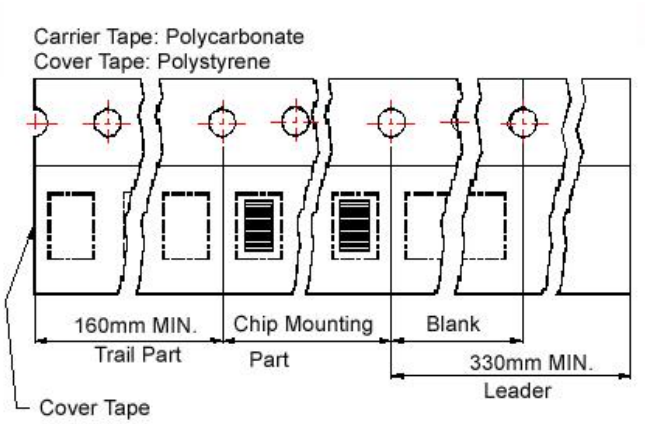
Packaging Specifications

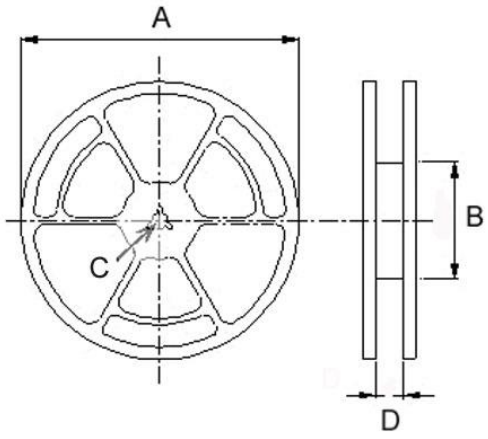
Tape Dimensions



Tape Material



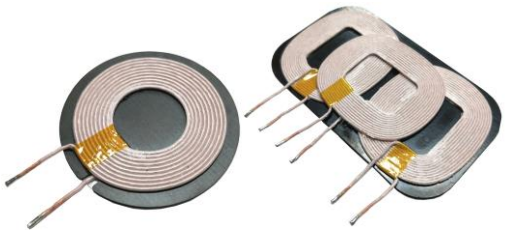
Reel Dimensions



Dimensions in mm

TPYE	Tape Dimensions							Reel Dimensions				Quantity
	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / Reel
BPSL00090650	5.3	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BPSL00131064	6.1	1.55	1.75	24	16	4	2	330	100	13	24.2	700

BTWW -TX Series



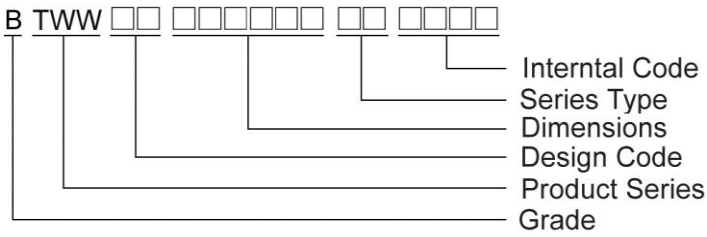
Features

- Designed based on WPC technology
- Tx coil units for WPC BPP (5W) & EPP (15W) specification
- Customized (Non-WPC Standard)

Applications

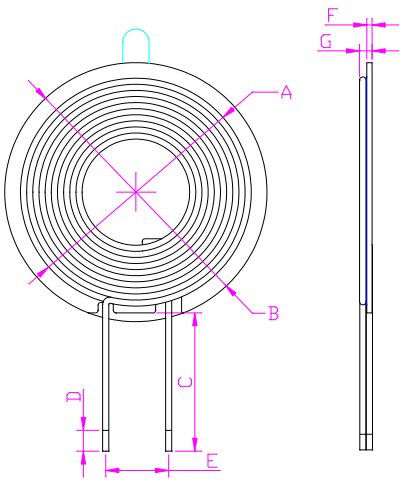
- Charger PAD
- TX Module
- Power Bank
- Automobile

Product Identification

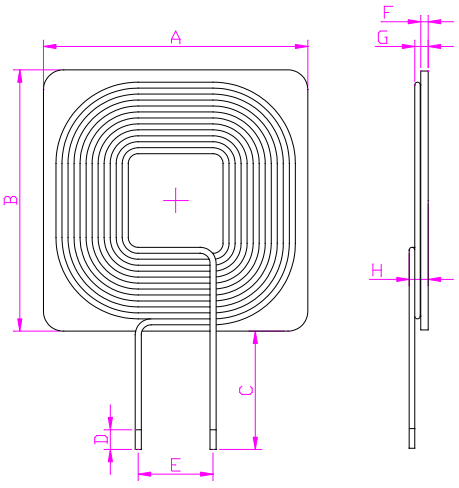


Shapes and Dimensions

BTWW00505024TXA005



BTWW00535340TXA014



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CHILISIN ELECTRONICS CORP.

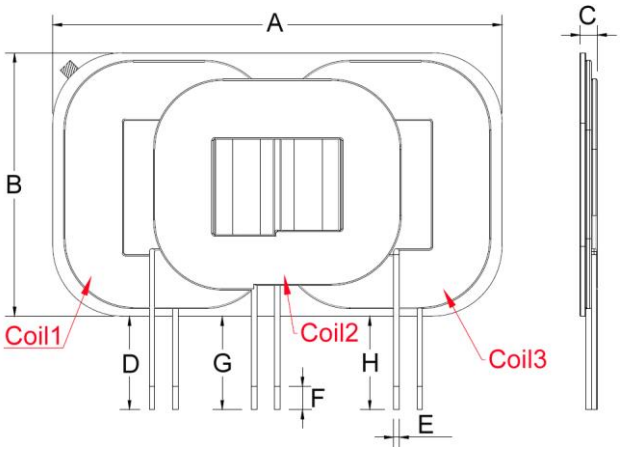
Wirewound WPC Antenna BTWW Series

Dimensions in mm

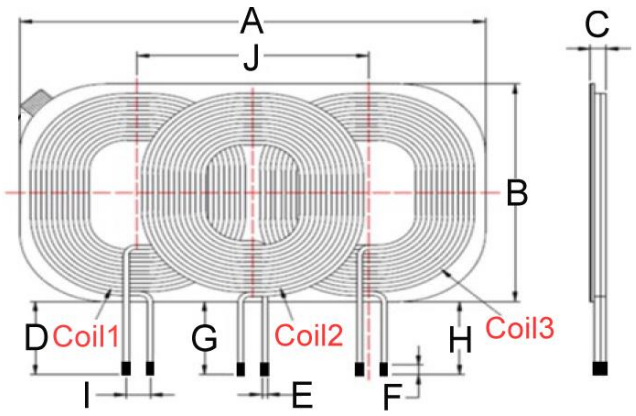
TYPE	A	B	C	D	E	F	G	H
BTWW00505024TXA005	43±1.0	50±0.5	27±2	3±1	12±1	1.0±0.2	2.3±0.5	-
BTWW00535340TXA014	53±0.5	53±0.5	30 Ref	3 Ref	15 Ref	1.5±0.2	2.7±0.5	4 Max

Shapes and Dimensions

BTWW00965640TXA010



BTWW00105742TXA008



Dimensions in mm

TYPE	A	B	C	D	E	F	G	H	I	J
BTWW00965640TXA010	96.4±2	56.4±2	4 Max	20±2	1.2 Ref	2.5 Ref	20±2	20±2	-	-
BTWW00105742TXA008	101±2	57±2	4.2 Max	20±2	1.2 Ref	2.5 Ref	20±2	20±2	6 Ref	48±4

Electrical Characteristics

Part Number	Test Frequency (kHz)	Inductance (uH)			Tolerance (±%)	Q	DC Resistance (mΩ)		
		Coil1	Coil2	Coil3			Coil 1	Coil 2	Coil 3
BTWW00505024TXA005	100		6.3		10	80 Min		36±15%	
BTWW00535340TXA014	100		10		10	100 Ref		47±15%	
BTWW00965640TXA010	100	12.5	11.5	12.5	10	-		65±10%	
BTWW00105742TXA008	100	9.8	10.2	9.8	10	-		65±10%	

Note:

- Operating temperature range - 20℃ ~ 85℃(Including self - temperature rise)
- Storage temperature range - 20℃ ~ 85℃ ; 50% RH Max.

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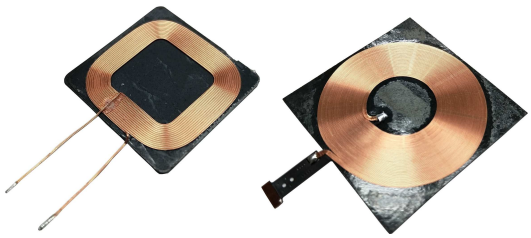
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

BTWW-RX Series



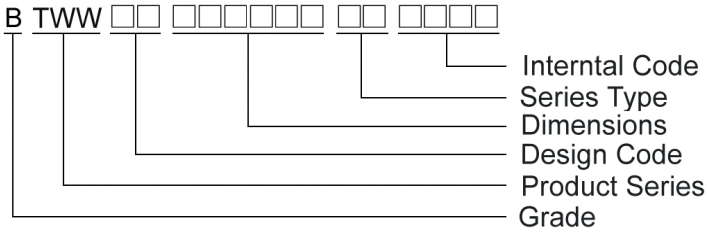
Features

- Receiving coils for Wireless Charger
- Flexible sheet type is available
- Variety of ferrite thickness: from 0.12mm to 0.35mm
- Custom design is available based on each design requirements

Applications

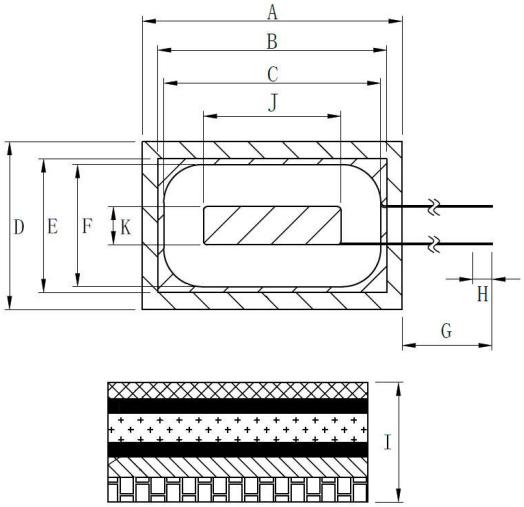
- Cell phone
- Tablet
- Wearable device
- Battery pack

Product Identification

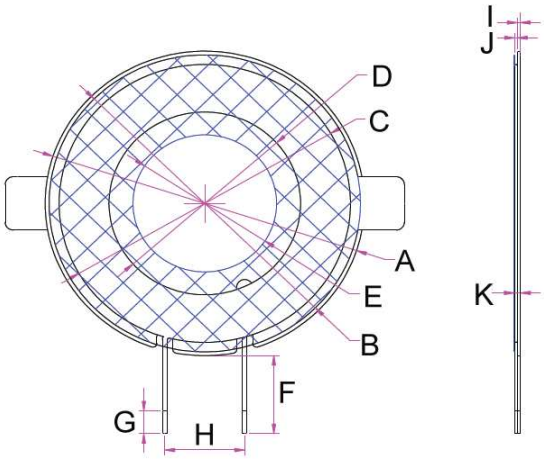


Shapes and Dimensions

BTWW00332265RXA001



BTWW00404007RXA003



Dimensions in mm

TYPE	A	B	C	D	E	F	G	H	I	J	K
BTWW00332265RXA001	33±1	30±1	28.4±1	22±1	17.5±1	16±1	28±2	2.5±0.5	0.85±0.2	18±0.5	5±0.5
BTWW00404007RXA003	40±0.5	39±0.5	36.5±1	24±0.5	18±0.5	10±1	3±1	10 Ref	0.35±0.02	0.35±0.05	0.76±0.05

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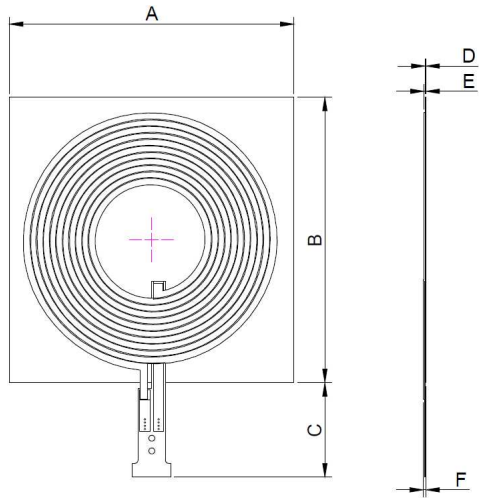
Shapes and Dimensions

BTWW00675003RXA008



Dimensions in mm

TYPE	A	B	C	D	E	F
BTWW00675003RXA008	50±0.5	50±0.5	17 Ref	0.12±0.05	0.3±0.05	0.47±0.05

Electrical Characteristics

Part Number	Frequency (kHz)	Inductance (uH)	Tolerance (±%)	Q	DC Resistance (mΩ)	Operating temperature	Storage temperature
BTWW00332265RXA001	100	26.6	10	15 Ref	1010 Max	-25℃~70℃	-40℃~85℃
BTWW00404007RXA003	100	7.5	10	-	150±15%	-20℃~85℃	-20℃~85℃
BTWW00675003RXA008	100	8.0	10	23.7±15%	155±15%	-20℃~85℃	-20℃~85℃

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CHILISIN ELECTRONICS CORP.

BSCQ Series

BSCQ Series supports miniaturized devices. Its low inductance, high precision and high Q enables easy impedance matching at both RF and IF circuits and compact high frequency circuit designing.

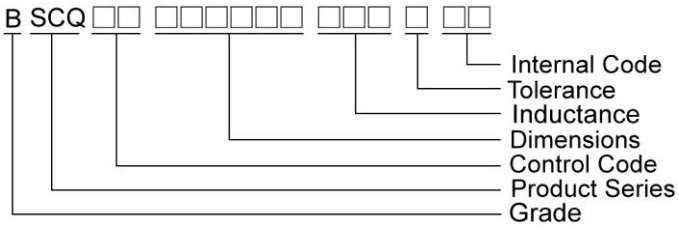
Features

- Excellent high frequency application
- High Q factor and SRF value
- Miniaturization
- Tight tolerance
- Wide inductance range

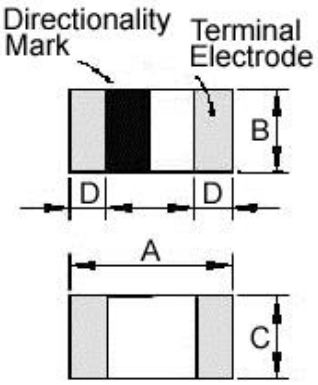
Applications

- RF matching circuit requiring Q value
- Bluetooth, WLAN, UWB, digital TV tuners and high-frequency circuit and module

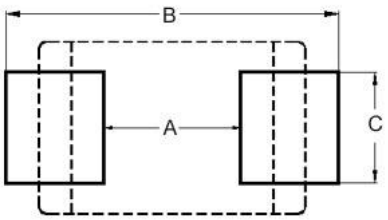
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
BSCQ00060303	0.6±0.03	0.3±0.03	0.3±0.03	0.15±0.05

Dimensions in mm

TYPE	A	B	C
BSCQ00060303	0.3	0.75 ~ 1.05	0.3

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Q Min	Test Freq. (MHz)	Q Typical 500 MHz	800 MHz	1.8 GHz	2.0 GHz	2.4 GHz	SRF (MHz) Min	RDC (Ω) Max	IDC (mA) Max
BSCQ000603030N6□00	0.6	±0.1nH/±0.2nH/±0.3nH	14	500	>24	>32	>54	>57	>65	10000	0.06	900
BSCQ000603030N7□00	0.7	±0.1nH/±0.2nH/±0.3nH	14	500	>24	>32	>54	>57	>65	10000	0.06	900
BSCQ000603030N8□00	0.8	±0.1nH/±0.2nH/±0.3nH	14	500	>24	>32	>54	>57	>65	10000	0.06	900
BSCQ000603030N9□00	0.9	±0.1nH/±0.2nH/±0.3nH	14	500	>24	>32	>54	>57	>65	10000	0.06	900
BSCQ000603031N0□00	1.0	±0.1nH/±0.2nH/±0.3nH	14	500	23	32	54	57	65	10000	0.07	850
BSCQ000603031N1□00	1.1	±0.1nH/±0.2nH/±0.3nH	14	500	22	26	45	47	55	10000	0.07	850
BSCQ000603031N2□00	1.2	±0.1nH/±0.2nH/±0.3nH	14	500	22	25	43	44	52	10000	0.08	800
BSCQ000603031N3□00	1.3	±0.1nH/±0.2nH/±0.3nH	14	500	19	25	40	42	47	10000	0.09	760
BSCQ000603031N4□00	1.4	±0.1nH/±0.2nH/±0.3nH	14	500	19	24	339	41	47	10000	0.12	640
BSCQ000603031N5□00	1.5	±0.1nH/±0.2nH/±0.3nH	14	500	19	24	39	41	46	10000	0.15	600
BSCQ000603031N6□00	1.6	±0.1nH/±0.2nH/±0.3nH	14	500	19	24	39	41	46	10000	0.19	510
BSCQ000603031N7□00	1.7	±0.1nH/±0.2nH/±0.3nH	14	500	19	24	39	41	46	10000	0.11	680
BSCQ000603031N8□00	1.8	±0.1nH/±0.2nH/±0.3nH	14	500	19	24	39	41	46	10000	0.12	640
BSCQ000603031N9□00	1.9	±0.1nH/±0.2nH/±0.3nH	14	500	18	24	38	40	45	10000	0.13	620
BSCQ000603032N0□00	2.0	±0.1nH/±0.2nH/±0.3nH	14	500	17	24	38	39	44	10000	0.15	600
BSCQ000603032N1□00	2.1	±0.1nH/±0.2nH/±0.3nH	14	500	17	24	37	39	44	10000	0.16	550
BSCQ000603032N2□00	2.2	±0.1nH/±0.2nH/±0.3nH	14	500	17	24	38	40	43	10000	0.20	500
BSCQ000603032N3□00	2.3	±0.1nH/±0.2nH/±0.3nH	14	500	17	24	37	39	43	10000	0.24	460
BSCQ000603032N4□00	2.4	±0.1nH/±0.2nH/±0.3nH	14	500	17	23	36	38	42	10000	0.26	430
BSCQ000603032N5□00	2.5	±0.1nH/±0.2nH/±0.3nH	14	500	17	23	35	36	40	10000	0.28	415
BSCQ000603032N6□00	2.6	±0.1nH/±0.2nH/±0.3nH	14	500	17	22	34	35	39	10000	0.30	405
BSCQ000603032N7□00	2.7	±0.1nH/±0.2nH/±0.3nH	14	500	17	22	34	35	39	10000	0.32	400
BSCQ000603032N8□00	2.8	±0.1nH/±0.2nH/±0.3nH	14	500	17	22	34	35	39	9500	0.20	500
BSCQ000603032N9□00	2.9	±0.1nH/±0.2nH/±0.3nH	14	500	17	22	34	35	39	9300	0.22	480
BSCQ000603033N0□00	3.0	±0.1nH/±0.2nH/±0.3nH	14	500	17	22	34	35	39	9100	0.24	460
BSCQ000603033N1□00	3.1	±0.1nH/±0.2nH/±0.3nH	14	500	17	22	34	35	39	8900	0.25	450
BSCQ000603033N2□00	3.2	±0.1nH/±0.2nH/±0.3nH	14	500	17	22	33	35	39	8700	0.28	415
BSCQ000603033N3□00	3.3	±0.1nH/±0.2nH/±0.3nH	14	500	18	23	34	36	40	8600	0.28	415
BSCQ000603033N4□00	3.4	±0.1nH/±0.2nH/±0.3nH	14	500	17	23	33	35	39	8400	0.29	410
BSCQ000603033N5□00	3.5	±0.1nH/±0.2nH/±0.3nH	14	500	17	23	33	35	39	8200	0.30	405
BSCQ000603033N6□00	3.6	±0.1nH/±0.2nH/±0.3nH	14	500	16	23	33	35	39	8100	0.32	400
BSCQ000603033N7□00	3.7	±0.1nH/±0.2nH/±0.3nH	14	500	16	23	33	35	38	8000	0.36	370
BSCQ000603033N8□00	3.8	±0.1nH/±0.2nH/±0.3nH	14	500	16	22	33	35	38	7800	0.40	355
BSCQ000603033N9□00	3.9	±0.1nH/±0.2nH/±0.3nH	14	500	16	22	33	35	38	7700	0.41	350

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , S=±0.3nH , H=±3% , J=±5%

- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- IDC：Applied the current to coils, the inductance shall be less than 10% initial value
- Residual impedance of short chip : 0.48nH
- Measure Equipment：

  L & Q：Agilent E4991A+Agilent 16197A

  SRF：Agilent E4991A or HP19196C

  RDC：HP4338B or CHEN HWA 502

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Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Q Min	Test Freq. (MHz)	Q Typical 500 MHz	800 MHz	1.8 GHz	2.0 GHz	2.4 GHz	SRF (MHz) Min	RDC (Ω) Max	IDC (mA) Max
BSCQ000603034N3□00	4.3	±0.2nH/±0.3nH	14	500	16	21	32	34	37	6500	0.48	320
BSCQ000603034N7□00	4.7	±0.2nH/±0.3nH	14	500	16	22	33	35	38	6400	0.42	350
BSCQ000603035N1□00	5.1	±0.2nH/±0.3nH	14	500	17	22	34	36	38	6100	0.45	330
BSCQ000603035N6□00	5.6	±0.2nH/±0.3nH	14	500	16	21	33	34	37	5500	0.47	325
BSCQ000603036N2□00	6.2	±0.2nH/±0.3nH	14	500	18	23	34	35	37	5100	0.52	305
BSCQ000603036N8□00	6.8	3 / 5	14	500	17	22	32	33	35	4800	0.55	305
BSCQ000603037N5□00	7.5	3 / 5	14	500	16	21	31	33	34	4600	0.55	305
BSCQ000603038N2□00	8.2	3 / 5	14	500	16	21	31	32	34	4300	0.57	290
BSCQ000603039N1□00	9.1	3 / 5	14	500	16	20	30	31	32	4000	0.65	270
BSCQ0006030310N□00	10	3 / 5	14	500	16	20	28	29	31	3800	0.85	230
BSCQ0006030312N□00	12	3 / 5	12	500	16	20	27	28	28	3300	0.85	230
BSCQ0006030315N□00	15	3 / 5	12	500	15	19	24	24	23	2600	0.89	220
BSCQ0006030318N□00	18	3 / 5	12	500	15	19	23	24	22	2300	1.05	205
BSCQ0006030322N□00	22	3 / 5	12	500	15	19	22	23	20	1900	1.29	190

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , S=±0.3nH , H=±3% , J=±5%

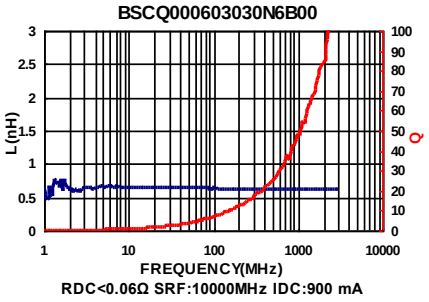
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- IDC：Applied the current to coils, the inductance shall be less than 10% initial value
- Residual impedance of short chip : 0.48nH
- Measure Equipment：

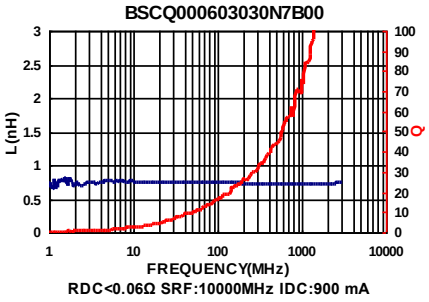
  L & Q：Agilent E4991A+Agilent 16197A

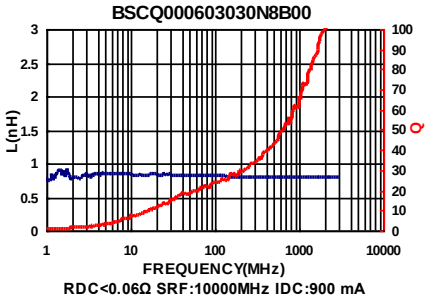
  SRF：Agilent E4991A or HP19196C

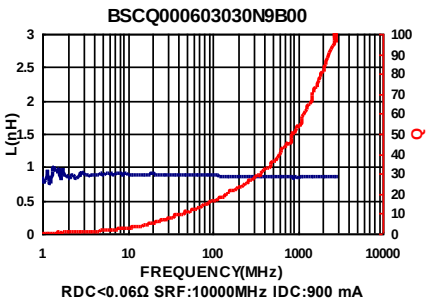
  RDC：HP4338B or CHEN HWA 502

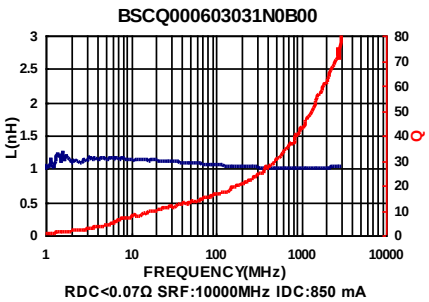
Test Instruments：Agilent E4991A Material/Impedance Analyzer

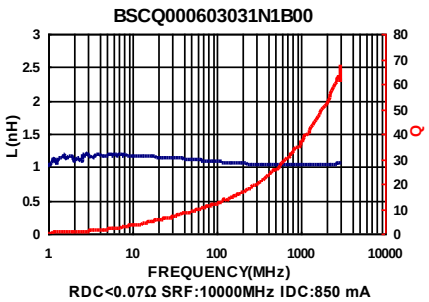












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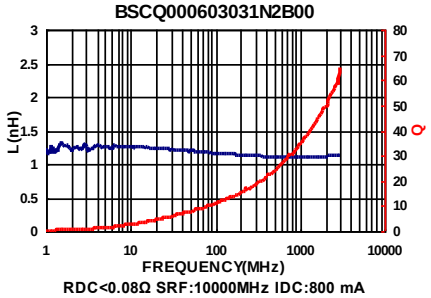
CHILISIN ELECTRONICS CORP.

Test Instruments：Agilent E4991A Material/Impedance Analyzer

BSCQ000603031N2B00



RDC<0.08Ω SRF:10000MHz IDC:800 mA

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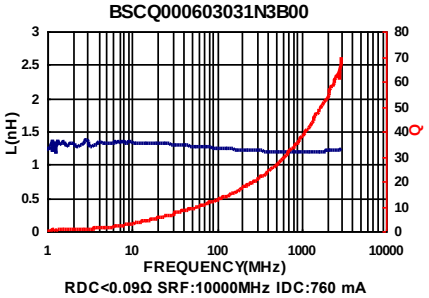

RDC<0.09Ω SRF:10000MHz IDC:760 mA

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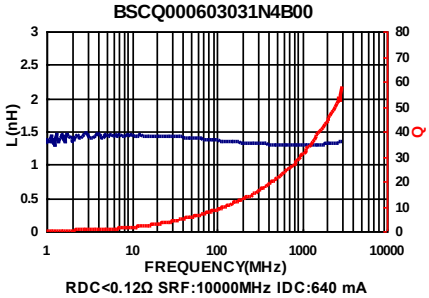

RDC<0.12Ω SRF:10000MHz IDC:640 mA

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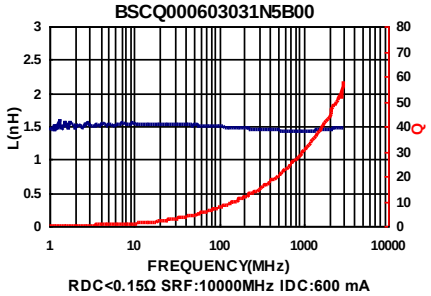

RDC<0.15Ω SRF:10000MHz IDC:600 mA

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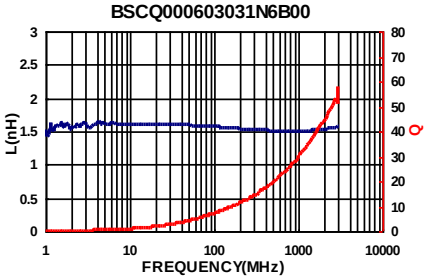

RDC<0.19Ω SRF:10000MHz IDC:510 mA

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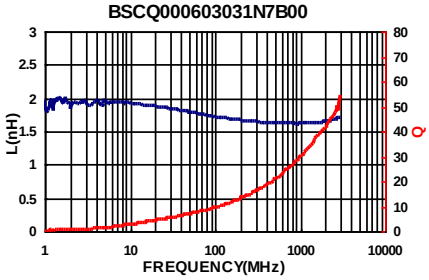

RDC<0.11Ω SRF:10000MHz IDC:680 mA

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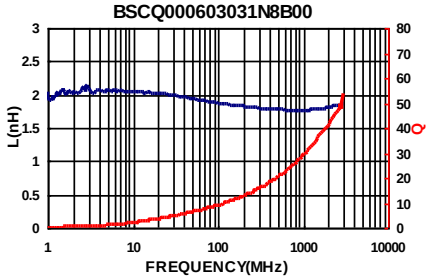

RDC<0.12Ω SRF:10000MHz IDC:640 mA

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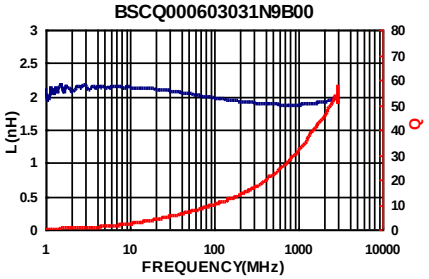

RDC<0.13Ω SRF:10000MHz IDC:620 mA

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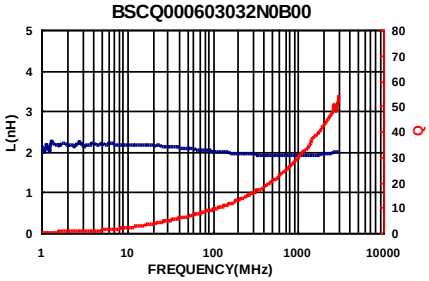

RDC<0.15Ω SRF:10000MHz IDC:600 mA

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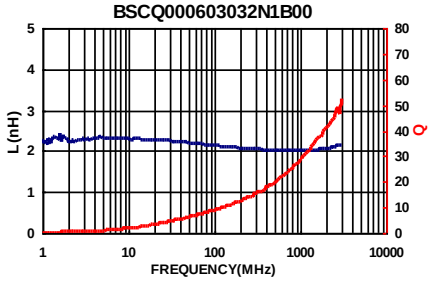

RDC<0.16Ω SRF:10000MHz IDC:550 mA

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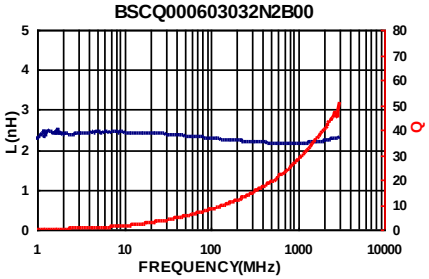
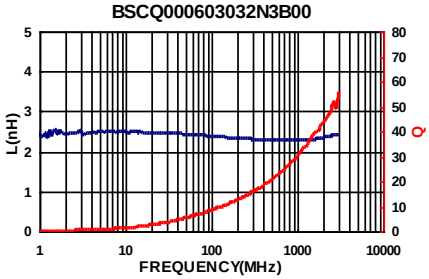


RDC<0.2Ω SRF:10000MHz IDC:500 mA

BSCQ000603032N3B00



RDC<0.24Ω SRF:10000MHz IDC:460 mA

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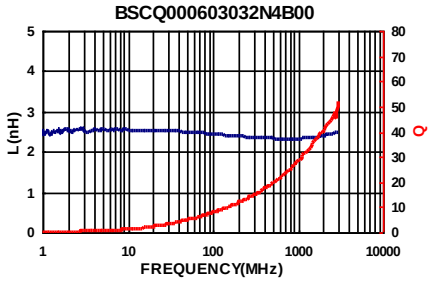
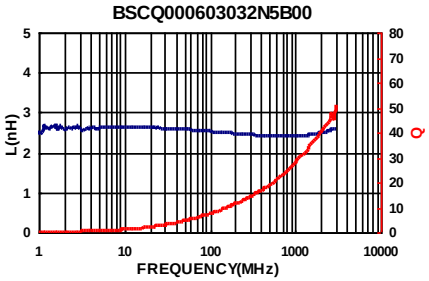


RDC<0.26Ω SRF:10000MHz IDC:430 mA

BSCQ000603032N5B00



RDC<0.28Ω SRF:10000MHz IDC:415 mA

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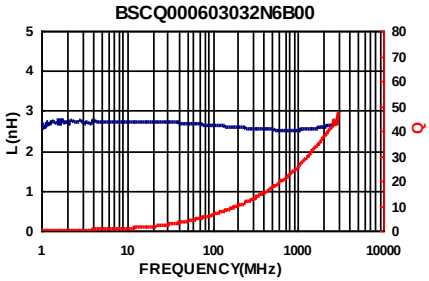

RDC<0.3Ω SRF:10000MHz IDC:405 mA

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

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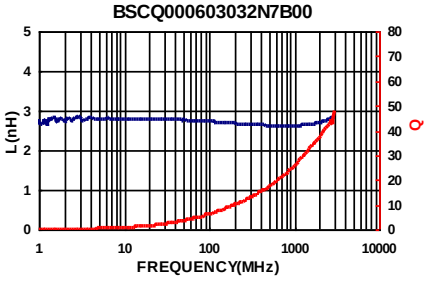
CHILISIN ELECTRONICS CORP.

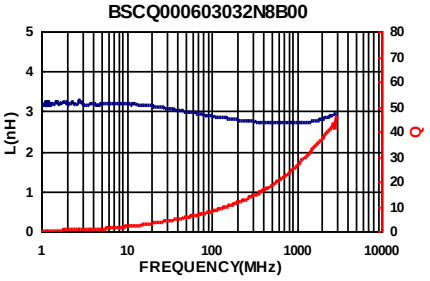
Test Instruments：Agilent E4991A Material/Impedance Analyzer

BSCQ000603032N7B00



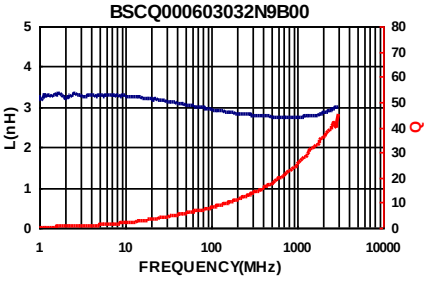
RDC<0.32Ω SRF:10000MHz IDC:400 mA

BSCQ000603032N8B00



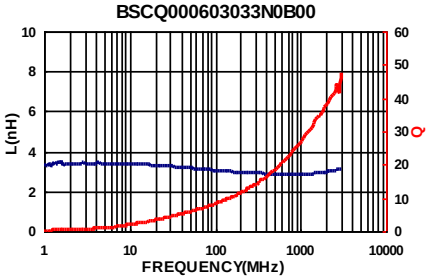
RDC<0.2Ω SRF:9500MHz IDC:500 mA

BSCQ000603032N9B00



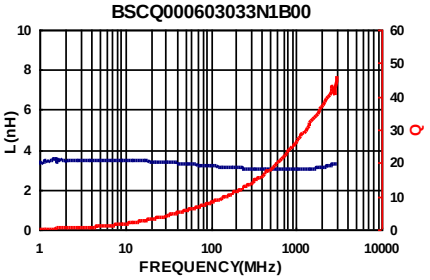
RDC<0.22Ω SRF:9300MHz IDC:480 mA

BSCQ000603033N0B00



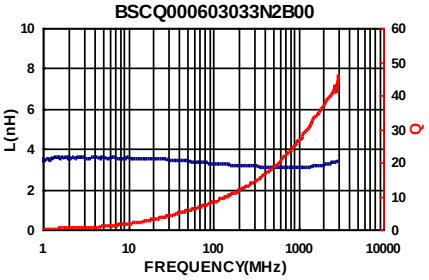
RDC<0.24Ω SRF:9100MHz IDC:460 mA

BSCQ000603033N1B00



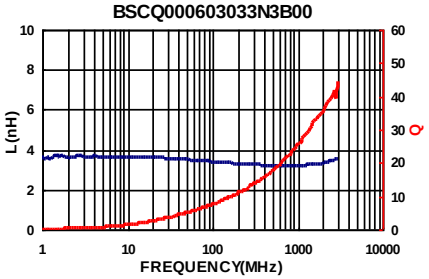
RDC<0.25Ω SRF:8900MHz IDC:450 mA

BSCQ000603033N2B00



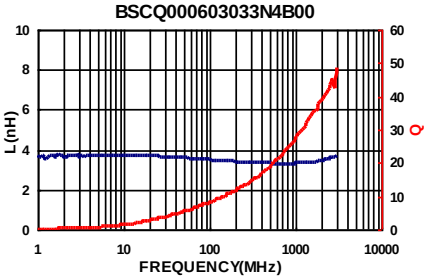
RDC<0.28Ω SRF:8700MHz IDC:415 mA

BSCQ000603033N3B00



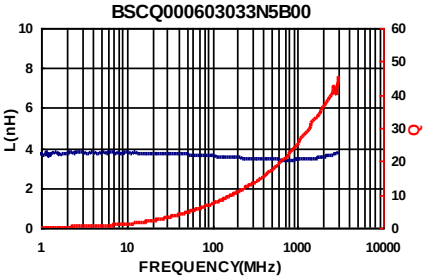
RDC<0.28Ω SRF:8600MHz IDC:415 mA

BSCQ000603033N4B00



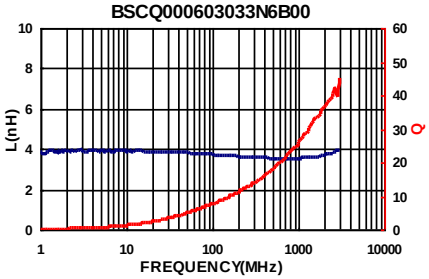
RDC<0.29Ω SRF:8400MHz IDC:410 mA

BSCQ000603033N5B00



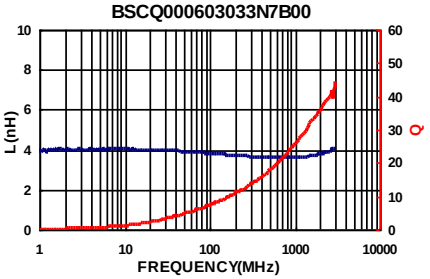
RDC<0.3Ω SRF:8200MHz IDC:405 mA

BSCQ000603033N6B00



RDC<0.32Ω SRF:8100MHz IDC:400 mA

BSCQ000603033N7B00



RDC<0.36Ω SRF:8000MHz IDC:370 mA

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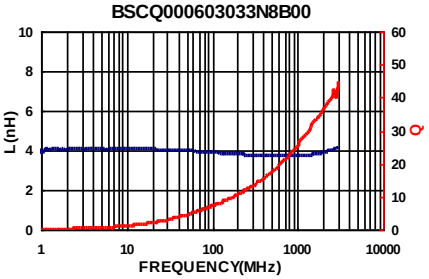
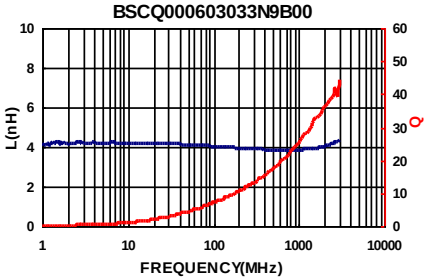


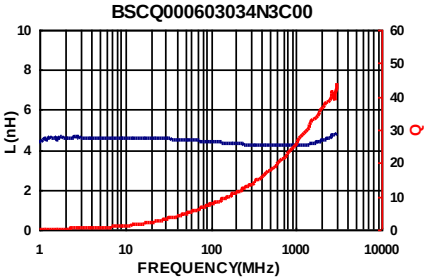
RDC<0.4Ω SRF:7800MHz IDC:355 mA

BSCQ000603033N9B00



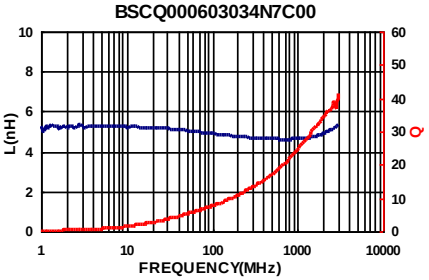
RDC<0.41Ω SRF:7700MHz IDC:350 mA

BSCQ000603034N3C00



RDC<0.48Ω SRF:6500MHz IDC:320 mA

BSCQ000603034N7C00



RDC<0.42Ω SRF:6400MHz IDC:350 mA

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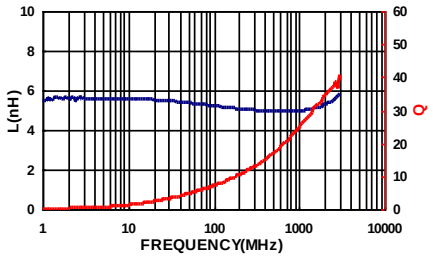
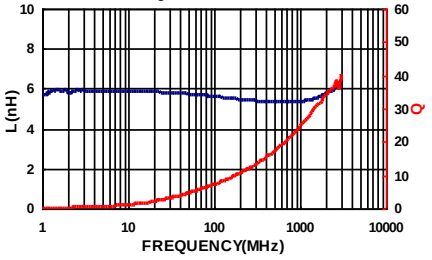
Test Instruments：Agilent E4991A Material/Impedance Analyzer

BSCQ000603035N1C00



RDC<0.45Ω SRF:6100MHz IDC:330 mA

BSCQ000603035N6C00



RDC<0.47Ω SRF:5500MHz IDC:325 mA

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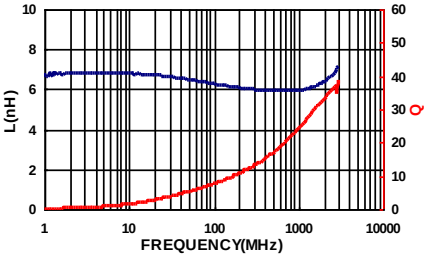
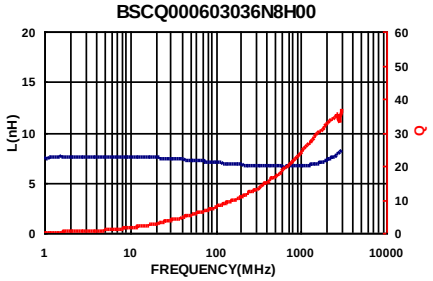


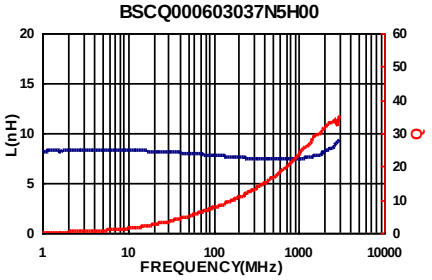
RDC<0.52Ω SRF:5100MHz IDC:305 mA

BSCQ000603036N8H00



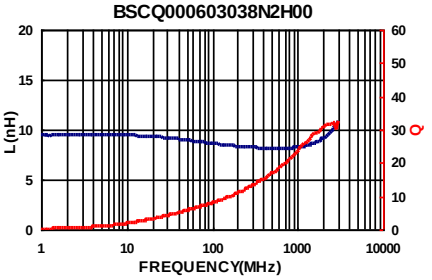
RDC<0.55Ω SRF:4800MHz IDC:305 mA

BSCQ000603037N5H00



RDC<0.55Ω SRF:4600MHz IDC:305 mA

BSCQ000603038N2H00



RDC<0.57Ω SRF:4300MHz IDC:290 mA

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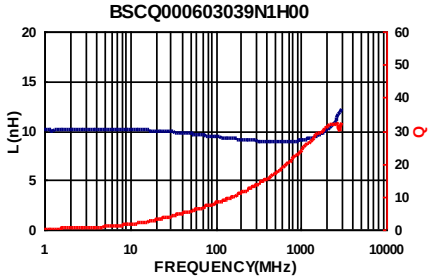
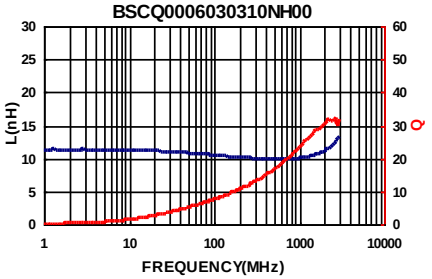


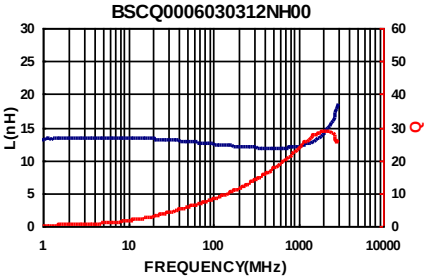
RDC<0.65Ω SRF:4000MHz IDC:270 mA

BSCQ0006030310NH00



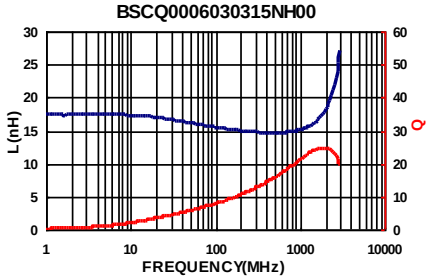
RDC<0.85Ω SRF:3800MHz IDC:230 mA

BSCQ0006030312NH00



RDC<0.85Ω SRF:3300MHz IDC:230 mA

BSCQ0006030315NH00



RDC<0.89Ω SRF:2600MHz IDC:220 mA

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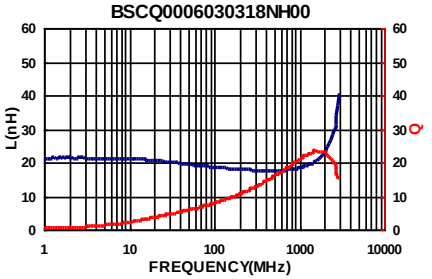

RDC<1.05Ω SRF:2300MHz IDC:205 mA

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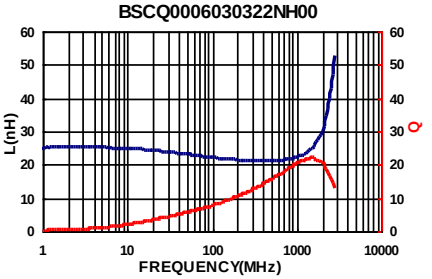

RDC<1.29Ω SRF:1900MHz IDC:190 mA

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	IDC (mA) Max
BSCQ000603030N1□HR	0.1	±0.1nH/±0.2nH/±0.3nH	14	500	10000	0.06	900
BSCQ000603030N2□HR	0.2	±0.1nH/±0.2nH/±0.3nH	14	500	10000	0.06	900
BSCQ000603030N3□HR	0.3	±0.1nH/±0.2nH/±0.3nH	14	500	10000	0.06	900
BSCQ000603030N4□HR	0.4	±0.1nH/±0.2nH/±0.3nH	14	500	10000	0.06	900
BSCQ000603030N5□HR	0.5	±0.1nH/±0.2nH/±0.3nH	14	500	10000	0.07	850
BSCQ000603030N6□HR	0.6	±0.1nH/±0.2nH/±0.3nH	14	500	10000	0.07	850
BSCQ000603030N7□HR	0.7	±0.1nH/±0.2nH/±0.3nH	14	500	10000	0.08	800
BSCQ000603030N8□HR	0.8	±0.1nH/±0.2nH/±0.3nH	14	500	10000	0.09	760
BSCQ000603030N9□HR	0.9	±0.1nH/±0.2nH/±0.3nH	14	500	10000	0.12	640
BSCQ000603031N0□HR	1.0	±0.1nH/±0.2nH/±0.3nH	14	500	10000	0.15	600
BSCQ000603031N1□HR	1.1	±0.1nH/±0.2nH/±0.3nH	14	500	10000	0.19	510
BSCQ000603031N2□HR	1.2	±0.1nH/±0.2nH/±0.3nH	14	500	10000	0.11	680
BSCQ000603031N3□HR	1.3	±0.1nH/±0.2nH/±0.3nH	14	500	10000	0.12	640
BSCQ000603031N4□HR	1.4	±0.1nH/±0.2nH/±0.3nH	14	500	10000	0.13	620
BSCQ000603031N5□HR	1.5	±0.1nH/±0.2nH/±0.3nH	14	500	10000	0.15	600
BSCQ000603031N6□HR	1.6	±0.1nH/±0.2nH/±0.3nH	14	500	10000	0.16	550
BSCQ000603031N7□HR	1.7	±0.1nH/±0.2nH/±0.3nH	14	500	10000	0.20	500
BSCQ000603031N8□HR	1.8	±0.1nH/±0.2nH/±0.3nH	14	500	10000	0.24	460
BSCQ000603031N9□HR	1.9	±0.1nH/±0.2nH/±0.3nH	14	500	10000	0.26	430
BSCQ000603032N0□HR	2.0	±0.1nH/±0.2nH/±0.3nH	14	500	10000	0.28	415
BSCQ000603032N1□HR	2.1	±0.1nH/±0.2nH/±0.3nH	14	500	10000	0.30	405
BSCQ000603032N2□HR	2.2	±0.1nH/±0.2nH/±0.3nH	14	500	10000	0.32	400
BSCQ000603032N3□HR	2.3	±0.1nH/±0.2nH/±0.3nH	14	500	9500	0.20	500
BSCQ000603032N4□HR	2.4	±0.1nH/±0.2nH/±0.3nH	14	500	9300	0.22	480
BSCQ000603032N5□HR	2.5	±0.1nH/±0.2nH/±0.3nH	14	500	9100	0.24	460
BSCQ000603032N6□HR	2.6	±0.1nH/±0.2nH/±0.3nH	14	500	8900	0.25	450
BSCQ000603032N7□HR	2.7	±0.1nH/±0.2nH/±0.3nH	14	500	8700	0.28	415
BSCQ000603032N8□HR	2.8	±0.1nH/±0.2nH/±0.3nH	14	500	8600	0.28	415
BSCQ000603032N9□HR	2.9	±0.1nH/±0.2nH/±0.3nH	14	500	8400	0.29	410
BSCQ000603033N0□HR	3.0	±0.1nH/±0.2nH/±0.3nH	14	500	8200	0.30	405
BSCQ000603033N1□HR	3.1	±0.1nH/±0.2nH/±0.3nH	14	500	8100	0.32	400
BSCQ000603033N2□HR	3.2	±0.1nH/±0.2nH/±0.3nH	14	500	8000	0.36	370

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , S=±0.3nH , H=±3% , J=±5%

- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- IDC：Applied the current to coils, the inductance shall be less than 10% initial value
- Residual impedance of short chip : 0nH
- Measure Equipment：

  L & Q：Agilent E4991A+Agilent 16197A

  SRF：Agilent E4991A or HP19196C

  RDC：HP4338B or CHEN HWA 502

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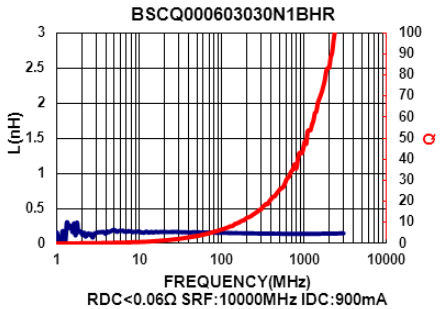
Electrical Characteristics

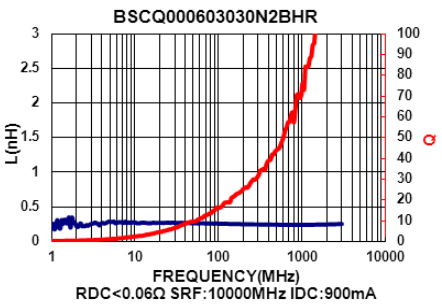
Part Number	Inductance (nH)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	IDC (mA) Max
BSCQ000603033N3□HR	3.3	±0.1nH/±0.2nH/±0.3nH	14	500	7800	0.40	355
BSCQ000603033N4□HR	3.4	±0.1nH/±0.2nH/±0.3nH	14	500	7700	0.41	350
BSCQ000603033N5□HR	3.5	±0.1nH/±0.2nH/±0.3nH	14	500	7700	0.41	350
BSCQ000603033N6□HR	3.6	±0.1nH/±0.2nH/±0.3nH	14	500	6500	0.48	320
BSCQ000603033N7□HR	3.7	±0.1nH/±0.2nH/±0.3nH	14	500	6500	0.48	320
BSCQ000603033N8□HR	3.8	±0.1nH/±0.2nH/±0.3nH	14	500	6500	0.48	320
BSCQ000603033N9□HR	3.9	±0.1nH/±0.2nH/±0.3nH	14	500	6500	0.48	320
BSCQ000603034N3□HR	4.3	±0.2nH/±0.3nH	14	500	6400	0.42	350
BSCQ000603034N7□HR	4.7	±0.2nH/±0.3nH	14	500	6100	0.45	330
BSCQ000603035N1□HR	5.1	±0.2nH/±0.3nH	14	500	5500	0.47	325
BSCQ000603035N6□HR	5.6	±0.2nH/±0.3nH	14	500	5100	0.52	305
BSCQ000603036N2□HR	6.2	±0.2nH/±0.3nH	14	500	4800	0.55	305
BSCQ000603036N8□HR	6.8	3 / 5	14	500	4600	0.55	305
BSCQ000603037N5□HR	7.5	3 / 5	14	500	4300	0.57	290
BSCQ000603038N2□HR	8.2	3 / 5	14	500	4000	0.65	270
BSCQ000603039N1□HR	9.1	3 / 5	14	500	3800	0.85	230
BSCQ0006030310N□HR	10	3 / 5	14	500	3800	0.85	230
BSCQ0006030312N□HR	12	3 / 5	12	500	3300	0.85	230
BSCQ0006030315N□HR	15	3 / 5	12	500	2600	0.89	220
BSCQ0006030318N□HR	18	3 / 5	12	500	2300	1.05	205
BSCQ0006030322N□HR	22	3 / 5	12	500	1900	1.29	190

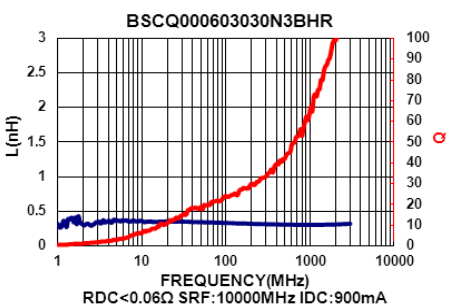
Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , S=±0.3nH , H=±3% , J=±5%

- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- IDC：Applied the current to coils, the inductance shall be less than 10% initial value
- Residual impedance of short chip : 0nH
- Measure Equipment：
  L & Q：Agilent E4991A+Agilent 16197A
  SRF：Agilent E4991A or HP19196C
  RDC：HP4338B or CHEN HWA 502

Test Instruments：Agilent E4991A Material/Impedance Analyzer







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CHILISIN ELECTRONICS CORP.

Test Instruments：Agilent E4991A Material/Impedance Analyzer

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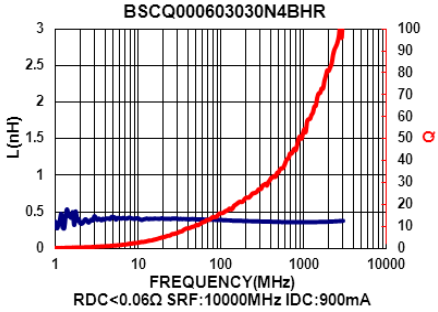

RDC<0.06Ω SRF:10000MHz IDC:900mA

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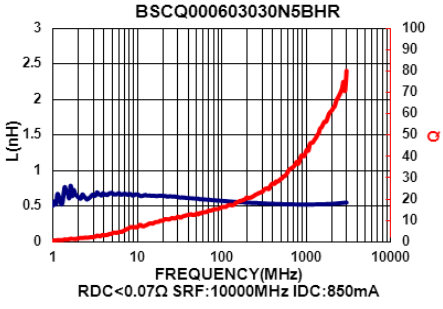

RDC<0.07Ω SRF:10000MHz IDC:850mA

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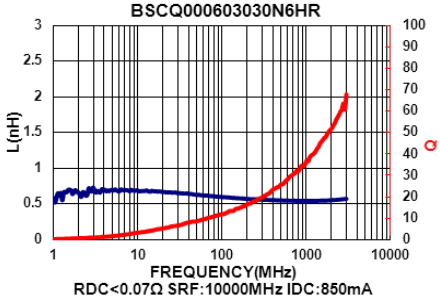

RDC<0.07Ω SRF:10000MHz IDC:850mA

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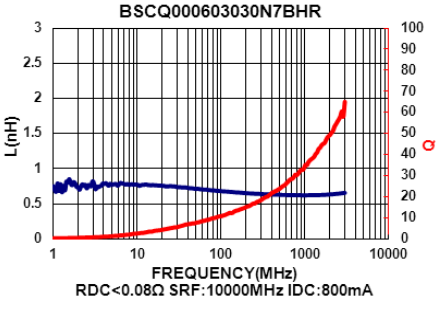

RDC<0.08Ω SRF:10000MHz IDC:800mA

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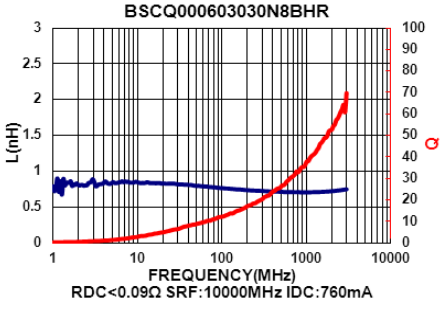

RDC<0.09Ω SRF:10000MHz IDC:760mA

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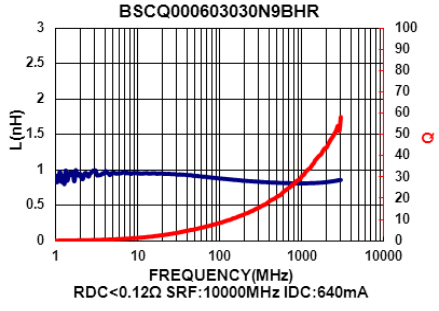

RDC<0.12Ω SRF:10000MHz IDC:640mA

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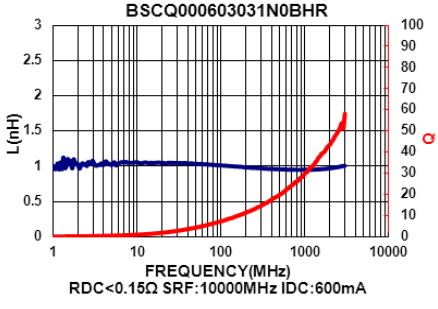

RDC<0.15Ω SRF:10000MHz IDC:600mA

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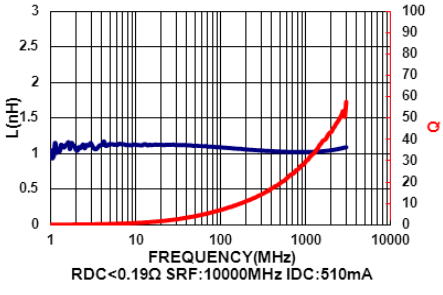

RDC<0.19Ω SRF:10000MHz IDC:510mA

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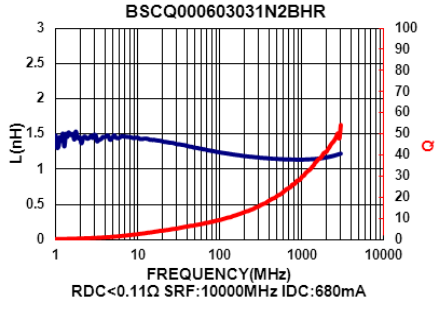

RDC<0.11Ω SRF:10000MHz IDC:680mA

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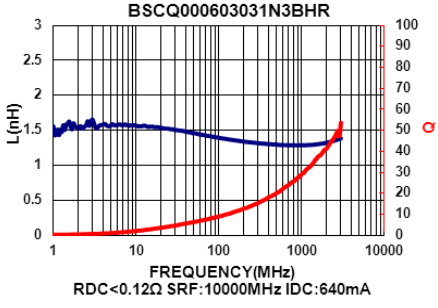

RDC<0.12Ω SRF:10000MHz IDC:640mA

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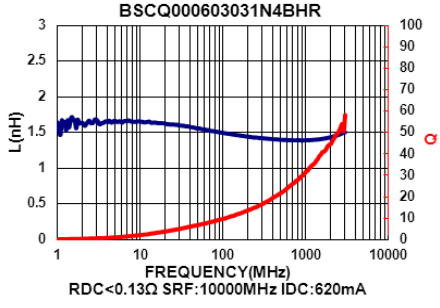

RDC<0.13Ω SRF:10000MHz IDC:620mA

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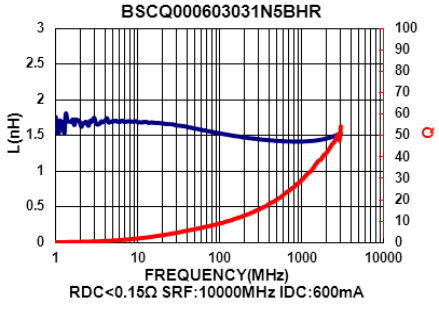

RDC<0.15Ω SRF:10000MHz IDC:600mA

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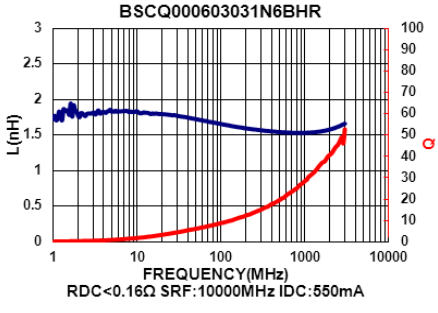

RDC<0.16Ω SRF:10000MHz IDC:550mA

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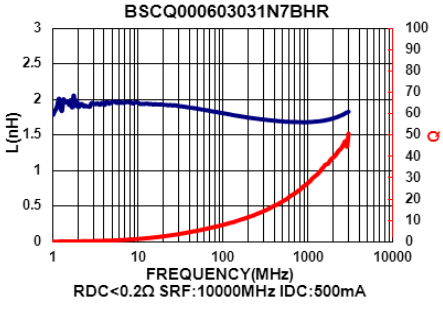

RDC<0.2Ω SRF:10000MHz IDC:500mA

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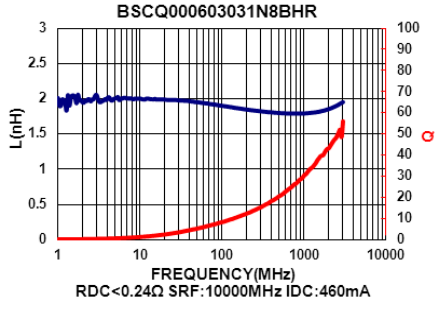

RDC<0.24Ω SRF:10000MHz IDC:460mA

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Test Instruments：Agilent E4991A Material/Impedance Analyzer

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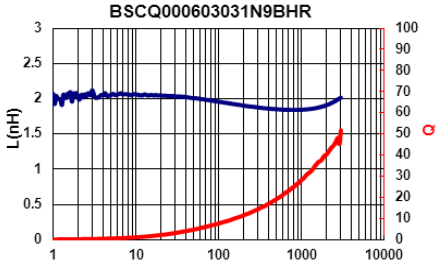

RDC<0.26Ω SRF:10000MHz IDC:430mA

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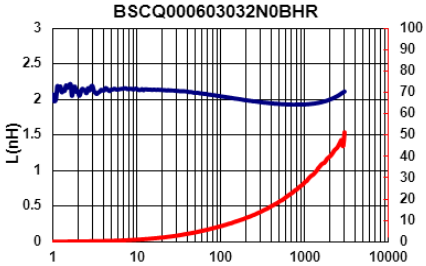

RDC<0.28Ω SRF:10000MHz IDC:415mA

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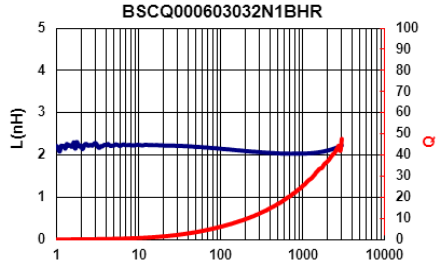

RDC<0.3Ω SRF:10000MHz IDC:405mA

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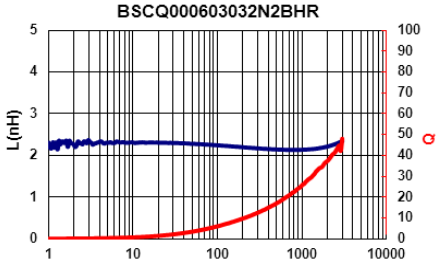

RDC<0.32Ω SRF:10000MHz IDC:400mA

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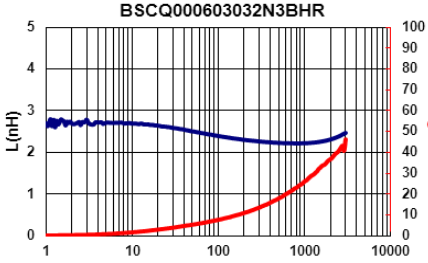

RDC<0.2Ω SRF:9500MHz IDC:500mA

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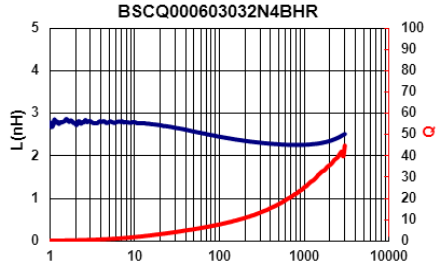

RDC<0.22Ω SRF:9300MHz IDC:480mA

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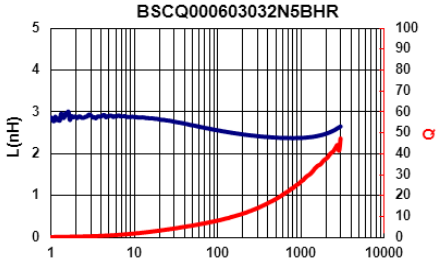

RDC<0.24Ω SRF:9100MHz IDC:460mA

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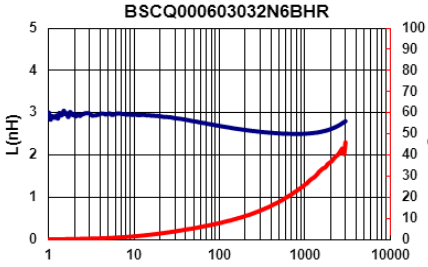

RDC<0.25Ω SRF:8900MHz IDC:450mA

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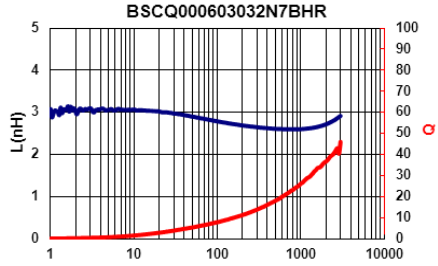
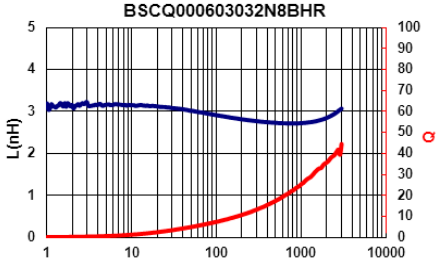


RDC<0.28Ω SRF:8700MHz IDC:415mA

BSCQ000603032N8BHR



RDC<0.28Ω SRF:8600MHz IDC:415mA

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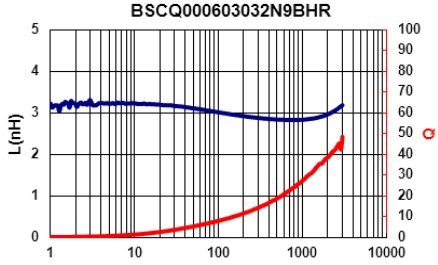

RDC<0.29Ω SRF:8400MHz IDC:410mA

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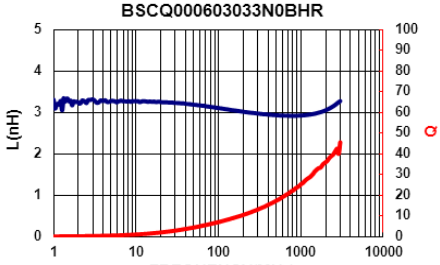

RDC<0.3Ω SRF:8200MHz IDC:405mA

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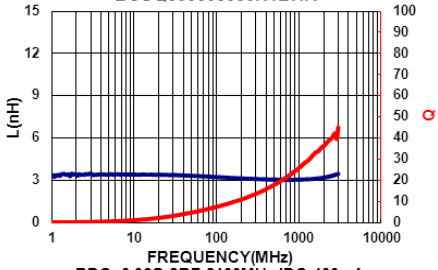

RDC<0.32Ω SRF:8100MHz IDC:400mA

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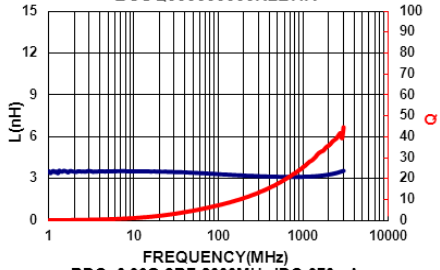

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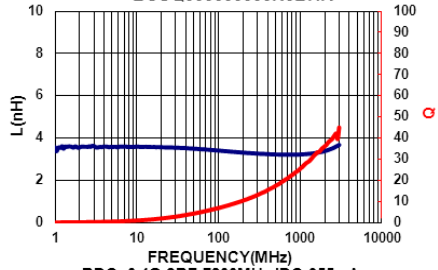

RDC<0.4Ω SRF:7800MHz IDC:355mA

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Test Instruments：Agilent E4991A Material/Impedance Analyzer

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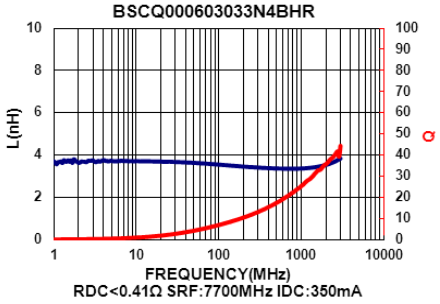

RDC<0.41Ω SRF:7700MHz IDC:350mA

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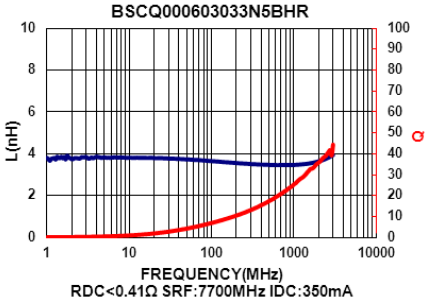

RDC<0.41Ω SRF:7700MHz IDC:350mA

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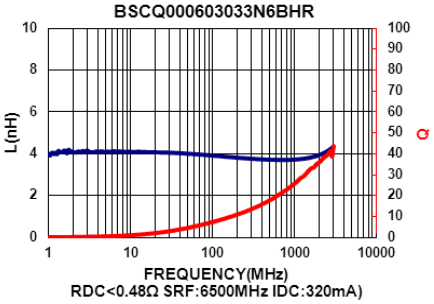

RDC<0.48Ω SRF:6500MHz IDC:320mA)

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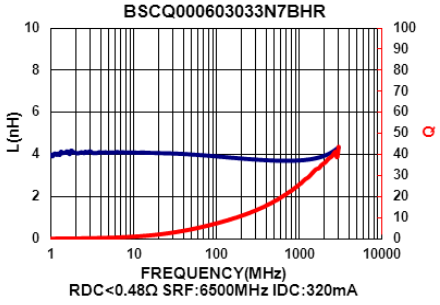

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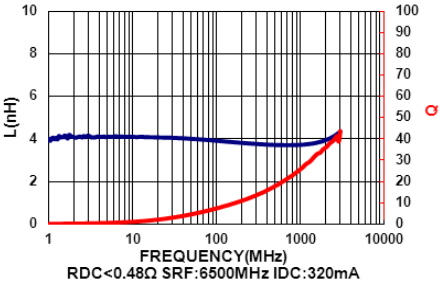

RDC<0.48Ω SRF:6500MHz IDC:320mA

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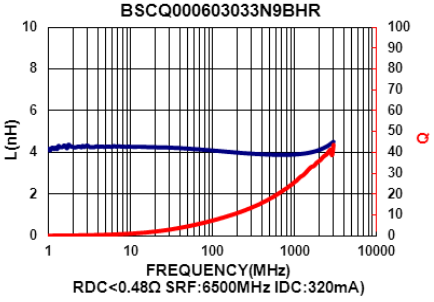

RDC<0.48Ω SRF:6500MHz IDC:320mA)

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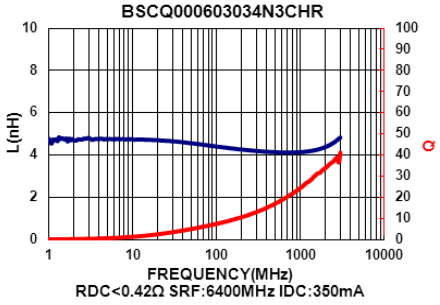

RDC<0.42Ω SRF:6400MHz IDC:350mA

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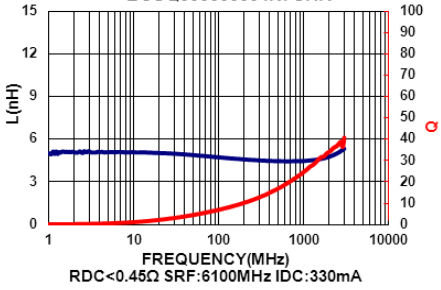
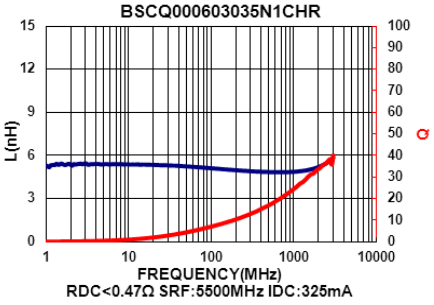


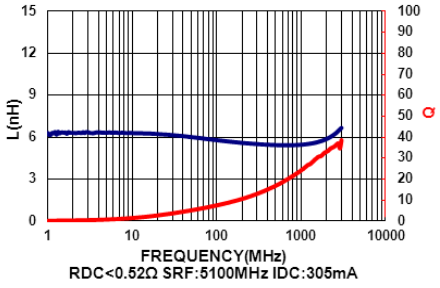
RDC<0.45Ω SRF:6100MHz IDC:330mA

BSCQ000603035N1CHR



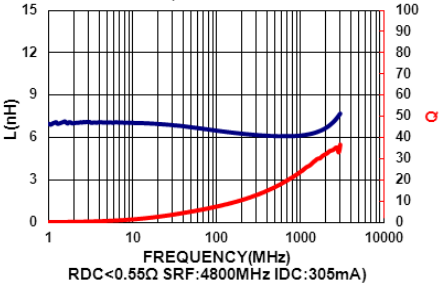
RDC<0.47Ω SRF:5500MHz IDC:325mA

BSCQ000603035N6CHR



RDC<0.52Ω SRF:5100MHz IDC:305mA

BSCQ000603036N2CHR



RDC<0.55Ω SRF:4800MHz IDC:305mA)

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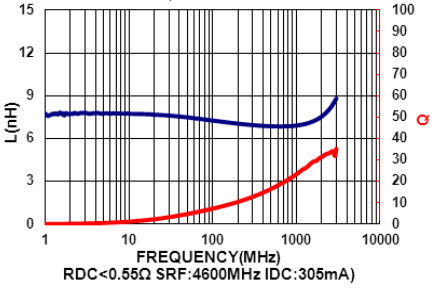

RDC<0.55Ω SRF:4600MHz IDC:305mA)

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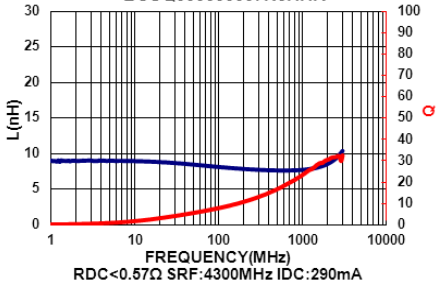

RDC<0.57Ω SRF:4300MHz IDC:290mA

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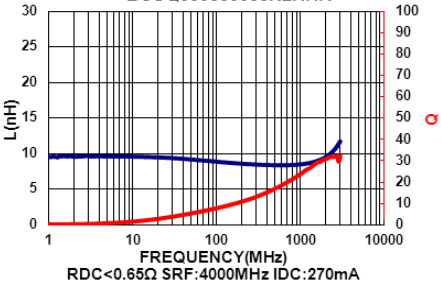

RDC<0.65Ω SRF:4000MHz IDC:270mA

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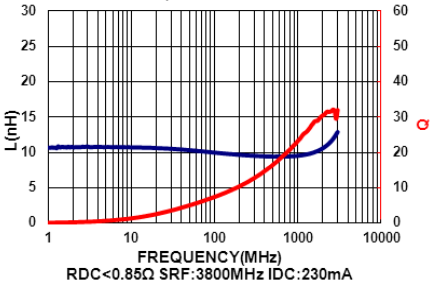

RDC<0.85Ω SRF:3800MHz IDC:230mA

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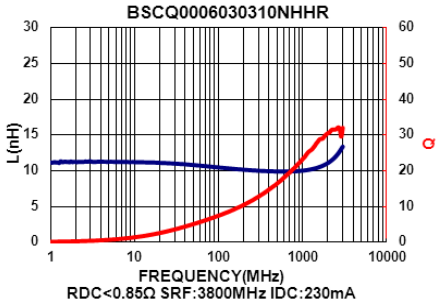
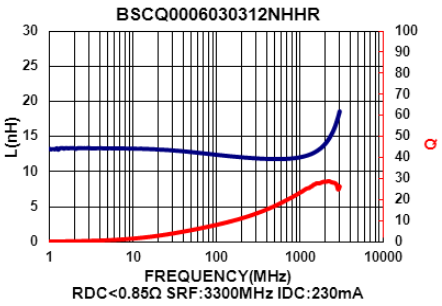
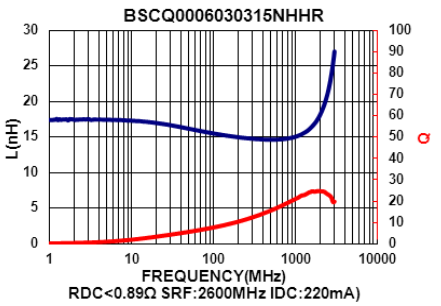
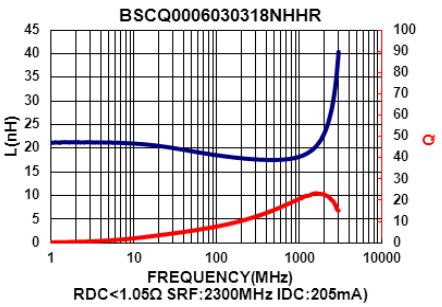
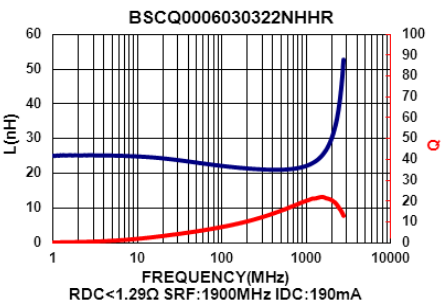
Test Instruments：Agilent E4991A Material/Impedance Analyzer











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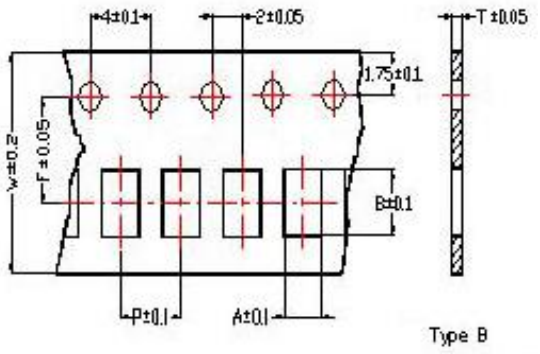
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions

Figure A



Tape Material

Figure A

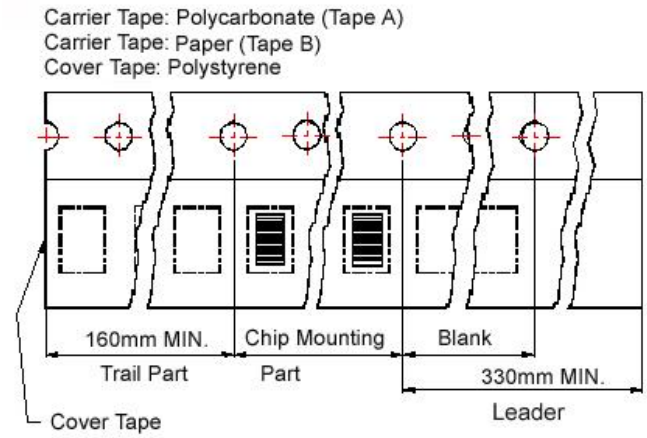
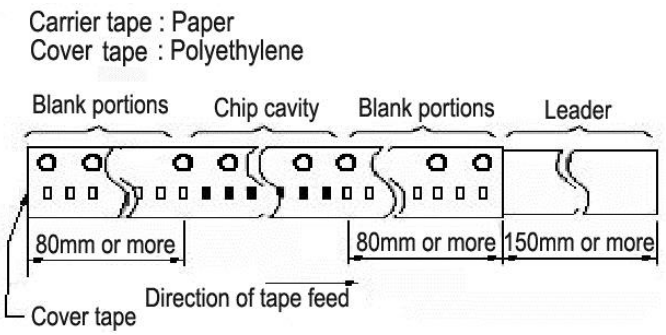
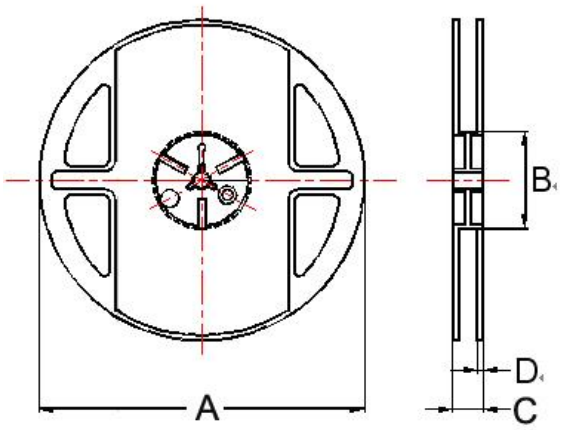


Figure B





Dimensions in mm

TYPE	Tape Dimensions							Tape	Reel Dimensions				Quantity
	A	B	T	W	P	F	Tape	Material	A	B	C	D	PCS / Reel
BSCQ00060303	0.37	0.67	0.42	8	2	3.5	A	B	180	60	13	1.5	15000

BSCH Series

The BSCH Series is a type of ceramic chip inductor produced using the multilayer technology. The series provides excellent Q factor and SRF characteristics and is suitable for high frequency applications.

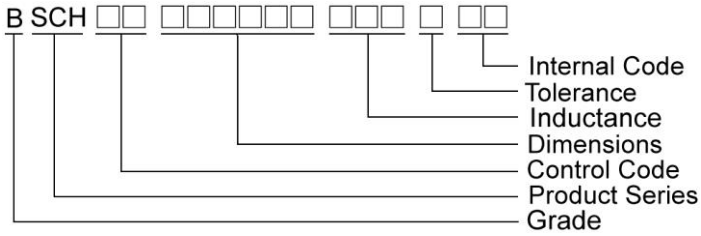
Features

- RoHS compliant
- Excellent Q factor and SRF characteristics
- Small size of 1005/1608 is suitable for small portable devices
- Supports operating frequency up to 6GHz with nominal inductance values from 1.0nH to 470nH.

Applications

- RF resonance and impedance matching circuit
- RF and wireless communication
- Information technology equipment, computers, telecommunications, radar detectors, automotive electronics, cellular phones, pagers, PDAs, keyless remote systems
- L-C filter configurations

Product Identification



- Product series identification:

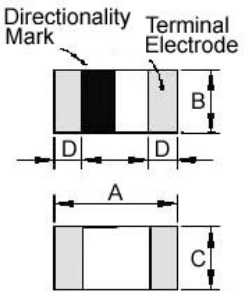
BSCH00060303 Top side half mark.

BSCH00100505 Top side full mark.

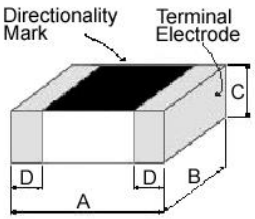
BSCH00160808 Top side full mark.

Shape and Dimensions

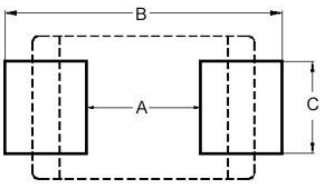
BSCH00060303



BSCH00100505 / 160808



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
BSCH00060303	0.6 ± 0.03	0.3 ± 0.03	0.3 ± 0.03	0.15 ± 0.05
BSCH00100505	1.0 ± 0.10	0.5 ± 0.10	0.5 ± 0.10	0.25 ± 0.10
BSCH00160808	1.6 ± 0.15	0.8 ± 0.15	0.8 ± 0.15	0.3 ± 0.2

Dimensions in mm

TYPE	A	B	C
BSCH00060303	0.3	0.75 ~ 1.05	0.3
BSCH00100505	0.4	1.2 ~ 1.4	0.5
BSCH00160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	SRF (MHz) Min	RDC (Ω) Max	Rated Current (mA) Max
BSCH000603031N0□00	1.0	±0.3nH	100	4	>10000	0.11	470
BSCH000603031N2□00	1.2	±0.3nH	100	4	>10000	0.12	450
BSCH000603031N5□00	1.5	±0.3nH	100	4	>10000	0.13	430
BSCH000603031N8□00	1.8	±0.3nH	100	4	>10000	0.16	390
BSCH000603032N0□00	2.0	±0.3nH	100	4	>10000	0.17	380
BSCH000603032N2□00	2.2	±0.3nH	100	4	8800	0.19	360
BSCH000603032N4□00	2.4	±0.3nH	100	4	8300	0.20	350
BSCH000603032N7□00	2.7	±0.3nH	100	4	7700	0.21	340
BSCH000603033N0□00	3.0	±0.3nH	100	4	7200	0.22	330
BSCH000603033N3□00	3.3	±0.3nH	100	4	6700	0.23	320
BSCH000603033N6□00	3.6	±0.3nH	100	4	6400	0.25	310
BSCH000603033N9□00	3.9	±0.3nH	100	4	6000	0.27	300
BSCH000603034N3□00	4.3	±0.3nH	100	4	5700	0.30	280
BSCH000603034N7□00	4.7	±0.3nH	100	4	5300	0.30	280
BSCH000603035N1□00	5.1	±0.3nH	100	4	5000	0.33	270
BSCH000603035N6□00	5.6	±0.3nH	100	4	4600	0.36	260
BSCH000603036N2□00	6.2	±0.3nH	100	4	4200	0.38	250
BSCH000603036N8□00	6.8	5	100	4	3900	0.39	250
BSCH000603037N5□00	7.5	5	100	4	3600	0.41	240
BSCH000603038N2□00	8.2	5	100	4	3400	0.45	230
BSCH000603039N1□00	9.1	5	100	4	3200	0.48	220
BSCH0006030310N□00	10	5	100	4	2900	0.51	220
BSCH0006030312N□00	12	5	100	4	2700	0.68	190
BSCH0006030315N□00	15	5	100	4	2300	0.71	180
BSCH0006030318N□00	18	5	100	4	2100	0.81	170
BSCH0006030322N□00	22	5	100	4	1800	1.00	150
BSCH0006030327N□00	27	5	100	4	1800	1.35	120
BSCH0006030333N□00	33	5	100	4	1700	1.47	110
BSCH0006030339N□00	39	5	100	4	1500	1.72	100
BSCH0006030347N□00	47	5	100	4	1300	1.90	100
BSCH0006030356N□00	56	5	100	4	1100	2.27	80
BSCH0006030368N□00	68	5	100	4	1100	2.66	80
BSCH0006030382N□00	82	5	100	4	1000	3.37	70
BSCH00060303R10□00	100	5	100	4	900	3.74	60

Note: When ordering, please specify tolerance code. Tolerance : S=±0.3nH , J=±5%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Rate Current :Applied the current to coils, the temperature rise shall not be more than 30℃
- Residual impedance of short chip : 0.19nH
- Measure Equipment：
  L & Q：Agilent E4991A+Agilent 16197A
  SRF：Agilent E4991A or HP19196C
  RDC：HP4338B or CHEN HWA 502

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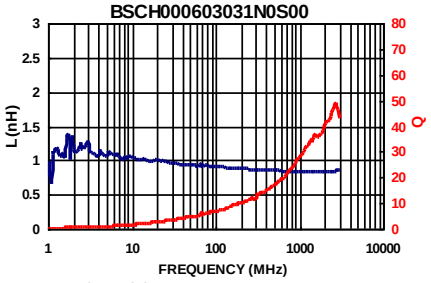
Test Instruments：Agilent E4991A Material/Impedance Analyzer

BSCH000603031N0S00



RDC<0.11Ω SRF>10000MHz Rated current:470 mA

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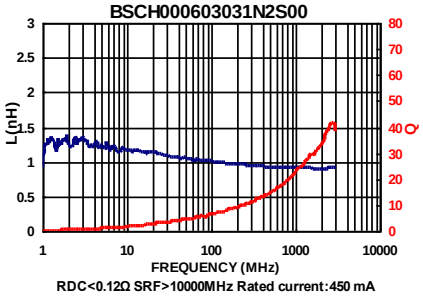
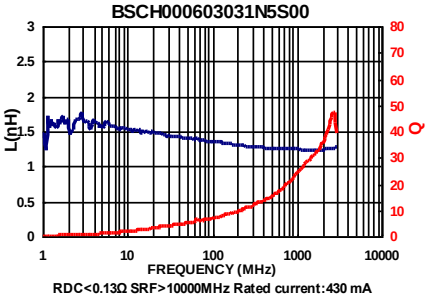


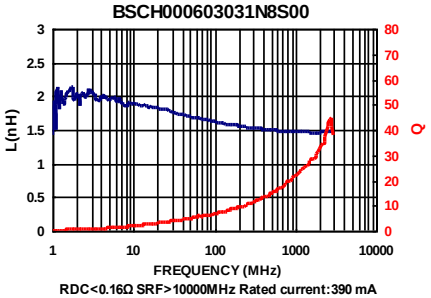
RDC<0.12Ω SRF>10000MHz Rated current:450 mA

BSCH000603031N5S00



RDC<0.13Ω SRF>10000MHz Rated current:430 mA

BSCH000603031N8S00



RDC<0.16Ω SRF>10000MHz Rated current:390 mA

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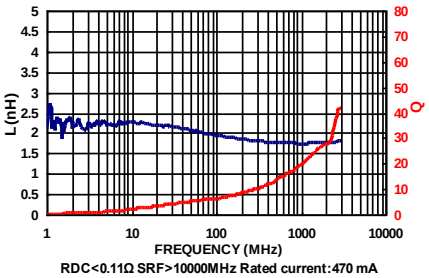
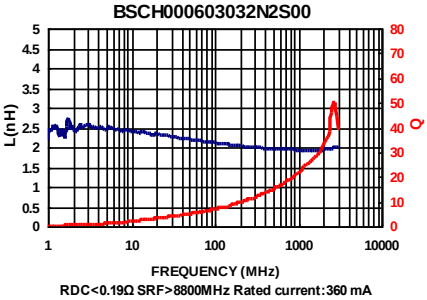


RDC<0.11Ω SRF>10000MHz Rated current:470 mA

BSCH000603032N2S00



RDC<0.19Ω SRF>8800MHz Rated current:360 mA

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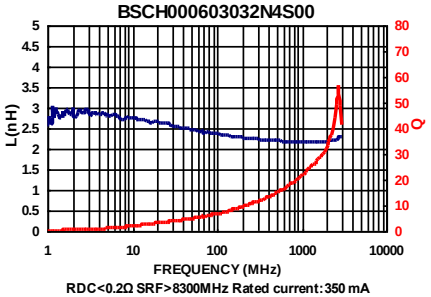
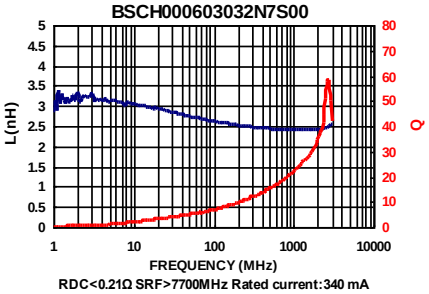


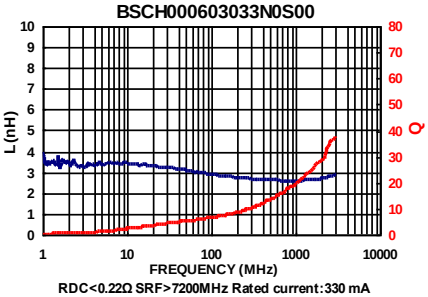
RDC<0.2Ω SRF>8300MHz Rated current:350 mA

BSCH000603032N7S00



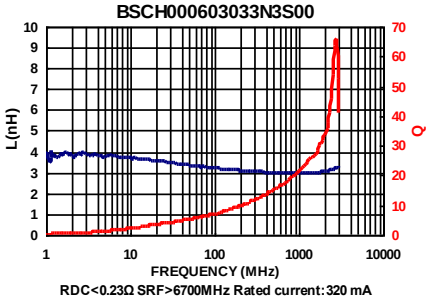
RDC<0.21Ω SRF>7700MHz Rated current:340 mA

BSCH000603033N0S00



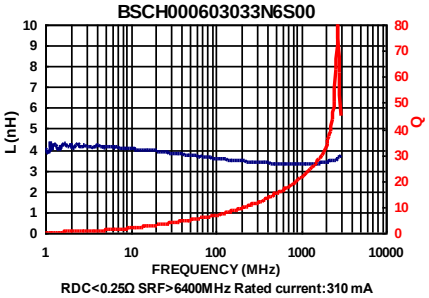
RDC<0.22Ω SRF>7200MHz Rated current:330 mA

BSCH000603033N3S00



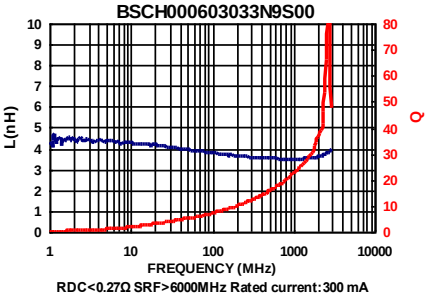
RDC<0.23Ω SRF>6700MHz Rated current:320 mA

BSCH000603033N6S00



RDC<0.25Ω SRF>6400MHz Rated current:310 mA

BSCH000603033N9S00



RDC<0.27Ω SRF>6000MHz Rated current:300 mA

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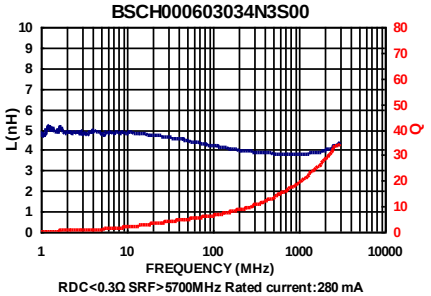
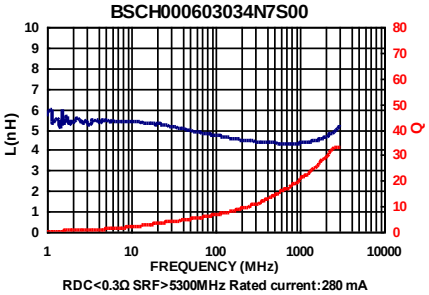


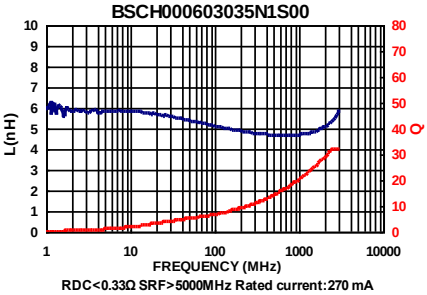
RDC<0.3Ω SRF>5700MHz Rated current:280 mA

BSCH000603034N7S00



RDC<0.3Ω SRF>5300MHz Rated current:280 mA

BSCH000603035N1S00



RDC<0.33Ω SRF>5000MHz Rated current:270 mA

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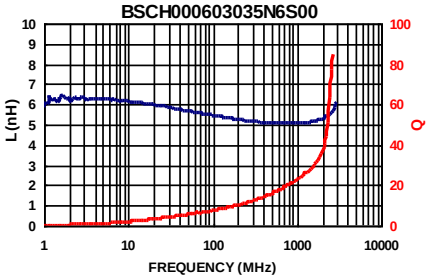
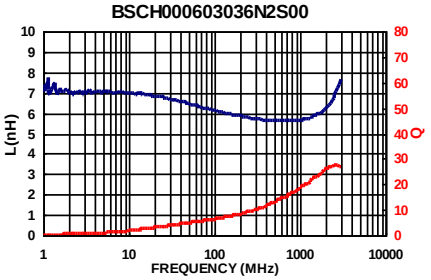
Test Instruments：Agilent E4991A Material/Impedance Analyzer

BSCH000603035N6S00



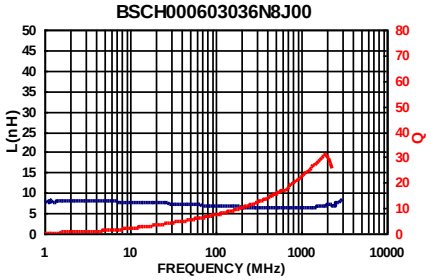
RDC<0.36Ω SRF>4600MHz Rated current:260 mA

BSCH000603036N2S00



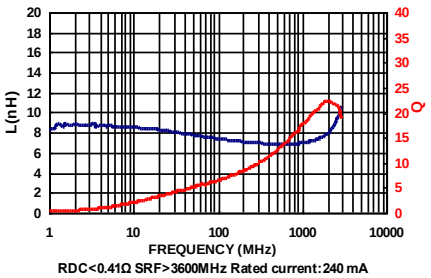
RDC<0.38Ω SRF>4200MHz Rated current:250 mA

BSCH000603036N8J00



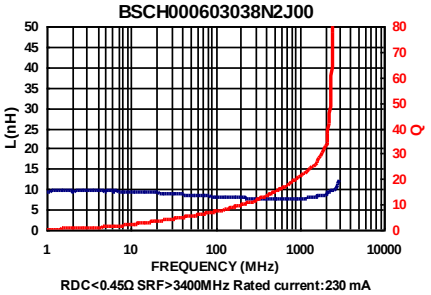
RDC<0.39Ω SRF>3900MHz Rated current:250 mA

BSCH000603037N5J00



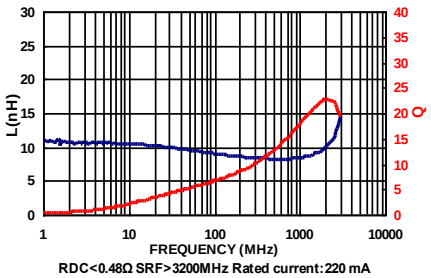
RDC<0.41Ω SRF>3600MHz Rated current:240 mA

BSCH000603038N2J00



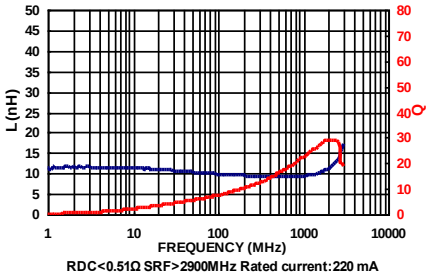
RDC<0.45Ω SRF>3400MHz Rated current:230 mA

BSCH000603039N1J00



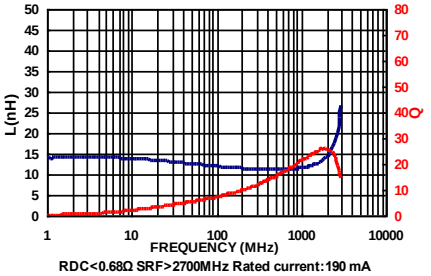
RDC<0.48Ω SRF>3200MHz Rated current:220 mA

BSCH0006030310NJ00



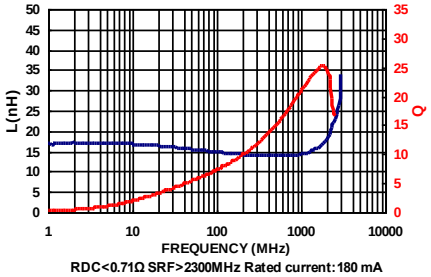
RDC<0.51Ω SRF>2900MHz Rated current:220 mA

BSCH0006030312NJ00



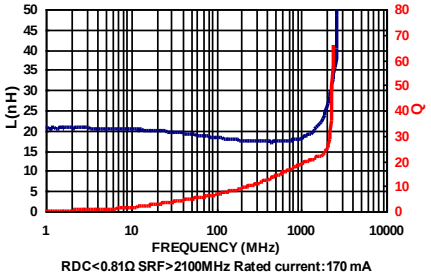
RDC<0.68Ω SRF>2700MHz Rated current:190 mA

BSCH0006030315NJ00



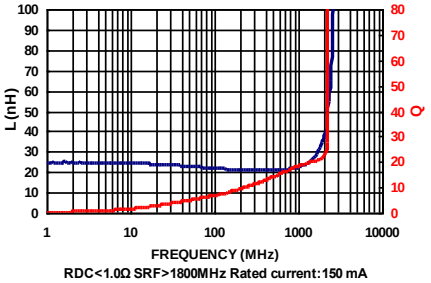
RDC<0.71Ω SRF>2300MHz Rated current:180 mA

BSCH0006030318NJ00



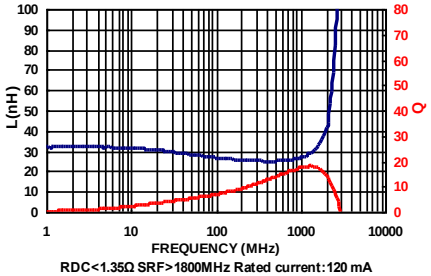
RDC<0.81Ω SRF>2100MHz Rated current:170 mA

BSCH0006030322NJ00



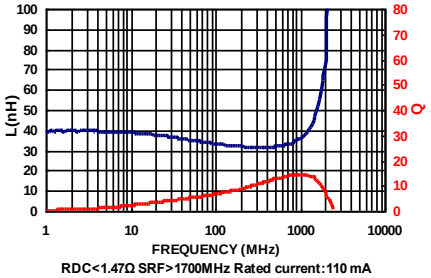
RDC<1.0Ω SRF>1800MHz Rated current:150 mA

BSCH0006030327NJ00



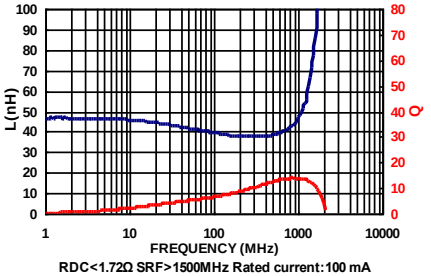
RDC<1.35Ω SRF>1800MHz Rated current:120 mA

BSCH0006030333NJ00



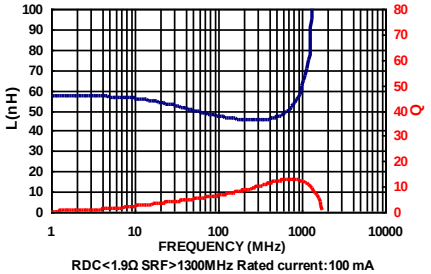
RDC<1.47Ω SRF>1700MHz Rated current:110 mA

BSCH0006030339NJ00



RDC<1.72Ω SRF>1500MHz Rated current:100 mA

BSCH0006030347NJ00



RDC<1.9Ω SRF>1300MHz Rated current:100 mA

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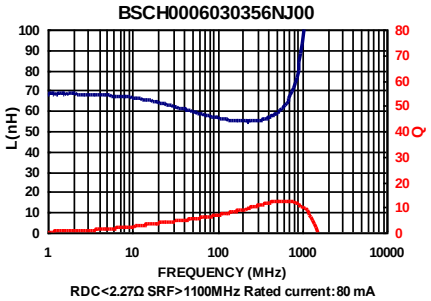
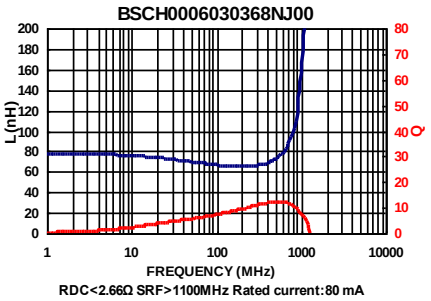
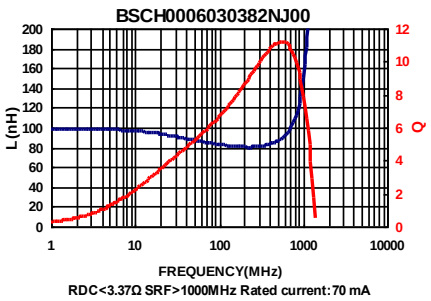
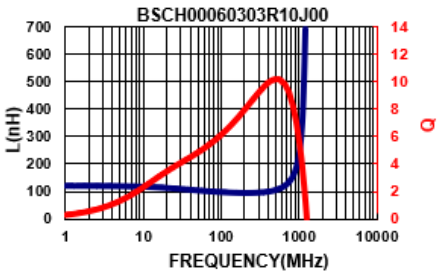
Test Instruments：Agilent E4991A Material/Impedance Analyzer









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Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	SRF (MHz) Typ.	RDC (Ω) Max	IDC (mA) Max
BSCH001005051N0☐CS	1.0	±0.3nH	100	8	10000	0.07	400
BSCH001005051N1☐CS	1.1	±0.3nH	100	8	10000	0.10	400
BSCH001005051N2☐CS	1.2	±0.3nH	100	8	10000	0.09	400
BSCH001005051N3☐CS	1.3	±0.3nH	100	8	9000	0.10	400
BSCH001005051N5☐CS	1.5	±0.3nH	100	8	9000	0.10	400
BSCH001005051N6☐CS	1.6	±0.3nH	100	8	8700	0.10	400
BSCH001005051N8☐CS	1.8	±0.3nH	100	8	8700	0.10	400
BSCH001005052N0☐CS	2.0	±0.3nH	100	8	8100	0.10	400
BSCH001005052N2☐CS	2.2	±0.3nH	100	8	8100	0.12	400
BSCH001005052N4☐CS	2.4	±0.3nH	100	8	7700	0.15	400
BSCH001005052N7☐CS	2.7	±0.3nH	100	8	7700	0.15	400
BSCH001005053N0☐CS	3.0	±0.3nH	100	8	6300	0.15	400
BSCH001005053N3☐CS	3.3	±0.3nH/10	100	8	6300	0.15	400
BSCH001005053N6☐CS	3.6	±0.3nH/10	100	8	6100	0.15	400
BSCH001005053N9☐CS	3.9	±0.3nH/10	100	8	6100	0.18	400
BSCH001005054N3☐CS	4.3	±0.3nH/10	100	8	6000	0.18	400
BSCH001005054N7☐CS	4.7	±0.3nH/10	100	8	6000	0.18	400
BSCH001005055N0☐CS	5.0	±0.3nH/10	100	8	5100	0.20	400
BSCH001005055N1☐CS	5.1	±0.3nH/10	100	8	5300	0.20	400
BSCH001005055N6☐CS	5.6	±0.3nH/10	100	8	5100	0.20	400
BSCH001005056N8☐CS	6.8	5 / 10	100	8	4550	0.24	400
BSCH001005057N5☐CS	7.5	5 / 10	100	8	4200	0.24	300
BSCH001005058N0☐CS	8.0	5 / 10	100	8	4100	0.30	300
BSCH001005058N2☐CS	8.2	5 / 10	100	8	4100	0.24	300
BSCH001005059N1☐CS	9.1	5 / 10	100	8	3900	0.26	300
BSCH0010050510N☐CS	10	5 / 10	100	8	3900	0.26	300
BSCH0010050512N☐CS	12	5 / 10	100	8	3000	0.40	300
BSCH0010050515N☐CS	15	5 / 10	100	8	2800	0.50	300
BSCH0010050518N☐CS	18	5 / 10	100	8	2500	0.55	300
BSCH0010050522N☐CS	22	5 / 10	100	8	2200	0.70	300
BSCH0010050524N☐CS	24	5 / 10	100	8	2100	0.70	300
BSCH0010050527N☐CS	27	5 / 10	100	8	2000	0.80	300
BSCH0010050533N☐CS	33	5 / 10	100	8	1800	0.9	200
BSCH0010050539N☐CS	39	5 / 10	100	8	1600	1.0	150
BSCH0010050547N☐CS	47	5 / 10	100	8	1400	1.2	150

Note: When ordering, please specify tolerance code. Tolerance : S=±0.3nH , J=±5% , K=±10%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- IDC：Applied the current to coils, the inductance shall be less than 10% initial value
- Residual impedance of short chip : 0nH
- Measure Equipment：
  L & Q：Agilent E4991A+Agilent 16197A
  SRF：HP8753D
  RDC：HP4338B or CHEN HWA 502

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Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	SRF (MHz) Typ.	RDC (Ω) Max	IDC (mA) Max
BSCH0010050556N□CS	56	5 / 10	100	8	1300	1.3	150
BSCH0010050568N□CS	68	5 / 10	100	8	1100	1.5	100
BSCH0010050575N□CS	75	5 / 10	100	8	1080	1.5	100
BSCH0010050582N□CS	82	5 / 10	100	8	1000	1.6	100
BSCH00100505R10□CS	100	5 / 10	100	8	900	2.0	100
BSCH00100505R12□CS	120	5 / 10	100	8	800	2.2	100
BSCH00100505R15□CS	150	5 / 10	100	8	700	3.5	100
BSCH00100505R18□CS	180	5 / 10	100	8	600	3.8	100
BSCH00100505R22□CS	220	5 / 10	100	8	500	4.2	100
BSCH00100505R27□CS	270	5 / 10	100	8	500	4.8	100

Note: When ordering, please specify tolerance code. Tolerance : S=±0.3nH , J=±5% , K=±10%

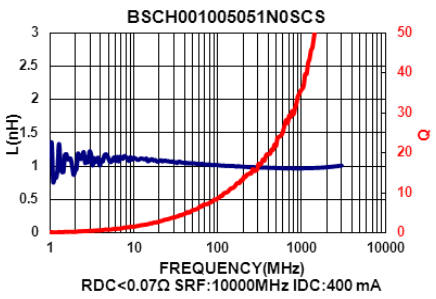
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- IDC：Applied the current to coils, the inductance shall be less than 10% initial value
- Residual impedance of short chip：0nH
- Measure Equipment：

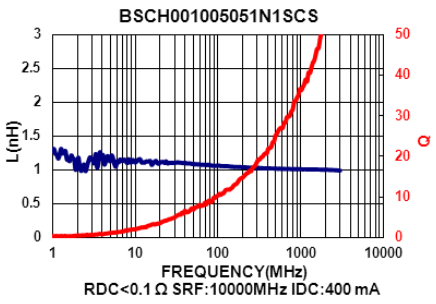
  L & Q：Agilent E4991A+Agilent 16197A

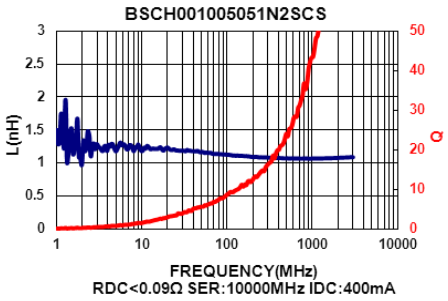
  SRF：HP8753D

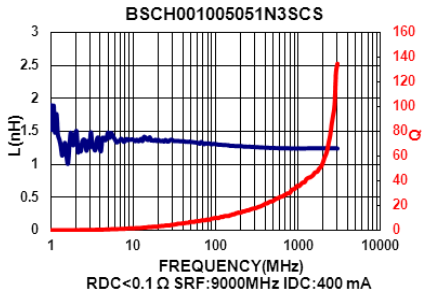
  RDC：HP4338B or CHEN HWA 502

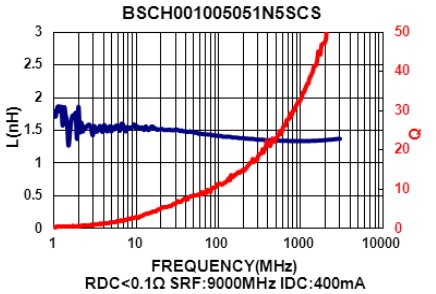
Test Instruments：Agilent E4991A Material/Impedance Analyzer

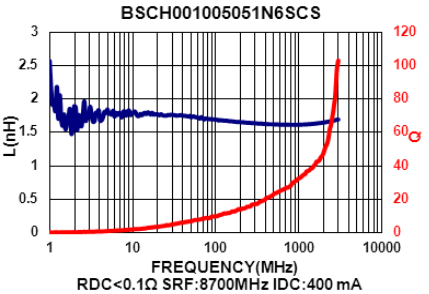












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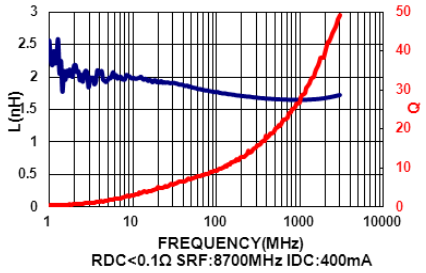
Test Instruments：Agilent E4991A Material/Impedance Analyzer

BSCH001005051N8SCS



RDC<0.1Ω SRF:8700MHz IDC:400mA

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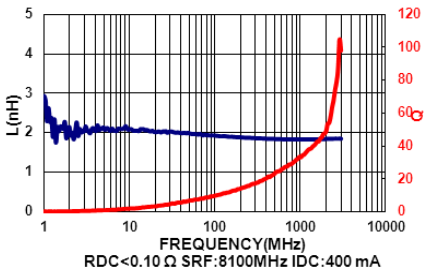
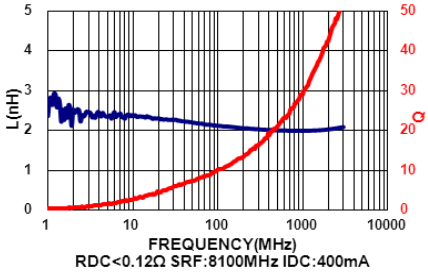


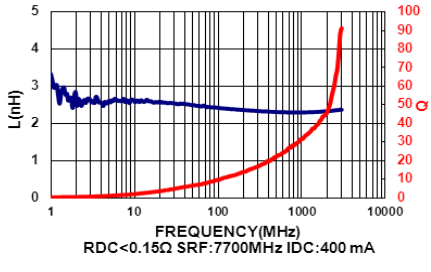
RDC<0.10 Ω SRF:8100MHz IDC:400 mA

BSCH001005052N2SCS



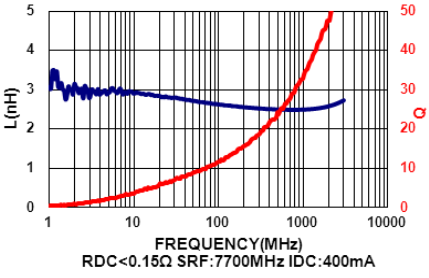
RDC<0.12Ω SRF:8100MHz IDC:400mA

BSCH001005052N4SCS



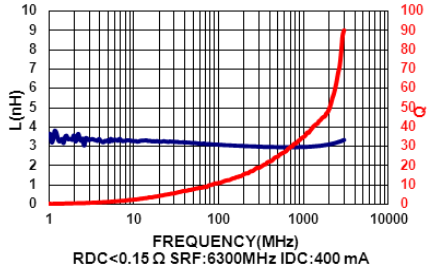
RDC<0.15Ω SRF:7700MHz IDC:400 mA

BSCH001005052N7SCS



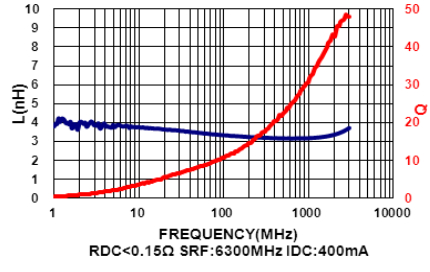
RDC<0.15Ω SRF:7700MHz IDC:400mA

BSCH001005053N0SCS



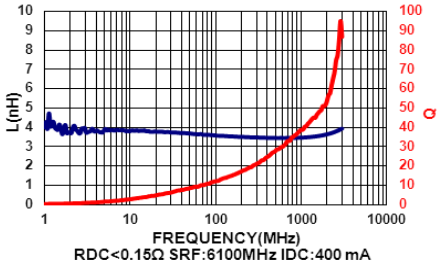
RDC<0.15 Ω SRF:6300MHz IDC:400 mA

BSCH001005053N3SCS



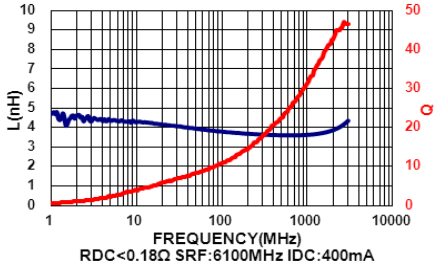
RDC<0.15Ω SRF:6300MHz IDC:400mA

BSCH001005053N6SCS



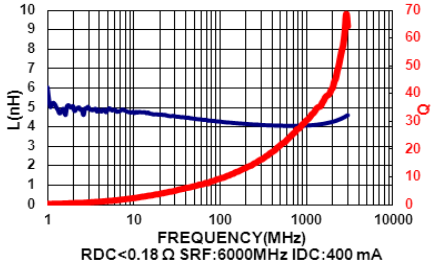
RDC<0.15Ω SRF:6100MHz IDC:400 mA

BSCH001005053N9SCS



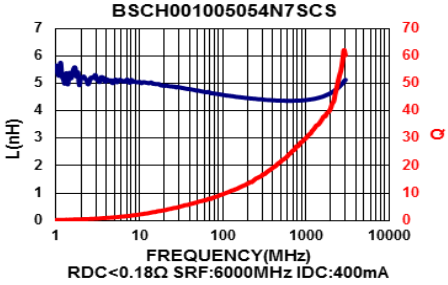
RDC<0.18Ω SRF:6100MHz IDC:400mA

BSCH001005054N3SCS



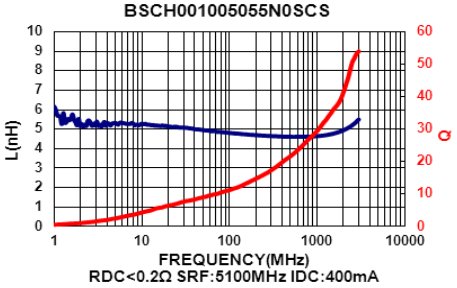
RDC<0.18 Ω SRF:6000MHz IDC:400 mA

BSCH001005054N7SCS



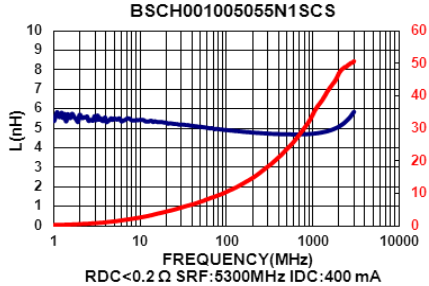
RDC<0.18Ω SRF:6000MHz IDC:400mA

BSCH001005055N0SCS



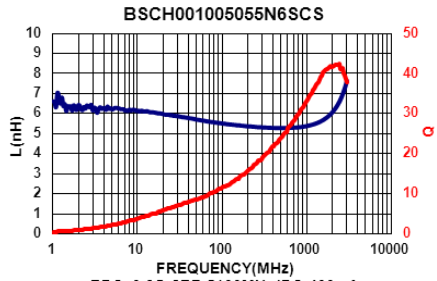
RDC<0.2Ω SRF:5100MHz IDC:400mA

BSCH001005055N1SCS



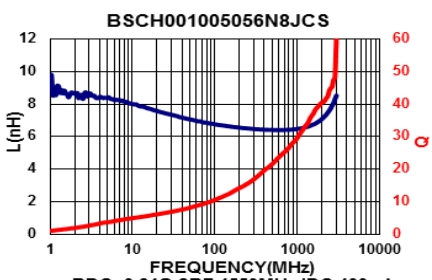
RDC<0.2 Ω SRF:5300MHz IDC:400 mA

BSCH001005055N6SCS



RDC<0.2Ω SRF:5100MHz IDC:400mA

BSCH001005056N8JCS



RDC<0.24Ω SRF:4550MHz IDC:400mA

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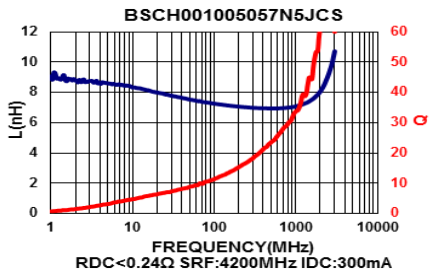
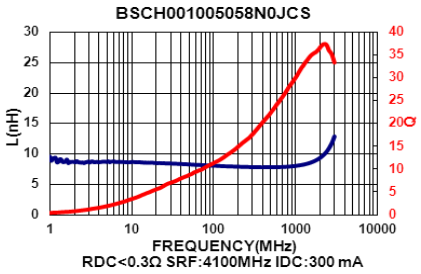
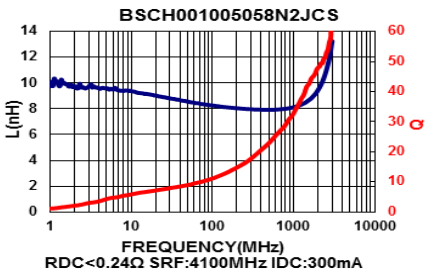
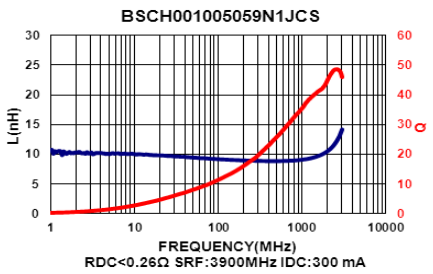
CHILISIN ELECTRONICS CORP.

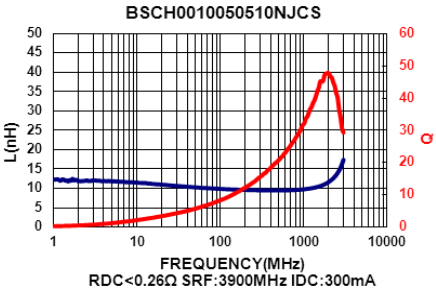
Test Instruments：Agilent E4991A Material/Impedance Analyzer

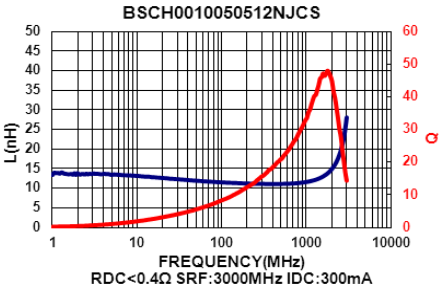


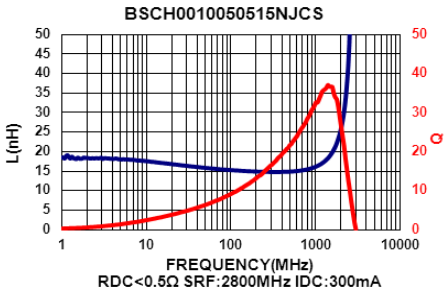


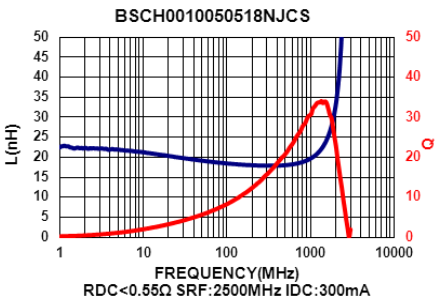


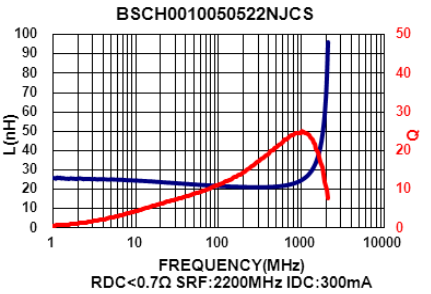


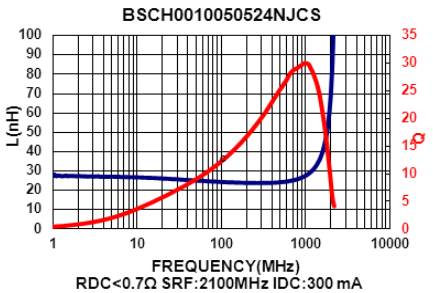


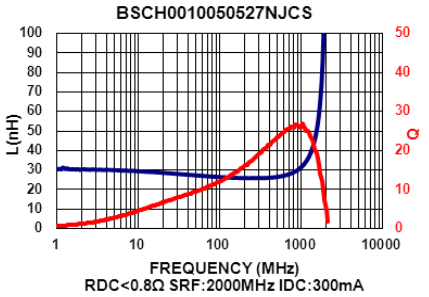


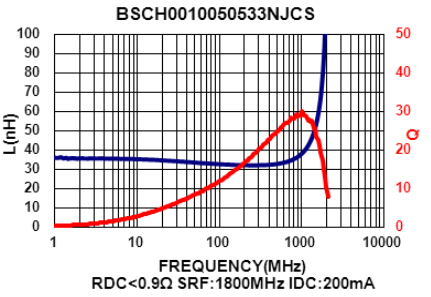


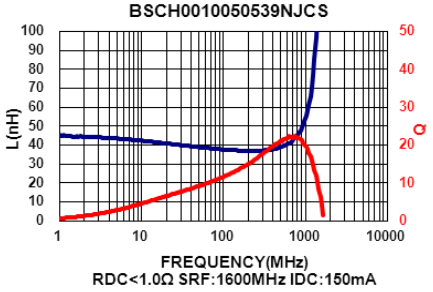


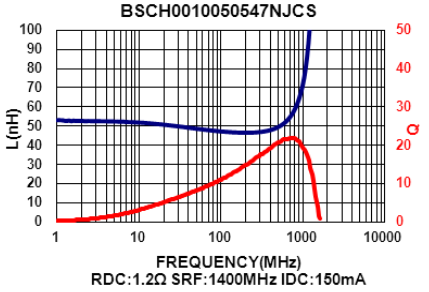


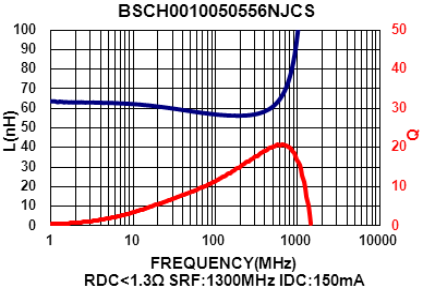












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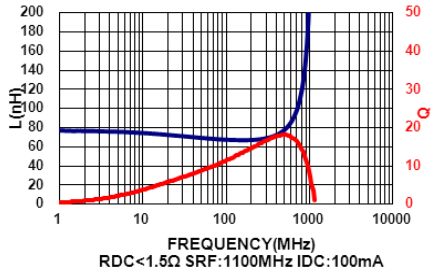
CHILISIN ELECTRONICS CORP.

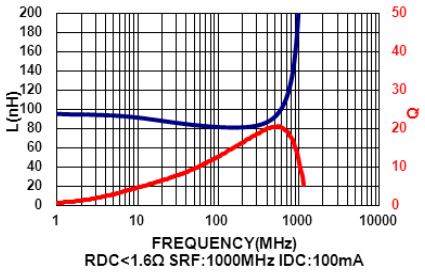
Test Instruments：Agilent E4991A Material/Impedance Analyzer

BSCH0010050568NJCS



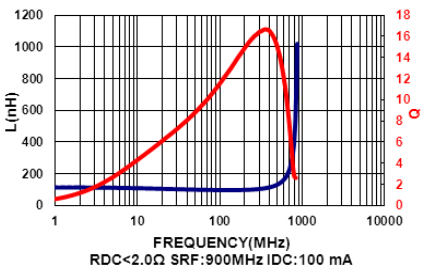
RDC<1.5Ω SRF:1100MHz IDC:100mA

BSCH0010050582NJCS



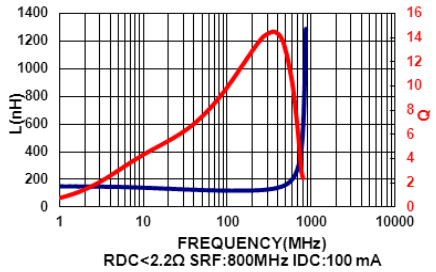
RDC<1.6Ω SRF:1000MHz IDC:100mA

BSCH00100505R10JCS



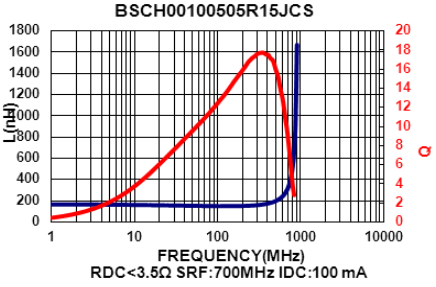
RDC<2.0Ω SRF:900MHz IDC:100 mA

BSCH00100505R12JCS



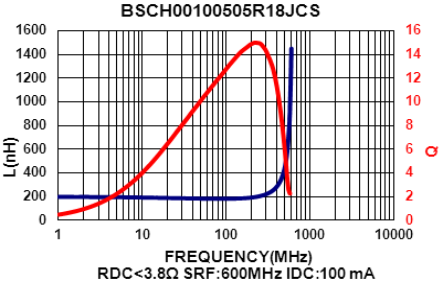
RDC<2.2Ω SRF:800MHz IDC:100 mA

BSCH00100505R15JCS



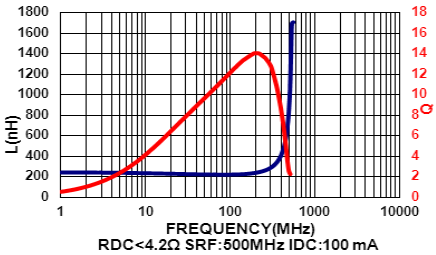
RDC<3.5Ω SRF:700MHz IDC:100 mA

BSCH00100505R18JCS



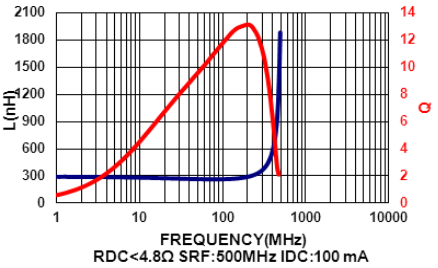
RDC<3.8Ω SRF:600MHz IDC:100 mA

BSCH00100505R22JCS



RDC<4.2Ω SRF:500MHz IDC:100 mA

BSCH00100505R27JCS



RDC<4.8Ω SRF:500MHz IDC:100 mA

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Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	SRF (MHz) Typ.	RDC (Ω) Max	Rated Current (mA) Max
BSCH001005051N0☐CP	1.0	±0.3nH	100	8	10000	0.07	400
BSCH001005051N1☐CP	1.1	±0.3nH	100	8	10000	0.10	400
BSCH001005051N2☐CP	1.2	±0.3nH	100	8	10000	0.09	400
BSCH001005051N3☐CP	1.3	±0.3nH	100	8	9000	0.10	400
BSCH001005051N5☐CP	1.5	±0.3nH	100	8	9000	0.10	400
BSCH001005051N6☐CP	1.6	±0.3nH	100	8	8700	0.10	400
BSCH001005051N8☐CP	1.8	±0.3nH	100	8	8700	0.10	400
BSCH001005052N0☐CP	2.0	±0.3nH	100	8	8100	0.10	400
BSCH001005052N2☐CP	2.2	±0.3nH	100	8	8100	0.12	400
BSCH001005052N4☐CP	2.4	±0.3nH	100	8	7700	0.15	400
BSCH001005052N7☐CP	2.7	±0.3nH	100	8	7700	0.15	400
BSCH001005053N0☐CP	3.0	±0.3nH	100	8	6300	0.15	400
BSCH001005053N3☐CP	3.3	±0.3nH	100	8	6300	0.15	400
BSCH001005053N6☐CP	3.6	±0.3nH	100	8	6100	0.15	400
BSCH001005053N9☐CP	3.9	±0.3nH	100	8	6100	0.18	400
BSCH001005054N3☐CP	4.3	±0.3nH	100	8	6000	0.18	400
BSCH001005054N7☐CP	4.7	±0.3nH	100	8	6000	0.18	400
BSCH001005055N1☐CP	5.1	±0.3nH	100	8	5300	0.20	400
BSCH001005055N6☐CP	5.6	±0.3nH	100	8	5100	0.20	400
BSCH001005056N2☐CP	6.2	±0.3nH/5/10	100	8	4500	0.22	400
BSCH001005056N8☐CP	6.8	5 / 10	100	8	4550	0.24	400
BSCH001005057N5☐CP	7.5	5 / 10	100	8	4200	0.24	300
BSCH001005058N2☐CP	8.2	5 / 10	100	8	4100	0.24	300
BSCH001005059N1☐CP	9.1	5 / 10	100	8	3900	0.26	300
BSCH0010050510N☐CP	10	5 / 10	100	8	3900	0.26	300
BSCH0010050512N☐CP	12	5 / 10	100	8	3000	0.28	300
BSCH0010050515N☐CP	15	5 / 10	100	8	2500	0.32	300
BSCH0010050518N☐CP	18	5 / 10	100	8	2200	0.36	300
BSCH0010050522N☐CP	22	5 / 10	100	8	1900	0.42	300
BSCH0010050527N☐CP	27	5 / 10	100	8	1700	0.46	300
BSCH0010050533N☐CP	33	5 / 10	100	8	1600	0.58	200
BSCH0010050539N☐CP	39	5 / 10	100	8	1200	0.65	200
BSCH0010050547N☐CP	47	5 / 10	100	8	1000	0.72	200
BSCH0010050556N☐CP	56	5 / 10	100	8	800	0.82	200
BSCH0010050568N☐CP	68	5 / 10	100	8	800	0.92	180
BSCH0010050582N☐CP	82	5 / 10	100	8	700	1.20	150

Note: When ordering, please specify tolerance code. Tolerance : C=±0.2nH , S=±0.3nH , J=±5% , K=±10%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Residual impedance of short chip：0nH
- Measure Equipment：

  L & Q：Agilent E4991A+Agilent 16197A

  SRF：HP8753D

  RDC：HP4338B or CHEN HWA 502

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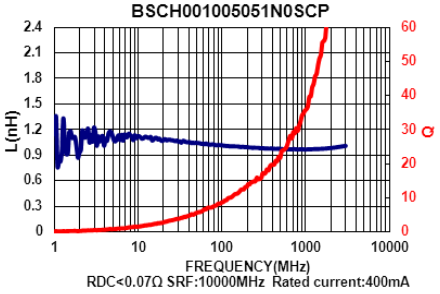
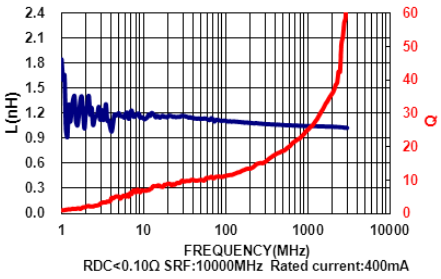
Test Instruments：Agilent E4991A Material/Impedance Analyzer

BSCH001005051N0SCP



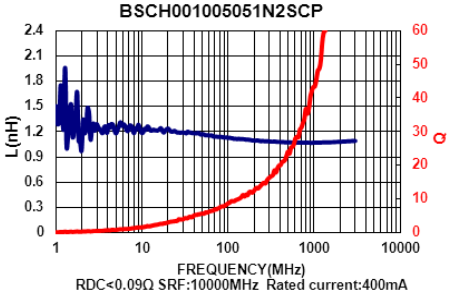
RDC<0.07Ω SRF:10000MHz Rated current:400mA

BSCH001005051N1SCP



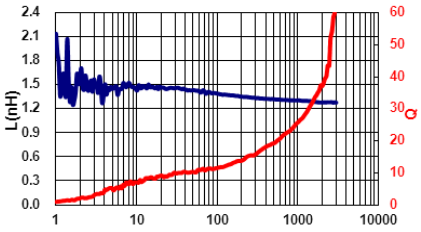
RDC<0.10Ω SRF:10000MHz Rated current:400mA

BSCH001005051N2SCP



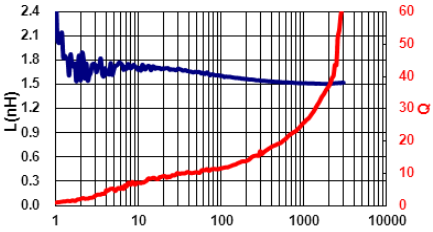
RDC<0.09Ω SRF:10000MHz Rated current:400mA

BSCH001005051N3SCP



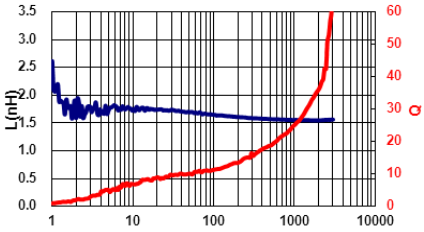
RDC<0.10Ω SRF:9000MHz Rated current:400mA

BSCH001005051N5SCP



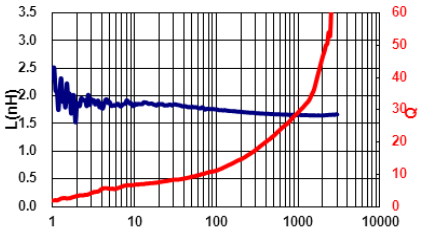
RDC<0.10Ω SRF:9000MHz Rated current:400mA

BSCH001005051N6SCP



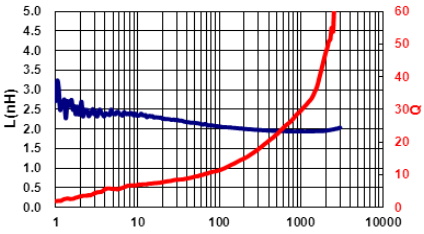
RDC<0.10Ω SRF:8700MHz Rated current:400mA

BSCH001005051N8SCP



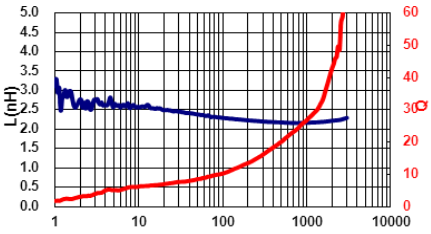
RDC<0.10Ω SRF:8700MHz Rated current:400mA

BSCH001005052N0SCP



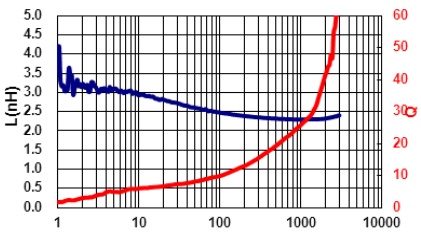
RDC<0.10Ω SRF:8100MHz Rated current:400mA

BSCH001005052N2SCP



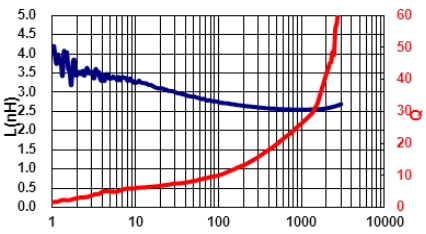
RDC<0.12Ω SRF:8100MHz Rated current:400mA

BSCH001005052N4SCP



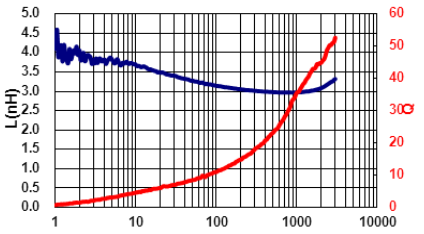
RDC<0.15Ω SRF:7700MHz Rated current:400mA

BSCH001005052N7SCP



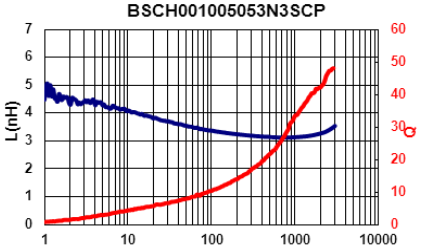
RDC<0.15Ω SRF:7700MHz Rated current:400mA

BSCH001005053N0SCP



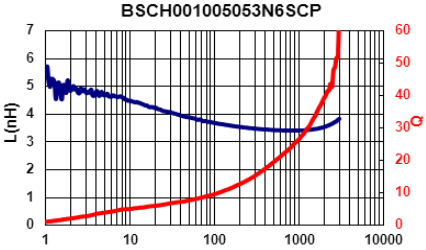
RDC<0.15Ω SRF:6300MHz Rated current:400mA

BSCH001005053N3SCP



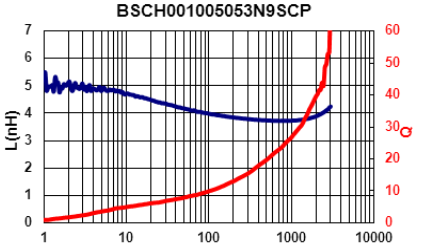
RDC<0.15Ω SRF:6300MHz Rated current:400mA

BSCH001005053N6SCP



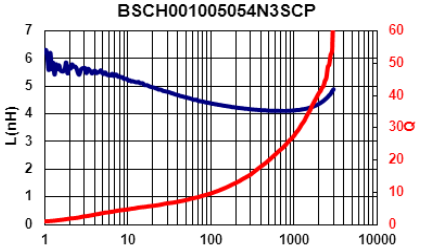
RDC<0.15Ω SRF:6100MHz Rated current:400mA

BSCH001005053N9SCP



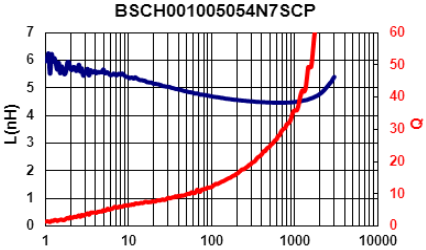
RDC<0.18Ω SRF:6100MHz Rated current:400mA

BSCH001005054N3SCP



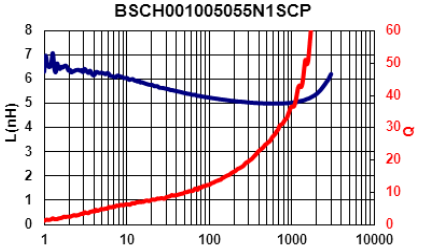
RDC<0.18Ω SRF:6000MHz Rated current:400mA

BSCH001005054N7SCP



RDC<0.18Ω SRF:6000MHz Rated current:400mA

BSCH001005055N1SCP



RDC<0.20Ω SRF:5300MHz Rated current:400mA

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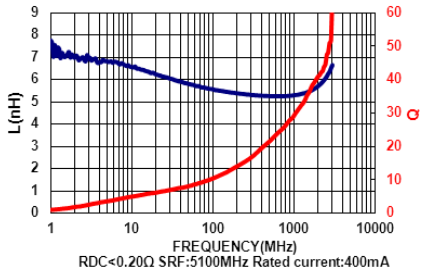
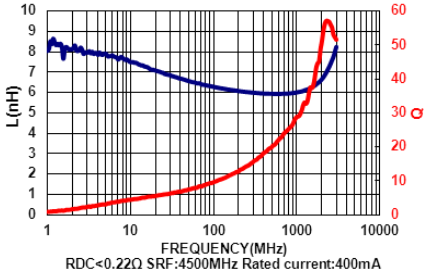
Test Instruments：Agilent E4991A Material/Impedance Analyzer

BSCH001005055N6SCP



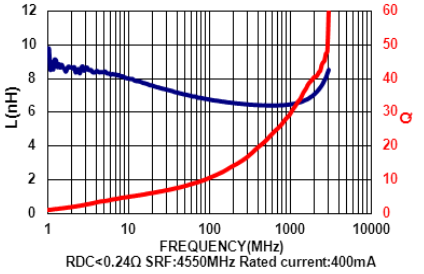
RDC<0.20Ω SRF:5100MHz Rated current:400mA

BSCH001005056N2SCP



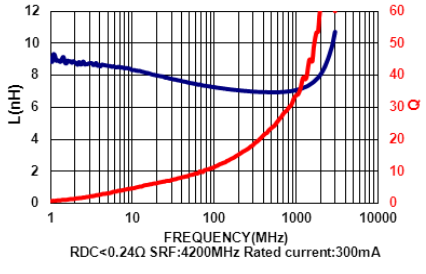
RDC<0.22Ω SRF:4500MHz Rated current:400mA

BSCH001005056N8JCP



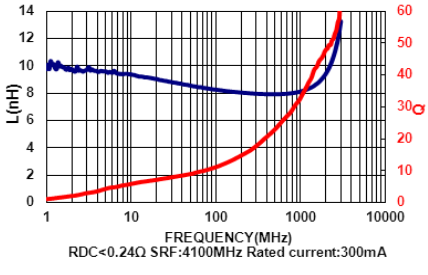
RDC<0.24Ω SRF:4550MHz Rated current:400mA

BSCH001005057N5JCP



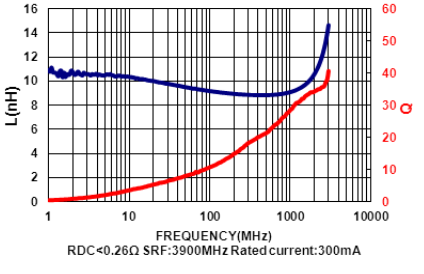
RDC<0.24Ω SRF:4200MHz Rated current:300mA

BSCH001005058N2JCP



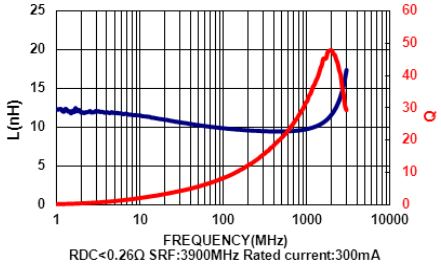
RDC<0.24Ω SRF:4100MHz Rated current:300mA

BSCH001005059N1JCP



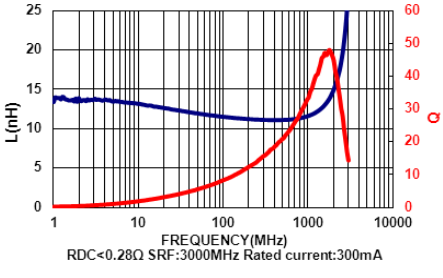
RDC<0.26Ω SRF:3900MHz Rated current:300mA

BSCH0010050510NJCP



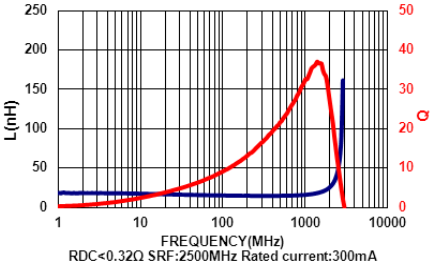
RDC<0.26Ω SRF:3900MHz Rated current:300mA

BSCH0010050512NJCP



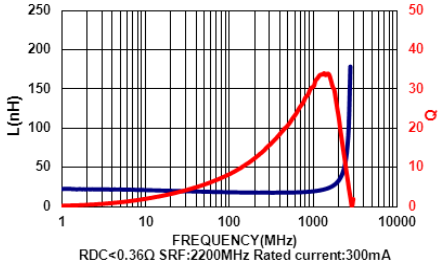
RDC<0.28Ω SRF:3000MHz Rated current:300mA

BSCH0010050515NJCP



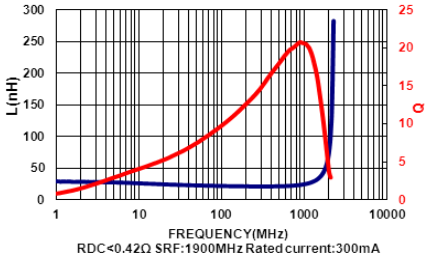
RDC<0.32Ω SRF:2500MHz Rated current:300mA

BSCH0010050518NJCP



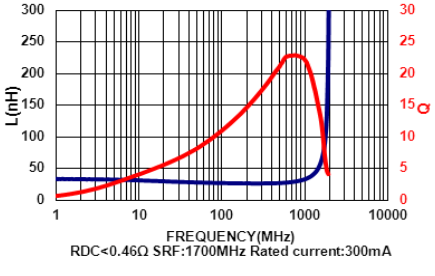
RDC<0.36Ω SRF:2200MHz Rated current:300mA

BSCH0010050522NJCP



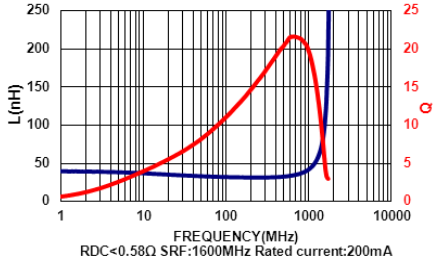
RDC<0.42Ω SRF:1900MHz Rated current:300mA

BSCH0010050527NJCP



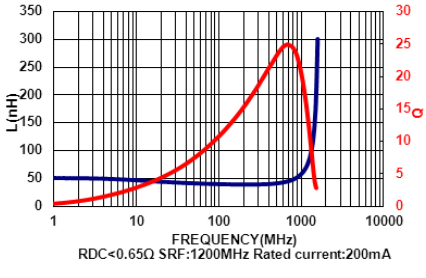
RDC<0.46Ω SRF:1700MHz Rated current:300mA

BSCH0010050533NJCP



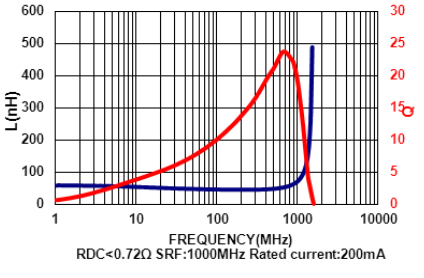
RDC<0.58Ω SRF:1600MHz Rated current:200mA

BSCH0010050539NJCP



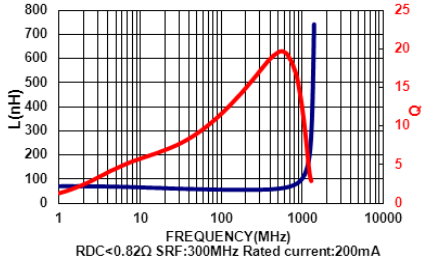
RDC<0.65Ω SRF:1200MHz Rated current:200mA

BSCH0010050547NJCP



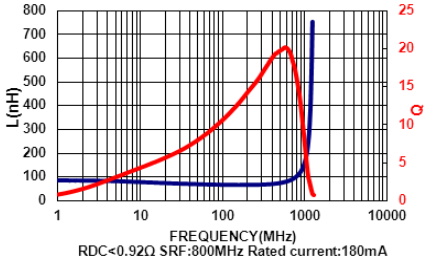
RDC<0.72Ω SRF:1000MHz Rated current:200mA

BSCH0010050556NJCP



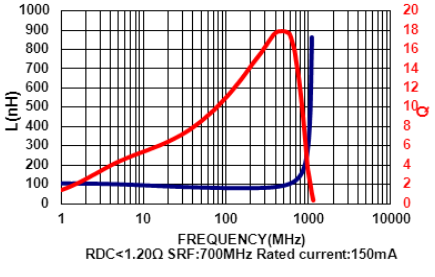
RDC<0.82Ω SRF:300MHz Rated current:200mA

BSCH0010050568NJCP



RDC<0.92Ω SRF:800MHz Rated current:180mA

BSCH0010050582NJCP



RDC<1.20Ω SRF:700MHz Rated current:150mA

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Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	SRF (MHz) Min	RDC (Ω) Max	IDC (mA) Max
BSCH001005051N0□SM	1.0	±0.3nH	100	8	10000	0.07	400
BSCH001005051N2□SM	1.2	±0.3nH	100	8	6000	0.10	400
BSCH001005051N5□SM	1.5	±0.3nH	100	8	6000	0.10	400
BSCH001005051N6□SM	1.6	±0.3nH	100	8	6000	0.10	400
BSCH001005051N8□SM	1.8	±0.3nH	100	8	6000	0.10	400
BSCH001005052N0□SM	2.0	±0.3nH	100	8	6000	0.12	400
BSCH001005052N2□SM	2.2	±0.3nH	100	8	6000	0.15	400
BSCH001005052N4□SM	2.4	±0.3nH	100	8	6000	0.15	400
BSCH001005052N7□SM	2.7	±0.3nH	100	8	6000	0.15	400
BSCH001005053N0□SM	3.0	±0.3nH	100	8	6000	0.15	400
BSCH001005053N3□SM	3.3	±0.3nH	100	8	6000	0.15	400
BSCH001005053N6□SM	3.6	±0.3nH	100	8	6000	0.15	400
BSCH001005053N9□SM	3.9	±0.3nH	100	8	6000	0.19	400
BSCH001005054N3□SM	4.3	±0.3nH	100	8	6000	0.20	400
BSCH001005054N7□SM	4.7	±0.3nH	100	8	6000	0.20	400
BSCH001005055N1□SM	5.1	±0.3nH	100	8	6000	0.20	400
BSCH001005055N6□SM	5.6	±0.3nH	100	8	5300	0.20	400
BSCH001005056N2□SM	6.2	5	100	8	4300	0.25	400
BSCH001005056N8□SM	6.8	5	100	8	4200	0.25	400
BSCH001005057N5□SM	7.5	5	100	8	3900	0.25	400
BSCH001005058N2□SM	8.2	5	100	8	3600	0.30	300
BSCH001005059N1□SM	9.1	5	100	8	3400	0.34	300
BSCH0010050510N□SM	10	5	100	8	3200	0.35	300
BSCH0010050512N□SM	12	5	100	8	2800	0.35	300
BSCH0010050515N□SM	15	5	100	8	2300	0.46	300

Note: When ordering, please specify tolerance code. Tolerance : S=±0.3nH , J=±5%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- IDC：Applied the current to coils, the inductance shall be less than 10% initial value
- Residual impedance of short chip : 0.55nH
- Measure Equipment：

  L & Q：Agilent E4991A+Agilent 16197A

  SRF：HP8753D

  RDC：HP4338B or CHEN HWA 502

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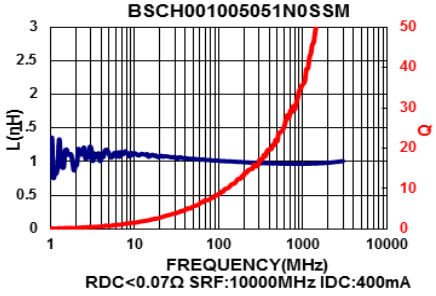
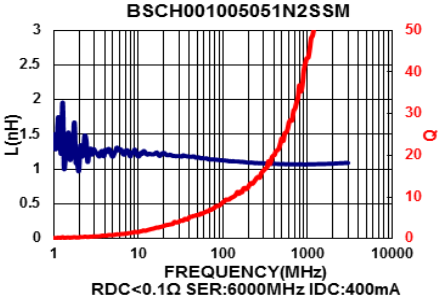
Test Instruments：Agilent E4991A Material/Impedance Analyzer

BSCH001005051N0SSM



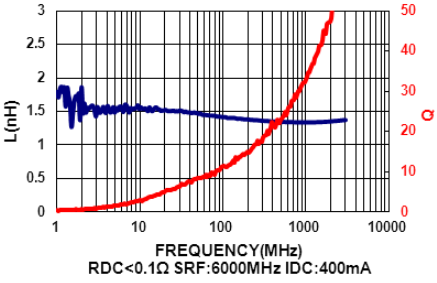
RDC<0.07Ω SRF:10000MHz IDC:400mA

BSCH001005051N2SSM



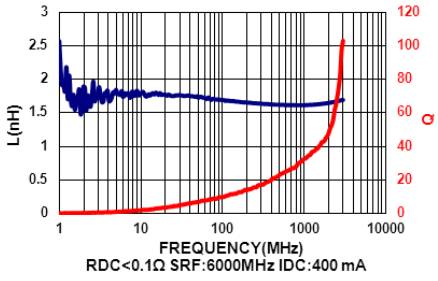
RDC<0.1Ω SER:6000MHz IDC:400mA

BSCH001005051N5SSM



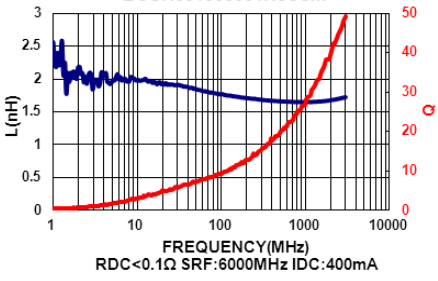
RDC<0.1Ω SRF:6000MHz IDC:400mA

BSCH001005051N6SSM



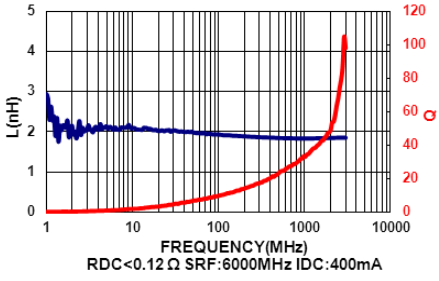
RDC<0.1Ω SRF:6000MHz IDC:400 mA

BSCH001005051N8SSM



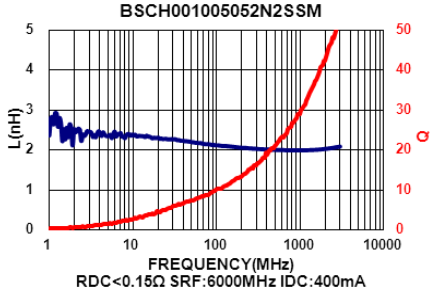
RDC<0.1Ω SRF:6000MHz IDC:400mA

BSCH001005052N0SSM



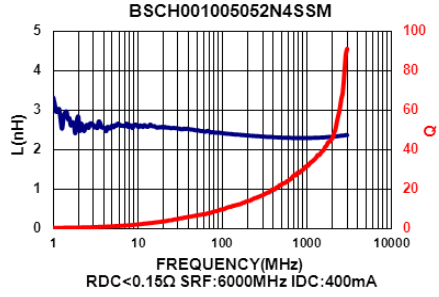
RDC<0.12Ω SRF:6000MHz IDC:400mA

BSCH001005052N2SSM



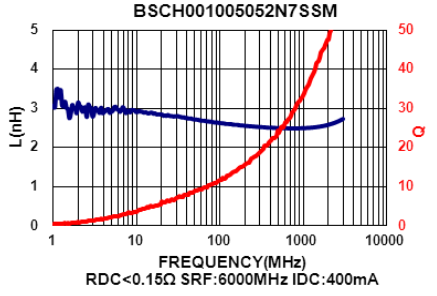
RDC<0.15Ω SRF:6000MHz IDC:400mA

BSCH001005052N4SSM



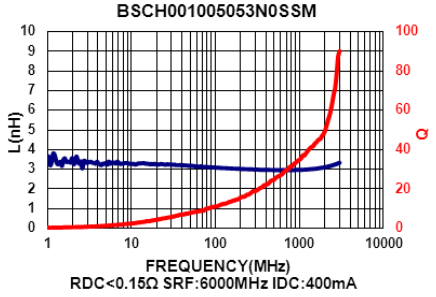
RDC<0.15Ω SRF:6000MHz IDC:400mA

BSCH001005052N7SSM



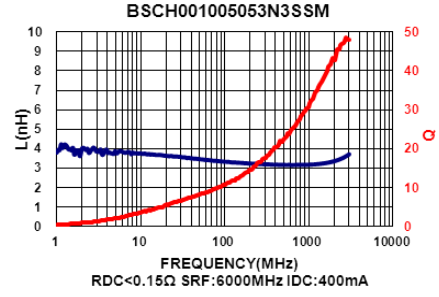
RDC<0.15Ω SRF:6000MHz IDC:400mA

BSCH001005053N0SSM



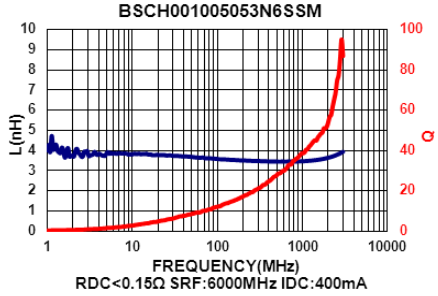
RDC<0.15Ω SRF:6000MHz IDC:400mA

BSCH001005053N3SSM



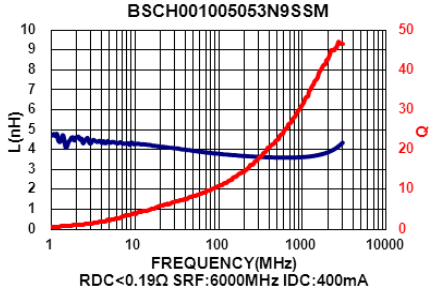
RDC<0.15Ω SRF:6000MHz IDC:400mA

BSCH001005053N6SSM



RDC<0.15Ω SRF:6000MHz IDC:400mA

BSCH001005053N9SSM



RDC<0.19Ω SRF:6000MHz IDC:400mA

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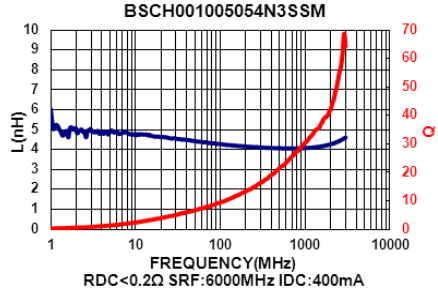
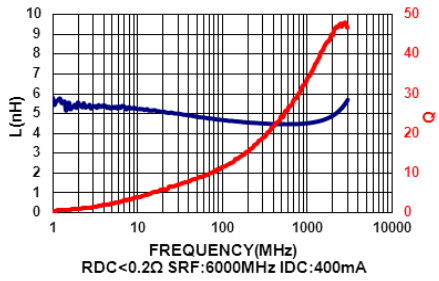


RDC<0.2Ω SRF:6000MHz IDC:400mA

BSCH001005054N7SSM



RDC<0.2Ω SRF:6000MHz IDC:400mA

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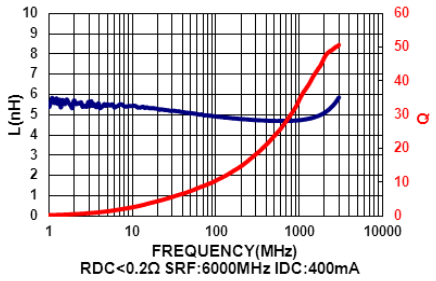
Test Instruments：Agilent E4991A Material/Impedance Analyzer

BSCH001005055N1SSM



RDC<0.2Ω SRF:6000MHz IDC:400mA

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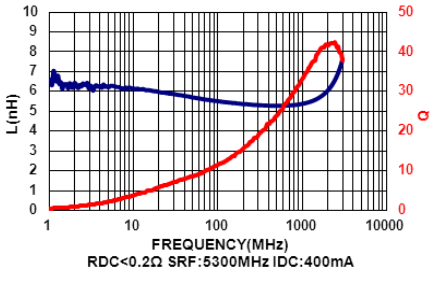

RDC<0.2Ω SRF:5300MHz IDC:400mA

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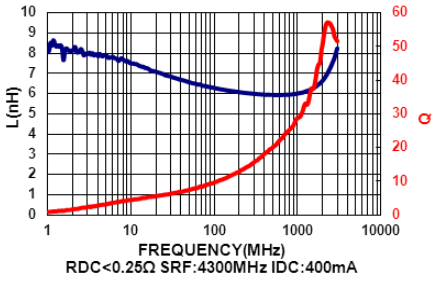

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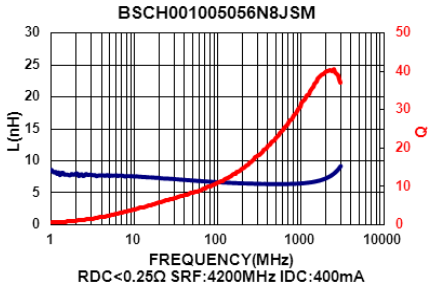

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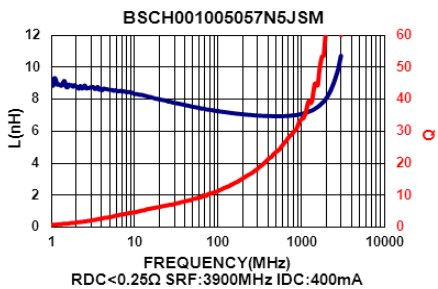

RDC<0.25Ω SRF:3900MHz IDC:400mA

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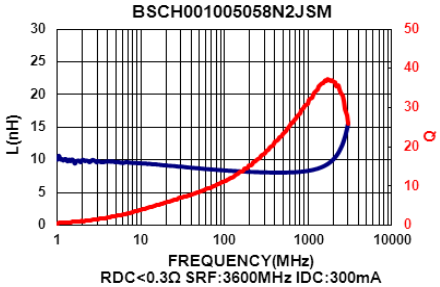

RDC<0.3Ω SRF:3600MHz IDC:300mA

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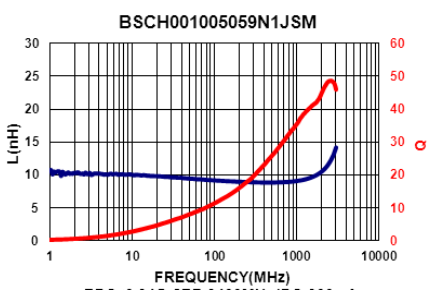

RDC<0.34Ω SRF:3400MHz IDC:300mA

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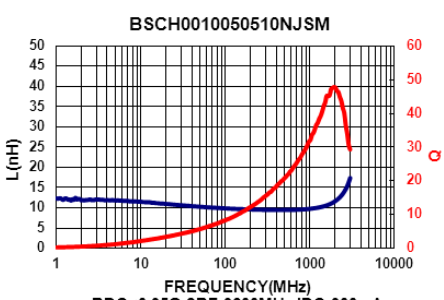

RDC<0.35Ω SRF:3200MHz IDC:300mA

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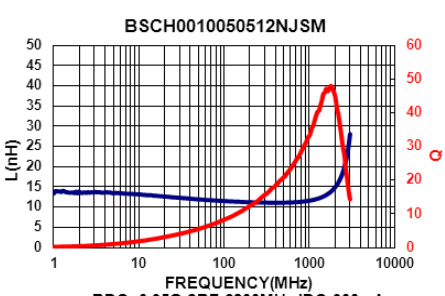

RDC<0.35Ω SRF:2800MHz IDC:300mA

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	SRF (MHz) Typ.	RDC (Ω) Max	IDC (mA) Max
BSCH001608081N0S00	1.0	±0.3nH	100	8	10000	0.10	600
BSCH001608081N2S00	1.2	±0.3nH	100	8	10000	0.10	600
BSCH001608081N5S00	1.5	±0.3nH	100	8	8000	0.10	600
BSCH001608081N6S00	1.6	±0.3nH	100	8	8000	0.10	600
BSCH001608081N8S00	1.8	±0.3nH	100	8	8000	0.10	600
BSCH001608082N2S00	2.2	±0.3nH	100	8	7200	0.10	600
BSCH001608082N7S00	2.7	±0.3nH	100	10	6200	0.10	600
BSCH001608083N0S00	3.0	±0.3nH	100	10	5200	0.12	600
BSCH001608083N3□00	3.3	±0.3nH/10	100	10	5200	0.12	600
BSCH001608083N6S00	3.6	±0.3nH	100	10	5000	0.14	600
BSCH001608083N9□00	3.9	±0.3nH/10	100	10	5000	0.14	600
BSCH001608084N3□00	4.3	±0.3nH/10	100	10	4750	0.16	600
BSCH001608084N7□00	4.7	±0.3nH /10	100	10	4750	0.16	600
BSCH001608085N1□00	5.1	±0.3nH /10	100	10	4100	0.18	600
BSCH001608085N6□00	5.6	±0.3nH/10	100	10	4100	0.18	600
BSCH001608086N2□00	6.2	5 / 10	100	10	3750	0.22	600
BSCH001608086N8□00	6.8	5 / 10	100	10	3750	0.22	600
BSCH001608087N5□00	7.5	5 / 10	100	10	3300	0.24	600
BSCH001608088N2□00	8.2	5 / 10	100	10	3300	0.24	600
BSCH0016080810N□00	10	5 / 10	100	12	3000	0.26	600
BSCH0016080812N□00	12	5 / 10	100	12	2600	0.28	600
BSCH0016080815N□00	15	5 / 10	100	12	2500	0.32	600
BSCH0016080816N□00	16	5 / 10	100	12	2400	0.35	600
BSCH0016080818N□00	18	5 / 10	100	12	2400	0.35	600
BSCH0016080822N□00	22	5 / 10	100	12	2000	0.40	500
BSCH0016080827N□00	27	5 / 10	100	12	1900	0.45	500
BSCH0016080833N□00	33	5 / 10	100	12	1600	0.55	400
BSCH0016080839N□00	39	5 / 10	100	12	1400	0.60	400
BSCH0016080847N□00	47	5 / 10	100	12	1300	0.70	400
BSCH0016080856N□00	56	5 / 10	100	12	1100	0.75	400
BSCH0016080862N□00	62	5 / 10	100	12	1050	0.85	400
BSCH0016080868N□00	68	5 / 10	100	12	1050	0.85	400
BSCH0016080875N□00	75	5 / 10	100	12	900	1.00	300
BSCH0016080882N□00	82	5 / 10	100	12	900	1.00	300

Note: When ordering, please specify tolerance code. Tolerance : S=±0.3nH , J=±5% , K=±10%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- IDC：Applied the current to coils, the inductance shall be less than 10% initial value
- Residual impedance of short chip : 0nH
- Measure Equipment：

  L & Q：Agilent E4991A+Agilent 16197A

  SRF：HP8753D

  RDC：HP4338B or CHEN HWA 502

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Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	SRF (MHz) Typ.	RDC (Ω) Max	IDC (mA) Max
BSCH00160808R10□00	100	5 / 10	100	12	770	1.20	300
BSCH00160808R12□00	120	5 / 10	50	8	650	1.30	300
BSCH00160808R15□00	150	5 / 10	50	8	550	1.70	250
BSCH00160808R18□00	180	5 / 10	50	8	520	1.90	250
BSCH00160808R22□00	220	5 / 10	50	8	500	2.00	250
BSCH00160808R27□00	270	5 / 10	50	8	470	2.20	150
BSCH00160808R33□00	330	5 / 10	50	8	320	2.80	100
BSCH00160808R39□00	390	5 / 10	50	8	300	3.00	100

Note: When ordering, please specify tolerance code. Tolerance : S=±0.3nH , J=±5% , K=±10%

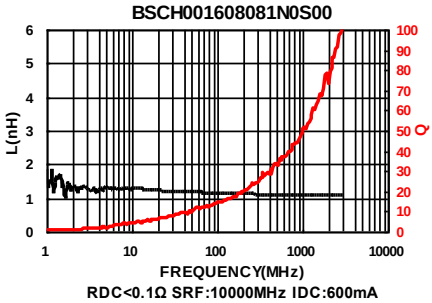
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- IDC：Applied the current to coils, the inductance shall be less than 10% initial value
- Residual impedance of short chip : 0nH
- Measure Equipment：

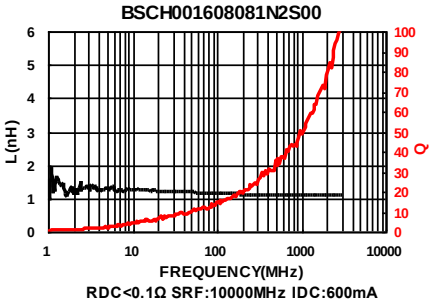
  L & Q：Agilent E4991A+Agilent 16197A

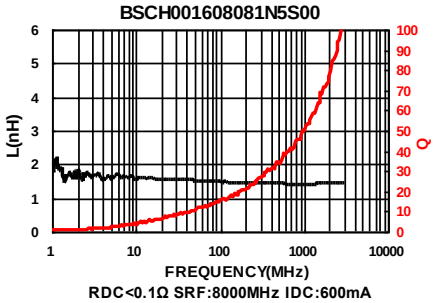
  SRF：HP8753D

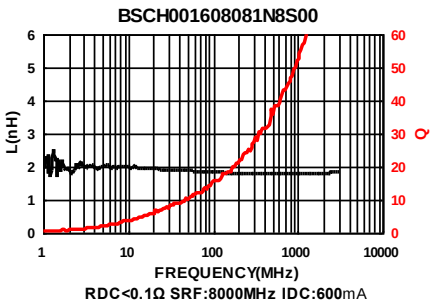
  RDC：HP4338B or CHEN HWA 502

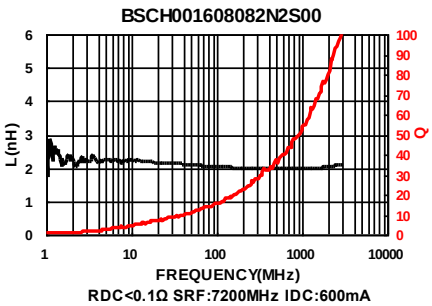
Test Instruments：Agilent E4991A Material/Impedance Analyzer

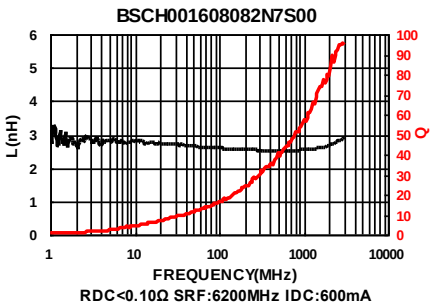


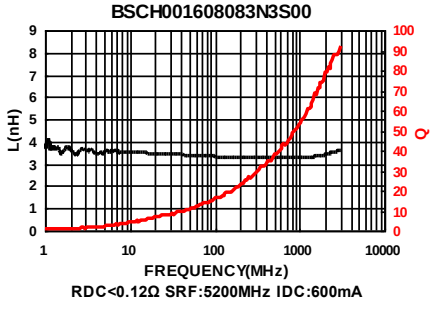


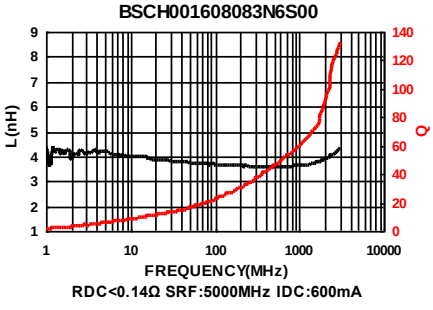


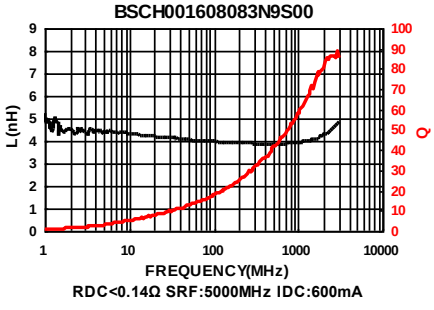












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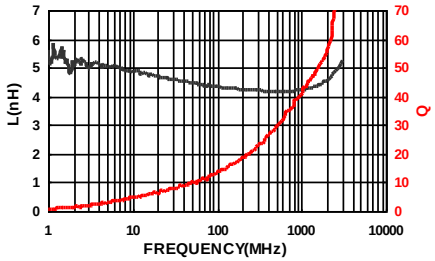
CHILISIN ELECTRONICS CORP.

Test Instruments：Agilent E4991A Material/Impedance Analyzer

BSCH001608084N3S00



RDC<0.16Ω SRF:4750MHz IDC:600mA

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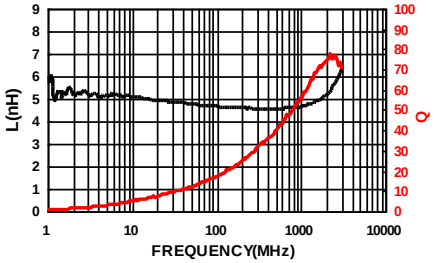

RDC<0.16Ω SRF:4750MHz IDC:600mA

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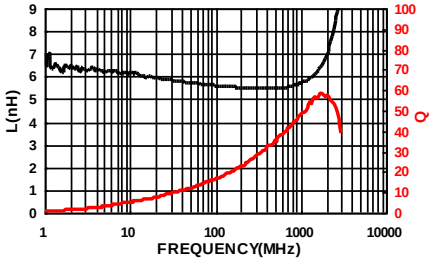

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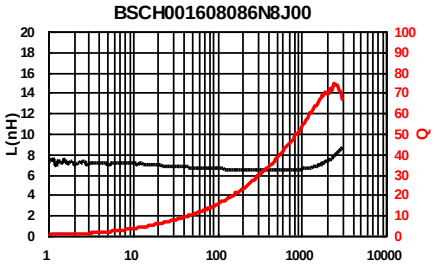

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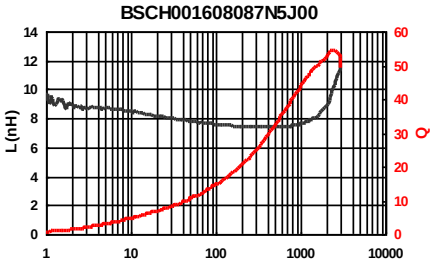

RDC<0.24Ω SRF:3300MHz IDC:600mA

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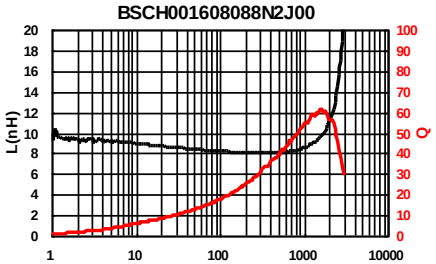

RDC<0.24Ω SRF:3300MHz IDC:600mA

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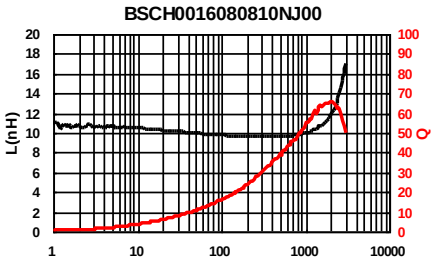

RDC<0.26Ω SRF:3000MHz IDC:600mA

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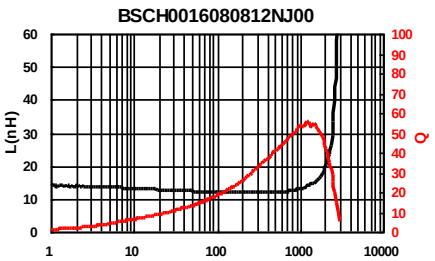

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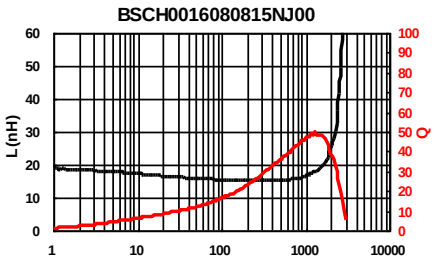

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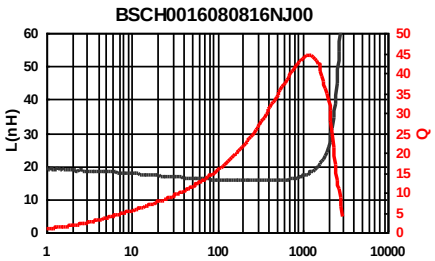

RDC<0.35Ω SRF:2400MHz IDC:600mA

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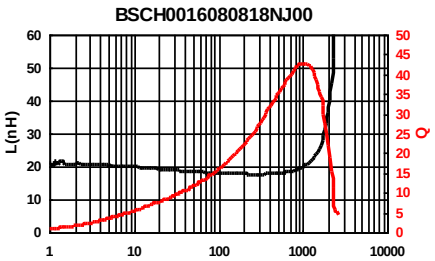

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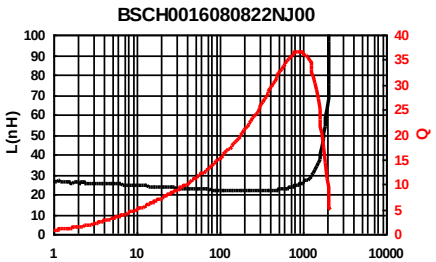

RDC<0.4Ω SRF:2000MHz IDC:500mA

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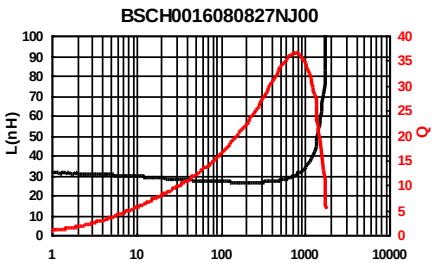

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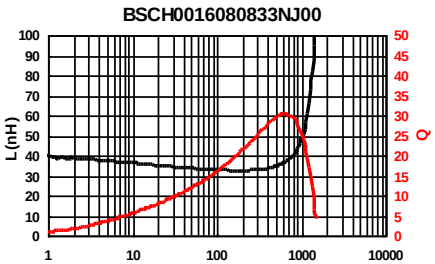

RDC<0.55Ω SRF:1600MHz IDC:400mA

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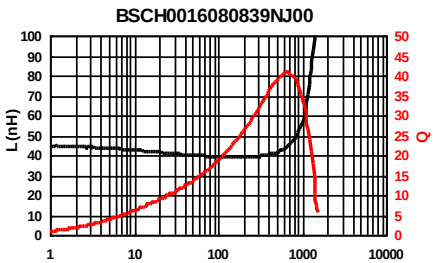

RDC<0.60Ω SRF:1400MHz IDC:400mA

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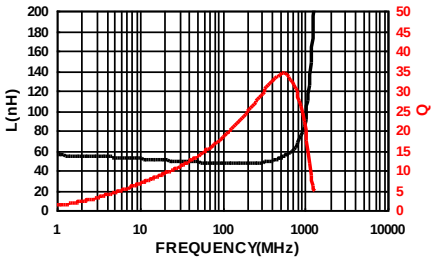
Test Instruments：Agilent E4991A Material/Impedance Analyzer

BSCH0016080847NJ00



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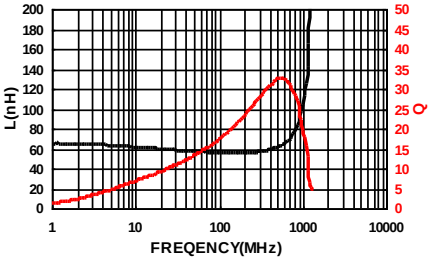
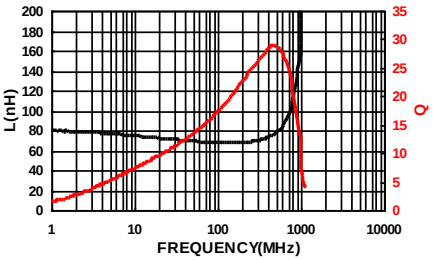
BSCH0016080856NJ00



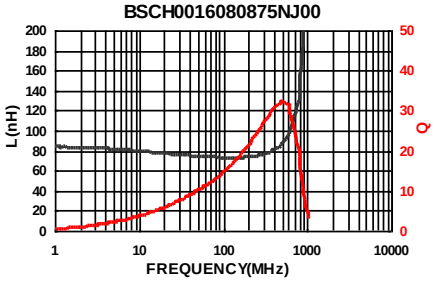
RDC<0.75Ω SRF:1100MHz IDC:400mA

BSCH0016080868NJ00



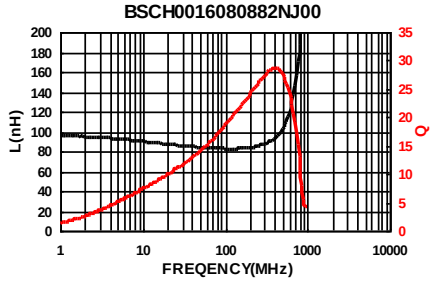
RDC<0.85Ω SRF:1050MHz IDC:400mA

BSCH0016080875NJ00



RDC<1.0Ω SRF:900MHz IDC:300mA

BSCH0016080882NJ00



RDC<1.0Ω SRF:900MHz IDC:300mA

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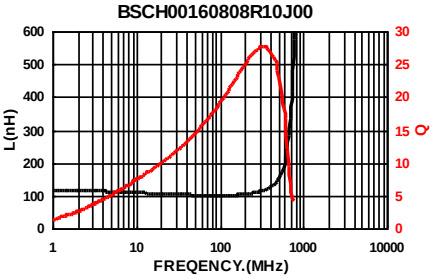

RDC<1.20Ω SRF:770MHz IDC:300mA

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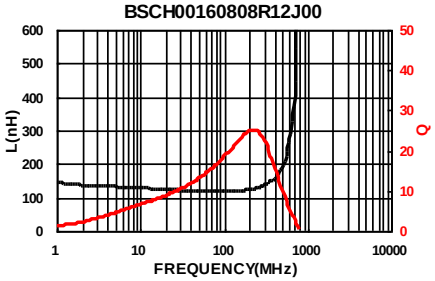
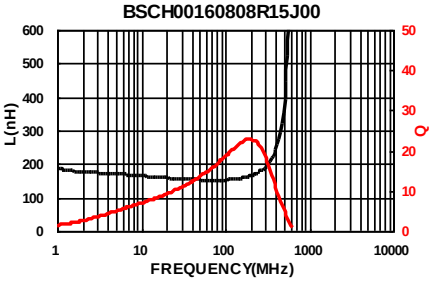


RDC<1.30 Ω SRF:650MHz IDC:300mA

BSCH00160808R15J00



RDC<1.70 Ω SRF:550MHz IDC:250mA

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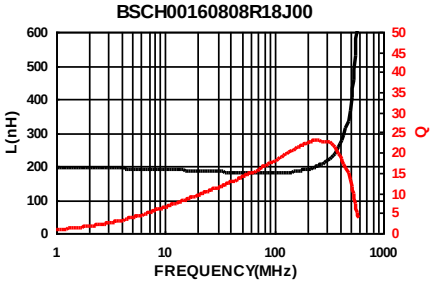
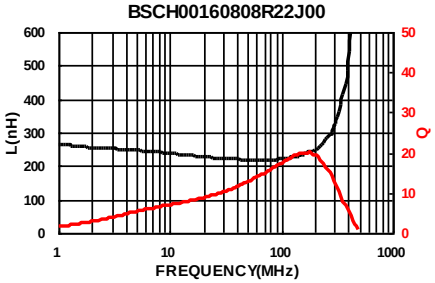


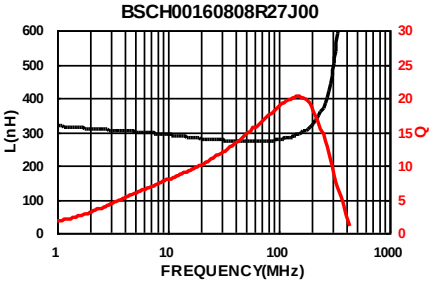
RDC<1.90 Ω SRF:520MHz IDC:250mA

BSCH00160808R22J00



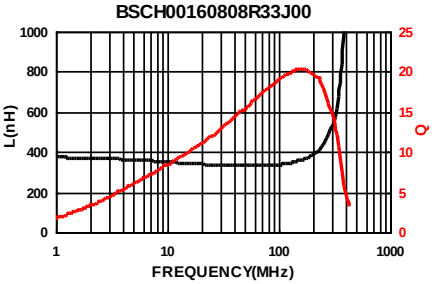
RDC<2.00 Ω SRF:500MHz IDC:250mA

BSCH00160808R27J00



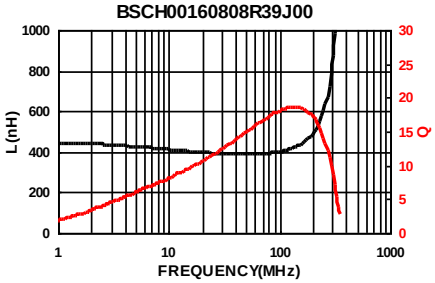
RDC<2.20 Ω SRF:470MHz IDC:150mA

BSCH00160808R33J00



RDC<2.8 Ω SRF:320MHz IDC:100mA

BSCH00160808R39J00



RDC<3.0 Ω SRF:300MHz IDC:100mA

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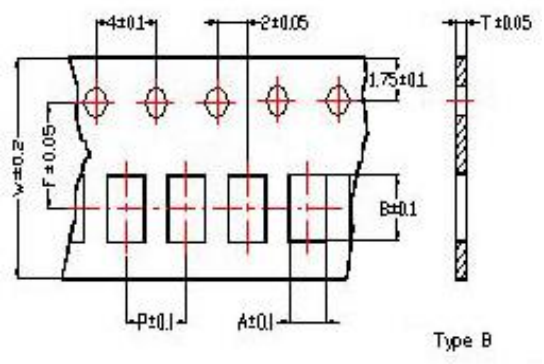
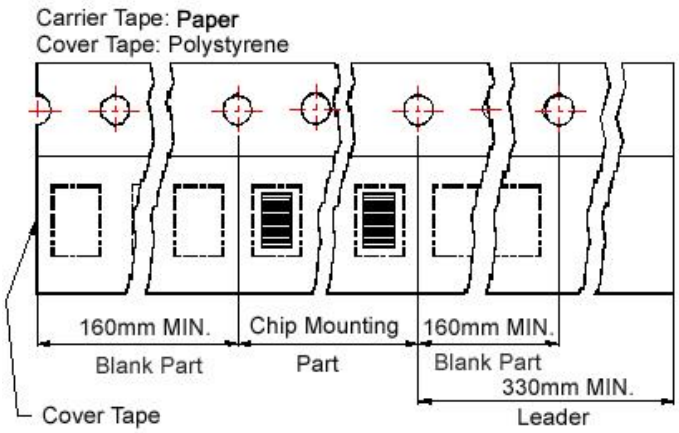
Packaging Specifications

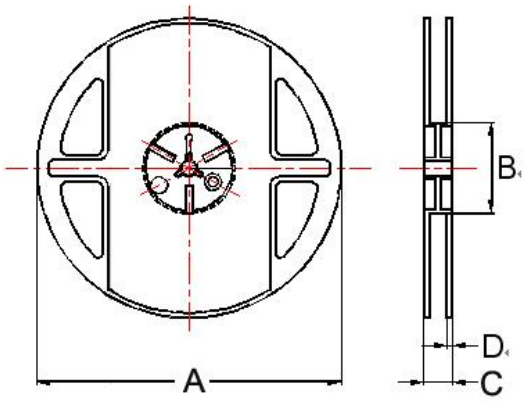
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions						Reel Dimensions				Quantity
	A	B	T	W	P	F	A	B	C	D	PCS / Reel
BSCH00060303	0.37	0.67	0.42	8	2	3.5	180	60	13	1.5	15000
BSCH00100505	0.62	1.12	0.60	8	2	3.5	178	60	12	1.5	10000
BSCH00160808	1.00	1.80	0.95	8	4	3.5	178	60	12	1.5	4000

BSPQ Series

BSPQ Series supports miniaturized devices. Its low inductance, high precision and higher Q enables easy impedance matching at both RF and IF circuits and compact high frequency circuit designing.

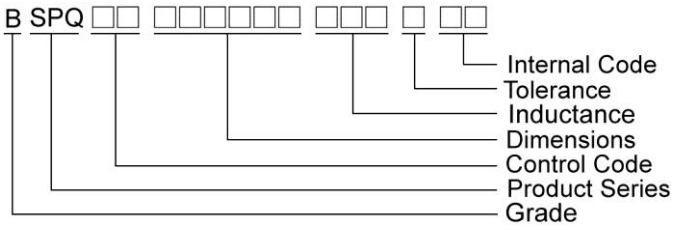
Features

- Film Type
- Excellent high frequency application
- Higher Q factor
- Miniaturization
- Tight tolerance

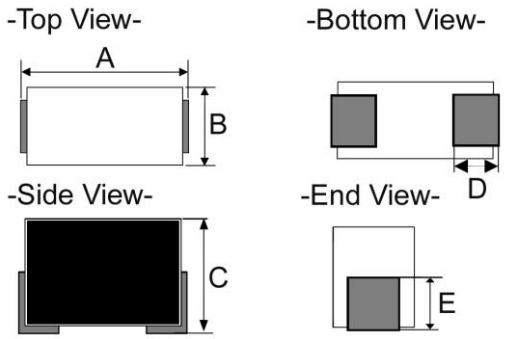
Applications

- RF matching circuit requiring Q value
- Bluetooth, WLAN, UWB, digital TV tuners and high-frequency circuit and module

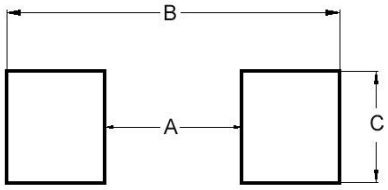
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	E
BSPQ00060304	0.6±0.03	0.3±0.03	0.4±0.03	0.15±0.03	0.2±0.03

Dimensions in mm

TYPE	A	B	C
BSPQ00060304	0.3	0.75 ~ 1.05	0.3

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	Rated Current (mA) Max
BSPQ000603040N6□00	0.6	±0.1nH/±0.2nH	20	500	20000	0.04	1100
BSPQ000603040N7□00	0.7	±0.1nH/±0.2nH	20	500	20000	0.04	1100
BSPQ000603040N8□00	0.8	±0.1nH/±0.2nH	20	500	18000	0.04	1100
BSPQ000603040N9□00	0.9	±0.1nH/±0.2nH	20	500	18000	0.04	1100
BSPQ000603041N0□00	1.0	±0.1nH/±0.2nH	20	500	16000	0.04	1100
BSPQ000603041N1□00	1.1	±0.1nH/±0.2nH	20	500	14000	0.04	1100
BSPQ000603041N2□00	1.2	±0.1nH/±0.2nH	20	500	13000	0.04	1100
BSPQ000603041N3v00	1.3	±0.1nH/±0.2nH	20	500	13000	0.04	1100
BSPQ000603041N4□00	1.4	±0.1nH/±0.2nH	20	500	12000	0.04	1100
BSPQ000603041N5□00	1.5	±0.1nH/±0.2nH	20	500	12000	0.05	1000
BSPQ000603041N6□00	1.6	±0.1nH/±0.2nH	20	500	10000	0.05	1000
BSPQ000603041N7□00	1.7	±0.1nH/±0.2nH	20	500	10000	0.07	800
BSPQ000603041N8□00	1.8	±0.1nH/±0.2nH	20	500	10000	0.08	800
BSPQ000603041N9□00	1.9	±0.1nH/±0.2nH	20	500	10000	0.12	600
BSPQ000603042N0□00	2.0	±0.1nH/±0.2nH	20	500	9000	0.12	600
BSPQ000603042N1□00	2.1	±0.1nH/±0.2nH	20	500	9000	0.12	600
BSPQ000603042N2□00	2.2	±0.1nH/±0.2nH	20	500	9000	0.12	600
BSPQ000603042N3□00	2.3	±0.1nH/±0.2nH	20	500	9000	0.12	600
BSPQ000603042N4□00	2.4	±0.1nH/±0.2nH	20	500	9000	0.12	600
BSPQ000603042N5□00	2.5	±0.1nH/±0.2nH	20	500	9000	0.12	600
BSPQ000603042N6□00	2.6	±0.1nH/±0.2nH	20	500	9000	0.12	600
BSPQ000603042N7□00	2.7	±0.1nH/±0.2nH	20	500	9000	0.12	600
BSPQ000603042N8□00	2.8	±0.1nH/±0.2nH	20	500	8000	0.12	600
BSPQ000603042N9□00	2.9	±0.1nH/±0.2nH	20	500	8000	0.12	600
BSPQ000603043N0□00	3.0	±0.1nH/±0.2nH	20	500	8000	0.12	600
BSPQ000603043N1□00	3.1	±0.1nH/±0.2nH	20	500	7500	0.17	500
BSPQ000603043N2□00	3.2	±0.1nH/±0.2nH	20	500	7000	0.17	500
BSPQ000603043N3□00	3.3	±0.1nH/±0.2nH	20	500	7000	0.17	500
BSPQ000603043N4□00	3.4	±0.1nH/±0.2nH	20	500	7000	0.17	500
BSPQ000603043N5□00	3.5	±0.1nH/±0.2nH	20	500	7000	0.17	500
BSPQ000603043N6□00	3.6	±0.1nH/±0.2nH	20	500	7000	0.17	500
BSPQ000603043N7□00	3.7	±0.1nH/±0.2nH	20	500	7000	0.17	500

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , H=±3% , J=±5%

- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rated Current：Applied the current to coils, the temperature rise shall not be more than 25℃
- Residual impedance of short chip : 0.48nH
- Measure Equipment：

  L & Q：Agilent E4991A+Agilent 16197A (or equivalent)

  SRF：Agilent E4991A or HP19196C

  RDC：HP4338B or CHEN HWA 502

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Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	Rated Current (mA) Max
BSPQ000603043N8□00	3.8	±0.1nH/±0.2nH	20	500	7000	0.17	500
BSPQ000603043N9□00	3.9	±0.1nH/±0.2nH	20	500	7000	0.17	500
BSPQ000603044N0□00	4.0	±0.1nH/±0.2nH	20	500	7000	0.17	500
BSPQ000603044N1□00	4.1	±0.1nH/±0.2nH	20	500	7000	0.17	500
BSPQ000603044N2□00	4.2	±0.1nH/±0.2nH	20	500	7000	0.17	500
BSPQ000603044N3□00	4.3	3/5	20	500	7000	0.17	500
BSPQ000603044N7□00	4.7	3/5	20	500	7000	0.25	400
BSPQ000603045N1□00	5.1	3/5	20	500	5500	0.25	400
BSPQ000603045N6□00	5.6	3/5	20	500	5500	0.25	400
BSPQ000603046N2□00	6.2	3/5	20	500	5500	0.25	400
BSPQ000603046N8□00	6.8	3/5	20	500	5500	0.30	400
BSPQ000603047N5□00	7.5	3/5	20	500	4500	0.30	400
BSPQ000603048N2□00	8.2	3/5	20	500	4500	0.40	300
BSPQ000603049N1□00	9.1	3/5	20	500	4500	0.40	300
BSPQ0006030410N□00	10	3/5	20	500	4500	0.40	300
BSPQ0006030412N□00	12	3/5	20	500	4000	0.50	300
BSPQ0006030415N□00	15	3/5	20	500	3500	0.70	300
BSPQ0006030418N□00	18	3/5	20	500	3500	0.80	250
BSPQ0006030422N□00	22	3/5	20	500	3000	0.82	250

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , H=±3% , J=±5%

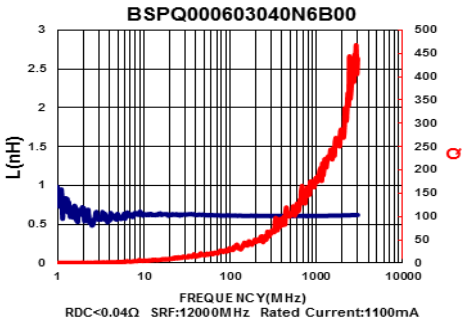
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rated Current：Applied the current to coils, the temperature rise shall not be more than 25℃
- Residual impedance of short chip : 0.48nH
- Measure Equipment：

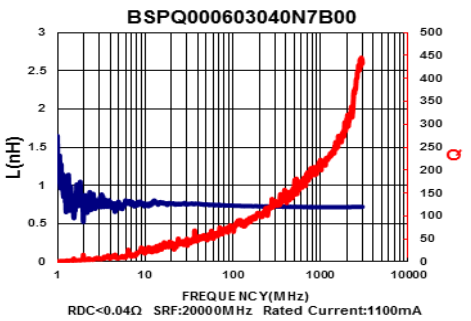
  L & Q：Agilent E4991A+Agilent 16197A (or equivalent)

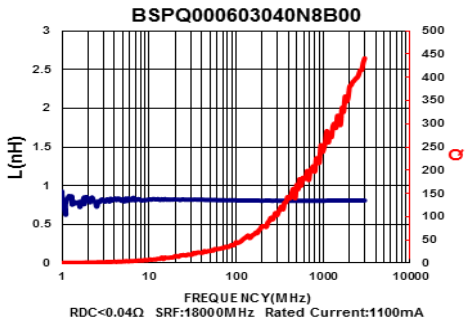
  SRF：Agilent E4991A or HP19196C

  RDC：HP4338B or CHEN HWA 502

Test Instruments：Agilent E4991A Material/Impedance Analyzer







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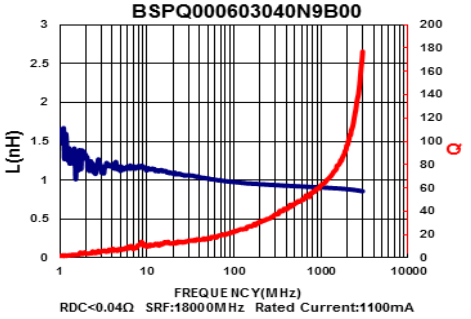
Test Instruments：Agilent E4991A Material/Impedance Analyzer

BSPQ000603040N9B00



RDC<0.04Ω SRF:18000MHz Rated Current:1100mA

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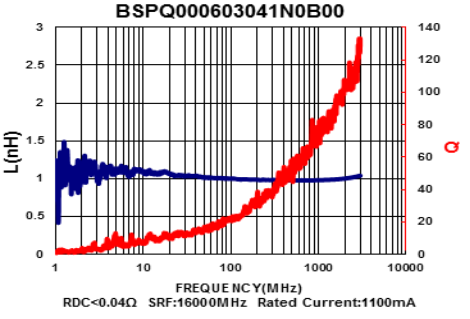

RDC<0.04Ω SRF:16000MHz Rated Current:1100mA

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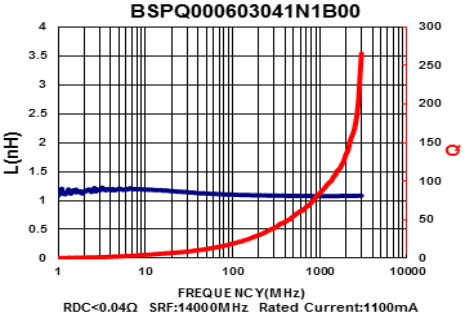
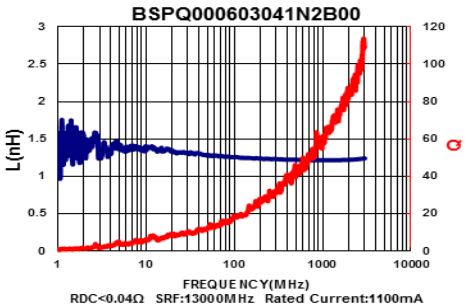


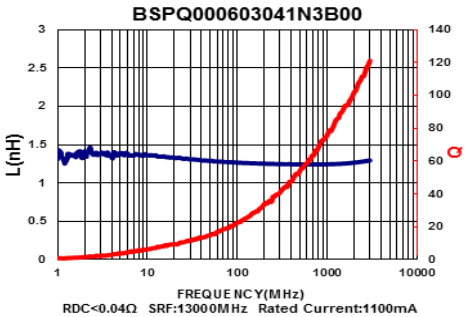
RDC<0.04Ω SRF:14000MHz Rated Current:1100mA

BSPQ000603041N2B00



RDC<0.04Ω SRF:13000MHz Rated Current:1100mA

BSPQ000603041N3B00



RDC<0.04Ω SRF:13000MHz Rated Current:1100mA

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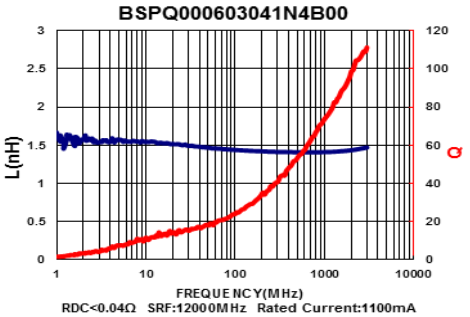
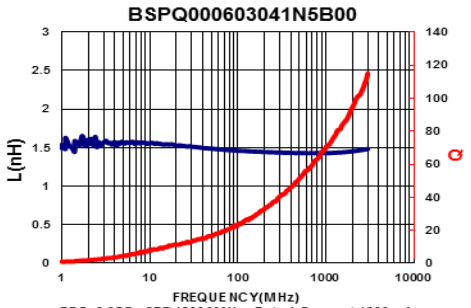


RDC<0.04Ω SRF:12000MHz Rated Current:1100mA

BSPQ000603041N5B00



RDC<0.05Ω SRF:12000MHz Rated Current:1000mA

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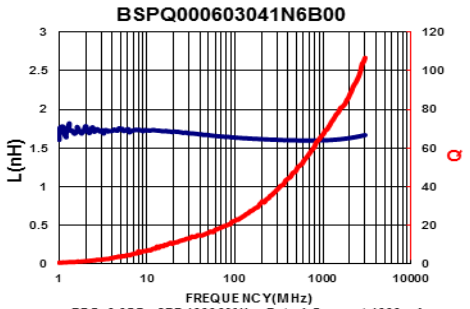

RDC<0.05Ω SRF:10000MHz Rated Current:1000mA

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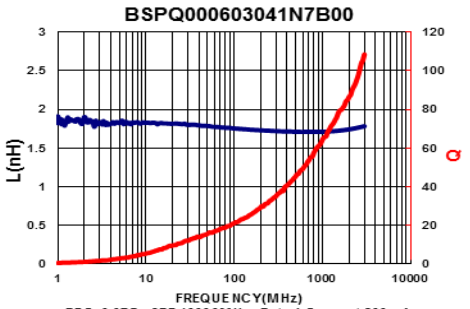
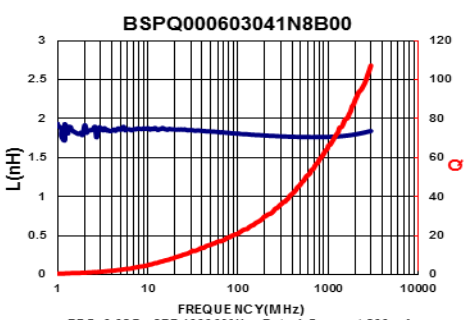


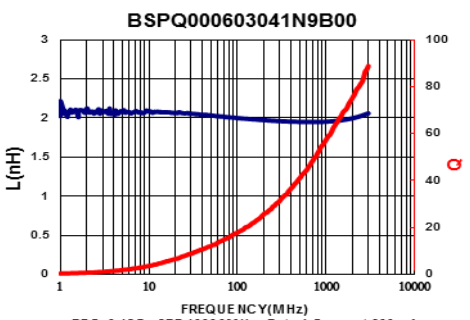
RDC<0.07Ω SRF:10000MHz Rated Current:800mA

BSPQ000603041N8B00



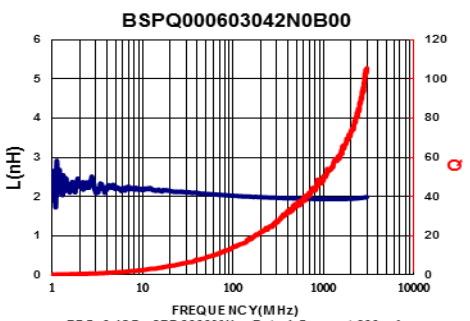
RDC<0.08Ω SRF:10000MHz Rated Current:800mA

BSPQ000603041N9B00



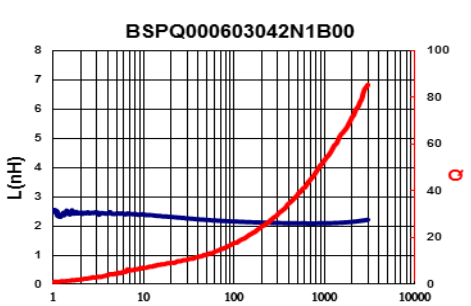
RDC<0.12Ω SRF:10000MHz Rated Current:600mA

BSPQ000603042N0B00



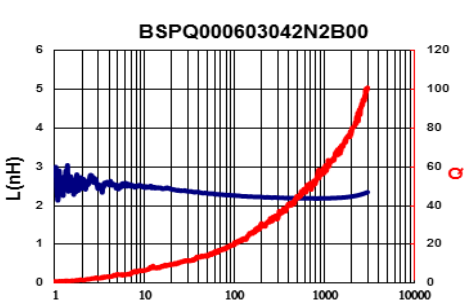
RDC<0.12Ω SRF:9000MHz Rated Current:600mA

BSPQ000603042N1B00



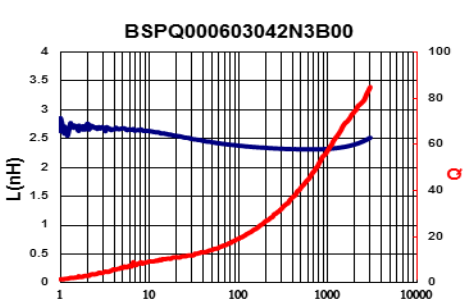
RDC<0.12Ω SRF:9000MHz Rated Current:600mA)

BSPQ000603042N2B00



RDC<0.12Ω SRF:9000MHz Rated Current:600mA

BSPQ000603042N3B00



RDC<0.12Ω SRF:9000MHz Rated Current:600mA

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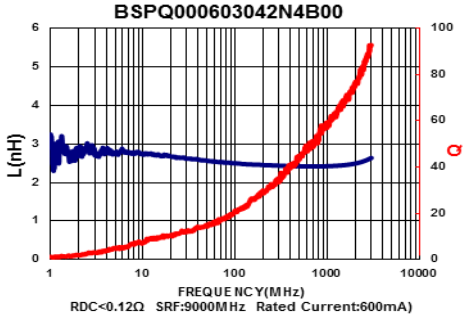
CHILISIN ELECTRONICS CORP.

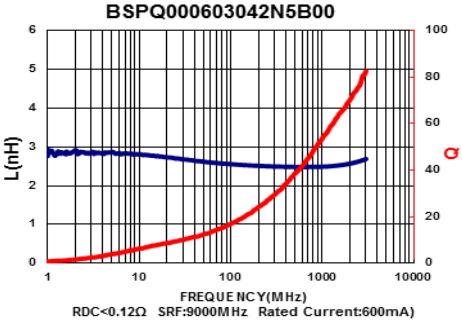
Test Instruments：Agilent E4991A Material/Impedance Analyzer

BSPQ000603042N4B00



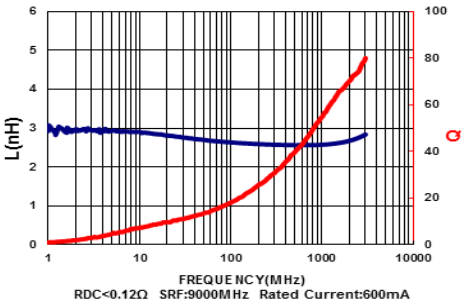
RDC<0.12Ω SRF:9000MHz Rated Current:600mA)

BSPQ000603042N5B00



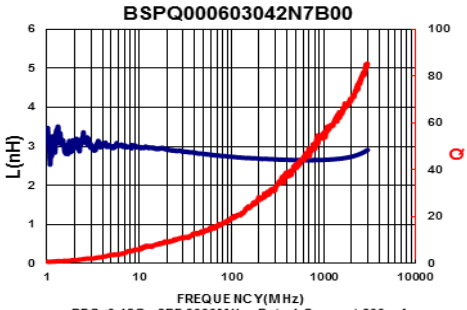
RDC<0.12Ω SRF:9000MHz Rated Current:600mA)

BSPQ000603042N6B00



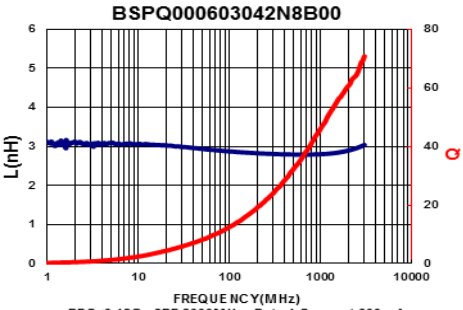
RDC<0.12Ω SRF:9000MHz Rated Current:600mA

BSPQ000603042N7B00



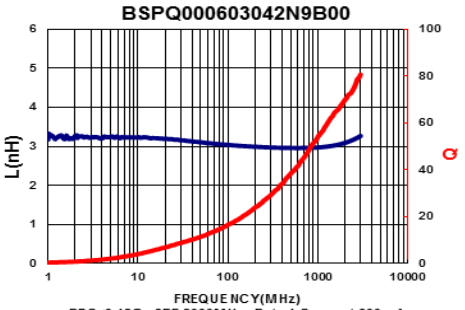
RDC<0.12Ω SRF:9000MHz Rated Current:600mA

BSPQ000603042N8B00



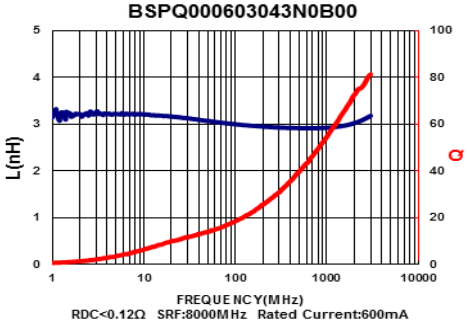
RDC<0.12Ω SRF:8000MHz Rated Current:600mA

BSPQ000603042N9B00



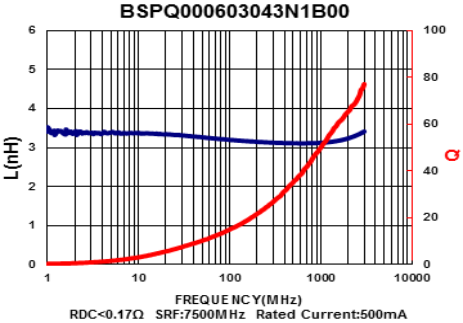
RDC<0.12Ω SRF:8000MHz Rated Current:600mA

BSPQ000603043N0B00



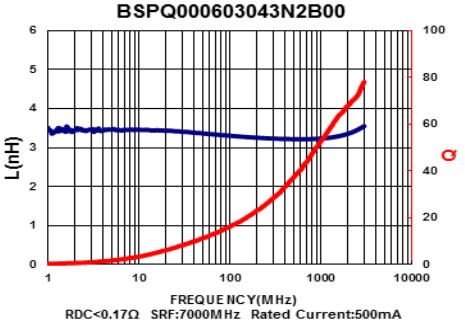
RDC<0.12Ω SRF:8000MHz Rated Current:600mA

BSPQ000603043N1B00



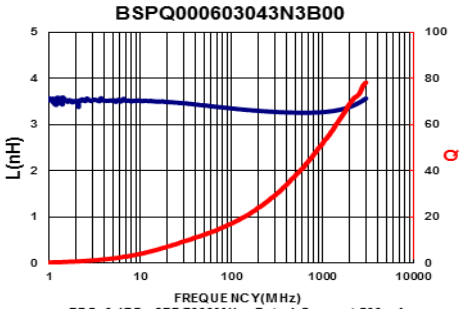
RDC<0.17Ω SRF:7500MHz Rated Current:500mA

BSPQ000603043N2B00



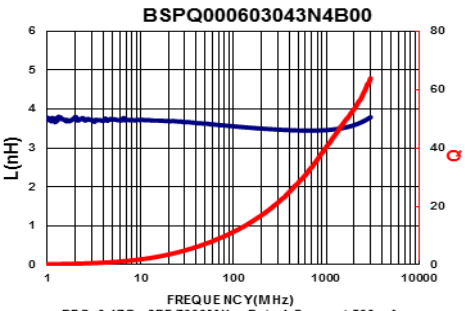
RDC<0.17Ω SRF:7000MHz Rated Current:500mA

BSPQ000603043N3B00



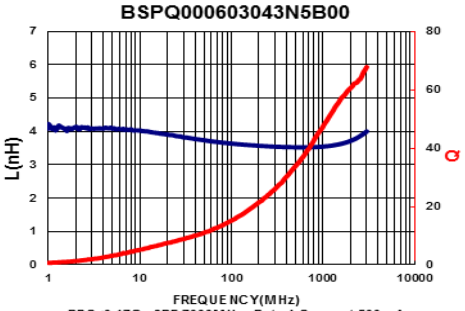
RDC<0.17Ω SRF:7000MHz Rated Current:500mA

BSPQ000603043N4B00



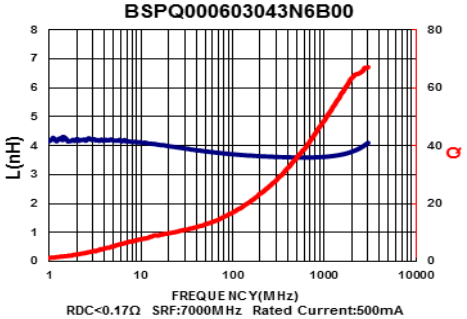
RDC<0.17Ω SRF:7000MHz Rated Current:500mA

BSPQ000603043N5B00



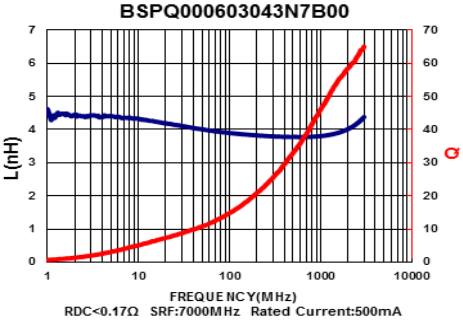
RDC<0.17Ω SRF:7000MHz Rated Current:500mA

BSPQ000603043N6B00



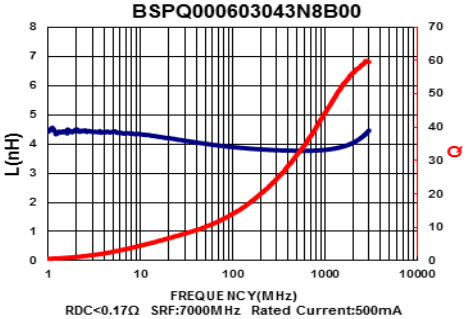
RDC<0.17Ω SRF:7000MHz Rated Current:500mA

BSPQ000603043N7B00



RDC<0.17Ω SRF:7000MHz Rated Current:500mA

BSPQ000603043N8B00



RDC<0.17Ω SRF:7000MHz Rated Current:500mA

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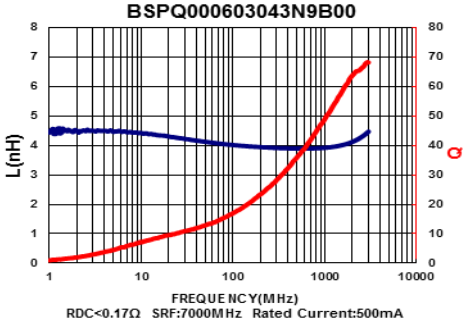
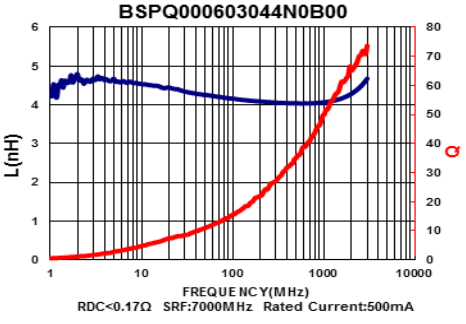
Test Instruments：Agilent E4991A Material/Impedance Analyzer

BSPQ000603043N9B00



RDC<0.17Ω SRF:7000MHz Rated Current:500mA

BSPQ000603044N0B00



RDC<0.17Ω SRF:7000MHz Rated Current:500mA

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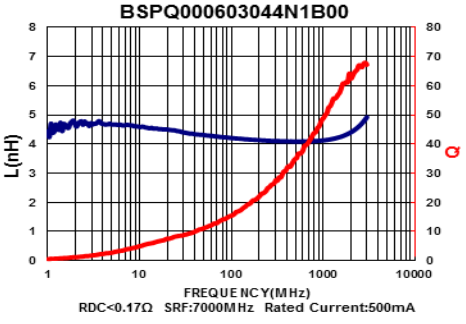
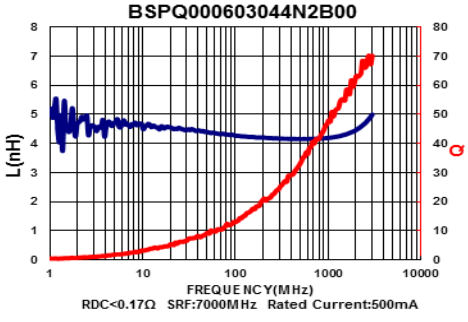


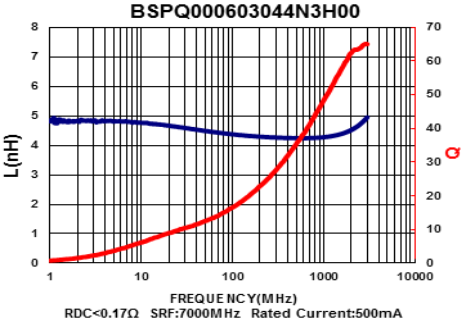
RDC<0.17Ω SRF:7000MHz Rated Current:500mA

BSPQ000603044N2B00



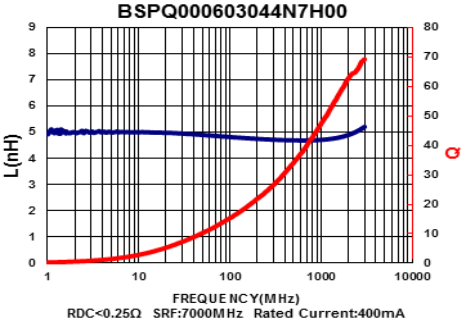
RDC<0.17Ω SRF:7000MHz Rated Current:500mA

BSPQ000603044N3H00



RDC<0.17Ω SRF:7000MHz Rated Current:500mA

BSPQ000603044N7H00



RDC<0.25Ω SRF:7000MHz Rated Current:400mA

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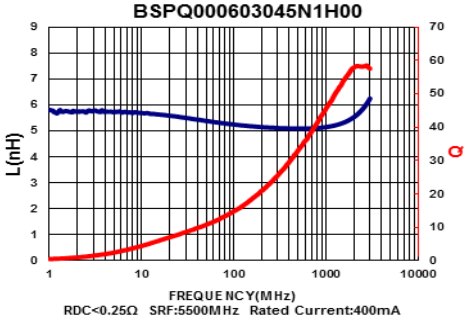
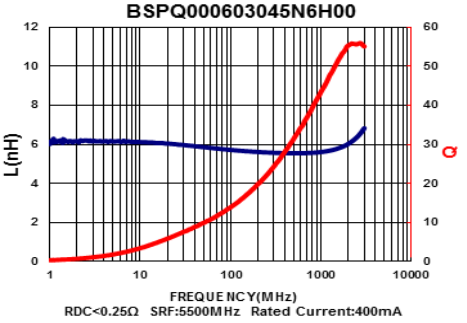


RDC<0.25Ω SRF:5500MHz Rated Current:400mA

BSPQ000603045N6H00



RDC<0.25Ω SRF:5500MHz Rated Current:400mA

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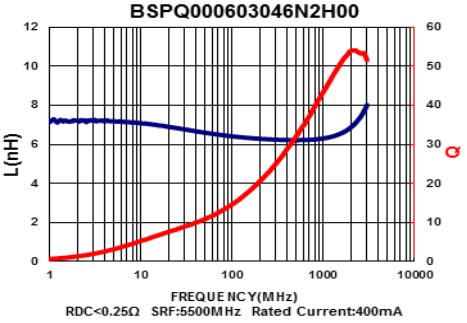
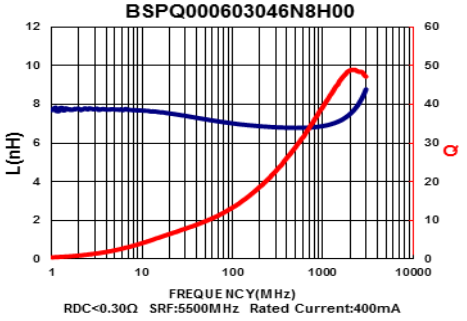


RDC<0.25Ω SRF:5500MHz Rated Current:400mA

BSPQ000603046N8H00



RDC<0.30Ω SRF:5500MHz Rated Current:400mA

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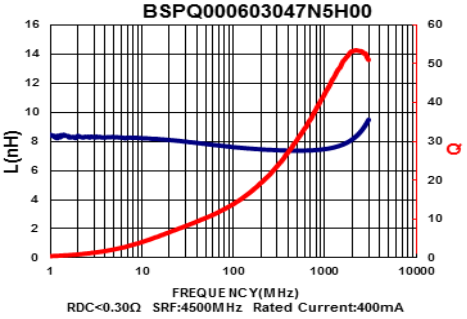

RDC<0.30Ω SRF:4500MHz Rated Current:400mA

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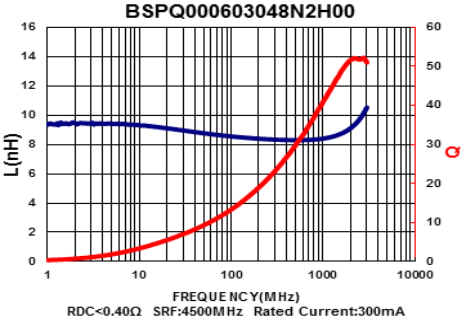

RDC<0.40Ω SRF:4500MHz Rated Current:300mA

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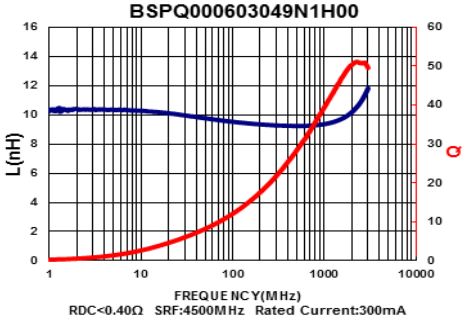

RDC<0.40Ω SRF:4500MHz Rated Current:300mA

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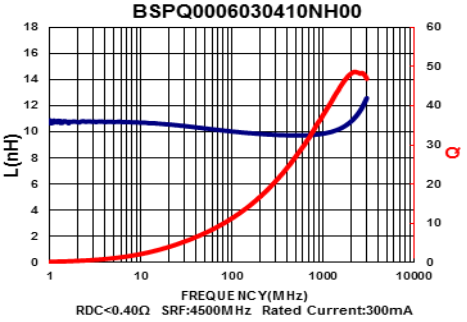

RDC<0.40Ω SRF:4500MHz Rated Current:300mA

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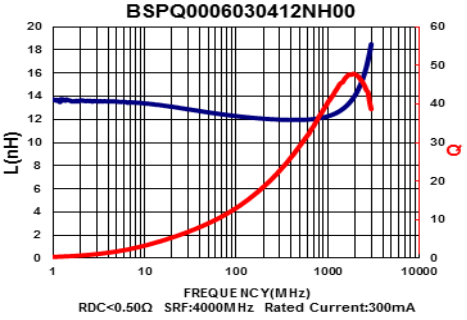

RDC<0.50Ω SRF:4000MHz Rated Current:300mA

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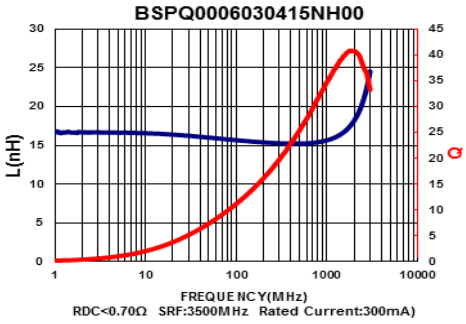
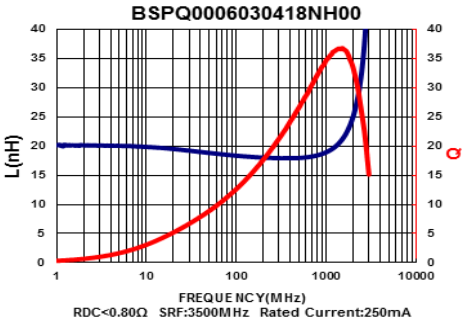
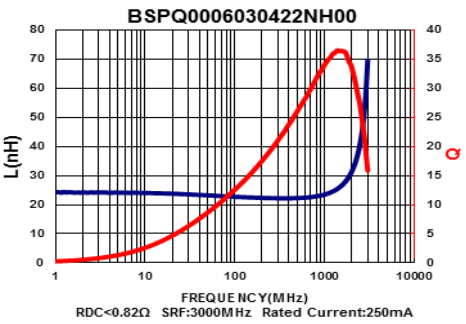
CHILISIN ELECTRONICS CORP.

Test Instruments：Agilent E4991A Material/Impedance Analyzer







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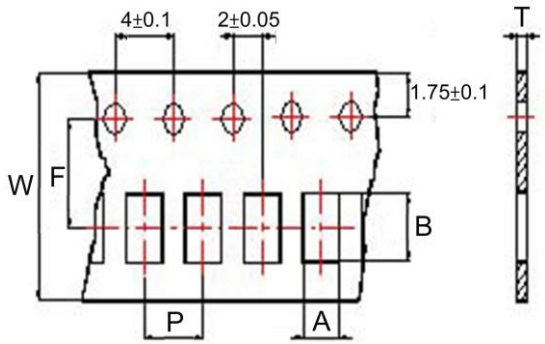
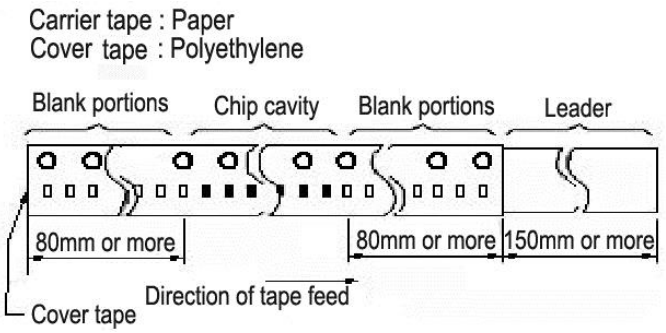
CHILISIN ELECTRONICS CORP.

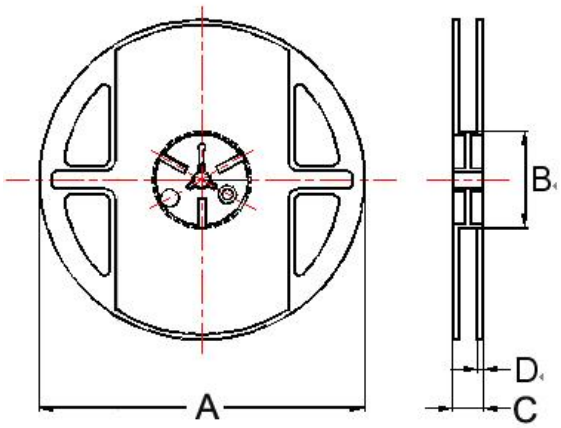
Packaging Specifications

Tape Dimensions



Tape Material





Dimensions in mm

TYPE	Tape Dimensions						Reel Dimensions				Quantity
	A	B	T	W	P	F	A	B	C	D	PCS / Reel
BSPQ00060304	0.37	0.68	0.45	8	2	3.5	180	60	13	1.5	15000

BWCM Series

Due to accurate wire winding technology, these chip inductors are designed for filtering impedance matching, resonance and choke circuits for RF designer. Both standard series and custom designs are available.

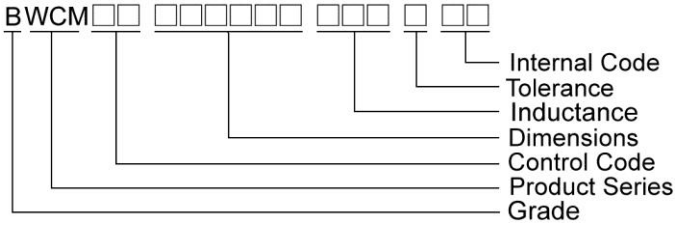
Features

- RoHS Compliant
- Ceramic body and wire wound construction provide high SRFs
- Exceptional Q value even at high frequencies
- Ceramic construction delivers the highest possible SRFs as well as high Q value
- Low DC resistance design supports low loss, high output and low power consumption
- CM series is standard for RF designers

Applications

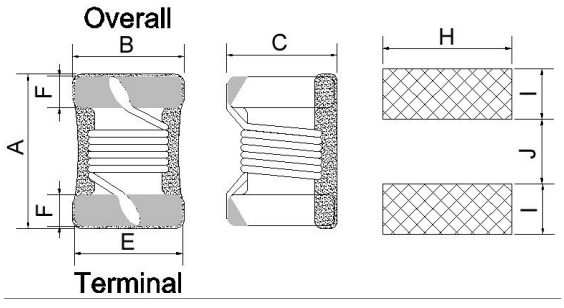
- RF products for cellular phone
- GPS receiver
- Base Station
- Repeater
- Wireless LAN/ mouse/ keyboard/ earphone
- Remote control
- Security system and other RF modules

Product Identification

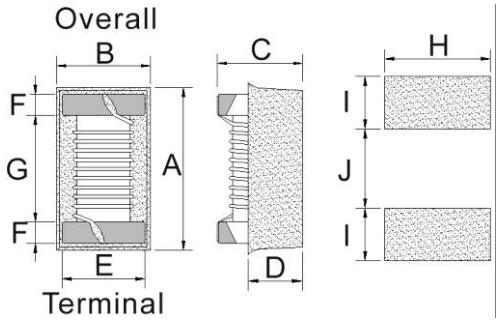


Shape and Dimensions / Recommended Pattern

BWCM00060404



BWCM00110705/181010

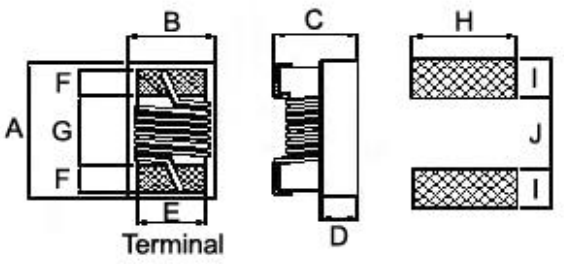


Dimensions

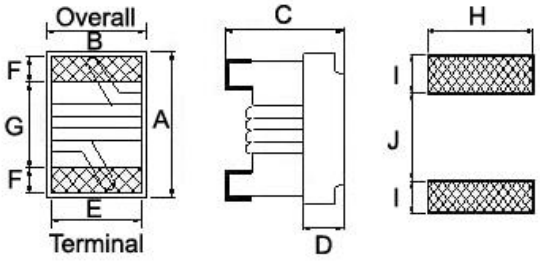
	A	B	C	D	E	F	G	H	I	J
BWCM00060404	0.53±0.05	0.40±0.05	0.40±0.05	-	0.38	0.10	-	0.40	0.21	0.23
BWCM00110705	1.1±0.1	0.70±0.1	0.5±0.1	0.35	0.60	0.15	0.70	0.66	0.40	0.60
BWCM00181010	1.80±0.1	1.00±0.1	0.95±0.1	0.60	0.90	0.23	1.15	1.15	0.57	0.86

Shape and Dimensions / Recommended Pattern

BWCM00120707



BWCM00161008



Dimensions

	A	B	C	D	E	F	G	H	I	J
BWCM00120707	1.19 Max	0.70 Max	0.66 Max	0.25	0.51	0.23	0.56	0.66	0.36	0.46
BWCM00161008	$1.6^{+0.2}_{-0.1}$	1.02±0.1	$0.82^{+0.2}_{-0.1}$	0.35	0.70	0.30	0.95	1.02	0.64	0.64

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Typ.	Test Frequency (MHz)	SRF (GHz) Min	RDC (Ω) Max	Irms (mA) Typ.
BWCM000604041N0□00	1.0	±0.2nH	250	48	900	19	0.03	900
BWCM000604041N1□00	1.1	±0.2nH	250	41	900	19	0.06	660
BWCM000604041N7□00	1.7	±0.2nH	250	41	900	19	0.07	600
BWCM000604041N8□00	1.8	±0.2nH	250	37	900	19	0.10	520
BWCM000604041N9□00	1.9	±0.2nH	250	41	900	19	0.08	620
BWCM000604042N0□00	2.0	±0.2nH	250	42	900	19	0.10	490
BWCM000604042N1□00	2.1	±0.2nH	250	35	900	19	0.16	400
BWCM000604042N2□00	2.2	±0.2nH	250	33	900	19	0.16	400
BWCM000604042N7□00	2.7	±0.2nH	250	46	900	15	0.06	720
BWCM000604042N8□00	2.8	±0.2nH	250	44	900	14	0.08	600
BWCM000604042N9□00	2.9	±0.2nH	250	41	900	13	0.10	540
BWCM000604043N0□00	3.0	±0.2nH	250	34	900	14	0.22	350
BWCM000604043N1□00	3.1	±0.2nH	250	48	900	12	0.07	720
BWCM000604043N2□00	3.2	±0.2nH	250	48	900	10	0.08	580
BWCM000604043N3□00	3.3	±0.2nH	250	47	900	11	0.11	520
BWCM000604043N4□00	3.4	±0.2nH	250	43	900	11	0.15	440
BWCM000604043N5□00	3.5	±0.2nH	250	43	900	12	0.15	440
BWCM000604043N6□00	3.6	±0.2nH	250	36	900	11	0.23	340
BWCM000604043N7□00	3.7	±0.2nH	250	38	900	11	0.23	340
BWCM000604043N9□00	3.9	±0.2nH	250	48	900	11	0.07	650
BWCM000604044N3□00	4.3	5	100	45	900	11	0.12	480
BWCM000604044N7□00	4.7	5	100	45	900	9.5	0.09	620
BWCM000604045N1□00	5.1	5	100	45	900	9.5	0.14	480
BWCM000604045N4□00	5.4	5	100	46	900	9.5	0.21	420
BWCM000604045N6□00	5.6	5	100	37	900	8.3	0.33	330
BWCM000604045N8□00	5.8	5	100	47	900	8.8	0.16	460
BWCM000604046N2□00	6.2	5	100	39	900	9.9	0.22	360
BWCM000604046N8□00	6.8	5	100	42	900	7.7	0.18	460
BWCM000604047N5□00	7.5	5	100	41	900	7.5	0.24	400
BWCM000604048N2□00	8.2	5	100	40	900	8.5	0.26	290

Note: When ordering, please specify tolerance code. Tolerance : C=±0.2nH , J=±5%

- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Irms for a 20℃ temperature rise from 25℃ ambient with current
- Offset value : -0.48nH
- Measure Equipment :

  L & Q：HP4286A/HP4287A/AgilentE4991/Keysight E4982A

  SRF：Agilent HP8753D/ AgilentE4991

  RDC：HP4287A/Keysight E4982A

  Irms：HP4284A+HP42841A/HP4285A+HP42841A

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

SMD Wire Wound Ceramic Chip Inductors - BWCM Series

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Typ.	Test Frequency (MHz)	SRF (GHz) Min	RDC (Ω) Max	Irms (mA) Typ.
BWCM000604048N7□00	8.7	5	100	39	900	7.5	0.42	290
BWCM000604049N1□00	9.1	5	100	46	900	6.4	0.22	460
BWCM0006040410N□00	10	5	100	37	900	7.2	0.46	250
BWCM0006040411N□00	11	5	100	37	900	7.0	0.47	260
BWCM0006040412N□00	12.5	5	100	39	900	6.0	0.54	280
BWCM0006040413N□00	13	5	100	39	900	5.9	0.54	280
BWCM0006040414N□00	13.5	5	100	37	900	6.0	0.53	240
BWCM0006040415N□00	15.5	5	100	38	900	5.7	0.60	230

Note: When ordering, please specify tolerance code. Tolerance : C=±0.2nH , J=±5%

- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Irms for a 20℃ temperature rise from 25℃ ambient with current
- Offset value : -0.48nH
- Measure Equipment :

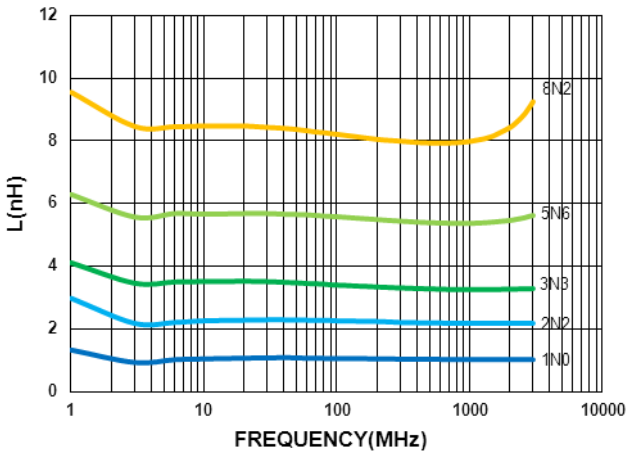
  L & Q：HP4286A/HP4287A/AgilentE4991/Keysight E4982A

  SRF：Agilent HP8753D/ AgilentE4991

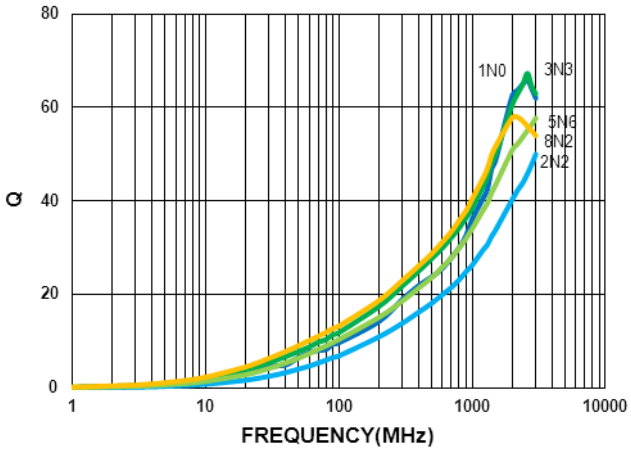
  RDC：HP4287A/Keysight E4982A

  Irms：HP4284A+HP42841A/HP4285A+HP42841A

Typical L vs. Frequency



Typical Q vs. Frequency



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Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Typ.	Test Frequency (MHz)	SRF (GHz) Min	RDC (Ω) Max	Irms (mA) Typ.
BWCM001107051N5□H8	1.5	±0.2nH/±0.5nH	100	20	250	18	0.028	2100
BWCM001107052N5□H8	2.5	±0.1nH/±0.2nH/±0.5nH/2	100	30	250	15.5	0.03	2100
BWCM001107052N7□H8	2.7	±0.1nH/±0.2nH/±0.5nH/2	100	28	250	14	0.047	1500
BWCM001107053N0□H8	3.0	±0.1nH/±0.2nH/±0.5nH/2	100	20	250	12.5	0.063	1350
BWCM001107053N8□H8	3.8	±0.1nH/±0.2nH/±0.5nH/2	100	35	250	10	0.03	1950
BWCM001107053N9□H8	3.9	±0.1nH/±0.2nH/±0.5nH/2	100	35	250	10	0.03	1950
BWCM001107054N0□H8	4.0	±0.1nH/±0.2nH/±0.5nH/2	100	30	250	10	0.03	1950
BWCM001107054N1□H8	4.1	±0.1nH/±0.2nH/±0.5nH/2	100	30	250	9.6	0.044	1800
BWCM001107054N3□H8	4.3	±0.1nH/±0.2nH/±0.5nH/2	100	32	250	9.6	0.044	1800
BWCM001107054N7□H8	4.7	±0.1nH/±0.2nH/±0.5nH/2	100	31	250	8	0.071	1200
BWCM001107055N8□H8	5.8	±0.1nH/±0.2nH/±0.5nH/2	100	30	250	8	0.04	1770
BWCM001107056N2□H8	6.2	±0.1nH/±0.2nH/±0.5nH/2	100	33	250	8	0.056	1600
BWCM001107056N8□H8	6.8	2 / 5	100	30	250	7	0.068	1450
BWCM001107057N1□H8	7.1	2 / 5	100	32	250	7	0.069	1420
BWCM001107057N8□H8	7.8	2 / 5	100	30	250	7	0.05	1700
BWCM001107057N9□H8	7.9	2 / 5	100	30	250	7	0.05	1700
BWCM001107058N0□H8	8.0	2 / 5	100	30	250	7	0.05	1700
BWCM001107058N2□H8	8.2	2 / 5	100	32	250	6.5	0.069	1500
BWCM001107058N6□H8	8.6	2 / 5	100	31	250	6.5	0.07	1420
BWCM001107058N7□H8	8.7	2 / 5	100	31	250	6.5	0.07	1420
BWCM001107058N8□H8	8.8	2 / 5	100	31	250	6.5	0.07	1420
BWCM001107058N9□H8	8.9	2 / 5	100	31	250	6.5	0.07	1420
BWCM001107059N0□H8	9	2 / 5	100	30	250	6.5	0.07	1420
BWCM001107059N1□H8	9.1	2 / 5	100	32	250	6.5	0.08	1400
BWCM0011070511N□H8	11	2 / 5	100	32	250	6.2	0.083	1400
BWCM0011070515N□H8	15	2 / 5	100	31	250	5.5	0.114	1150
BWCM0011070518N□H8	18	2 / 5	100	30	250	5.2	0.13	1050
BWCM0011070519N□H8	19	2 / 5	100	30	250	5	0.156	920
BWCM0011070520N□H8	20	2 / 5	100	30	250	4.5	0.186	800
BWCM0011070523N□H8	23	2 / 5	100	29	250	4.5	0.201	760
BWCM0011070524N□H8	24	2 / 5	100	31	250	4	0.212	770
BWCM0011070527N□H8	27	2 / 5	100	30	250	4	0.288	680

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , D=±0.5nH , G=±2% , J=±5%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Offset value : -0.556nH
- Measure Equipment :

  L & Q：Agilent E4991A+Agilent HP16197A

  SRF：Agilent HP8753D/Agilent HP8722ES

  RDC：Chroma 16502

  Irms：HP4284A+HP42841A/HP4285A+HP42841A

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Typ.	Test Frequency (MHz)	SRF (GHz) Min	RDC (Ω) Max	Irms (mA) Typ.
BWCM0011070533N□H8	33	2 / 5	100	30	250	3.6	0.336	620
BWCM0011070539N□H8	39	2 / 5	100	28	250	3.4	0.456	530
BWCM0011070547N□H8	47	2 / 5	100	25	200	3.2	0.648	440
BWCM0011070551N□H8	51	2 / 5	100	25	200	2.9	0.696	415
BWCM0011070553N□H8	53	2 / 5	100	25	200	2.9	0.696	415
BWCM0011070556N□H8	56	2 / 5	100	25	200	2.9	0.996	340
BWCM0011070568N□H8	68	2 / 5	100	25	200	2.5	1.128	320
BWCM0011070575N□H8	75	2 / 5	100	25	200	2.4	1.224	320

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , D=±0.5nH , G=±2% , J=±5%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Offset value : -0.556nH
- Measure Equipment :

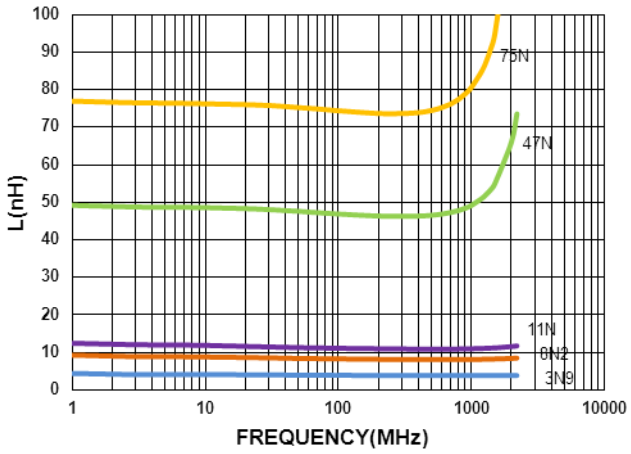
  L & Q：Agilent E4991A+Agilent HP16197A

  SRF：Agilent HP8753D/Agilent HP8722ES

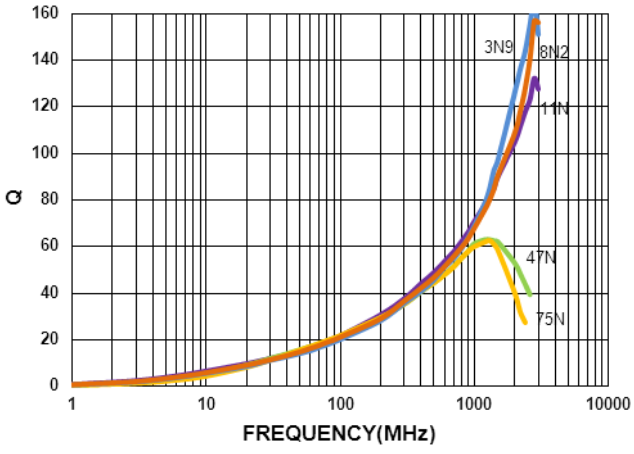
  RDC：Chroma 16502

  Irms：HP4284A+HP42841A/HP4285A+HP42841A

Typical L vs. Frequency



Typical Q vs. Frequency



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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Typ.	Test Frequency (MHz)	SRF (GHz) Min	RDC (Ω) Max	Irms (mA) Typ.
BWCM001107052N2□L8	2.2	±0.1nH/±0.2nH/±0.5nH/2	100	30	250	15.5	0.022	2530
BWCM001107052N4□L8	2.4	±0.1nH/±0.2nH/±0.5nH/2	100	30	250	15.5	0.022	2530
BWCM001107053N3□L8	3.3	±0.1nH/±0.2nH/±0.5nH/2	100	30	250	14	0.03	2000
BWCM001107053N4□L8	3.4	±0.1nH/±0.2nH/±0.5nH/2	100	30	250	10	0.03	1950
BWCM001107053N5□L8	3.5	±0.1nH/±0.2nH/±0.5nH/2	100	30	250	10	0.03	1950
BWCM001107053N6□L8	3.6	±0.1nH/±0.2nH/±0.5nH/2	100	30	250	10	0.03	1950
BWCM001107055N0□L8	5	±0.1nH/±0.2nH/±0.5nH/2	100	32	250	10	0.04	1770
BWCM001107055N1□L8	5.1	±0.1nH/±0.2nH/±0.5nH/2	100	35	250	8	0.04	1770
BWCM001107055N2□L8	5.2	±0.1nH/±0.2nH/±0.5nH/2	100	35	250	8	0.04	1770
BWCM001107055N3□L8	5.3	±0.1nH/±0.2nH/±0.5nH/2	100	35	250	8	0.04	1770
BWCM001107055N4□L8	5.4	±0.1nH/±0.2nH/±0.5nH/2	100	35	250	8	0.04	1770
BWCM001107055N5□L8	5.5	±0.1nH/±0.2nH/±0.5nH/2	100	35	250	8	0.04	1770
BWCM001107055N6□L8	5.6	±0.1nH/±0.2nH/±0.5nH/2	100	35	250	8	0.04	1770
BWCM001107055N7□L8	5.7	±0.1nH/±0.2nH/±0.5nH/2	100	30	250	8	0.04	1770
BWCM001107057N2□L8	7.2	2 / 5	100	32	250	7	0.05	1700
BWCM001107057N3□L8	7.3	2 / 5	100	32	250	7	0.05	1700
BWCM001107057N4□L8	7.4	2 / 5	100	30	250	7	0.05	1700
BWCM001107057N5□L8	7.5	2 / 5	100	35	250	7	0.05	1700
BWCM001107057N6□L8	7.6	2 / 5	100	30	250	7	0.05	1700
BWCM001107057N7□L8	7.7	2 / 5	100	30	250	7	0.05	1700
BWCM001107059N2□L8	9.2	2 / 5	100	32	250	6	0.081	1400
BWCM001107059N3□L8	9.3	2 / 5	100	34	250	6	0.081	1400
BWCM001107059N4□L8	9.4	2 / 5	100	33	250	6	0.081	1400
BWCM001107059N5□L8	9.5	2 / 5	100	32	250	6	0.081	1400
BWCM001107059N6□L8	9.6	2 / 5	100	33	250	6	0.081	1400
BWCM001107059N7□L8	9.7	2 / 5	100	33	250	6	0.081	1400
BWCM001107059N8□L8	9.8	2 / 5	100	34	250	6	0.081	1400
BWCM001107059N9□L8	9.9	2 / 5	100	32	250	6	0.081	1400
BWCM0011070510N□L8	10	2 / 5	100	31	250	6	0.081	1400
BWCM0011070512N□L8	12	2 / 5	100	30	250	5.2	0.093	1240

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , D=±0.5nH , G=±2% , J=±5%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Offset value : -0.556nH
- Measure Equipment :

  L & Q：Agilent E4991A+Agilent HP16197A

  SRF：Agilent HP8753D/Agilent HP8722ES

  RDC：Chroma 16502

  Irms：HP4284A+HP42841A/HP4285A+HP42841A

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

SMD Wire Wound Ceramic Chip Inductors - BWCM Series

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Typ.	Test Frequency (MHz)	SRF (GHz) Min	RDC (Ω) Max	Irms (mA) Typ.
BWCM0011070513N□L8	13	2 / 5	100	30	250	5.2	0.093	1240
BWCM0011070516N□L8	16	2 / 5	100	31	250	5	0.126	1000
BWCM0011070522N□L8	22	2 / 5	100	30	250	4.5	0.202	780
BWCM0011070530N□L8	30	2 / 5	100	30	250	3.8	0.309	660
BWCM0011070536N□L8	36	2 / 5	100	30	250	3.5	0.431	540
BWCM0011070543N□L8	43	2 / 5	100	30	250	3.4	0.516	515

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , D=±0.5nH , G=±2% , J=±5%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Offset value : -0.556nH
- Measure Equipment :

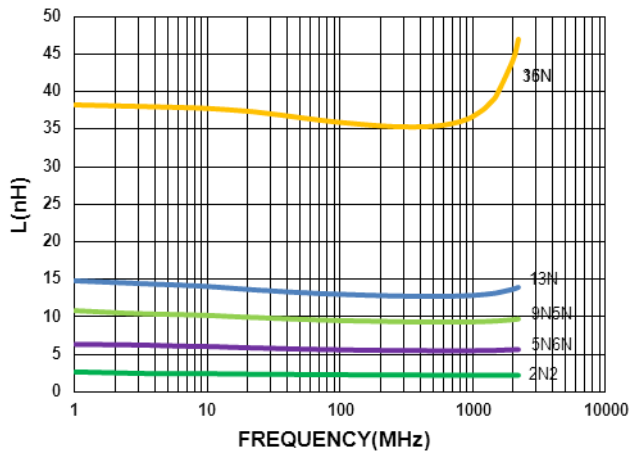
  L & Q：Agilent E4991A+Agilent HP16197A

  SRF：Agilent HP8753D/Agilent HP8722ES

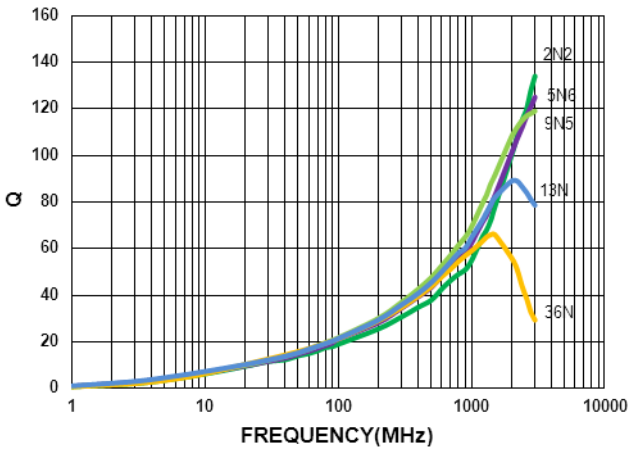
  RDC：Chroma 16502

  Irms：HP4284A+HP42841A/HP4285A+HP42841A

Typical L vs. Frequency



Typical Q vs. Frequency



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Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	Test Frequency (MHz)	SRF (GHz) Min	RDC (Ω) Max	Irms (mA) Max
BWCM001207071N5□00	1.5	±0.1nH/±0.2nH/±0.5nH	100	10	250	18.0	0.03	1000
BWCM001207072N4□00	2.4	±0.1nH/±0.2nH/±0.5nH	100	20	250	15.0	0.05	850
BWCM001207072N5□00	2.5	±0.1nH/±0.2nH/±0.5nH	100	20	250	15.0	0.05	850
BWCM001207072N7□00	2.7	±0.1nH/±0.2nH/±0.5nH	100	20	250	15.0	0.05	850
BWCM001207072N9□00	2.9	±0.1nH/±0.2nH/±0.5nH	100	20	250	15.0	0.07	750
BWCM001207073N9□00	3.9	3 / 5	100	25	250	10.0	0.07	750
BWCM001207074N1□00	4.1	3 / 5	100	25	250	10.0	0.07	750
BWCM001207074N3□00	4.3	3 / 5	100	25	250	10.0	0.07	750
BWCM001207074N7□00	4.7	3 / 5	100	25	250	8.0	0.07	750
BWCM001207075N1□00	5.1	3 / 5	100	25 typ	250	8.0	0.12	600
BWCM001207075N8□00	5.8	3 / 5	100	25	250	8.0	0.12	700
BWCM001207076N2□00	6.2	3 / 5	100	25	250	8.0	0.09	700
BWCM001207076N8□00	6.8	3 / 5	100	25	250	6.0	0.09	700
BWCM001207077N3□00	7.3	3 / 5	100	25	250	6.0	0.13	570
BWCM001207077N5□00	7.5	3 / 5	100	25	250	6.0	0.13	570
BWCM001207078N2□00	8.2	3 / 5	100	25	250	5.5	0.14	540
BWCM001207078N7□00	8.7	3 / 5	100	25	250	5.5	0.14	540
BWCM001207079N1□00	9.1	3 / 5	100	25	250	5.5	0.14	540
BWCM001207079N5□00	9.5	3 / 5	100	25	250	5.5	0.14	540
BWCM0012070710N□00	10	2 / 3 / 5	100	25	250	5.5	0.17	500
BWCM0012070711N□00	11	2 / 3 / 5	100	30	250	5.5	0.14	500
BWCM0012070712N□00	12	2 / 3 / 5	100	30	250	5.5	0.14	500
BWCM0012070713N□00	13	2 / 3 / 5	100	25	250	5.0	0.21	430
BWCM0012070715N□00	15	2 / 3 / 5	100	30	250	5.0	0.16	460
BWCM0012070716N□00	16	2 / 3 / 5	100	25	250	4.5	0.24	370
BWCM0012070718N□00	18	2 / 3 / 5	100	25	250	4.5	0.27	370
BWCM0012070719N□00	19	2 / 3 / 5	100	25	250	4.5	0.27	370
BWCM0012070720N□00	20	2 / 3 / 5	100	25	250	4.0	0.27	370
BWCM0012070722N□00	22	2 / 3 / 5	100	25	250	4.0	0.30	310
BWCM0012070723N□00	23	2 / 3 / 5	100	25	250	3.8	0.30	310
BWCM0012070724N□00	24	2 / 3 / 5	100	25	250	3.5	0.52	280
BWCM0012070727N□00	27	2 / 3 / 5	100	25	250	3.5	0.52	280

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , D=±0.5nH , G=±2% , H=±3% , J=±5%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Measure Equipment :

  L & Q：Agilent E4991A+Agilent HP16197A

  SRF：Agilent HP8753D/Agilent HP8722ES

  RDC：Chroma 16502

  Irms：HP4284A+HP42841A/HP4285A+HP42841A

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	Test Frequency (MHz)	SRF (GHz) Min	RDC (Ω) Max	Irms (mA) Max
BWCM0012070730N□00	30	2 / 3 / 5	100	25	250	3.3	0.58	270
BWCM0012070733N□00	33	2 / 3 / 5	100	25	250	3.2	0.63	260
BWCM0012070736N□00	36	2 / 3 / 5	100	25	250	3.1	0.63	260
BWCM0012070739N□00	39	2 / 3 / 5	100	25	250	3.0	0.70	250
BWCM0012070740N□00	40	2 / 3 / 5	100	25	250	3.0	0.70	250
BWCM0012070747N□00	47	2 / 3 / 5	100	25	200	2.9	1.08	210
BWCM0012070751N□00	51	2 / 3 / 5	100	25	200	2.85	1.08	210
BWCM0012070756N□00	56	2 / 3 / 5	100	25	200	2.80	1.17	200
BWCM0012070762N□00	62	2 / 3 / 5	100	20	200	2.60	1.82	145
BWCM0012070768N□00	68	2 / 3 / 5	100	20	200	2.50	1.96	140
BWCM0012070772N□00	72	2 / 3 / 5	100	20	150	2.50	2.10	135
BWCM0012070775N□00	75	2 / 3 / 5	100	20	150	2.40	2.10	135
BWCM0012070782N□00	82	2 / 3 / 5	100	20	150	2.30	2.24	130
BWCM0012070791N□00	91	2 / 3 / 5	100	20	150	2.10	2.38	125
BWCM00120707R10□00	100	2 / 3 / 5	100	20	150	1.50	2.52	120
BWCM00120707R12□00	120	2 / 3 / 5	100	20	150	1.00	2.66	110

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , D=±0.5nH , G=±2% , H=±3% , J=±5%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Measure Equipment :

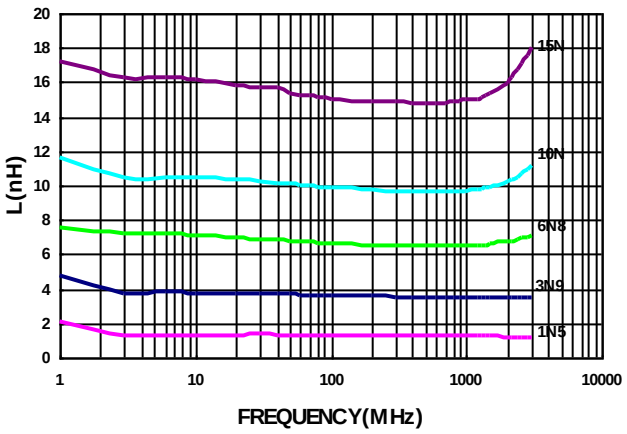
  L & Q：Agilent E4991A+Agilent HP16197A

  SRF：Agilent HP8753D/Agilent HP8722ES

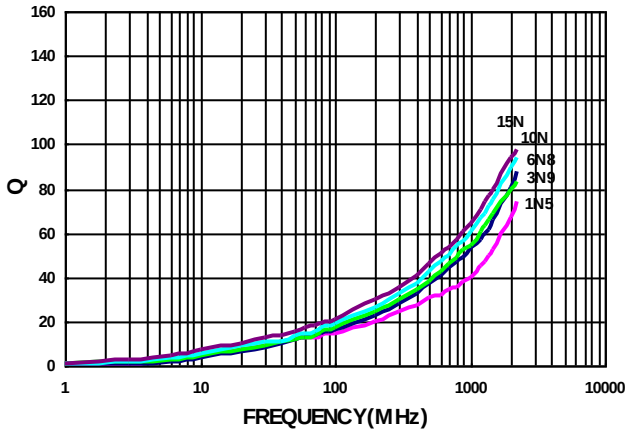
  RDC：Chroma 16502

  Irms：HP4284A+HP42841A/HP4285A+HP42841A

Typical L vs. Frequency



Typical Q vs. Frequency



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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	Test Frequency (MHz)	SRF (GHz) Min	RDC (Ω) Max	Irms (mA) Max
BWCM001610082N2□00	2.2	±0.1nH/±0.2nH/±0.5nH	100	16	250	6.0	0.049	700
BWCM001610083N6□00	3.6	3 / 5	100	25	250	6.0	0.059	850
BWCM001610083N9□00	3.9	3 / 5	100	35	250	6.0	0.059	850
BWCM001610084N3□00	4.3	3 / 5	100	35	250	6.0	0.059	850
BWCM001610084N7□00	4.7	3 / 5	100	35	250	6.0	0.059	850
BWCM001610085N6□00	5.6	3 / 5	100	35	250	6.0	0.082	750
BWCM001610086N2□00	6.2	3 / 5	100	35	250	6.0	0.082	750
BWCM001610086N8□00	6.8	3 / 5	100	35	250	6.0	0.082	750
BWCM001610087N5□00	7.5	3 / 5	100	35	250	6.0	0.082	750
BWCM001610088N2□00	8.2	3 / 5	100	35	250	6.0	0.110	650
BWCM001610088N7□00	8.7	3 / 5	100	35	250	6.0	0.110	650
BWCM001610089N1□00	9.1	3 / 5	100	35	250	6.0	0.110	650
BWCM001610089N5□00	9.5	3 / 5	100	35	250	6.0	0.110	650
BWCM0016100810N□00	10	2 / 3 / 5	100	35	250	6.0	0.110	650
BWCM0016100811N□00	11	2 / 3 / 5	100	35	250	6.0	0.110	650
BWCM0016100812N□00	12	2 / 3 / 5	100	35	250	6.0	0.130	600
BWCM0016100813N□00	13	2 / 3 / 5	100	35	250	6.0	0.130	600
BWCM0016100815N□00	15	2 / 3 / 5	100	40	250	6.0	0.130	600
BWCM0016100816N□00	16	2 / 3 / 5	100	40	250	5.5	0.160	550
BWCM0016100818N□00	18	2 / 3 / 5	100	40	250	5.5	0.160	550
BWCM0016100820N□00	20	2 / 3 / 5	100	40	250	4.9	0.160	550
BWCM0016100822N□00	22	2 / 3 / 5	100	40	250	4.6	0.170	500
BWCM0016100824N□00	24	2 / 3 / 5	100	40	250	3.8	0.210	500
BWCM0016100827N□00	27	2 / 3 / 5	100	40	250	3.7	0.210	440
BWCM0016100830N□00	30	2 / 3 / 5	100	40	250	3.3	0.230	420
BWCM0016100833N□00	33	2 / 3 / 5	100	40	250	3.2	0.230	420
BWCM0016100836N□00	36	2 / 3 / 5	100	40	250	2.9	0.260	400
BWCM0016100839N□00	39	2 / 3 / 5	100	40	250	2.8	0.260	400
BWCM0016100843N□00	43	2 / 3 / 5	100	40	200	2.7	0.290	380
BWCM0016100847N□00	47	2 / 3 / 5	100	38	200	2.6	0.290	380
BWCM0016100851N□00	51	2 / 3 / 5	100	38	200	2.5	0.330	370
BWCM0016100856N□00	56	2 / 3 / 5	100	38	200	2.4	0.350	360

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , D=±0.5nH , G=±2% , H=±3% , J=±5%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Measure Equipment :

  L & Q : Agilent E4991A+Agilent HP16197A

  SRF : Agilent HP8753D/Agilent HP8722ES

  RDC : Chroma 16502

  Irms : HP4284A+HP42841A/HP4285A+HP42841A

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	Test Frequency (MHz)	SRF (GHz) Min	RDC (Ω) Max	Irms (mA) Max
BWCM0016100862N□00	62	2 / 3 / 5	100	38	200	2.3	0.510	280
BWCM0016100868N□00	68	2 / 3 / 5	100	38	200	2.2	0.380	340
BWCM0016100872N□00	72	2 / 3 / 5	100	34	150	2.1	0.560	270
BWCM0016100875N□00	75	2 / 3 / 5	100	34	150	2.05	0.560	270
BWCM0016100882N□00	82	2 / 3 / 5	100	34	150	2.00	0.600	250
BWCM0016100891N□00	91	2 / 3 / 5	100	34	150	1.90	0.640	230
BWCM00161008R10□00	100	2 / 3 / 5	100	34	150	1.80	0.680	220
BWCM00161008R11□00	110	2 / 3 / 5	100	32	150	1.70	1.200	200
BWCM00161008R12□00	120	2 / 3 / 5	100	32	150	1.60	1.300	180
BWCM00161008R13□00	130	2 / 3 / 5	100	32	150	1.45	1.400	170
BWCM00161008R15□00	150	2 / 3 / 5	100	32	150	1.40	1.500	160
BWCM00161008R16□00	160	2 / 3 / 5	100	32	150	1.35	2.100	150
BWCM00161008R18□00	180	2 / 3 / 5	100	25	100	1.30	2.200	140
BWCM00161008R20□00	200	2 / 3 / 5	100	25	100	1.25	2.400	120
BWCM00161008R22□00	220	2 / 3 / 5	100	25	100	1.20	2.500	120
BWCM00161008R27□00	270	2 / 3 / 5	100	30	100	0.96	3.400	110
BWCM00161008R33□00	330	2 / 3 / 5	100	30	100	0.80	5.500	85
BWCM00161008R39□00	390	2 / 3 / 5	100	30	100	0.80	6.200	80
BWCM00161008R47□00	470	2 / 3 / 5	100	30	100	0.70	7.000	75

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , D=±0.5nH , G=±2% , H=±3% , J=±5%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Measure Equipment :

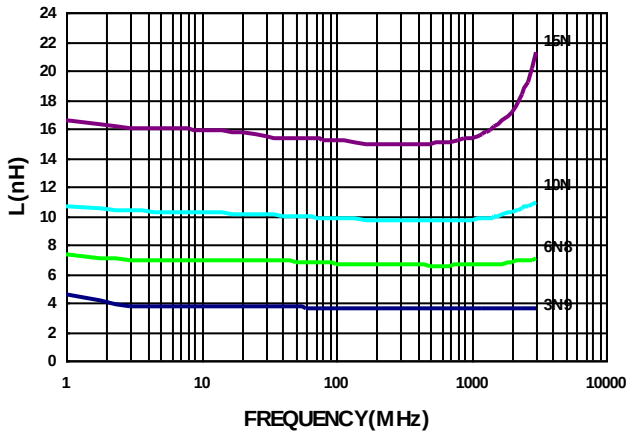
  L & Q : Agilent E4991A+Agilent HP16197A

  SRF : Agilent HP8753D/Agilent HP8722ES

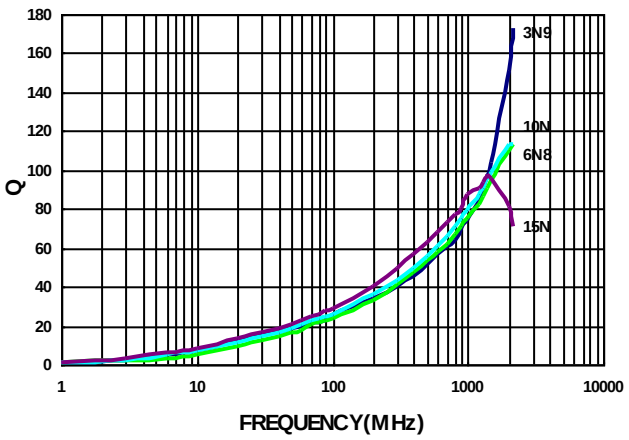
  RDC : Chroma 16502

  Irms : HP4284A+HP42841A/HP4285A+HP42841A

Typical L vs. Frequency



Typical Q vs. Frequency



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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	Test Frequency (MHz)	SRF (GHz) Min	RDC (Ω) Max	Irms (mA) Typ.
BWCM00181010R10□H8	100	2 / 5	100	34	150	1.75	0.63	490
BWCM00181010R11□H8	110	2 / 5	100	32	150	1.73	0.7	450
BWCM00181010R12□H8	120	2 / 5	100	32	150	1.65	0.72	450
BWCM00181010R15□H8	150	2 / 5	100	28	150	1.58	0.87	420
BWCM00181010R18□H8	180	2 / 5	100	25	100	1.38	1.65	310
BWCM00181010R20□H8	200	2 / 5	100	25	100	1.35	1.74	290
BWCM00181010R21□H8	210	2 / 5	100	27	100	1.33	1.98	280
BWCM00181010R22□H8	220	2 / 5	100	25	100	1.33	2.08	280
BWCM00181010R25□H8	250	2 / 5	100	24	100	1.33	2.28	250
BWCM00181010R27□H8	270	2 / 5	100	24	100	1.25	2.42	260
BWCM00181010R30□H8	300	2 / 5	100	25	100	1.2	3.12	220
BWCM00181010R33□H8	330	2 / 5	100	25	100	1.1	3.84	190
BWCM00181010R36□H8	360	2 / 5	100	25	100	1.05	3.98	190
BWCM00181010R39□H8	390	2 / 5	100	25	100	1	4.23	190

Note: When ordering, please specify tolerance code. Tolerance : G=±2% , J=±5%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Offset value : -0.771nH
- Measure Equipment :

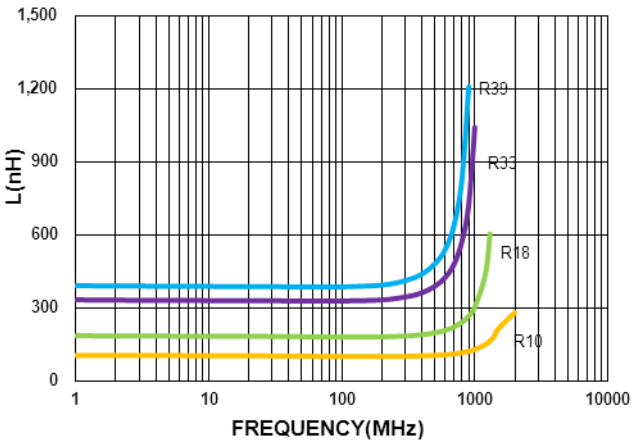
  L & Q：Agilent E4991A+Agilent HP16197A

  SRF：Agilent HP8753D/Agilent HP8722ES

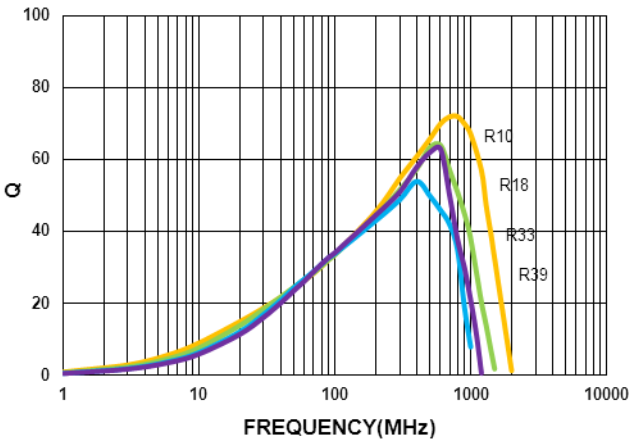
  RDC：Chroma 16502

  Irms：HP4284A+HP42841A/HP4285A+HP42841A

Typical L vs. Frequency



Typical Q vs. Frequency



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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	Test Frequency (MHz)	SRF (GHz) Min	RDC (Ω) Max	Irms (mA) Typ.
BWCM001810102N2□L8	2.2	±0.2nH	100	24	250	15	0.018	3200
BWCM001810102N4□L8	2.4	±0.2nH	100	18	250	15	0.026	2400
BWCM001810103N9□L8	3.9	±0.1nH/±0.2nH/ 2	100	30	250	10	0.028	2200
BWCM001810104N3□L8	4.3	±0.1nH/±0.2nH/ 2	100	35	250	11.6	0.036	2100
BWCM001810104N7□L8	4.7	±0.1nH/±0.2nH/ 2	100	25	250	10.4	0.054	1500
BWCM001810104N9□L8	4.9	±0.1nH/±0.2nH/ 2	100	23	250	7.3	0.081	1200
BWCM001810105N6□L8	5.6	±0.2nH/ 2	100	38	250	6.65	0.04	1900
BWCM001810106N8□L8	6.8	±0.2nH/ 2	100	40	250	6.65	0.04	1900
BWCM001810107N5□L8	7.5	±0.2nH/ 2	100	35	250	7	0.048	1500
BWCM001810108N2□L8	8.2	±0.2nH/ 2	100	38	250	4.75	0.052	1600
BWCM001810108N7□L8	8.7	±0.2nH/ 2	100	38	250	4.75	0.052	1600
BWCM001810109N1□L8	9.1	±0.2nH/ 2	100	38	250	4.75	0.052	1600
BWCM001810109N5□L8	9.5	±0.2nH/ 2	100	38	250	4.75	0.052	1600
BWCM0018101010N□L8	10	2 / 5	100	38	250	4.75	0.052	1600
BWCM0018101011N□L8	11	2 / 5	100	40	250	4.75	0.052	1600
BWCM0018101012N□L8	12	2 / 5	100	37	250	5	0.064	1500
BWCM0018101013N□L8	13	2 / 5	100	37	250	5	0.064	1500
BWCM0018101015N□L8	15	2 / 5	100	38	250	4.6	0.075	1400
BWCM0018101016N□L8	16	2 / 5	100	40	250	4.6	0.075	1400
BWCM0018101018N□L8	18	2 / 5	100	40	250	4.6	0.075	1400
BWCM0018101022N□L8	22	2 / 5	100	40	250	3.45	0.086	1300
BWCM0018101023N□L8	23	2 / 5	100	40	250	3.45	0.086	1300
BWCM0018101024N□L8	24	2 / 5	100	40	250	3.45	0.086	1300
BWCM0018101027N□L8	27	2 / 5	100	40	250	3.6	0.098	1200
BWCM0018101028N□L8	28	2 / 5	100	40	250	3.6	0.098	1200
BWCM0018101030N□L8	30	2 / 5	100	40	250	2.88	0.12	1100
BWCM0018101033N□L8	33	2 / 5	100	40	250	3.15	0.11	1100
BWCM0018101036N□L8	36	2 / 5	100	37	250	3	0.2	910
BWCM0018101039N□L8	39	2 / 5	100	40	250	3.28	0.16	1000
BWCM0018101043N□L8	43	2 / 5	100	40	250	2.78	0.21	840

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , G=±2% , J=±5%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Offset value : -0.771nH
- Measure Equipment :

  L & Q：Agilent E4991A+Agilent HP16197A

  SRF：Agilent HP8753D/Agilent HP8722ES

  RDC：Chroma 16502

  Irms：HP4284A+HP42841A/HP4285A+HP42841A

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

SMD Wire Wound Ceramic Chip Inductors - BWCM Series

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	Test Frequency (MHz)	SRF (GHz) Min	RDC (Ω) Max	Irms (mA) Typ.
BWCM0018101047N□L8	47	2 / 5	100	32	200	2.7	0.23	830
BWCM0018101051N□L8	51	2 / 5	100	32	200	2.7	0.23	830
BWCM0018101056N□L8	56	2 / 5	100	38	200	2.6	0.26	770
BWCM0018101068N□L8	68	2 / 5	100	37	200	2.38	0.38	630
BWCM0018101072N□L8	72	2 / 5	100	34	150	2.33	0.47	560
BWCM0018101075N□L8	75	2 / 5	100	28	150	2.28	0.41	590
BWCM0018101082N□L8	82	2 / 5	100	34	150	2.23	0.5	550
BWCM0018101091N□L8	91	2 / 5	100	33	150	1.9	0.54	520

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , G=±2% , J=±5%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Offset value : -0.771nH
- Measure Equipment :

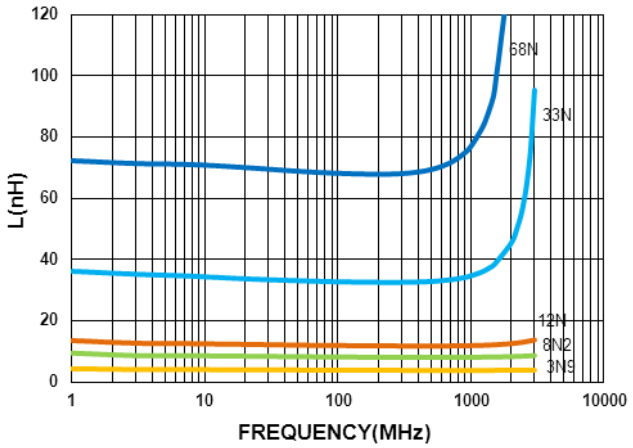
  L & Q：Agilent E4991A+Agilent HP16197A

  SRF：Agilent HP8753D/Agilent HP8722ES

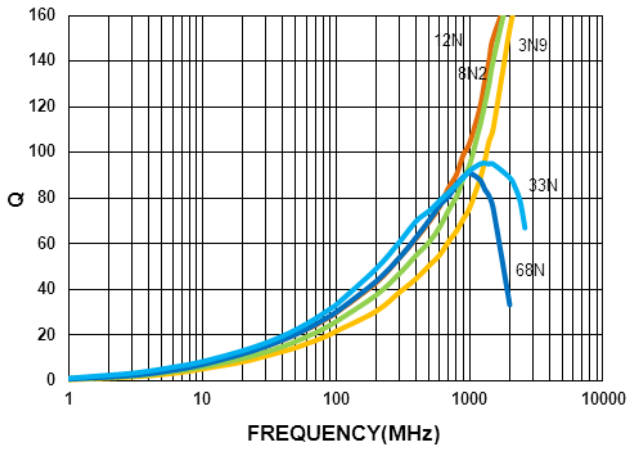
  RDC：Chroma 16502

  Irms：HP4284A+HP42841A/HP4285A+HP42841A

Typical L vs. Frequency



Typical Q vs. Frequency



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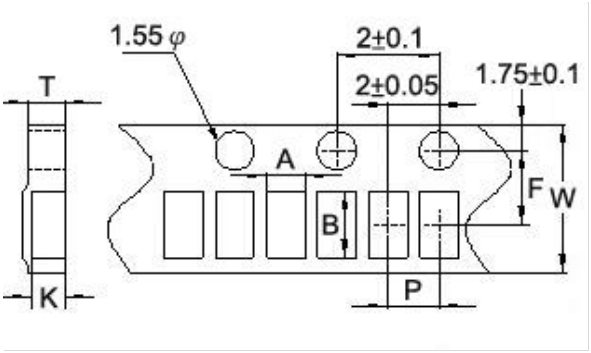
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions

Figure 1



Tape Material

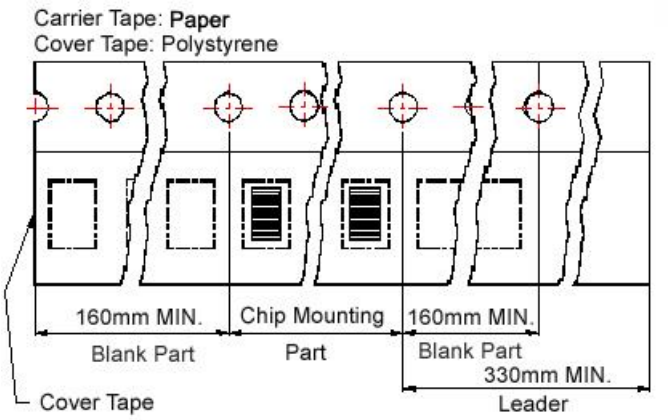
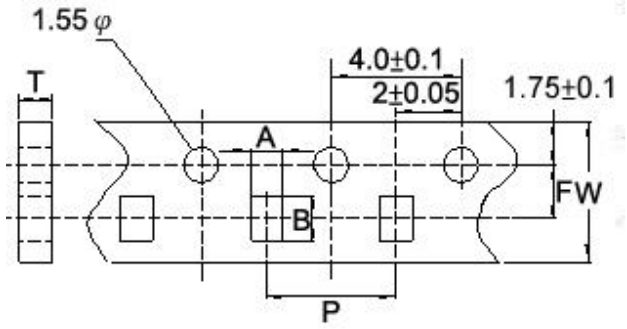
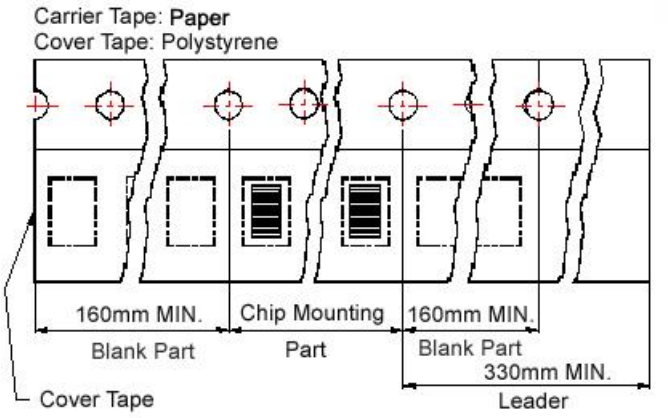
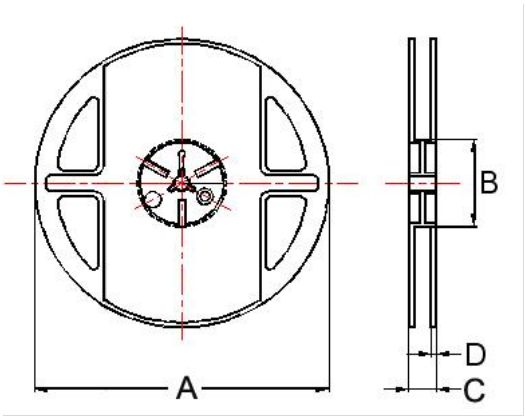


Figure 2





Reel Dimensions



Dimensions in mm

TYPE	Fig.	Tape Dimensions							Reel Dimensions				Quantity
		A	B	T	W	P	F	K	A	B	C	D	PCS / Reel
BWCM00060404	1	0.79	0.89	0.65	8	2	3.5	0.45	178	60	12	1.5	4000
BWCM00110705	1	0.85	1.25	0.75	8	2	3.5	0.60	178	60	12	1.5	4000
BWCM00120707	1	0.67	1.20	0.75	8	2	3.5	0.59	178	60	12	1.5	4000
BWCM00161008	2	1.20	1.80	1.05	8	4	3.5	-	178	60	12	1.5	4000
BWCM00181010	2	1.20	2.00	1.10	8	4	3.5	-	178	60	12	1.5	4000

BWCS Series

Due to accurate wire winding technology, these chip inductors are designed for filtering, impedance matching, resonance and choke circuits for RF designer. Both standard series custom designs are available.

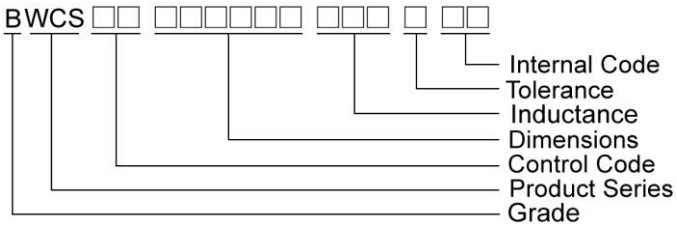
Features

- RoHS Compliant
- Ceramic body and wire wound construction provide high SRFs
- Exceptional Q values even at high frequencies
- Highest possible SRFs as well as excellent Q values
- The non-magnetic coil form assures utmost thermal stability, predictability and batch consistency
- CS series is standard for RF designers

Applications

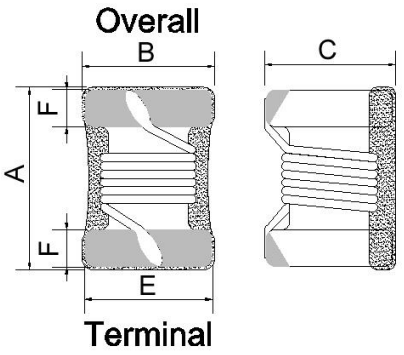
- RF products for cellular phone
- GPS receiver
- Base Station
- Repeater
- Wireless LAN/ mouse/ keyboard/ earphone
- Remote control
- Security system and other RF modules

Product Identification

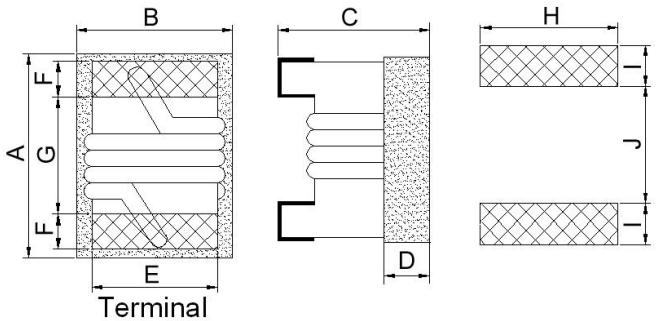


Shape and Dimensions / Recommended Pattern

BWCS00060404



BWCS00120707

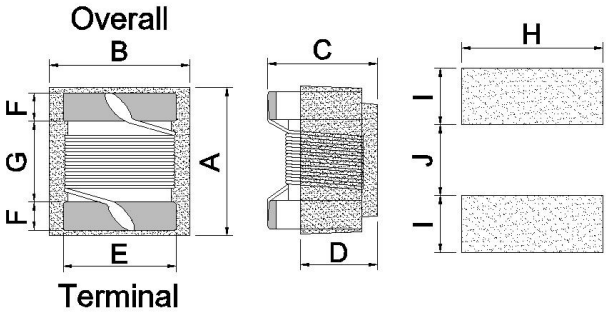


Dimensions

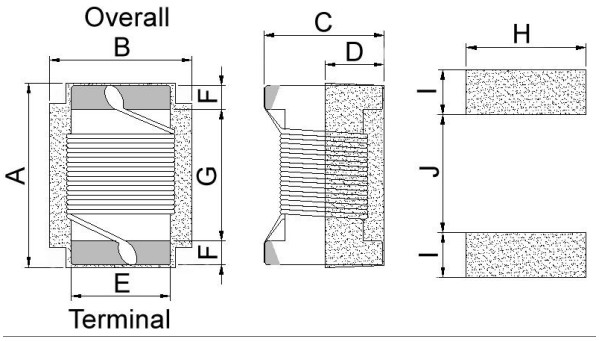
		A Max	B Max	C Max	D	E	F	G	H	I	J
BWCS00060404	inch	0.023	0.018	0.018	-	0.015	0.004	-	0.018	0.007	0.009
	mm	0.58	0.46	0.45	-	0.38	0.1	-	0.46	0.18	0.23
BWCS00120707	inch	0.047	0.025	0.026	0.010	0.020	0.009	0.022	0.026	0.014	0.018
	mm	1.19	0.64	0.66	0.25	0.51	0.23	0.56	0.66	0.36	0.46

SMD Wire Wound Ceramic Chip Inductors - BWCS Series

BWCS00161008/ 231715/ 292821



BWCS00493834



Dimensions

		A	B	C	D	E	F	G	H	I	J
BWCS00161008	mm	$1.6^{+0.2}_{-0.1}$	1.02±0.1	$0.82^{+0.2}_{-0.1}$	0.51	0.76	0.33	0.86	1.02	0.64	0.64

		A Max	B Max	C Max	D	E	F	G	H	I	J
BWCS00231715	inch	0.093	0.068	0.06	0.028	0.050	0.020	0.040	0.070	0.040	0.030
	mm	2.35	1.73	1.52	0.71	1.27	0.51	1.02	1.78	1.02	0.76
BWCS00292821	inch	0.115	0.110	0.083	0.046	0.080	0.020	0.060	0.100	0.040	0.050
	mm	2.92	2.79	2.1	1.16	2.03	0.51	1.52	2.54	1.02	1.27
BWCS00493834	inch	0.197	0.154	0.135	0.07	0.1	0.025	0.128	0.12	0.045	0.118
	mm	4.95	3.81	3.43	1.78	2.54	0.64	3.25	3.05	1.14	3.00

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	SRF (GHz) Typ	RDC (Ω) Max	Irms (mA) Typ
BWCS000604040N5□00	0.5	10	250	4	23.5	0.02	1250
BWCS000604040N6□00	0.6	10	250	6	24.5	0.03	1000
BWCS000604041N2□00	1.2	5	250	13	17.9	0.042	870
BWCS000604041N3□00	1.3	5	250	11	17.6	0.048	820
BWCS000604041N4□00	1.4	5	250	14	17	0.08	630
BWCS000604041N5□00	1.5	5	250	11	17	0.09	600
BWCS000604042N2□00	2.2	5	250	15	16.7	0.07	700
BWCS000604042N3□00	2.3	5	250	18	16.5	0.07	670
BWCS000604042N4□00	2.4	5	250	13	13	0.082	620
BWCS000604042N5□00	2.5	5	250	16	12.5	0.165	440
BWCS000604043N3□00	3.3	5	250	14	12.8	0.08	630
BWCS000604043N4□00	3.4	5	250	11	12.7	0.08	630
BWCS000604043N5□00	3.5	5	250	16	12.4	0.08	630
BWCS000604043N6□00	3.6	5	250	18	12.5	0.105	550
BWCS000604043N7□00	3.7	5	250	15	10.6	0.105	550
BWCS000604043N8□00	3.8	5	250	16	10.2	0.18	420
BWCS000604043N9□00	3.9	5	250	12	11.2	0.24	360
BWCS000604044N8□00	4.8	5	250	17	11	0.096	570
BWCS000604044N9□00	4.9	5	250	18	11.7	0.13	510
BWCS000604045N0□00	5.0	5	250	18	11.5	0.13	510
BWCS000604045N1□00	5.1	5	250	18	11.1	0.13	510
BWCS000604045N2□00	5.2	5	250	18	10	0.17	430
BWCS000604045N3□00	5.3	5	250	18	10.6	0.13	510
BWCS000604045N4□00	5.4	5	250	18	10.2	0.13	510
BWCS000604045N5□00	5.5	5	250	16	9.5	0.285	330
BWCS000604046N7□00	6.7	5	250	18	6.8	0.15	460
BWCS000604046N8□00	6.8	5	250	18	9.5	0.15	460
BWCS000604046N9□00	6.9	5	250	18	9.3	0.15	460
BWCS000604047N0□00	7.0	5	250	18	6.7	0.21	390
BWCS000604047N1□00	7.1	5	250	18	9.5	0.25	390
BWCS000604047N2□00	7.2	5	250	18	9.4	0.25	390
BWCS000604047N3□00	7.3	5	250	18	9.3	0.25	390

Note: When ordering, please specify tolerance code. Tolerance : J=±5% , K=±10%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
  L & Q：HP4286A/HP4287A/AgilentE4991/Keysight E4982A
  SRF：Agilent HP8753D/Agilent HP8722ES
  RDC：HP4287A
  Irms：HP4284A+HP42841A/HP4285A+HP42841A

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Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	SRF (GHz) Typ	RDC (Ω) Max	Irms (mA) Typ
BWCS000604047N4□00	7.4	5	250	18	9.1	0.25	390
BWCS000604047N5□00	7.5	5	250	15	6.8	0.34	300
BWCS000604047N6□00	7.6	5	250	17	9.3	0.3	340
BWCS000604047N7□00	7.7	5	250	17	9.2	0.3	340
BWCS000604047N8□00	7.8	5	250	17	9.2	0.3	340
BWCS000604047N9□00	7.9	5	250	17	9.1	0.3	340
BWCS000604048N0□00	8.0	5	250	17	9.2	0.3	340
BWCS000604048N1□00	8.1	5	250	17	9.1	0.3	340
BWCS000604048N2□00	8.2	5	250	17	6.4	0.27	340
BWCS000604048N4□00	8.4	5	250	15	8.9	0.38	300
BWCS000604048N5□00	8.5	5	250	15	8.9	0.38	300
BWCS000604048N7□00	8.7	5	250	15	6.3	0.38	300
BWCS000604049N0□00	9.0	5	250	15	6.4	0.38	300
BWCS000604049N4□00	9.4	5	250	16	6.4	0.4	280
BWCS000604049N6□00	9.6	5	250	16	6.2	0.4	280
BWCS0006040411N□00	11	5	250	16	5.7	0.44	280
BWCS0006040412N□00	12	5	250	17	5.6	0.36	300
BWCS0006040413N□00	13	5	250	16	6.7	0.5	270
BWCS0006040414N□00	14	5	250	16	5.1	0.5	270

Note: When ordering, please specify tolerance code. Tolerance : J=±5% , K=±10%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

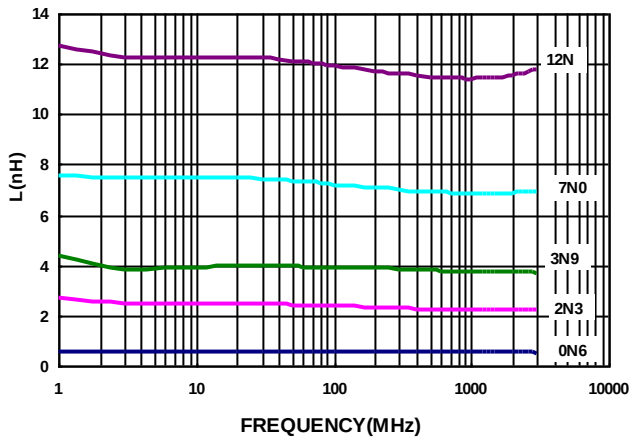
  L & Q：HP4286A/HP4287A/AgilentE4991/Keysight E4982A

  SRF：Agilent HP8753D/Agilent HP8722ES

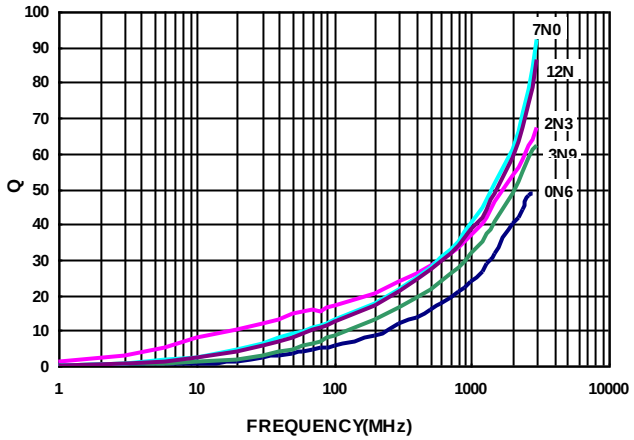
  RDC：HP4287A

  Irms：HP4284A+HP42841A/HP4285A+HP42841A

Typical L vs. Frequency



Typical Q vs. Frequency



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Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	SRF (GHz) Min	RDC (Ω) Max	Irms (mA) Max
BWCS001207071N0□00	1.0	10 / 5 / ±0.1nH	250	16	12.7	0.045	1360
BWCS001207071N2□00	1.2	10 / 5 / ±0.1nH	250	10	10.4	0.140	640
BWCS001207071N3□00	1.3	10 / ±0.1nH	250	10	10.4	0.140	640
BWCS001207071N9□00	1.9	10 / 5 / ±0.1nH	250	16	11.3	0.070	1040
BWCS001207072N0□00	2.0	10 / 5 / ±0.1nH	250	16	11.1	0.070	1040
BWCS001207072N2□00	2.2	10 / 5 / ±0.1nH	250	19	10.8	0.070	960
BWCS001207072N4□00	2.4	10 / 5 / ±0.1nH	250	15	10.5	0.068	790
BWCS001207072N5□00	2.5	10 / 5 / ±0.1nH	250	13	10.4	0.150	640
BWCS001207072N7□00	2.7	10 / 5 / ±0.1nH	250	16	10.4	0.120	640
BWCS001207073N3□00	3.3	10 / 5 / 3	250	19	7.00	0.066	840
BWCS001207073N6□00	3.6	10 / 5 / 3	250	19	6.80	0.066	840
BWCS001207073N9□00	3.9	10 / 5 / 3	250	19	6.00	0.066	840
BWCS001207074N3□00	4.3	10 / 5 / 3	250	18	6.00	0.091	700
BWCS001207074N7□00	4.7	10 / 5 / 3	250	15	4.77	0.130	640
BWCS001207075N1□00	5.1	10 / 5 / 3	250	20	4.80	0.083	800
BWCS001207075N6□00	5.6	10 / 5 / 3	250	20	4.80	0.083	760
BWCS001207075N8□00	5.8	10 / 5 / 3	250	20	4.80	0.083	760
BWCS001207076N2□00	6.2	10 / 5 / 3	250	20	4.80	0.083	760
BWCS001207076N8□00	6.8	10 / 5 / 3	250	20	4.80	0.083	680
BWCS001207077N3□00	7.3	10 / 5 / 3	250	20	4.80	0.12	680
BWCS001207077N5□00	7.5	10 / 5 / 3	250	22	4.80	0.10	680
BWCS001207078N2□00	8.2	10 / 5 / 3	250	22	4.40	0.10	680
BWCS001207078N7□00	8.7	10 / 5 / 3	250	18	4.10	0.20	480
BWCS001207079N0□00	9.0	10 / 5 / 3	250	22	4.16	0.10	680
BWCS001207079N1□00	9.1	10 / 5 / 3	250	22	4.16	0.10	680
BWCS001207079N5□00	9.5	10 / 5 / 3	250	18	4.00	0.20	480
BWCS0012070710N□00	10	10 / 5 / 3 / 2	250	21	3.90	0.20	480
BWCS0012070711N□00	11	10 / 5 / 3 / 2	250	24	3.68	0.12	640
BWCS0012070712N□00	12	10 / 5 / 3 / 2	250	24	3.60	0.12	640
BWCS0012070713N□00	13	10 / 5 / 3 / 2	250	24	3.45	0.21	440
BWCS0012070715N□00	15	10 / 5 / 3 / 2	250	24	3.28	0.17	560
BWCS0012070716N□00	16	10 / 5 / 3 / 2	250	24	3.10	0.22	560

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , G=±2% , H=±3% , J=±5% , K=±10%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

  L & Q：Agilent E4991A+Agilent HP16197A

  SRF：Agilent HP8753D/Agilent HP8722ES

  RDC：HP4287A

  Irms：HP4284A+HP42841A/HP4285A+HP42841A

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Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	SRF (GHz) Min	RDC (Ω) Max	Irms (mA) Max
BWCS0012070718N□00	18	10 / 5 / 3 / 2	250	25	3.10	0.23	420
BWCS0012070719N□00	19	10 / 5 / 3 / 2	250	24	3.04	0.20	480
BWCS0012070720N□00	20	10 / 5 / 3 / 2	250	25	3.00	0.25	420
BWCS0012070722N□00	22	10 / 5 / 3 / 2	250	25	2.80	0.30	400
BWCS0012070723N□00	23	10 / 5 / 3 / 2	250	22	2.72	0.30	400
BWCS0012070724N□00	24	10 / 5 / 3 / 2	250	25	2.70	0.30	400
BWCS0012070727N□00	27	10 / 5 / 3 / 2	250	24	2.48	0.30	400
BWCS0012070730N□00	30	10 / 5 / 3 / 2	250	25	2.35	0.35	400
BWCS0012070733N□00	33	10 / 5 / 3 / 2	250	24	2.35	0.40	400
BWCS0012070736N□00	36	10 / 5 / 3 / 2	250	24	2.32	0.44	320
BWCS0012070739N□00	39	10 / 5 / 3 / 2	250	25	2.10	0.55	200
BWCS0012070740N□00	40	10 / 5 / 3 / 2	250	24	2.24	0.65	320
BWCS0012070743N□00	43	10 / 5 / 3 / 2	250	25	2.03	0.81	100
BWCS0012070747N□00	47	10 / 5 / 3 / 2	250	20	2.10	0.83	150
BWCS0012070751N□00	51	10 / 5 / 3 / 2	250	25	1.75	0.82	100
BWCS0012070756N□00	56	10 / 5 / 3 / 2	250	22	1.76	0.97	100
BWCS0012070768N□00	68	10 / 5 / 3 / 2	250	22	1.62	1.12	100
BWCS0012070782N□00	82	10 / 5 / 3 / 2	250	20	1.26	1.55	50
BWCS00120707R10□00	100	10 / 5 / 3 / 2	250	20	1.16	2.00	30
BWCS00120707R18□00	180	10 / 5 / 3 / 2	100	8	0.70	2.70	50
BWCS00120707R22□00	220	10 / 5 / 3 / 2	100	8	0.70	4.00	50

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , G=±2% , H=±3% , J=±5% , K=±10%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

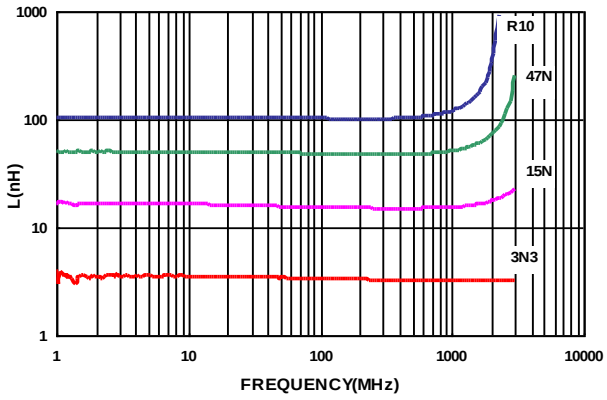
  L & Q：Agilent E4991A+Agilent HP16197A

  SRF：Agilent HP8753D/Agilent HP8722ES

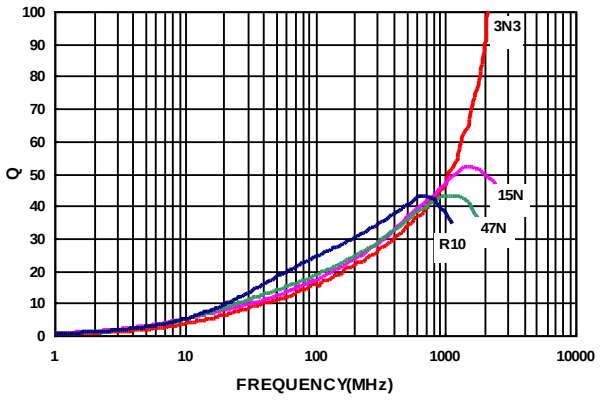
  RDC：HP4287A

  Irms：HP4284A+HP42841A/HP4285A+HP42841A

Typical L vs. Frequency



Typical Q vs. Frequency



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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	SRF (MHz) Min	RDC (Ω) Max	Irms (mA) Max	Color
BWCS001610081N6□00	1.6	10 / 5 / ±0.1nH	250	24	12500	0.030	700	Red
BWCS001610081N8□00	1.8	10 / 5 / ±0.1nH	250	16	12500	0.045	700	Black
BWCS001610082N2□00	2.2	10 / 5 / ±0.1nH	250	13	12500	0.250	700	Yellow
BWCS001610083N3□00	3.3	10 / 5 / 3 / 2	250	35	5900	0.045	700	Blue
BWCS001610083N6□00	3.6	10 / 5 / 3 / 2	250	22	5900	0.063	700	Red
BWCS001610083N9□00	3.9	10 / 5 / 3 / 2	250	22	6900	0.080	700	Brown
BWCS001610084N3□00	4.3	10 / 5 / 3 / 2	250	22	5900	0.063	700	Orange
BWCS001610084N7□00	4.7	10 / 5 / 3 / 2	250	20	5800	0.116	700	Violet
BWCS001610085N1□00	5.1	10 / 5 / 3 / 2	250	20	5700	0.140	700	Green
BWCS001610085N6□00	5.6	10 / 5 / 3 / 2	250	20	5800	0.170	700	Yellow
BWCS001610086N3□00	6.3	10 / 5 / 3 / 2	250	20	5700	0.140	700	White
BWCS001610086N8□00	6.8	10 / 5 / 3 / 2	250	27	5800	0.110	700	Red
BWCS001610087N5□00	7.5	10 / 5 / 3 / 2	250	28	4800	0.106	700	Brown
BWCS001610088N2□00	8.2	10 / 5 / 3 / 2	250	28	4700	0.109	700	White
BWCS001610088N7□00	8.7	10 / 5 / 3 / 2	250	28	4600	0.109	700	Yellow
BWCS001610089N1□00	9.1	10 / 5 / 3 / 2	250	28	4800	0.120	700	Violet
BWCS001610089N5□00	9.5	10 / 5 / 3 / 2	250	28	5400	0.135	700	Blue
BWCS0016100810N□00	10	10 / 5 / 3 / 2	250	31	4800	0.130	700	Orange
BWCS0016100811N□00	11	10 / 5 / 3 / 2	250	33	4000	0.086	700	Gray
BWCS0016100812N□00	12	10 / 5 / 3 / 2	250	35	4000	0.130	700	Yellow
BWCS0016100813N□00	13	10 / 5 / 3 / 2	250	30	4000	0.160	700	Black
BWCS0016100815N□00	15	10 / 5 / 3 / 2	250	35	4000	0.170	700	Green
BWCS0016100816N□00	16	10 / 5 / 3 / 2	250	34	3300	0.104	700	White
BWCS0016100818N□00	18	10 / 5 / 3 / 2	250	35	3100	0.170	700	Blue
BWCS0016100820N□00	20	10 / 5 / 3 / 2	250	38	3000	0.190	700	Red
BWCS0016100822N□00	22	10 / 5 / 3 / 2	250	38	3000	0.190	700	Violet
BWCS0016100823N□00	23	10 / 5 / 3 / 2	250	38	2850	0.190	700	Orange
BWCS0016100824N□00	24	10 / 5 / 3 / 2	250	37	2650	0.135	700	Black
BWCS0016100827N□00	27	10 / 5 / 3 / 2	250	40	2800	0.220	600	Gray
BWCS0016100830N□00	30	10 / 5 / 3 / 2	250	37	2250	0.144	600	Brown
BWCS0016100833N□00	33	10 / 5 / 3 / 2	250	40	2300	0.220	600	White
BWCS0016100836N□00	36	10 / 5 / 3 / 2	250	38	2080	0.250	600	Red
BWCS0016100839N□00	39	10 / 5 / 3 / 2	250	40	2200	0.250	600	Black
BWCS0016100843N□00	43	10 / 5 / 3 / 2	250	39	2000	0.280	600	Orange

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , G=±2% , H=±3% , J=±5% , K=±10%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
  L & Q：Agilent E4991A+Agilent HP16197A
  SRF：Agilent HP8753D/Agilent E4991A
  RDC：Chroma 16502
  Irms：HP4284A+HP42841A/HP4285A+HP42841A

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

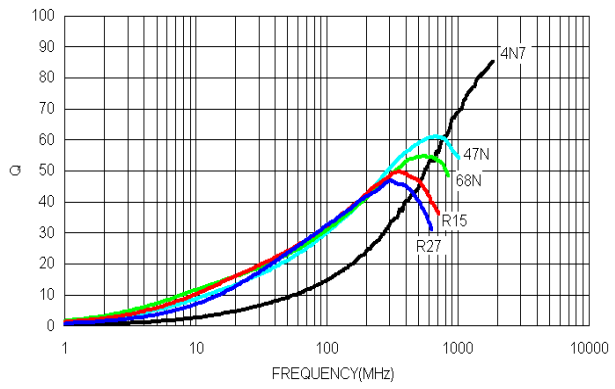
Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	SRF (MHz) Min	RDC (Ω) Max	Irms (mA) Max	Color
BWCS0016100847N□00	47	10 / 5 / 3 / 2	200	38	2000	0.280	600	Brown
BWCS0016100851N□00	51	10 / 5 / 3 / 2	200	38	1900	0.310	600	Brown
BWCS0016100856N□00	56	10 / 5 / 3 / 2	200	38	1900	0.310	600	Red
BWCS0016100868N□00	68	10 / 5 / 3 / 2	200	37	1700	0.340	600	Orange
BWCS0016100872N□00	72	10 / 5 / 3 / 2	150	34	1700	0.490	400	Yellow
BWCS0016100882N□00	82	10 / 5 / 3 / 2	150	34	1700	0.540	400	Green
BWCS0016100891N□00	91	10 / 5 / 3 / 2	150	34	1400	0.580	400	Black
BWCS00161008R10□00	100	10 / 5 / 3 / 2	150	34	1400	0.580	400	Blue
BWCS00161008R11□00	110	10 / 5 / 3 / 2	150	32	1350	0.610	300	Violet
BWCS00161008R12□00	120	10 / 5 / 3 / 2	150	32	1300	0.750	300	Gray
BWCS00161008R15□00	150	10 / 5 / 3 / 2	150	28	990	0.920	280	White
BWCS00161008R16□00	160	10 / 5 / 3 / 2	100	25	990	1.250	240	Yellow
BWCS00161008R18□00	180	10 / 5 / 3 / 2	100	25	990	1.250	240	Black
BWCS00161008R20□00	200	10 / 5 / 3 / 2	100	25	900	2.100	200	Red
BWCS00161008R21□00	210	10 / 5 / 3 / 2	100	27	895	2.060	200	Gray
BWCS00161008R22□00	220	10 / 5 / 3 / 2	100	25	900	2.100	200	Brown
BWCS00161008R24□00	240	10 / 5 / 3 / 2	100	25	900	2.200	200	Green
BWCS00161008R25□00	250	10 / 5 / 3 / 2	100	25	822	3.550	120	Violet
BWCS00161008R27□00	270	10 / 5 / 3 / 2	100	24	900	2.800	170	Red
BWCS00161008R33□00	330	10 / 5 / 3 / 2	100	25	900	3.890	100	Orange
BWCS00161008R39□00	390	10 / 5 / 3 / 2	100	25	900	4.350	100	Yellow
BWCS00161008R47□00	470	10 / 5 / 3 / 2	100	25	500	4.500	100	Brown
BWCS00161008R56□00	560	10 / 5 / 3 / 2	100	23	460	4.700	90	Blue

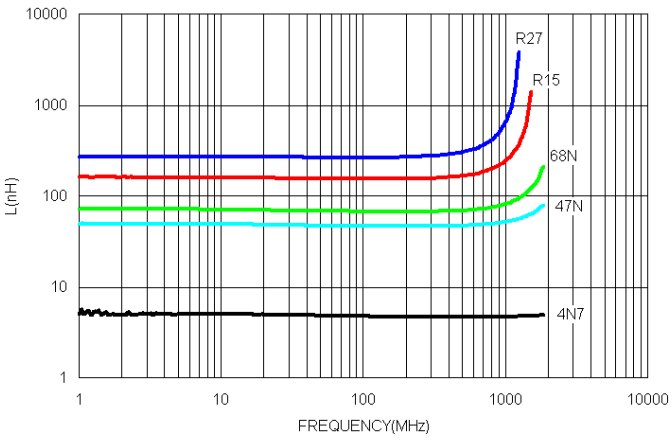
Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , G=±2% , H=±3% , J=±5% , K=±10%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
  L & Q：Agilent E4991A+Agilent HP16197A
  SRF：Agilent HP8753D/Agilent E4991A
  RDC：Chroma 16502
  Irms：HP4284A+HP42841A/HP4285A+HP42841A

Typical L vs. Frequency



Typical Q vs. Frequency



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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	Irms (mA) Max	Color
BWCS002317152N7□00	2.7	10 / 5 / 2	250	50	1500	7900	0.06	800	Yellow
BWCS002317152N8□00	2.8	10 / 5 / 2	250	80	1500	7900	0.06	800	Gray
BWCS002317153N0□00	3.0	10 / 5 / 2	250	65	1500	7900	0.06	800	White
BWCS002317153N3□00	3.3	10 / 5 / 2	250	50	1500	7900	0.08	600	Black
BWCS002317155N6□00	5.6	10 / 5 / 2	250	65	1000	5500	0.08	600	Orange
BWCS002317156N8□00	6.8	10 / 5 / 2	250	50	1000	5500	0.11	600	Brown
BWCS002317157N5□00	7.5	10 / 5 / 2	250	50	1000	4500	0.14	600	Green
BWCS002317158N2□00	8.2	10 / 5 / 2	250	50	1000	4700	0.12	600	Red
BWCS0023171510N□00	10	10 / 5 / 2	250	60	500	4200	0.10	600	Blue
BWCS0023171512N□00	12	10 / 5 / 2	250	50	500	4000	0.15	600	Orange
BWCS0023171515N□00	15	10 / 5 / 2	250	50	500	3400	0.17	600	Yellow
BWCS0023171518N□00	18	10 / 5 / 2	250	50	500	3300	0.20	600	Green
BWCS0023171522N□00	22	10 / 5 / 2	250	55	500	2600	0.22	500	Blue
BWCS0023171524N□00	24	10 / 5 / 2	250	50	500	2000	0.22	500	Gray
BWCS0023171527N□00	27	10 / 5 / 2	250	55	500	2500	0.25	500	Violet
BWCS0023171533N□00	33	10 / 5 / 2	250	60	500	2050	0.27	500	Gray
BWCS0023171536N□00	36	10 / 5 / 2	250	55	500	1700	0.27	500	Orange
BWCS0023171539N□00	39	10 / 5 / 2	250	60	500	2000	0.29	500	White
BWCS0023171543N□00	43	10 / 5 / 2	200	60	500	1650	0.34	500	Yellow
BWCS0023171547N□00	47	10 / 5 / 2	200	60	500	1650	0.31	500	Black
BWCS0023171556N□00	56	10 / 5 / 2	200	60	500	1550	0.34	500	Brown
BWCS0023171568N□00	68	10 / 5 / 2	200	60	500	1450	0.38	500	Red
BWCS0023171582N□00	82	10 / 5 / 2	150	65	500	1300	0.42	400	Orange
BWCS0023171591N□00	91	10 / 5 / 2	150	65	500	1200	0.48	400	Black
BWCS00231715R10□00	100	10 / 5 / 2	150	65	500	1200	0.46	400	Yellow
BWCS00231715R11□00	110	10 / 5 / 2	150	50	250	1000	0.48	400	Brown
BWCS00231715R12□00	120	10 / 5 / 2	150	50	250	1100	0.51	400	Green
BWCS00231715R15□00	150	10 / 5 / 2	100	50	250	920	0.56	400	Blue
BWCS00231715R18□00	180	10 / 5 / 2	100	50	250	870	0.64	400	Violet
BWCS00231715R20□00	200	10 / 5 / 2	100	50	250	860	0.68	400	Red
BWCS00231715R22□00	220	10 / 5 / 2	100	50	250	850	0.70	400	Gray
BWCS00231715R24□00	240	10 / 5 / 2	100	44	250	690	1.00	350	Red

Note: When ordering, please specify tolerance code. Tolerance : G=±2% , J=±5% , K=±10%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

  L & Q：Agilent E4991A+Agilent HP16197A

  SRF：Agilent HP8753D/Agilent E4991A

  RDC：Chroma 16502

  Irms：HP4284A+HP42841A/HP4285A+HP42841A

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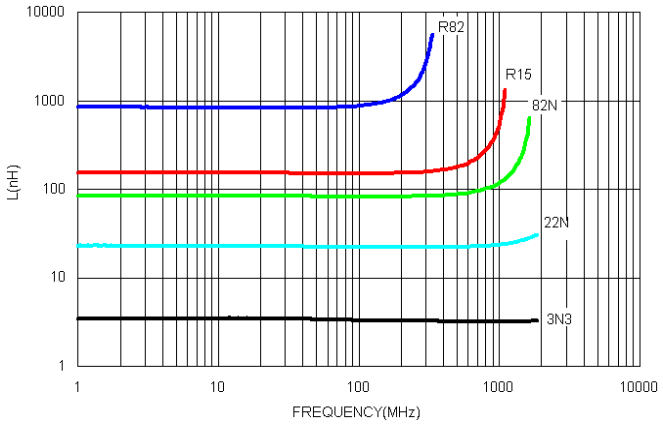
Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	Irms (mA) Max	Color
BWCS00231715R25□00	250	10 / 5 / 2	100	45	250	660	1.20	350	Yellow
BWCS00231715R27□00	270	10 / 5 / 2	100	48	250	650	1.00	350	White
BWCS00231715R30□00	300	10 / 5 / 2	100	25	250	450	1.40	310	Orange
BWCS00231715R33□00	330	10 / 5 / 2	100	48	250	600	1.40	310	Black
BWCS00231715R39□00	390	10 / 5 / 2	100	48	250	560	1.50	290	Brown
BWCS00231715R47□00	470	10 / 5 / 2	50	33	100	450	1.76	250	Violet
BWCS00231715R51□00	510	10 / 5 / 2	25	23	50	340	1.90	230	Gray
BWCS00231715R56□00	560	10 / 5 / 2	25	23	50	340	1.90	230	Orange
BWCS00231715R62□00	620	10 / 5 / 2	25	23	50	220	2.20	210	Yellow
BWCS00231715R68□00	680	10 / 5 / 2	25	23	50	188	2.20	190	Green
BWCS00231715R82□00	820	10 / 5 / 2	25	23	50	215	2.35	180	Blue
BWCS002317151R0□00	1000	10 / 5 / 2	25	20	50	100	2.50	170	Gray
BWCS002317151R2□00	1200	10 / 5	7.9	18	25	100	2.50	170	White
BWCS002317151R8□00	1800	10 / 5 / 2	7.9	16	7.9	80	2.50	170	Orange
BWCS002317152R2□00	2200	10 / 5 / 2	7.9	16	7.9	65	3.90	140	Gray
BWCS002317153R3□00	3300	10 / 5 / 2	7.9	15	7.9	40	4.40	90	Red
BWCS002317154R7□00	4700	10 / 5 / 2	7.9	15	7.9	40	6.40	90	Yellow

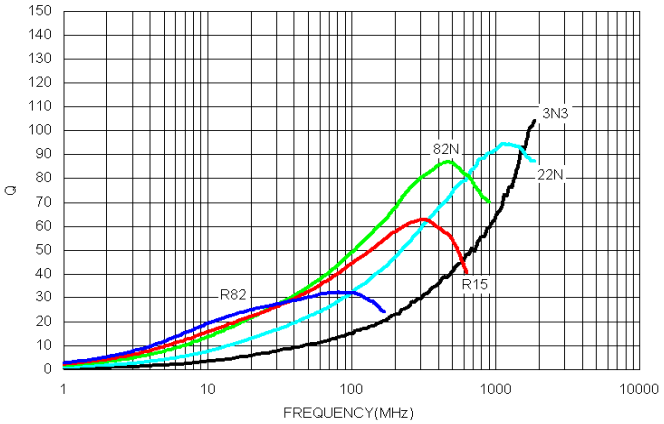
Note: When ordering, please specify tolerance code. Tolerance : G=±2% , J=±5% , K=±10%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
  L & Q：Agilent E4991A+Agilent HP16197A
  SRF：Agilent HP8753D/Agilent E4991A
  RDC：Chroma 16502
  Irms：HP4284A+HP42841A/HP4285A+HP42841A

Typical L vs. Frequency



Typical Q vs. Frequency



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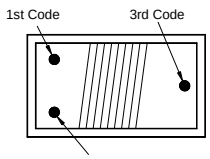
Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	Irms (mA) Max	Color Coding 1ST	2ND	3RD	offset value (nH)
BWCS0029282110N□00	10	10 / 5 / 2	50	50	500	4100	0.08	1000	Brown	Black	Black	-0.4
BWCS0029282112N□00	12	10 / 5 / 2	50	50	500	3300	0.09	1000	Brown	Red	Black	-0.6
BWCS0029282115N□00	15	10 / 5 / 2	50	50	500	2500	0.10	1000	Brown	Green	Black	-0.9
BWCS0029282118N□00	18	10 / 5 / 2	50	50	350	2500	0.11	1000	Brown	Gray	Black	-0.4
BWCS0029282122N□00	22	10 / 5 / 2	50	55	350	2400	0.12	1000	Red	Red	Black	-0.9
BWCS0029282127N□00	27	10 / 5 / 2	50	55	350	1600	0.13	1000	Red	Violet	Black	-1
BWCS0029282133N□00	33	10 / 5 / 2	50	60	350	1600	0.14	1000	Orange	Orange	Black	-1.3
BWCS0029282139N□00	39	10 / 5 / 2	50	60	350	1500	0.15	1000	Orange	White	Black	-1.4
BWCS0029282147N□00	47	10 / 5 / 2	50	65	350	1500	0.16	1000	Yellow	Violet	Black	-1
BWCS0029282156N□00	56	10 / 5 / 2	50	65	350	1300	0.18	1000	Green	Blue	Black	-3.5
BWCS0029282168N□00	68	10 / 5 / 2	50	65	350	1300	0.20	1000	Blue	Gray	Black	-3.5
BWCS0029282182N□00	82	10 / 5 / 2	50	60	350	1000	0.22	1000	Gray	Red	Black	-3.6
BWCS00292821R10□00	100	10 / 5 / 2	25	60	350	1000	0.56	650	Brown	Black	Brown	-6
BWCS00292821R12□00	120	10 / 5 / 2	25	60	350	950	0.63	650	Brown	Red	Brown	-5
BWCS00292821R15□00	150	10 / 5 / 2	25	45	100	850	0.70	580	Brown	Green	Brown	-5
BWCS00292821R18□00	180	10 / 5 / 2	25	45	100	750	0.77	620	Brown	Gray	Brown	-2
BWCS00292821R20□00	200	10 / 5 / 2	25	45	100	700	0.84	500	Red	Black	Brown	0
BWCS00292821R22□00	220	10 / 5 / 2	25	45	100	700	0.84	500	Red	Red	Brown	-15
BWCS00292821R27□00	270	10 / 5 / 2	25	45	100	600	0.91	500	Red	Violet	Brown	-15
BWCS00292821R33□00	330	10 / 5 / 2	25	45	100	570	1.05	450	Orange	Orange	Brown	-20
BWCS00292821R39□00	390	10 / 5 / 2	25	45	100	500	1.12	470	Orange	White	Brown	-25
BWCS00292821R47□00	470	10 / 5 / 2	25	45	100	450	1.19	470	Yellow	Violet	Brown	-35
BWCS00292821R56□00	560	10 / 5 / 2	25	45	100	415	1.33	400	Green	Blue	Brown	-32
BWCS00292821R62□00	620	10 / 5 / 2	25	45	100	375	1.40	300	Blue	Red	Brown	-40
BWCS00292821R68□00	680	10 / 5 / 2	25	45	100	375	1.47	400	Blue	Gray	Brown	-50
BWCS00292821R75□00	750	10 / 5 / 2	25	45	100	360	1.54	360	Violet	Green	Brown	-50
BWCS00292821R82□00	820	10 / 5 / 2	25	45	100	350	1.61	400	Gray	Red	Brown	-55
BWCS00292821R91□00	910	10 / 5 / 2	25	35	50	320	1.68	380	White	Brown	Brown	-80
BWCS002928211R0□00	1000	10 / 5 / 2	25	35	50	290	1.75	370	Brown	Black	Red	-80
BWCS002928211R2□00	1200	10 / 5 / 2	7.9	35	50	250	2.0	310	Brown	Red	Red	-17.8
BWCS002928211R5□00	1500	10 / 5 / 2	7.9	28	50	200	2.3	330	Brown	Green	Red	-29.3
BWCS002928211R8□00	1800	10 / 5 / 2	7.9	28	50	160	2.6	300	Brown	Gray	Red	-42.2

Note: When ordering, please specify tolerance code. Tolerance : G=±2% , J=±5% , K=±10%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
  L & Q：Agilent E4991A+Agilent HP16197A
  SRF：Agilent HP8753D/Agilent E4991A
  RDC：Chroma 16502
  Irms：HP4284A+HP42841A/HP4285A+HP42841A



COLOR CODING

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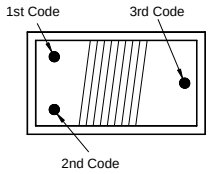
Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	Irms (mA) Max	Color Coding 1ST	2ND	3RD	offset value (nH)
BWCS002928212R2□00	2200	10 / 5 / 2	7.9	28	50	160	2.8	280	Red	Red	Red	-89.6
BWCS002928212R7□00	2700	10 / 5 / 2	7.9	22	25	140	3.2	290	Red	Violet	Red	-75
BWCS002928213R3□00	3300	10 / 5 / 2	7.9	22	25	110	3.4	290	Orange	Orange	Red	-145.6
BWCS002928213R9□00	3900	10 / 5 / 2	7.9	20	25	100	3.6	260	Orange	White	Red	-155.5
BWCS002928214R7□00	4700	10 / 5 / 2	7.9	20	25	90	4.0	260	Yellow	Violet	Red	-227.7
BWCS002928215R6□00	5600	10 / 5 / 2	7.9	18	7.9	45	4.0	240	Green	Blue	Red	0
BWCS002928216R8□00	6800	10 / 5 / 2	7.9	18	7.9	40	4.9	200	Blue	Gray	Red	0
BWCS002928218R2□00	8200	10 / 5 / 2	7.9	18	7.9	25	6.0	170	Gray	Red	Red	0
BWCS00292821100□00	10000	10 / 5 / 2	2.52	18	7.9	25	8.0	150	Brown	Black	Orange	0
BWCS00292821150□00	15000	10 / 5 / 2	2.52	15	7.9	20	11	100	Brown	Green	Orange	0

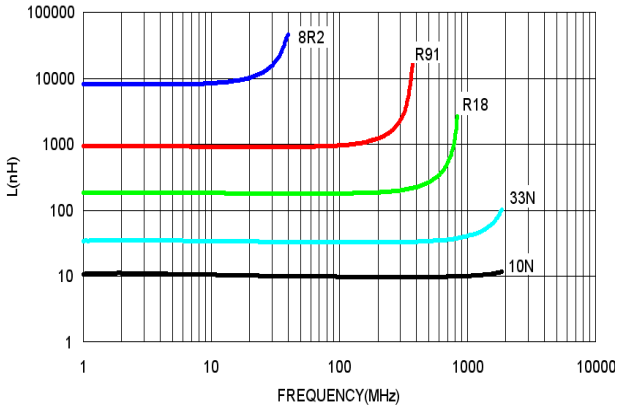
Note: When ordering, please specify tolerance code. Tolerance : G=±2% , J=±5% , K=±10%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
  L & Q：Agilent E4991A+Agilent HP16197A
  SRF：Agilent HP8753D/Agilent E4991A
  RDC：Chroma 16502
  Irms：HP4284A+HP42841A/HP4285A+HP42841A

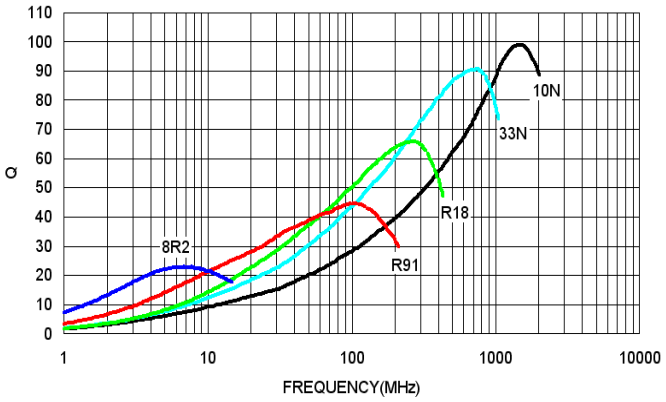


COLOR CODING

Typical L vs. Frequency



Typical Q vs. Frequency



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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	Irms (mA) Typ
BWCS004938341R0□00	1.0	5	7.9	60	50	310	1.2	480
BWCS004938341R2□00	1.2	5	7.9	62	50	230	1.2	480
BWCS004938341R5□00	1.5	5 / 2	7.9	65	50	210	1.6	430
BWCS004938341R8□00	1.8	5	7.9	68	50	190	2.0	380
BWCS004938342R2□00	2.2	5 / 2	7.9	63	50	170	2.2	340
BWCS004938342R7□00	2.7	5 / 2	7.9	60	50	160	3.2	300
BWCS004938343R3□00	3.3	5 / 2	7.9	60	50	145	3.8	270
BWCS004938343R9□00	3.9	5 / 2	7.9	61	50	130	5.0	240
BWCS004938344R7□00	4.7	5	7.9	60	50	115	5.4	230
BWCS004938345R6□00	5.6	5	7.9	42	50	100	5.7	220
BWCS004938346R8□00	6.8	5	7.9	32	50	90	6.6	210
BWCS004938348R2□00	8.2	5 / 2	7.9	35	50	80	7.0	200
BWCS00493834100□00	10	5	7.9	27	50	70	7.7	190
BWCS00493834120□00	12	5	2.5	34	10	58	8.7	180
BWCS00493834150□00	15	5 / 2	2.5	32	10	48	9.6	170
BWCS00493834180□00	18	5	2.5	28	10	36	10.5	160
BWCS00493834220□00	22	5 / 2	2.5	28	10	34	11.5	155
BWCS00493834270□00	27	5	2.5	28	10	30	12.5	150
BWCS00493834330□00	33	5 / 2	2.5	20	10	20	13.5	145

Note: When ordering, please specify tolerance code. Tolerance : G=±2% , J=±5%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

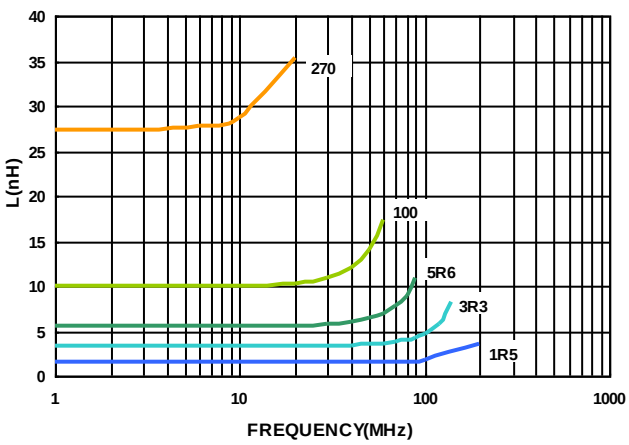
  L & Q：HP4286A/HP4287A/AgilentE4991/Keysight E4982A

  SRF：Agilent HP8753D/Agilent E4991A

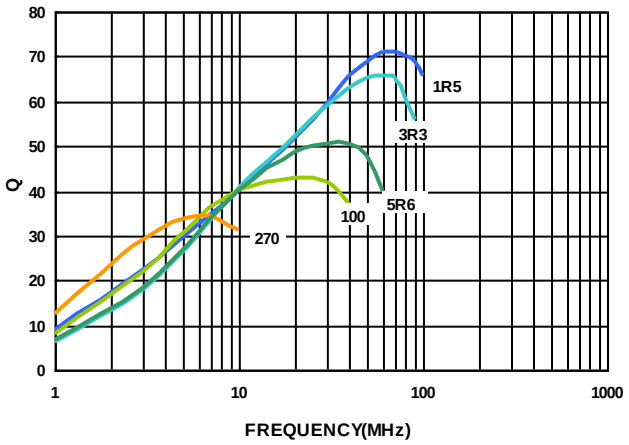
  RDC：Chroma 16502

  Irms：HP4284A+HP42841A/HP4285A+HP42841A

Typical L vs. Frequency



Typical Q vs. Frequency



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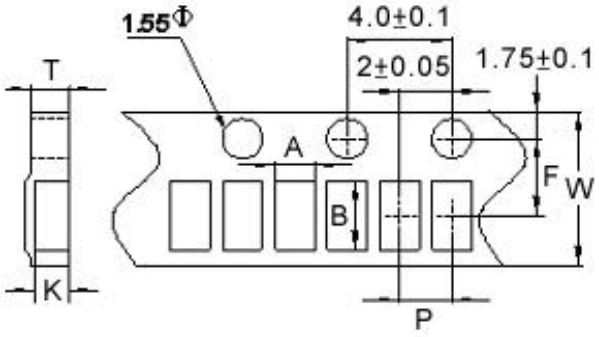
Packaging Specifications

Tape Dimensions | **Tape Material**

Figure 1



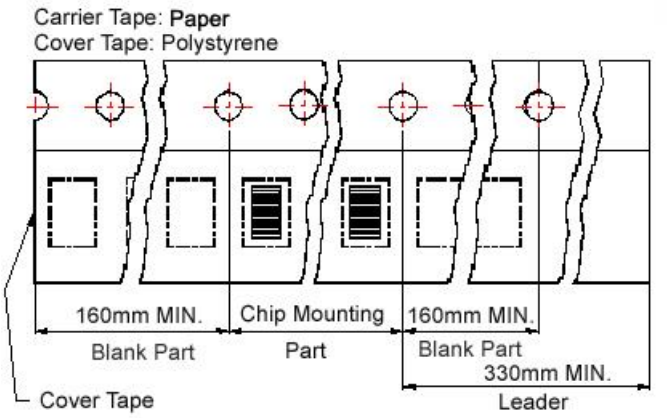
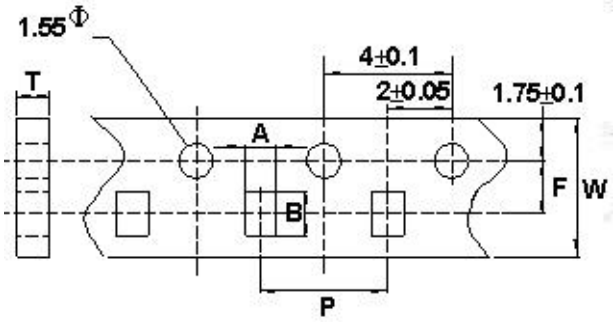


Figure 2



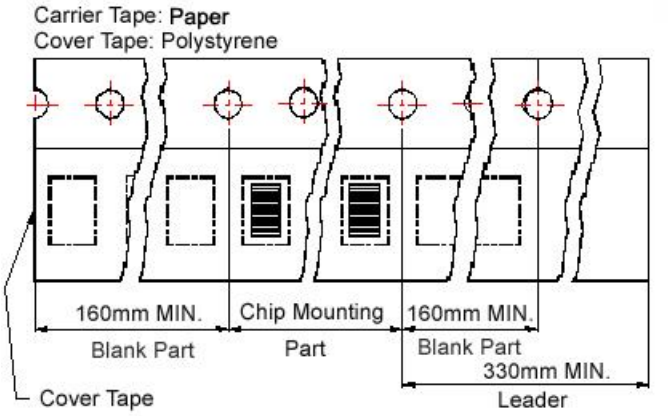
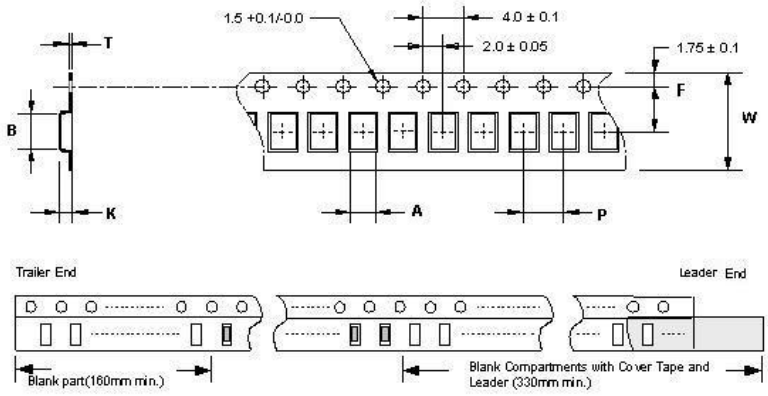
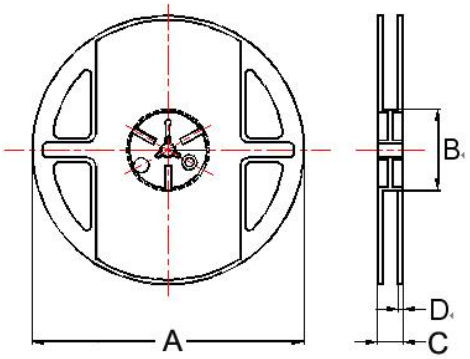


Figure 3



Reel Dimensions



Dimensions in mm

TYPE	Fig.	Tape Dimensions							Reel Dimensions				Quantity
		A	B	T	W	P	F	K	A	B	C	D	PCS / Reel
BWCS00060404	1	0.47	0.60	0.65	8	2	3.5	0.45	178	60	12	1.5	4000
BWCS00120707	1	0.67	1.20	0.75	8	2	3.5	0.59	178	60	12	1.5	4000
BWCS00161008	2	1.25	1.90	1.05	8	4	3.5	-	178	60	12	1.5	4000
BWCS00231715	3	1.85	2.45	0.23	8	4	3.5	1.50	178	60	12	1.5	2000
BWCS00292821	3	2.80	2.95	0.23	8	4	3.5	2.20	178	60	12	1.5	2000
BWCS00493834	3	3.90	4.90	0.30	12	8	5.5	3.20	178	60	16	1.4	600

BWPM Series

Due to accurate wire winding technology, these chip inductors are designed for filtering, impedance matching, resonance and choke circuits for RF designer. Both standard series custom designs are available.

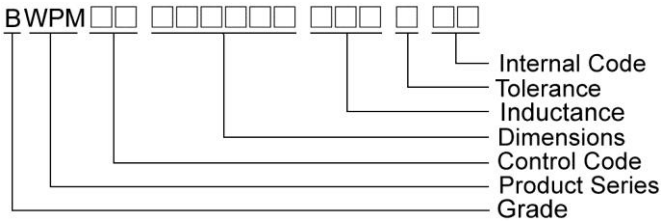
Features

- RoHS Compliant and Halogen Free
- Ceramic body and wire wound construction provide high Q and SRFs
- Higher Q and lower DCR than other inductors
- Exceptional current handling capability
- PM series is for high power and high frequency application

Applications

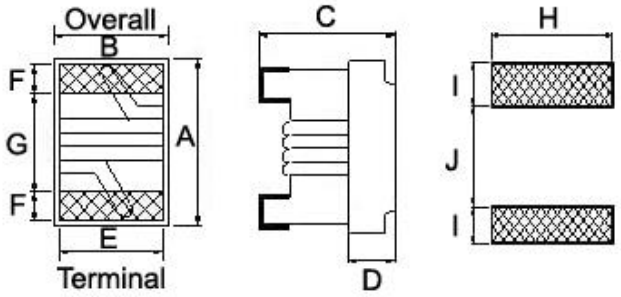
- Wireless embedded portable devices
- GPS receiver
- Base Station
- Repeater
- Set Top Box
- Cable / IP Modem
- Security system and other RF modules

Product Identification



Shape and Dimensions / Recommended Pattern

BWPM00161108



Dimensions

	A	B	C	D	E	F	G	H	I	J
BWPM00161108	$1.6^{+0.2}_{-0.1}$	1.1260.1	$0.82^{+0.2}_{-0.1}$	0.30	0.95	0.30	0.70	1.02	0.64	0.64

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	Test Frequency (MHz)	SRF (GHz) Min	RDC (Ω) Max	Irms (mA) Max	Color
BWPM001611082N2□00	2.2	±0.5nH	100	25	250	18	0.018	1400	Black
BWPM001611083N9□00	3.9	±0.2nH/±0.5nH	100	38	250	11	0.032	1000	Brown
BWPM001611085N6□00	5.6	±0.5nH	100	38	250	10	0.045	900	Red
BWPM001611086N8□00	6.8	±0.2nH/±0.5nH	100	38	250	7	0.045	900	Orange
BWPM001611088N2□00	8.2	±0.5nH	100	38	250	7	0.058	800	Yellow
BWPM0016110810N□00	10	5 / 2	100	38	250	5	0.058	800	Green
BWPM0016110812N□00	12	5 / 2	100	38	250	5	0.071	750	Blue
BWPM0016110815N□00	15	5	100	42	250	4.5	0.085	700	Violet
BWPM0016110818N□00	18	5 / 2	100	42	250	3.5	0.085	700	Brown
BWPM0016110822N□00	22	5 / 2	100	42	250	3.3	0.099	640	White
BWPM0016110827N□00	27	5 / 2	100	42	250	2.8	0.116	590	Black
BWPM0016110833N□00	33	5	100	42	250	2.5	0.132	550	Brown

Note: When ordering, please specify tolerance code. Tolerance : C=±0.2nH , D=±0.5nH , G=±2% , J=±5%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Measure Equipment :

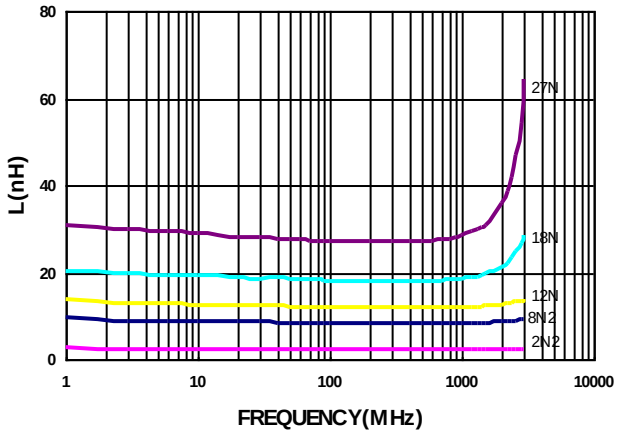
  L & Q : Agilent E4991A+Agilent HP16197A

  SRF : Agilent HP8753D

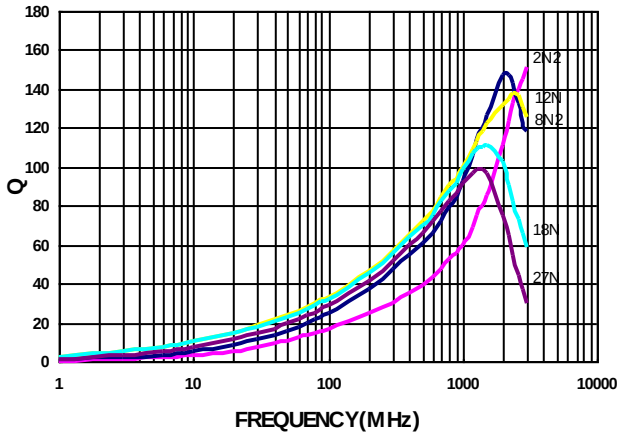
  RDC : Chroma 16502

  Irms : HP4284A+HP42841A/HP4285A+HP42841A

Typical L vs. Frequency



Typical Q vs. Frequency



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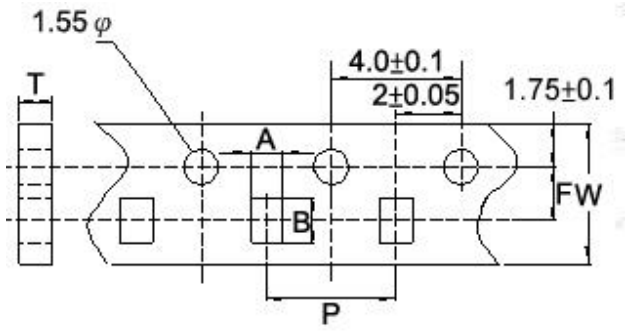
Pulse a YAGEO company

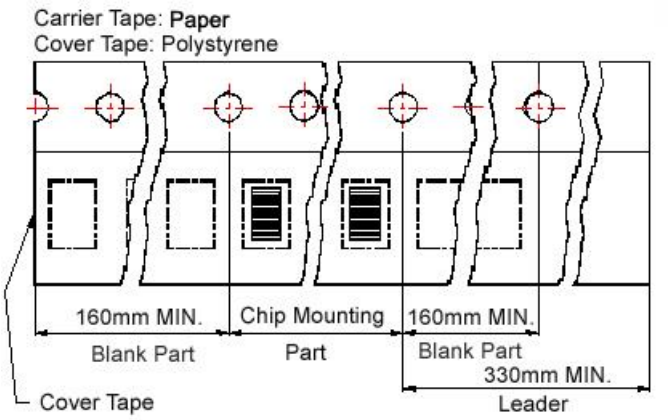
CHILISIN ELECTRONICS CORP.

Packaging Specifications

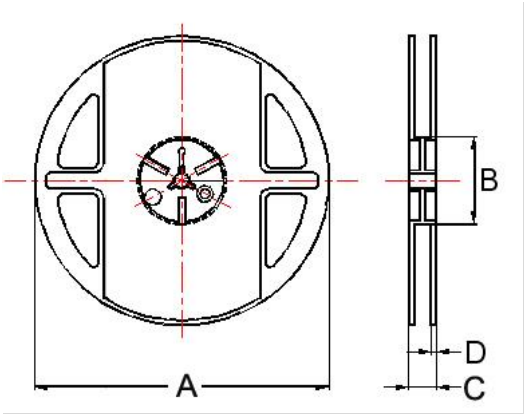
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions						Reel Dimensions				Quantity
	A	B	T	W	P	F	A	B	C	D	PCS / Reel
BWPM00161108	1.25	1.90	1.05	8	4	3.5	178	60	12	1.5	4000

BWHP Series

Due to accurate wire winding technology, these chip inductors are designed for filtering, impedance matching, resonance and choke circuits for RF designer. Both standard series custom designs are available.

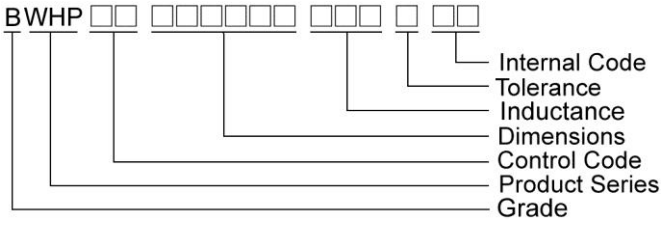
Features

- RoHS Compliant and Halogen Free
- Ceramic body and wire wound construction provide high Q and SRFs
- Higher Q and lower DCR than other inductors
- Exceptional current handling capability
- HP series is for high power and high frequency application

Applications

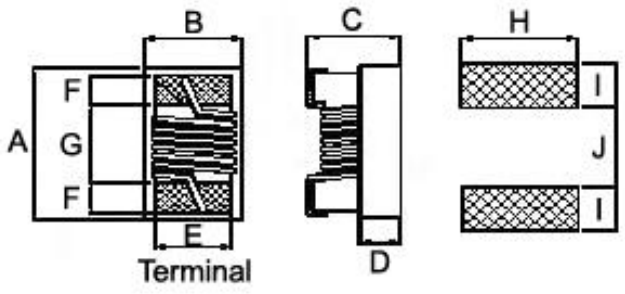
- Wireless embedded portable devices
- GPS receiver
- Base Station
- Repeater
- Set Top Box
- Cable / IP Modem
- Security system and other RF modules

Product Identification

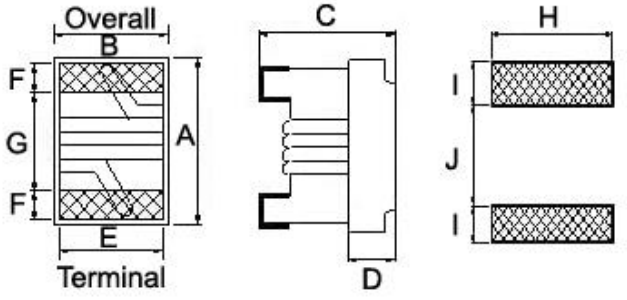


Shape and Dimensions / Recommended Pattern

BWHP00110706



BWHP00161008

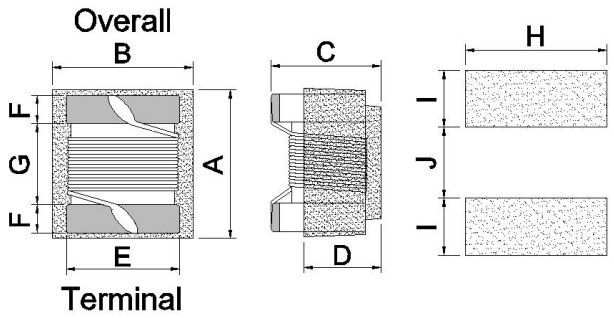


Dimensions

	A	B	C	D	E	F	G	H	I	J
BWHP00110706	1.1±0.05	0.70±0.05	0.6±0.05	0.25	0.45	0.20	0.54	0.66	0.36	0.51
BWHP00161008	$1.6^{+0.2}_{-0.1}$	1.00±0.1	$0.82^{+0.2}_{-0.1}$	0.30	0.70	0.30	0.95	1.02	0.64	0.64

Shape and Dimensions / Recommended Pattern

BWHP00231715



Dimensions

	A Max	B Max	C Max	D	E	F	G	H	I	J
BWHP00231715	2.35	1.73	1.52	0.71	1.27	0.30	1.44	1.78	1.02	0.76

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Typ.	Test Frequency (MHz)	SRF (GHz) Typ.	RDC (Ω) Max	Irms (mA) Max
BWHP001107061N0□00	1.0	±0.1nH / 5	250	18	250	16.0	0.030	2300
BWHP001107062N0□00	2.0	±0.2nH / 5	250	18	250	15.2	0.038	2100
BWHP001107062N2□00	2.2	±0.2nH / 5	250	25	250	15.1	0.045	2100
BWHP001107062N4□00	2.4	±0.2nH / 5	250	25	250	14.0	0.045	2000
BWHP001107062N7□00	2.7	±0.2nH / 5	250	20	250	13.0	0.090	1500
BWHP001107063N3□00	3.3	2 / 3 / 5	250	20	250	12.8	0.050	1700
BWHP001107063N6□00	3.6	2 / 3 / 5	250	28	250	11.7	0.065	1700
BWHP001107063N9□00	3.9	2 / 3 / 5	250	28	250	9.50	0.065	1700
BWHP001107064N3□00	4.3	2 / 3 / 5	250	22	250	7.15	0.060	1600
BWHP001107064N7□00	4.7	2 / 3 / 5	250	18	250	6.85	0.115	1500
BWHP001107065N1□00	5.1	2 / 3 / 5	250	20	250	6.80	0.125	1200
BWHP001107065N6□00	5.6	2 / 3 / 5	250	28	250	6.80	0.070	1600
BWHP001107066N2□00	6.2	2 / 3 / 5	250	25	250	5.80	0.070	1600
BWHP001107066N8□00	6.8	2 / 3 / 5	250	25	250	5.80	0.095	1500
BWHP001107067N5□00	7.5	2 / 3 / 5	250	25	250	5.40	0.130	1400
BWHP001107068N2□00	8.2	2 / 3 / 5	250	30	250	5.40	0.080	1500
BWHP001107068N7□00	8.7	2 / 3 / 5	250	30	250	5.00	0.085	1500
BWHP001107069N0□00	9.0	2 / 3 / 5	250	28	250	5.00	0.090	1400
BWHP001107069N5□00	9.5	2 / 3 / 5	250	30	250	4.70	0.095	1400
BWHP0011070610N□00	10	2 / 3 / 5	250	30	250	4.70	0.120	1300
BWHP0011070611N□00	11	2 / 3 / 5	250	30	250	4.70	0.095	1400
BWHP0011070612N□00	12	2 / 3 / 5	250	25	250	4.40	0.110	1200
BWHP0011070613N□00	13	2 / 3 / 5	250	30	250	4.20	0.140	870
BWHP0011070615N□00	15	2 / 3 / 5	250	30	250	3.90	0.130	1100
BWHP0011070616N□00	16	2 / 3 / 5	250	30	250	3.70	0.150	850
BWHP0011070618N□00	18	2 / 3 / 5	250	30	250	3.55	0.160	900
BWHP0011070619N□00	19	2 / 3 / 5	250	30	250	3.50	0.175	850
BWHP0011070620N□00	20	2 / 3 / 5	250	30	250	3.50	0.220	780
BWHP0011070621N□00	21	2 / 3 / 5	250	30	250	1.70	0.360	450
BWHP0011070622N□00	22	2 / 3 / 5	250	30	250	3.30	0.210	800
BWHP0011070623N□00	23	2 / 3 / 5	250	30	250	3.15	0.210	700
BWHP0011070624N□00	24	2 / 3 / 5	250	30	250	3.15	0.260	700
BWHP0011070625N□00	25	2 / 3 / 5	250	30	250	3.15	0.310	700
BWHP0011070626N□00	26	2 / 3 / 5	250	30	250	3.15	0.275	700

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , G=±2% , H=±3% , J=±5%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Measure Equipment :

  L & Q : Agilent E4991A+Agilent HP16197A

  SRF : Agilent HP8753D/Agilent HP8722ES

  RDC : Chroma 16502

  Irms : HP4284A+HP42841A/HP4285A+HP42841A

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Typ.	Test Frequency (MHz)	SRF (GHz) Typ.	RDC (Ω) Max	Irms (mA) Max
BWHP0011070627N□00	27	2 / 3 / 5	250	30	250	3.20	0.300	450
BWHP0011070630N□00	30	2 / 3 / 5	250	30	250	2.90	0.350	450
BWHP0011070633N□00	33	2 / 3 / 5	250	30	250	2.80	0.380	490
BWHP0011070636N□00	36	2 / 3 / 5	250	30	250	2.80	0.480	480
BWHP0011070637N□00	37	2 / 3 / 5	250	30	250	2.70	0.490	470
BWHP0011070639N□00	39	2 / 3 / 5	250	30	250	2.60	0.520	450
BWHP0011070640N□00	40	2 / 3 / 5	250	30	250	2.60	0.520	450
BWHP0011070643N□00	43	2 / 3 / 5	250	29	250	2.50	0.720	450
BWHP0011070647N□00	47	2 / 3 / 5	250	30	250	2.40	0.720	420
BWHP0011070651N□00	51	2 / 3 / 5	250	30	250	2.30	0.980	360

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , G=±2% , H=±3% , J=±5%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Measure Equipment :

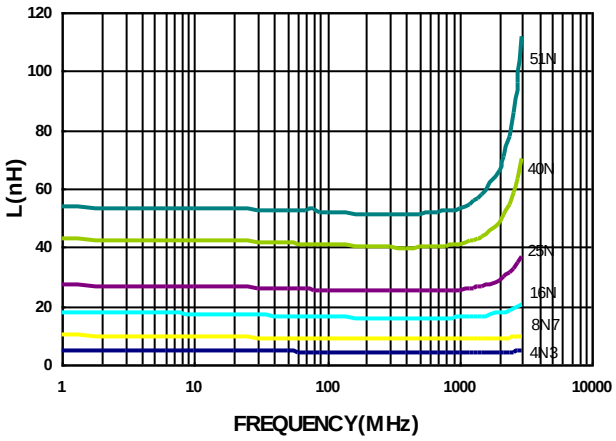
  L & Q : Agilent E4991A+Agilent HP16197A

  SRF : Agilent HP8753D/Agilent HP8722ES

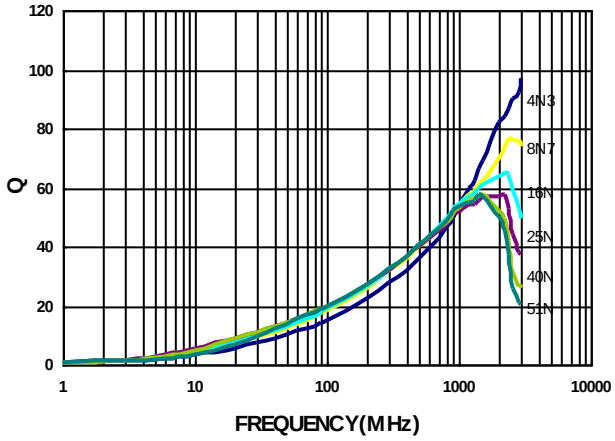
  RDC : Chroma 16502

  Irms : HP4284A+HP42841A/HP4285A+HP42841A

Typical L vs. Frequency



Typical Q vs. Frequency



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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Typ.	Test Frequency (MHz)	SRF (GHz) Typ.	RDC (Ω) Max	Irms (mA) Max	Color
BWHP001610081N8□00	1.8	5	250	23	250	16.0	0.033	2100	Black
BWHP001610082N2□00	2.2	5	250	13	250	15.0	0.182	900	Brown
BWHP001610083N9□00	3.9	2 / 3 / 5	250	26	250	7.50	0.062	1600	Red
BWHP001610084N3□00	4.3	2 / 3 / 5	250	26	250	7.50	0.088	1300	Orange
BWHP001610084N7□00	4.7	2 / 3 / 5	250	25	250	7.90	0.130	1100	Yellow
BWHP001610086N8□00	6.8	2 / 3 / 5	250	40	250	5.80	0.065	1400	Green
BWHP001610087N2□00	7.2	2 / 3 / 5	250	32	250	5.40	0.100	1400	Blue
BWHP001610087N5□00	7.5	2 / 3 / 5	250	32	250	5.30	0.100	1300	Violet
BWHP0016100811N□00	11	2 / 3 / 5	250	41	250	4.10	0.086	1400	Gray
BWHP0016100815N□00	15	2 / 3 / 5	250	42	250	3.60	0.110	1200	White
BWHP0016100816N□00	16	2 / 3 / 5	250	40	250	3.50	0.125	1100	Black
BWHP0016100822N□00	22	2 / 3 / 5	250	40	250	3.15	0.195	850	Brown
BWHP0016100823N□00	23	2 / 3 / 5	250	40	250	3.00	0.150	850	Red
BWHP0016100824N□00	24	2 / 3 / 5	250	42	250	2.95	0.125	1100	Orange
BWHP0016100827N□00	27	2 / 3 / 5	250	42	250	2.80	0.200	780	Yellow
BWHP0016100830N□00	30	2 / 3 / 5	250	49	250	2.80	0.130	920	Green
BWHP0016100833N□00	33	2 / 3 / 5	250	45	250	2.70	0.170	680	Blue
BWHP0016100836N□00	36	2 / 3 / 5	250	44	250	2.50	0.225	720	Violet
BWHP0016100839N□00	39	2 / 3 / 5	250	48	250	2.45	0.190	680	Gray
BWHP0016100843N□00	43	2 / 3 / 5	250	45	250	2.45	0.225	810	White
BWHP0016100847N□00	47	2 / 3 / 5	200	43	250	2.30	0.240	680	Black
BWHP0016100851N□00	51	2 / 3 / 5	200	42	250	2.30	0.280	660	Brown
BWHP0016100856N□00	56	2 / 3 / 5	200	43	250	2.20	0.300	610	Red
BWHP0016100868N□00	68	2 / 3 / 5	200	43	250	2.00	0.330	600	Orange
BWHP0016100872N□00	72	2 / 3 / 5	150	37	250	1.90	0.420	550	Yellow
BWHP0016100875N□00	75	2 / 3 / 5	150	37	250	1.90	0.520	500	Green
BWHP0016100882N□00	82	2 / 3 / 5	150	38	250	1.80	0.460	510	Blue
BWHP0016100891N□00	91	2 / 3 / 5	150	45	250	1.65	0.580	440	Violet
BWHP00161008R10□00	100	2 / 3 / 5	150	49	250	1.70	0.540	470	Gray
BWHP00161008R11□00	110	2 / 3 / 5	150	47	250	1.60	0.620	440	White
BWHP00161008R12□00	120	2 / 3 / 5	150	47	250	1.55	0.720	420	Black
BWHP00161008R15□00	150	2 / 3 / 5	150	47	250	1.35	1.150	390	Brown

Note: When ordering, please specify tolerance code. Tolerance : G=±2% ,H=±3% , J=±5%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Measure Equipment :

  L & Q：Agilent E4991A+Agilent HP16197A

  SRF：Agilent HP8753D/Agilent HP8722ES

  RDC：Chroma 16502

  Irms：HP4284A+HP42841A/HP4285A+HP42841A

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Typ.	Test Frequency (MHz)	SRF (GHz) Typ.	RDC (Ω) Max	Irms (mA) Max	Color
BWHP00161008R18□00	180	2 / 3 / 5	100	48	250	1.30	1.500	310	Red
BWHP00161008R20□00	200	2 / 3 / 5	100	47	250	1.25	2.000	280	Orange
BWHP00161008R21□00	210	2 / 3 / 5	100	48	250	1.20	2.000	280	Yellow
BWHP00161008R22□00	220	2 / 3 / 5	100	47	250	1.10	2.000	280	Green
BWHP00161008R25□00	250	2 / 3 / 5	100	45	250	1.05	3.000	240	Blue
BWHP00161008R27□00	270	2 / 3 / 5	100	46	250	1.05	2.250	260	Violet
BWHP00161008R30□00	300	2 / 3 / 5	100	47	250	0.99	2.800	220	Gray
BWHP00161008R33□00	330	2 / 3 / 5	100	46	250	0.93	3.600	180	White
BWHP00161008R36□00	360	2 / 3 / 5	100	47	250	0.93	4.000	170	Black
BWHP00161008R39□00	390	2 / 3 / 5	100	47	250	0.88	4.000	170	Brown

Note: When ordering, please specify tolerance code. Tolerance : G=±2% , H=±3% , J=±5%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Measure Equipment :

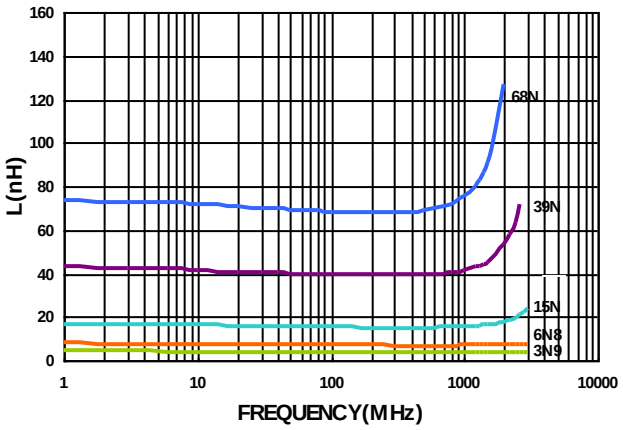
  L & Q：Agilent E4991A+Agilent HP16197A

  SRF：Agilent HP8753D/Agilent HP8722ES

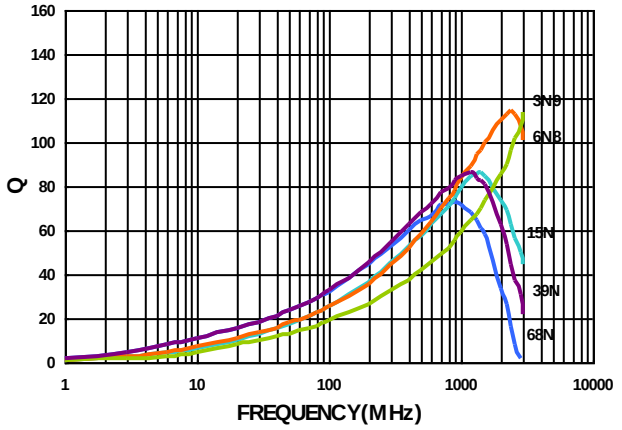
  RDC：Chroma 16502

  Irms：HP4284A+HP42841A/HP4285A+HP42841A

Typical L vs. Frequency



Typical Q vs. Frequency



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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Typ.	Test Frequency (MHz)	SRF (MHz) Typ.	RDC (Ω) Max	Irms (mA) Typ
BWHP002317152N6□00	2.6	5	250	100	1500	9500	0.015	2000
BWHP002317156N2□00	6.2	5	250	104	1000	7200	0.027	1500
BWHP002317156N8□00	6.8	5	250	90	1000	6000	0.066	1300
BWHP0023171511N□00	11	2 / 5	250	93	500	4750	0.039	1600
BWHP0023171512N□00	12	2 / 5	250	91	500	4425	0.039	1400
BWHP0023171513N□00	13	2 / 5	250	91	500	4100	0.039	1400
BWHP0023171518N□00	18	2 / 5	250	95	500	3650	0.050	1200
BWHP0023171533N□00	33	2 / 5	250	100	500	2410	0.087	1100
BWHP0023171547N□00	47	2 / 5	200	105	500	2170	0.093	1000
BWHP0023171556N□00	56	2 / 5	200	100	500	1815	0.122	950
BWHP0023171582N□00	82	2 / 5	150	103	500	1525	0.168	820
BWHP00231715R10□00	100	2 / 5	150	100	500	1400	0.220	720
BWHP00231715R12□00	120	2 / 5	150	80	250	1265	0.293	620
BWHP00231715R15□00	150	2 / 5	100	80	250	1150	0.288	600
BWHP00231715R18□00	180	2 / 5	100	77	250	1025	0.374	540
BWHP00231715R22□00	220	2 / 5	100	75	250	930	0.426	500
BWHP00231715R27□00	270	2 / 5	100	75	250	830	0.754	420
BWHP00231715R33□00	330	2 / 5	100	54	100	770	1.004	360
BWHP00231715R39□00	390	2 / 5	100	52	100	700	1.110	330
BWHP00231715R47□00	470	2 / 5	50	52	100	640	1.559	280
BWHP00231715R56□00	560	2 / 5	25	46	100	550	2.067	240
BWHP00231715R68□00	680	2 / 5	25	46	100	535	2.355	210
BWHP00231715R82□00	820	2 / 5	25	50	100	485	3.945	180

Note: When ordering, please specify tolerance code. Tolerance : G=±2% , J=±5%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Measure Equipment :

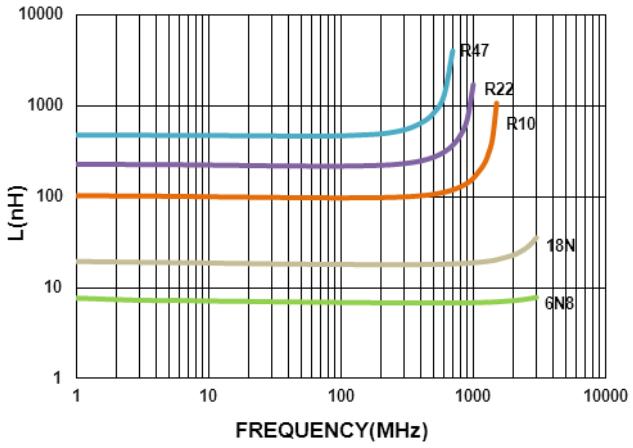
  L & Q：Agilent E4991A+Agilent HP16197A

  SRF：Agilent HP8753D/Agilent HP8722ES

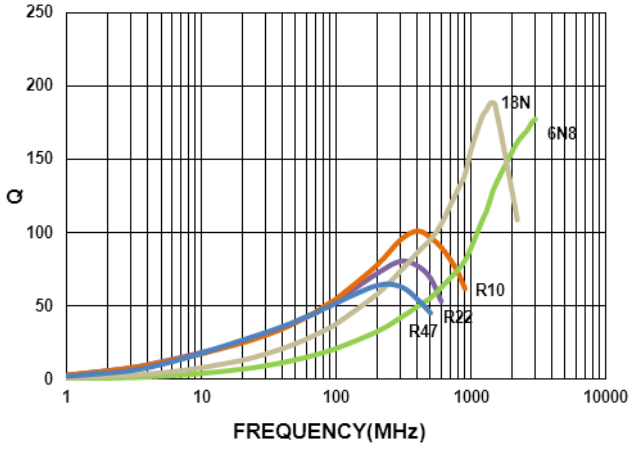
  RDC：Chroma 16502

  Irms：HP4284A+HP42841A/HP4285A+HP42841A

Typical L vs. Frequency



Typical Q vs. Frequency



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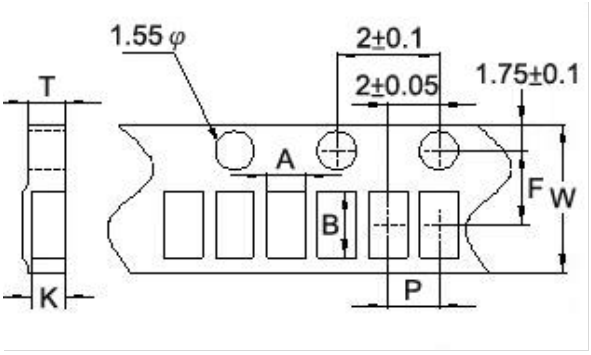
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions

Tape Material

Figure 1



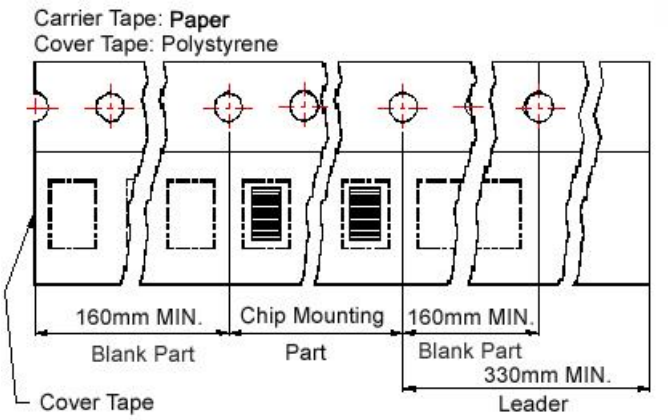
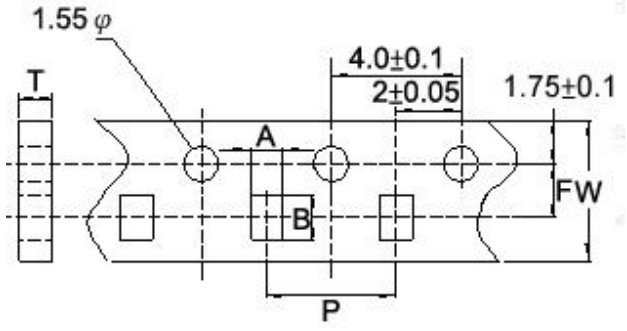


Figure 2



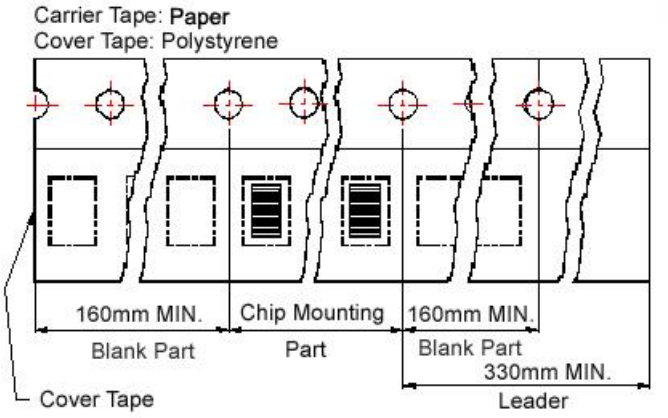
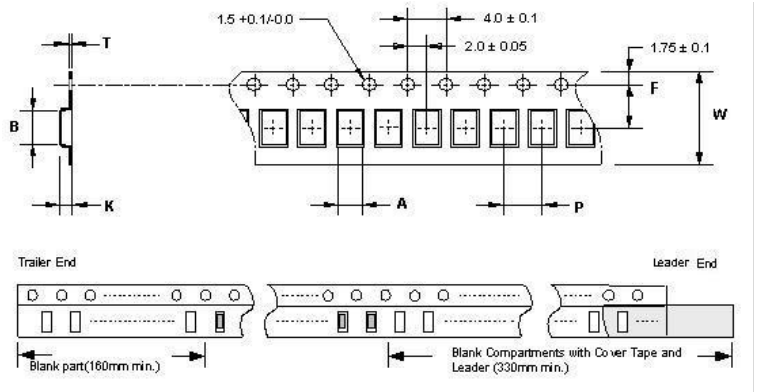
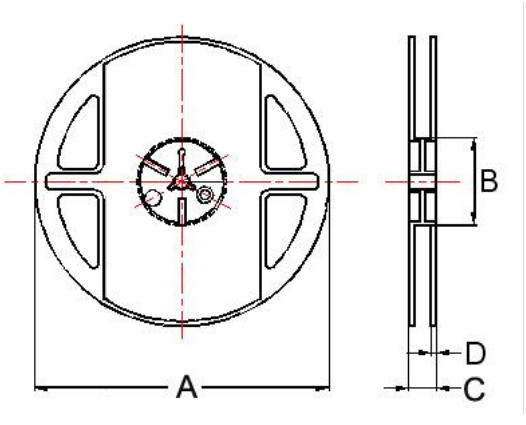


Figure 3

Reel Dimensions





Dimensions in mm

TYPE	Fig.	Tape Dimensions							Reel Dimensions				Quantity
		A	B	T	W	P	F	K	A	B	C	D	PCS / Reel
BWHP00110706	1	0.80	1.20	0.75	8	2	3.5	0.62	178	60	12	1.5	4000
BWHP00161008	2	1.23	1.90	1.05	8	4	3.5	-	178	60	12	1.5	4000
BWHP00231715	3	1.85	2.45	0.23	8	4	3.5	1.50	178	60	12	1.5	2000

BWHH Series

Due to accurate wire winding technology, these chip inductors are designed for filtering, impedance matching, resonance and choke circuits for RF designer. Both standard series custom designs are available.

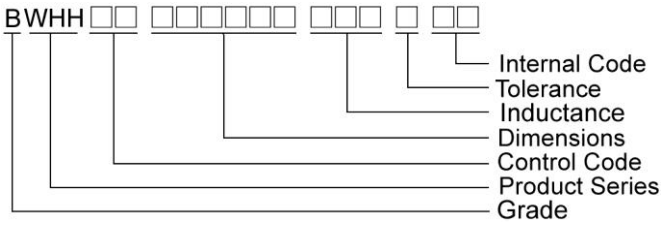
Features

- RoHS Compliant and Halogen Free
- Ceramic body and wire wound construction provide high Q and SRFs
- Higher Q and lower DCR than other inductors
- Exceptional current handling capability
- HPH series is for high power and high frequency application

Applications

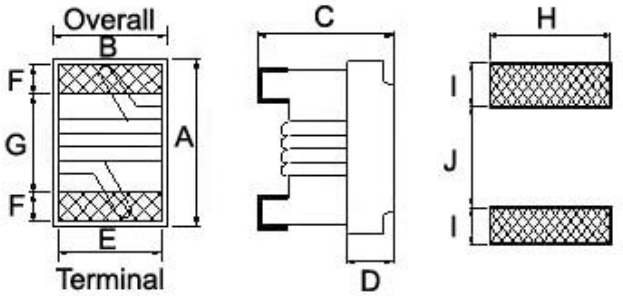
- Wireless embedded portable devices
- GPS receiver
- Base Station
- Repeater
- Set Top Box
- Cable / IP Modem
- Security system and other RF modules

Product Identification



Shape and Dimensions / Recommended Pattern

BWHH00161108



Dimensions

	A	B	C	D	E	F	G	H	I	J
BWHH00161108	$1.6^{+0.2}_{-0.1}$	1.12±0.1	$0.82^{+0.2}_{-0.1}$	0.30	0.70	0.30	0.95	1.02	0.64	0.64

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Typ.	Test Frequency (MHz)	SRF (GHz) Typ.	RDC (Ω) Max	Irms (mA) Max	Color Code
BWHH001611083N3□00	3.3	5 / 3	250	36	250	9.6	0.034	1900	Black
BWHH001611083N6□00	3.6	5 / 3	250	28	250	9.7	0.040	1900	Brown
BWHH001611085N1□00	5.1	5 / 3	250	38	250	8.9	0.042	1700	Red
BWHH001611085N6□00	5.6	5 / 3	250	35	250	6.6	0.042	1700	Orange
BWHH001611086N0□00	6.0	5 / 3	250	49	250	6.0	0.042	1700	Yellow
BWHH001611088N2□00	8.2	5 / 3	250	40	250	5.9	0.054	1400	Green
BWHH001611088N7□00	8.7	5 / 3	250	46	250	5.5	0.054	1400	Blue
BWHH001611089N1□00	9.1	5 / 3	250	40	250	5.1	0.052	1400	Violet
BWHH001611089N5□00	9.5	5 / 3	250	42	250	4.9	0.054	1400	Gray
BWHH0016110810N□00	10	5 / 3	250	44	250	4.3	0.054	1400	White
BWHH0016110812N□00	12	5 / 3	250	40	250	4.1	0.088	1100	Black
BWHH0016110818N□00	18	5 / 3	250	45	250	3.3	0.082	1200	Brown

Note: When ordering, please specify tolerance code. Tolerance : H=±3% , J=±5%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

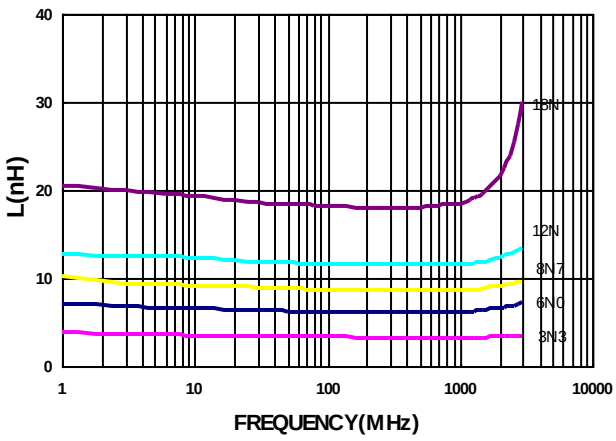
  L & Q：Agilent E4991A+Agilent HP16197A

  SRF：Agilent E5071C

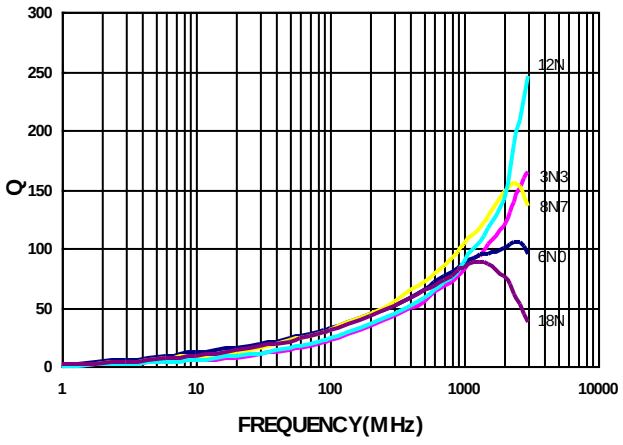
  RDC：Chroma 16502

  Irms：HP4284A+HP42841A/HP4285A+HP42841A

Typical L vs. Frequency



Typical Q vs. Frequency



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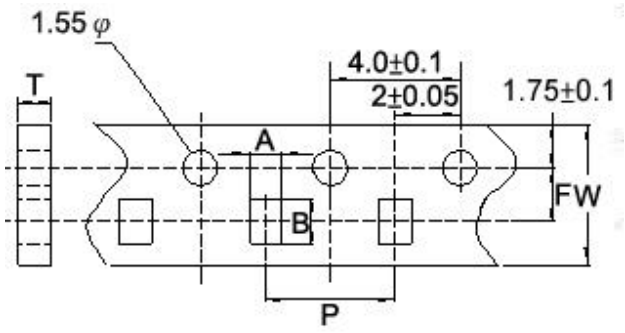
Pulse a YAGEO company

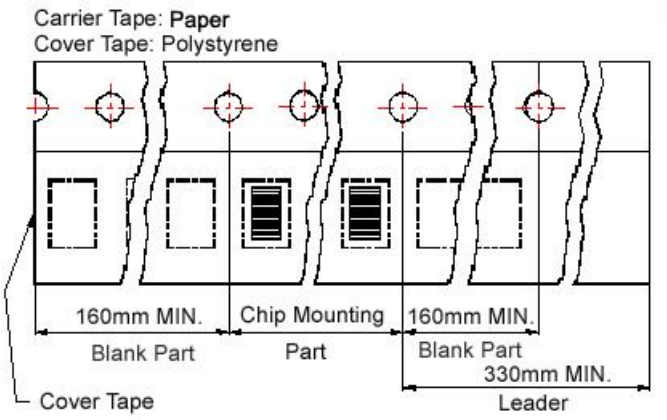
CHILISIN ELECTRONICS CORP.

Packaging Specifications

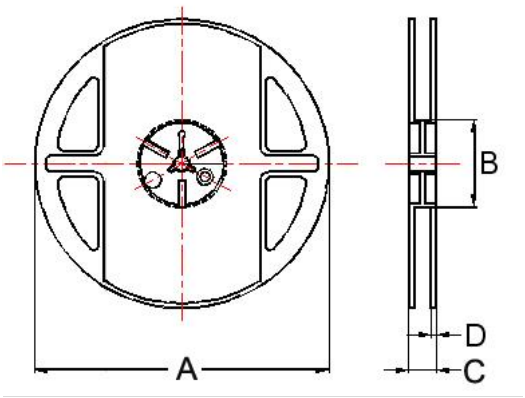
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions						Reel Dimensions				Quantity
	A	B	T	W	P	F	A	B	C	D	PCS / Reel
BWHH00161108	1.25	1.90	1.05	8	4	3.5	178	60	12	1.5	4000

BWCT Series

Due to accurate wire winding technology, these chip inductors are designed for filtering, impedance matching, resonance and choke circuits for RF designer. Both standard series custom designs are available.

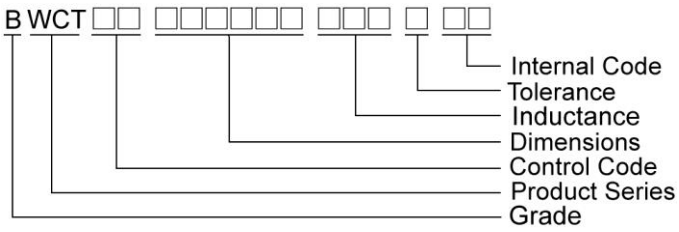
Features

- RoHS compliant.
- Ceramic body and wire wound construction provide highest SRFs
- Exceptional Q values even at high frequencies
- Highest possible SRFs as well as excellent Q values
- The non-magnetic coil form assures utmost thermal stability, predictability and batch consistency

Applications

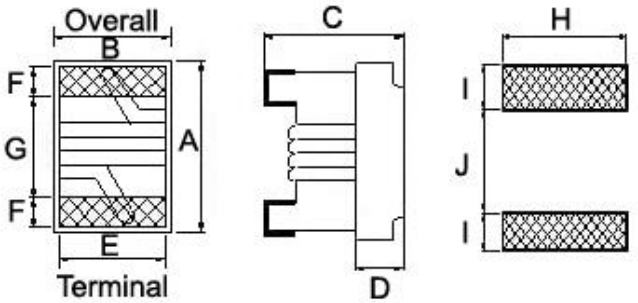
- RF products for cellular phone
- GPS receiver
- Base Station
- Repeater
- Wireless LAN/ mouse/ keyboard/ earphone
- Remote control
- Security system and other RF modules

Product Identification



Shape and Dimensions/ Recommended Pattern

BWCT00231711



Dimensions

		A Max	B Max	C Max	D	E	F	G	H	I	J
BWCT00231711	inch	0.093	0.068	0.039	0.020	0.050	0.020	0.040	0.070	0.040	0.030
	mm	2.35	1.73	1.10	0.51	1.27	0.51	1.02	1.78	1.02	0.76

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	Irms (mA) Max	Color
BWCT002317111N8□00	1.8	10	250	55	1500	9400	0.03	800	Black
BWCT002317113N9□00	3.9	10	250	50	1000	6100	0.06	800	Brown
BWCT002317114N7□00	4.7	10 / 5	250	50	1000	5500	0.06	800	Red
BWCT002317115N1□00	5.1	10 / 5	250	50	1000	5500	0.06	800	-
BWCT002317116N8□00	6.8	10 / 5	250	50	1000	5500	0.08	800	Orange
BWCT002317118N2□00	8.2	10 / 5	250	50	1000	4800	0.08	800	Yellow
BWCT0023171110N□00	10	10 / 5 / 2	250	55	750	3300	0.08	800	Green
BWCT0023171112N□00	12	10 / 5 / 2	250	55	750	3800	0.10	800	Blue
BWCT0023171115N□00	15	10 / 5 / 2	250	50	500	2950	0.10	800	Violet
BWCT0023171118N□00	18	10 / 5 / 2	250	50	500	3100	0.13	800	Gray
BWCT0023171122N□00	22	10 / 5 / 2	250	50	500	2900	0.15	800	White
BWCT0023171127N□00	27	10 / 5 / 2	250	50	500	2450	0.23	600	Black
BWCT0023171133N□00	33	10 / 5 / 2	250	55	500	2350	0.28	600	Brown
BWCT0023171139N□00	39	10 / 5 / 2	250	55	500	2200	0.33	600	Red
BWCT0023171147N□00	47	10 / 5 / 2	200	50	500	2000	0.39	600	Orange
BWCT0023171156N□00	56	10 / 5 / 2	200	50	500	1850	0.39	500	Yellow
BWCT0023171168N□00	68	10 / 5 / 2	200	50	500	1500	0.40	500	Green
BWCT0023171182N□00	82	10 / 5 / 2	150	50	500	1500	0.44	500	Blue
BWCT00231711R10□00	100	10 / 5 / 2	150	50	500	1200	0.64	400	Violet
BWCT00231711R12□00	120	10 / 5 / 2	150	40	250	1150	0.68	300	Gray
BWCT00231711R15□00	150	10 / 5 / 2	150	40	250	1050	0.80	300	White
BWCT00231711R18□00	180	10 / 5 / 2	150	40	250	950	0.90	300	Black
BWCT00231711R22□00	220	10 / 5 / 2	150	40	250	900	0.98	300	Brown
BWCT00231711R27□00	270	10 / 5 / 2	150	40	250	850	1.30	300	Red
BWCT00231711R33□00	330	10 / 5 / 2	100	40	250	800	1.45	300	Orange
BWCT00231711R39□00	390	10 / 5 / 2	100	35	250	700	1.60	300	Yellow
BWCT00231711R47□00	470	10 / 5 / 2	50	25	100	600	1.80	300	Green
BWCT00231711R56□00	560	10 / 5 / 2	25	18	50	550	1.90	300	Blue
BWCT00231711R62□00	620	10 / 5 / 2	25	18	50	450	2.00	300	Violet
BWCT00231711R68□00	680	10 / 5 / 2	25	18	50	420	2.10	300	Gray
BWCT00231711R75□00	750	10 / 5 / 2	25	18	50	400	2.20	300	White
BWCT00231711R82□00	820	10 / 5 / 2	25	18	50	400	2.50	300	Black
BWCT002317111R0□00	1000	10 / 5	25	17	50	330	3.10	300	Brown

Note: When ordering, please specify tolerance code. Tolerance : G=±2% , J=±5% , K=±10%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

  L & Q：Agilent E4991A+Agilent HP16197A

  SRF：Agilent/HP8753D/Agilent E4991A

  RDC: HP4338B or Chroma 16502

  Irms：HP4284A+HP42841A/HP4285A+HP42841A

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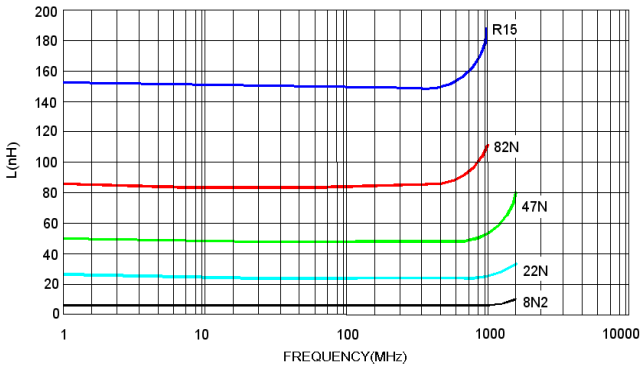
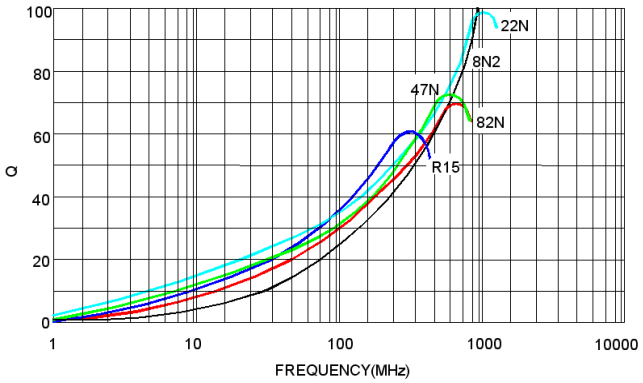
Test Instruments：Agilent E4991A Material/Impedance Analyzer

BWCT00231711





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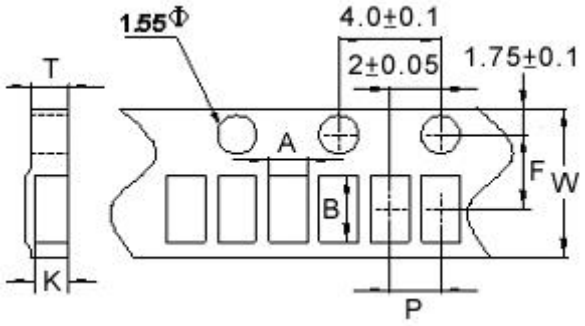
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions

Figure 1



Tape Material

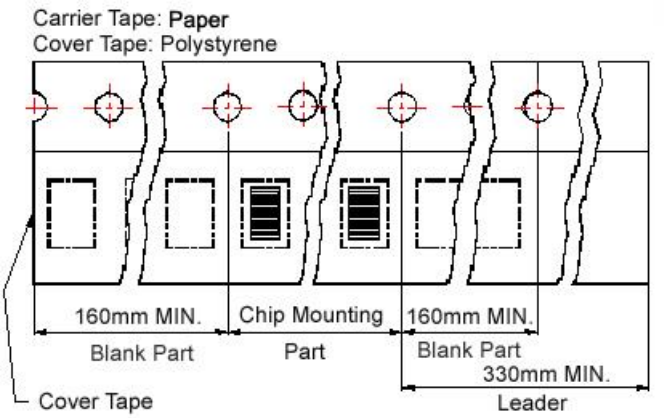
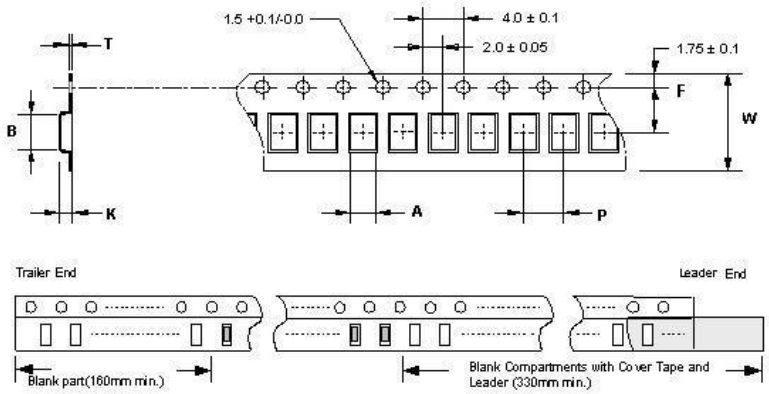
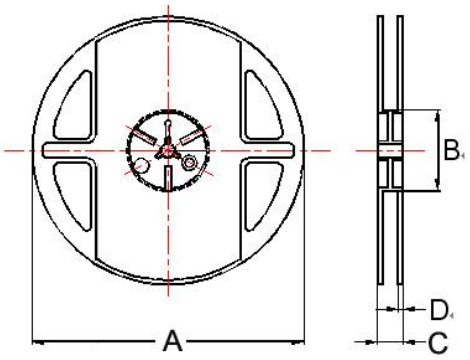


Figure 2



Reel Dimensions



Dimensions in mm

TYPE	Fig.	Tape Dimensions							Reel Dimensions				Quantity
		A	B	T	W	P	F	K	A	B	C	D	PCS / Reel
BWCT00231711	2	1.85	2.45	0.23	8	4	3.5	1.10	178	60	12	1.5	2000

BWHQ Series

Due to accurate wire winding technology, these chip inductors are designed for filtering, impedance matching, resonance and choke circuits for RF designer. Both standard series custom designs are available.

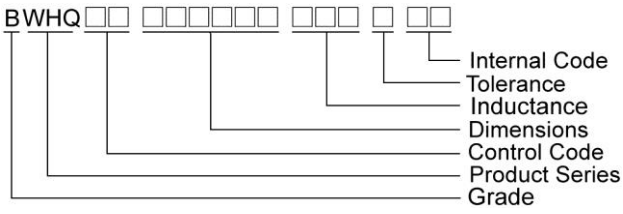
Features

- RoHS compliant.
- Ceramic body and wire wound construction provide highest SRFs
- Exceptional Q values even at high frequencies
- Highest possible SRFs as well as excellent Q values
- The non-magnetic coil form assures utmost thermal stability, predictability and batch consistency
- The highest Q factors and low RDC to fulfill the needs of mobile applications

Applications

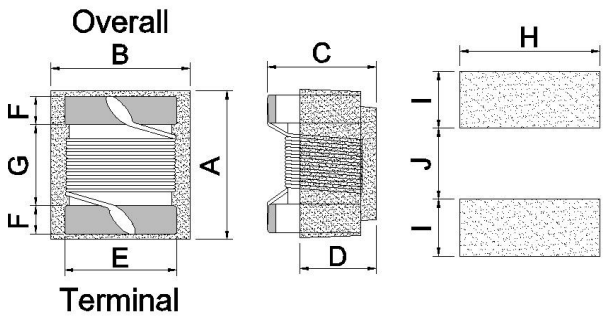
- RF products for cellular phone
- GPS receiver
- Base Station
- Repeater
- Wireless LAN/ mouse/ keyboard/ earphone
- Remote control
- Security system and other RF modules

Product Identification



Shape and Dimensions/ Recommended Pattern

BWHQ00231816/ 302821



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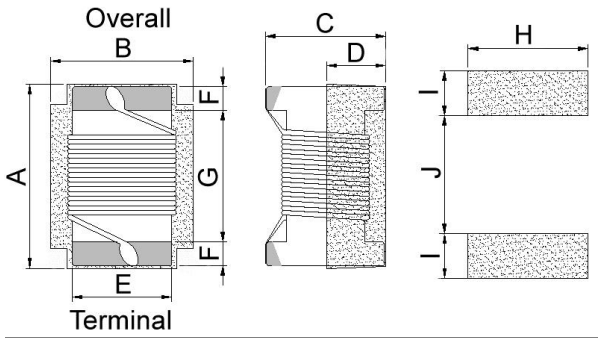


Dimensions

		A Max	B Max	C Max	D	E	F	G	H	I	J
BWHQ00231816	inch	0.090	0.070	0.061	0.020	0.050	0.017	0.050	0.070	0.040	0.030
	mm	2.29	1.78	1.56	0.50	1.27	0.44	1.27	1.78	1.02	0.76
BWHQ00302821	inch	0.117	0.110	0.083	0.028	0.080	0.020	0.060	0.100	0.040	0.050
	mm	2.96	2.79	2.10	0.70	2.03	0.51	1.52	2.54	1.02	1.27
BWHQ00493834	inch	0.197	0.154	0.135	0.070	0.1	0.025	0.128	0.120	0.045	0.118
	mm	4.95	3.810	3.43	1.78	2.54	0.64	3.25	3.05	1.14	3.00

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	Irms (mA) Max	Color
BWHQ002318162N5□00	2.5	10 / 5	250	80	1500	6000	0.020	1600	Black
BWHQ002318165N6□00	5.6	10 / 5	250	98	1500	6000	0.035	1600	Brown
BWHQ002318166N2□00	6.2	10 / 5	250	88	1000	4750	0.035	1600	Red
BWHQ0023181612N□00	12	10 / 5	250	80	1000	3000	0.045	1600	Orange
BWHQ0023181616N□00	16	10 / 5 / 2	250	72	500	2950	0.060	1500	Yellow
BWHQ0023181618N□00	18	10 / 5 / 2	250	75	500	2550	0.060	1400	Green
BWHQ0023181620N□00	20	10 / 5 / 2	250	70	500	2050	0.055	1400	Blue
BWHQ0023181627N□00	27	10 / 5 / 2	250	75	500	2000	0.070	1300	Violet
BWHQ0023181630N□00	30	10 / 5 / 2	250	65	500	1950	0.095	1200	Gray
BWHQ0023181639N□00	39	10 / 5 / 2	250	65	500	1600	0.095	1100	White
BWHQ0023181648N□00	48	10 / 5 / 2	200	65	500	1400	0.110	1200	Black
BWHQ0023181651N□00	51	10 / 5 / 2	200	65	500	1400	0.120	1000	Brown

Note: When ordering, please specify tolerance code. Tolerance : G=±2% , J=±5% , K=±10%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Measure Equipment :

  L & Q : Agilent E4991A+Agilent HP16197A

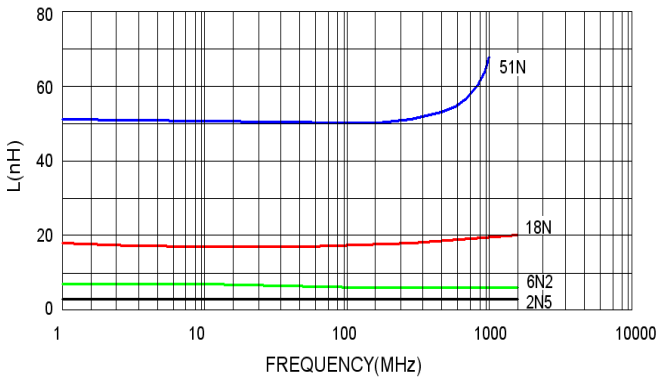
  SRF : Agilent HP8753D/Agilent E4991A

  RDC : HP 4338B or Chroma 16502

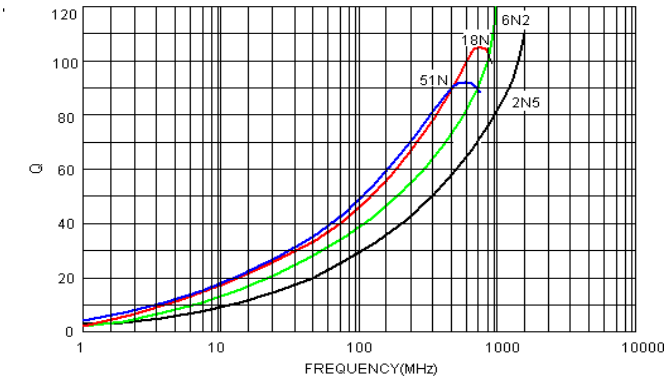
  Irms : HP4284A+HP42841A/HP4285A+HP42841A

Test Instruments : Agilent E4991A Material/Impedance Analyzer

Typical L vs. Frequency



Typical Q vs. Frequency



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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	Irms (mA) Max	Color Coding 1ST	2ND	3RD
BWHQ003028214N1□00	4.1	10 / 5	50	75	1500	6000	0.05	1600	Black	Yellow	Black
BWHQ003028218N2□00	8.2	10 / 5	50	60	500	3600	0.06	1600	Gray	Red	White
BWHQ0030282110N□00	10	10 / 5	50	60	500	3600	0.06	1600	Brown	Black	Black
BWHQ0030282112N□00	12	10 / 5 / 2	50	70	500	2800	0.06	1500	Brown	Red	Black
BWHQ0030282118N□00	18	10 / 5 / 2	50	62	350	2700	0.07	1400	Brown	Gray	Black
BWHQ0030282122N□00	22	10 / 5 / 2	50	62	350	2050	0.07	1400	Red	Red	Black
BWHQ0030282133N□00	33	10 / 5 / 2	50	75	350	1700	0.09	1300	Orange	Orange	Black
BWHQ0030282139N□00	39	10 / 5 / 2	50	75	350	1300	0.09	1300	Orange	White	Black
BWHQ0030282147N□00	47	10 / 5 / 2	50	75	350	1450	0.12	1200	Yellow	Violet	Black
BWHQ0030282156N□00	56	10 / 5 / 2	50	75	350	1230	0.12	1200	Green	Blue	Black
BWHQ0030282168N□00	68	10 / 5 / 2	50	80	350	1150	0.13	1100	Blue	Gray	Black
BWHQ0030282182N□00	82	10 / 5 / 2	50	80	350	1060	0.16	1100	Gray	Red	Black
BWHQ00302821R10□00	100	10 / 5 / 2	50	62	350	1000	0.16	1000	Brown	Black	Brown
BWHQ00302821R12□00	120	10 / 5 / 2	25	50	100	950	0.20	1000	Brown	Red	Brown
BWHQ00302821R15□00	150	10 / 5 / 2	25	48	100	820	0.23	1000	Brown	Green	Brown
BWHQ00302821R22□00	220	10 / 5 / 2	25	48	100	730	0.45	1000	Red	Red	Brown
BWHQ00302821R27□00	270	10 / 5 / 2	25	48	100	650	0.50	900	Red	Violet	Brown
BWHQ00302821R33□00	330	10 / 5 / 2	25	48	100	570	0.65	900	Orange	Orange	Brown
BWHQ00302821R39□00	390	10 / 5 / 2	25	48	100	530	0.70	900	Orange	White	Brown

Note: When ordering, please specify tolerance code. Tolerance : G=±2% , J=±5% , K=±10%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Measure Equipment :

  L & Q : Agilent E4991A+Agilent HP16197A

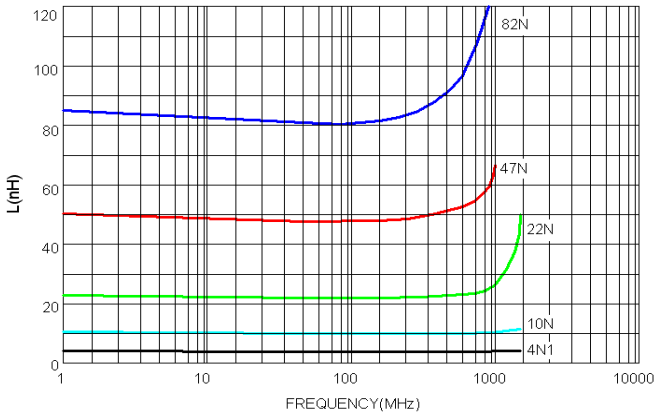
  SRF : Agilent HP8753D/Agilent E4991A

  RDC : HP 4338B or Chroma 16502

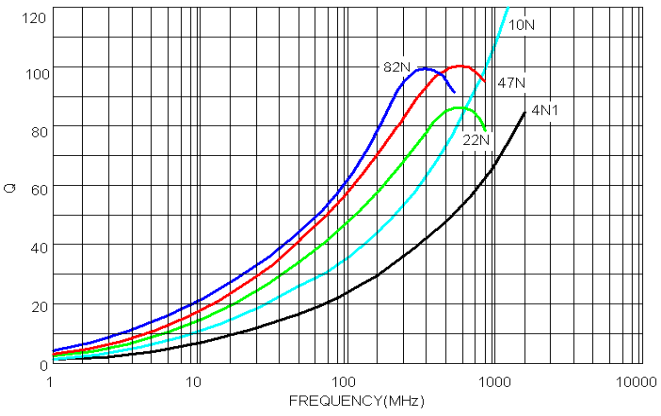
  Irms : HP4284A+HP42841A/HP4285A+HP42841A

Test Instruments : Agilent E4991A Material/Impedance Analyzer

Typical L vs. Frequency



Typical Q vs. Frequency



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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Q Typ.	Test Frequency (MHz)	SRF (MHz) Typ.	RDC (Ω) Max	Irms (mA) Max
BWHQ00493834-R15□00	150	2	75	50	860	0.100	1150
BWHQ00493834-R18□00	180	2	80	50	850	0.105	1150
BWHQ00493834-R22□00	220	2	80	50	700	0.110	940
BWHQ00493834-R27□00	270	2	85	50	730	0.120	940
BWHQ00493834-R33□00	330	2	80	50	600	0.135	850
BWHQ00493834-R39□00	390	2	80	50	600	0.150	850

Note: When ordering, please specify tolerance code. Tolerance : G=±2% ,

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Measure Equipment :

  L & Q：HP4286A/HP4287A/AgilentE4991/Keysight E4982A

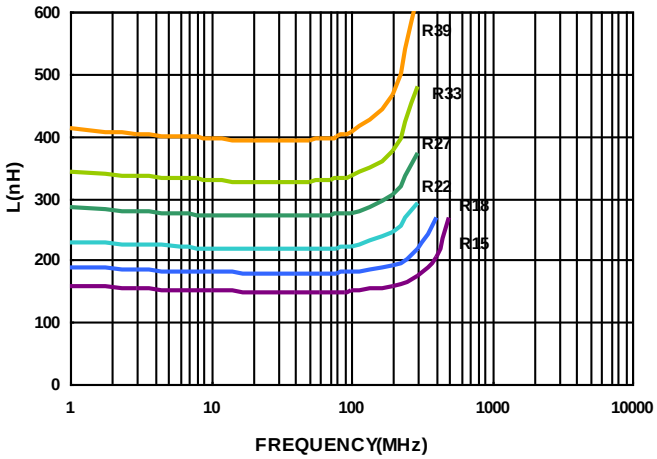
  SRF：Agilent HP8753D/AgilentE4991

  RDC：Chroma 16502

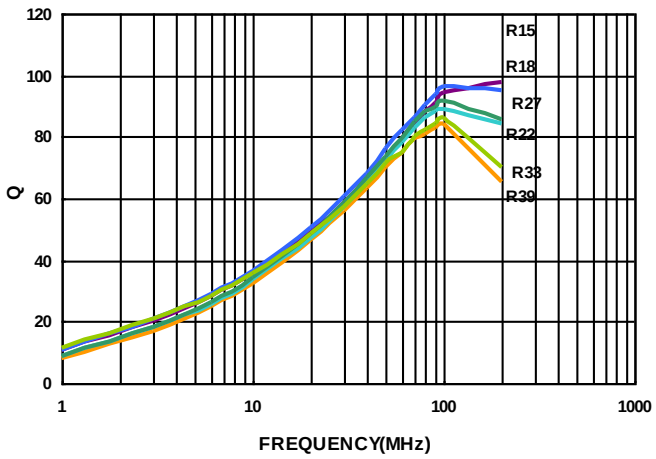
  Irms：HP4284A+HP42841A/HP4285A+HP42841A

Test Instruments：Agilent E4991A Material/Impedance Analyzer

Typical L vs. Frequency



Typical Q vs. Frequency



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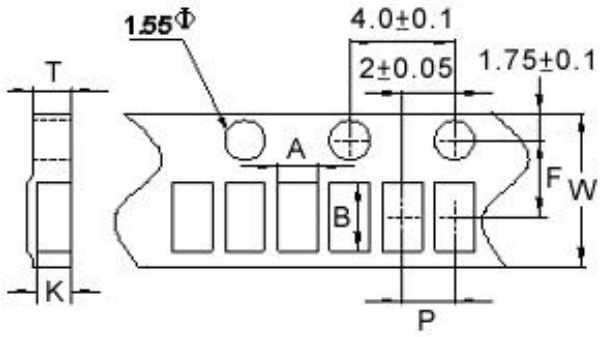
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions | **Reel Dimensions**

Figure 1



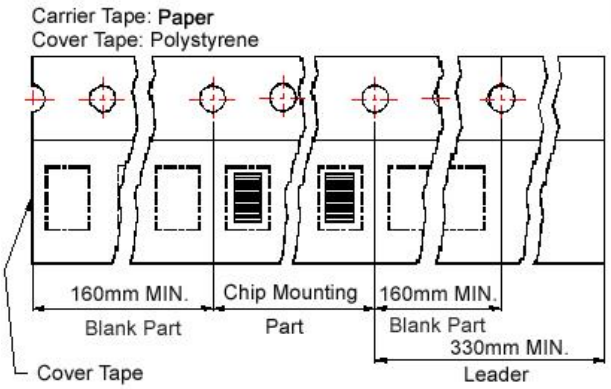
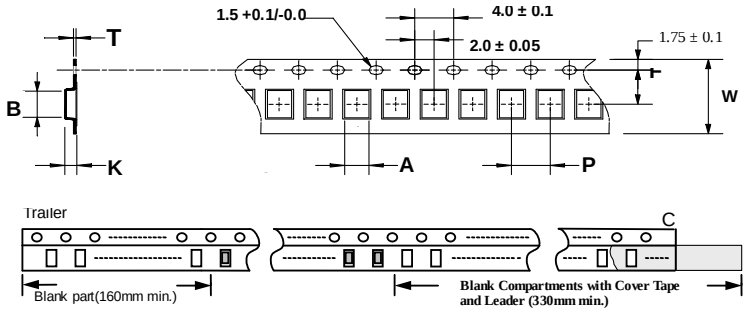
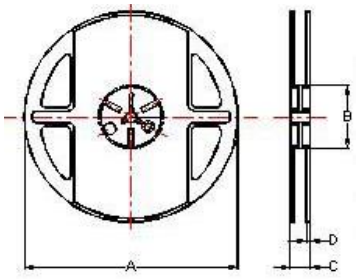


Figure 2





Dimensions in mm

TYPE	Fig.	Tape Dimensions							Reel Dimensions				Quantity
		A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
BWHQ00231816	2	1.85	2.45	0.23	8	4	3.5	1.45	178	60	12	1.5	2000
BWHQ00302821	2	2.80	2.95	0.23	8	4	3.5	2.20	178	60	12	1.5	2000
BWHQ00493834	2	3.90	4.90	0.30	12	8	5.5	3.20	178	60	16	1.4	600

BWHC Series

Due to accurate wire winding technology, these chip inductors are designed for filtering, impedance matching, resonance and choke circuits for RF designer. Both standard series custom designs are available.

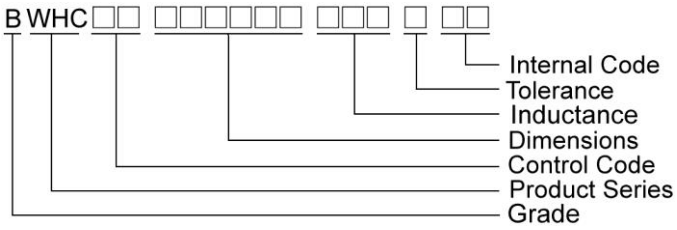
Features

- RoHS compliant
- Ceramic body and wire wound construction provide highest SRFs
- Exceptional Q values even at high frequencies
- Highest possible SRFs as well as excellent Q values
- The non-magnetic coil form assures utmost thermal stability, predictability and batch consistency
- The high current rating and low loss to fit the RF applications

Applications

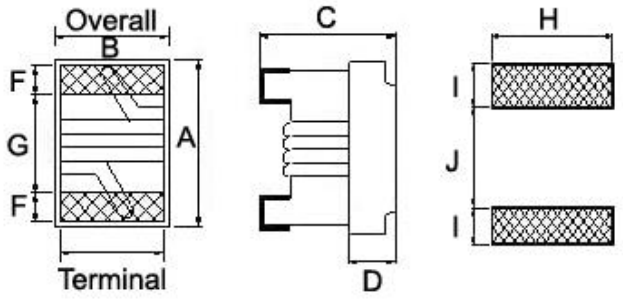
- RF products for cellular phone
- GPS receiver
- Base Station
- Repeater
- Wireless LAN/ mouse/ keyboard/ earphone
- Remote control
- Security system and other RF modules

Product Identification



Shape and Dimensions/ Recommended Pattern

BWHC00181210



Dimensions

		A Max	B Max	C Max	D	E	F	G	H	I	J
BWHC00181210	inch	0.071	0.049	0.04	0.015	0.030	0.013	0.034	0.040	0.025	0.025
	mm	1.80	1.25	1.02	0.38	0.76	0.33	0.86	1.02	0.64	0.64

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	Irms (mA) Max	Color
BWHC001812101N6□00	1.6	10 / 5	250	24	250	12500	0.030	2400	Black
BWHC001812103N6□00	3.6	10 / 5	250	24	250	5900	0.048	2300	Brown
BWHC001812103N9□00	3.9	10 / 5	250	25	250	5900	0.054	2200	Red
BWHC001812104N3□00	4.3	10 / 5	250	25	250	5800	0.054	2100	Orange
BWHC001812106N8□00	6.8	10 / 5	250	35	250	5800	0.054	2100	Orange
BWHC001812107N5□00	7.5	10 / 5	250	35	250	3700	0.059	2100	Yellow
BWHC001812108N2□00	8.2	10 / 5	250	38	250	3700	0.071	2000	Brown
BWHC0018121010N□00	10	10 / 5 / 2	250	38	250	3700	0.071	2000	Green
BWHC0018121012N□00	12	10 / 5 / 2	250	38	250	3000	0.075	2000	Blue
BWHC0018121015N□00	15	10 / 5 / 2	250	38	250	2800	0.080	1900	Violet
BWHC0018121018N□00	18	10 / 5 / 2	250	40	250	2800	0.099	1900	Gray
BWHC0018121022N□00	22	10 / 5 / 2	250	42	250	2400	0.099	1800	White
BWHC0018121024N□00	24	10 / 5 / 2	250	42	250	2400	0.105	1800	Black

Note: When ordering, please specify tolerance code. Tolerance : G=±2% , J=±5% , K=±10%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Irms for a 20℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

  L & Q：Agilent E4991A+Agilent HP16197A

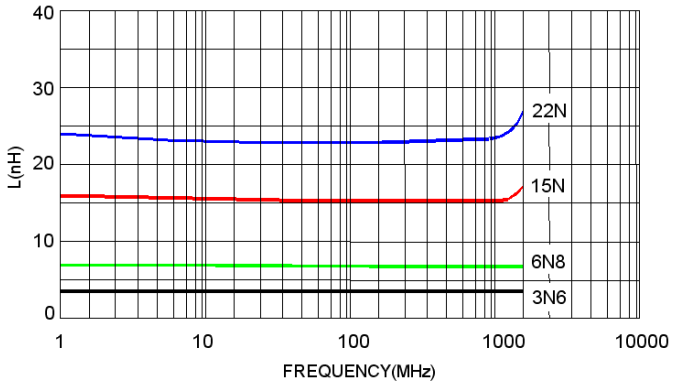
  SRF：Agilent HP8753D

  RDC：HP4338B or Chroma 16502

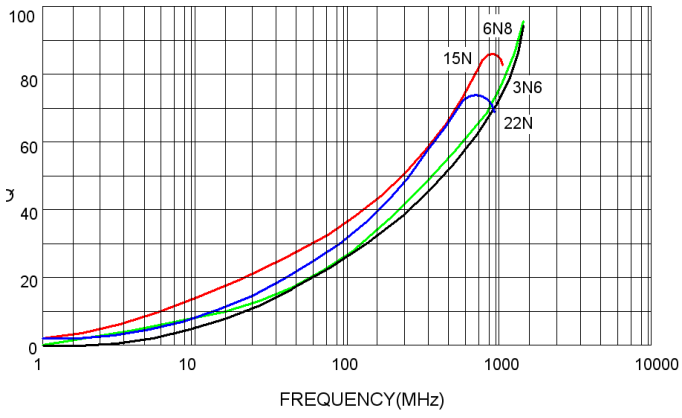
  Irms：HP4284A+HP42841A/HP4285A+HP42841A

Test Instruments：Agilent E4991A Material/Impedance Analyzer

Typical L vs. Frequency



Typical Q vs. Frequency



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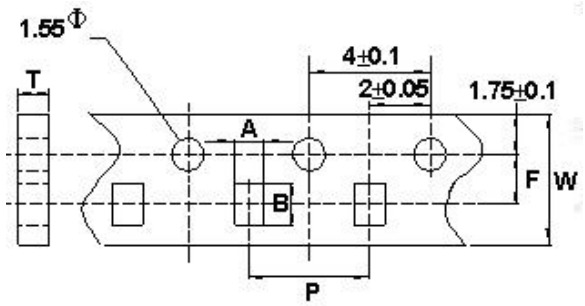
Pulse a YAGEO company

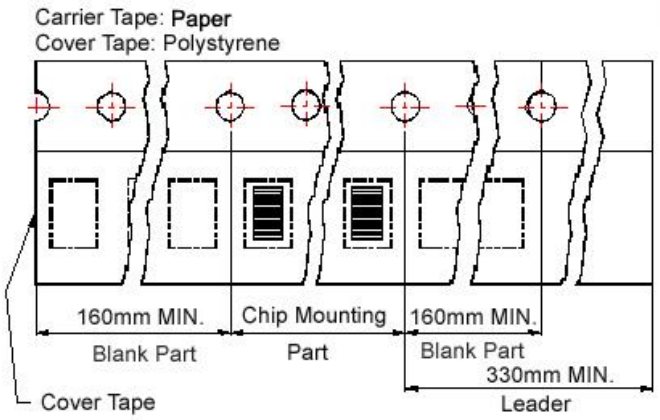
CHILISIN ELECTRONICS CORP.

Packaging Specifications

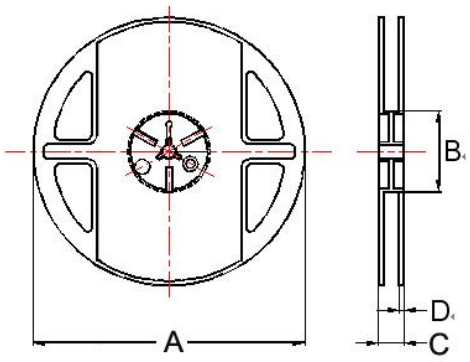
Tape Dimensions



Tape Material



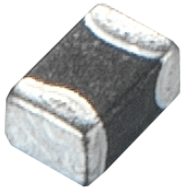
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions						Reel Dimensions				Quantity
	A	B	T	W	P	F	A	B	C	D	PCS / REEL
BWHC00181210	1.25	1.90	1.05	8	4	3.5	178	60	12	1.5	4000

BSCL Series



The SMD multi-layered ferrite chip inductors provide a cost-effective solution for densely packed PC board designs. BSCL series comes in 4 sizes and is suitable for low frequency applications.

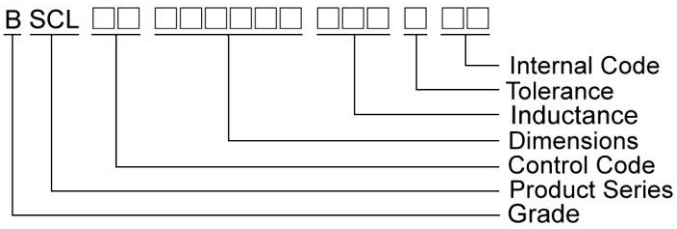
Features

- RoHS compliant
- High mounting density of compact circuit due to crosstalk elimination that results from a closed magnetic flux in a ferrite material
- Suitable for flow and re-flow soldering
- Available in 4 sizes

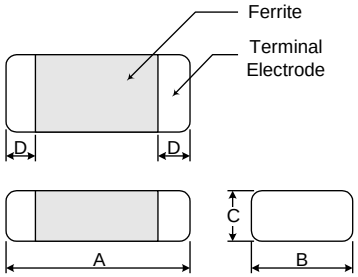
Applications

- Personal computers, HDDs, other various electronic devices
- Any portable device where compact size and high mounting densities are required

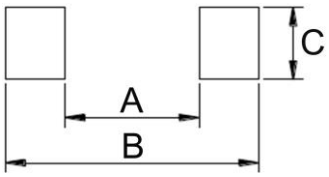
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
BSCL00160808	1.6±0.20	0.80±0.20	0.80±0.20	0.3±0.20
BSCL00201209	2.0±0.20	1.25±0.20	0.90±0.20	0.5±0.30
BSCL00201212	2.0±0.20	1.25±0.20	1.25±0.20	0.5±0.30
BSCL00321611	3.2±0.20	1.60±0.20	1.10±0.20	0.5±0.30

Dimensions in mm

TYPE	A	B	C
BSCL00160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
BSCL00201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.4
BSCL00201212	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
BSCL00321611	2.0 ~ 2.4	4.2 ~ 5.2	1.3 ~ 1.9

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	IDC (mA) Max
BSCL0016080810N□00	0.010	20	15	50	300	0.2	50
BSCL0016080833N□00	0.033	20	15	50	270	0.2	50
BSCL0016080847N□00	0.047	20	15	50	260	0.3	50
BSCL0016080856N□00	0.056	20	15	50	255	0.3	50
BSCL0016080868N□00	0.068	20	15	50	250	0.3	50
BSCL0016080882N□00	0.082	20	15	50	245	0.3	50
BSCL00160808R10□00	0.10	20 / 15 / 10	25	25	240	0.5	50
BSCL00160808R12□00	0.12	20 / 15 / 10	25	25	205	0.5	50
BSCL00160808R15□00	0.15	20 / 15 / 10	25	25	180	0.6	50
BSCL00160808R18□00	0.18	20 / 15 / 10	25	25	165	0.6	50
BSCL00160808R22□00	0.22	20 / 15 / 10	25	25	150	0.8	50
BSCL00160808R27□00	0.27	20 / 15 / 10	25	25	136	0.8	50
BSCL00160808R33□00	0.33	20 / 15 / 10	25	25	125	0.85	35
BSCL00160808R39□00	0.39	20 / 15 / 10	25	25	110	1.00	35
BSCL00160808R47□00	0.47	20 / 15 / 10	25	25	105	1.35	35
BSCL00160808R56□00	0.56	20 / 15 / 10	25	25	95	1.50	35
BSCL00160808R68□00	0.68	20 / 15 / 10	25	25	85	1.70	35
BSCL00160808R82□00	0.82	20 / 15 / 10	25	25	75	2.10	35
BSCL001608081R0□00	1.0	20 / 15 / 10	35	10	65	0.60	25
BSCL001608081R2□00	1.2	20 / 15 / 10	35	10	60	0.80	25
BSCL001608081R5□00	1.5	20 / 15 / 10	35	10	55	0.80	25
BSCL001608081R8□00	1.8	20 / 15 / 10	35	10	50	0.95	25
BSCL001608082R2□00	2.2	20 / 15 / 10	35	10	45	1.00	15
BSCL001608082R7□00	2.7	20 / 15 / 10	35	10	40	1.15	15
BSCL001608083R3□00	3.3	20 / 15 / 10	35	10	38	1.30	15
BSCL001608083R9□00	3.9	20 / 15 / 10	35	10	36	1.50	15
BSCL001608084R7□00	4.7	20 / 15 / 10	35	10	33	1.60	15
BSCL001608085R6□00	5.6	20 / 15 / 10	35	4	22	1.10	5
BSCL001608086R8□00	6.8	20 / 15 / 10	35	4	20	1.30	5
BSCL001608088R2□00	8.2	20 / 15 / 10	30	4	18	1.50	5
BSCL00160808100□00	10	20 / 15 / 10	30	2	17	1.70	5
BSCL00160808120□00	12	20 / 15 / 10	30	2	15	1.80	3
BSCL00160808150□00	15	20 / 15 / 10	20	1	14	1.50	1
BSCL00160808220□00	22	20 / 15 / 10	20	1	11	1.70	1

Note: When ordering, please specify tolerance code. Tolerance : K=±10% , L=±15% , M=±20%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- IDC：Applied the current to coils, the inductance shall be less than 10% initial value
- Measure Equipment：

  L & Q：HP4291A

  SRF：Agilent HP8753D/Agilent E4991A

  RDC：HP4338B or CHEN HWA 502

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF MHz) Min	RDC (Ω) Max	IDC (mA) Max
BSCL0020120922N☐00	0.022	20	20	50	320	0.20	300
BSCL0020120933N☐00	0.033	20 / 15	20	50	320	0.20	300
BSCL0020120947N☐00	0.047	20 / 15	20	50	320	0.20	300
BSCL0020120956N☐00	0.056	20 / 15	20	50	320	0.20	300
BSCL0020120968N☐00	0.068	20 / 15	20	50	280	0.20	300
BSCL0020120982N☐00	0.082	20 / 15	20	50	255	0.20	300
BSCL00201209R10☐00	0.10	20 / 15 / 10	25	25	235	0.30	250
BSCL00201209R12☐00	0.12	20 / 15 / 10	25	25	220	0.30	250
BSCL00201209R15☐00	0.15	20 / 15 / 10	25	25	200	0.40	250
BSCL00201209R18☐00	0.18	20 / 15 / 10	25	25	185	0.40	250
BSCL00201209R22☐00	0.22	20 / 15 / 10	25	25	170	0.50	250
BSCL00201209R27☐00	0.27	20 / 15 / 10	25	25	150	0.50	250
BSCL00201209R33☐00	0.33	20 / 15 / 10	25	25	145	0.55	250
BSCL00201209R39☐00	0.39	20 / 15 / 10	25	25	135	0.65	250
BSCL00201209R47☐00	0.47	20 / 15 / 10	25	25	125	0.65	250
BSCL00201209R56☐00	0.56	20 / 15 / 10	25	25	115	0.75	150
BSCL00201209R68☐00	0.68	20 / 15 / 10	25	25	105	0.80	150
BSCL00201209R82☐00	0.82	20 / 15 / 10	25	25	100	1.00	150
BSCL002012091R0☐00	1.0	20 / 15 / 10	45	10	75	0.40	50
BSCL002012091R2☐00	1.2	20 / 15 / 10	45	10	65	0.50	50
BSCL002012091R5☐00	1.5	20 / 15 / 10	45	10	60	0.50	50
BSCL002012091R8☐00	1.8	20 / 15 / 10	45	10	55	0.60	50
BSCL002012092R2☐00	2.2	20 / 15 / 10	45	10	50	0.65	30

Note: When ordering, please specify tolerance code. Tolerance : K=±10% , L=±15% , M=±20%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- IDC：Applied the current to coils, the inductance shall be less than 10% initial value
- Measure Equipment：

  L & Q：HP4291A

  SRF：Agilent HP8753D/Agilent E4991A

  RDC：HP4338B or CHEN HWA 502

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	IDC (mA) Max
BSCL002012122R7☐00	2.7	20 / 15 / 10	45	10	45	0.75	30
BSCL002012123R3☐00	3.3	20 / 15 / 10	45	10	41	0.80	30
BSCL002012123R9☐00	3.9	20 / 15 / 10	45	10	38	0.90	30
BSCL002012124R7☐00	4.7	20 / 15 / 10	45	10	35	1.00	30
BSCL002012125R6☐00	5.6	20 / 15 / 10	45	4	32	0.90	15
BSCL002012126R8☐00	6.8	20 / 15 / 10	45	4	29	1.00	15
BSCL002012128R2☐00	8.2	20 / 15 / 10	45	4	26	1.10	15
BSCL00201212100☐00	10	20 / 15 / 10	45	2	24	1.10	15
BSCL00201212120☐00	12	20 / 15 / 10	45	2	22	1.20	15
BSCL00201212150☐00	15	20 / 15 / 10	30	1	19	0.80	5
BSCL00201212180☐00	18	20 / 15 / 10	30	1	18	0.90	5
BSCL00201212220☐00	22	20 / 15 / 10	30	1	16	1.1	5

Note: When ordering, please specify tolerance code. Tolerance : K=±10% , L=±15% , M=±20%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- IDC：Applied the current to coils, the inductance shall be less than 10% initial value
- Measure Equipment：

  L & Q：HP4291A

  SRF：Agilent HP8753D/Agilent E4991A

  RDC：HP4338B or CHEN HWA 502

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	IDC (mA) Max
BSCL0032161147N□00	0.047	20	20	50	320	0.15	300
BSCL0032161156N□00	0.056	20	20	50	280	0.25	300
BSCL0032161168N□00	0.068	20	20	50	280	0.25	300
BSCL0032161182N□00	0.082	20	20	50	250	0.25	300
BSCL00321611R10□00	0.10	20 / 15 / 10	25	25	235	0.25	250
BSCL00321611R12□00	0.12	20 / 15 / 10	25	25	220	0.30	250
BSCL00321611R15□00	0.15	20 / 15 / 10	25	25	200	0.30	250
BSCL00321611R18□00	0.18	20 / 15 / 10	25	25	185	0.40	250
BSCL00321611R22□00	0.22	20 / 15 / 10	25	25	170	0.40	250
BSCL00321611R27□00	0.27	20 / 15 / 10	25	25	150	0.50	250
BSCL00321611R33□00	0.33	20 / 15 / 10	25	25	145	0.60	250
BSCL00321611R39□00	0.39	20 / 15 / 10	25	25	135	0.50	200
BSCL00321611R47□00	0.47	20 / 15 / 10	25	25	125	0.60	200
BSCL00321611R56□00	0.56	20 / 15 / 10	25	25	115	0.70	150
BSCL00321611R68□00	0.68	20 / 15 / 10	25	25	105	0.80	150
BSCL00321611R82□00	0.82	20 / 15 / 10	25	25	100	0.90	150
BSCL003216111R0□00	1.0	20 / 15 / 10	45	10	75	0.40	100
BSCL003216111R2□00	1.2	20 / 15 / 10	45	10	65	0.50	100
BSCL003216111R5□00	1.5	20 / 15 / 10	45	10	60	0.50	80
BSCL003216111R8□00	1.8	20 / 15 / 10	45	10	55	0.50	70
BSCL003216112R2□00	2.2	20 / 15 / 10	45	10	50	0.60	60
BSCL003216112R7□00	2.7	20 / 15 / 10	45	10	45	0.60	60
BSCL003216113R3□00	3.3	20 / 15 / 10	45	10	41	0.70	60
BSCL003216113R9□00	3.9	20 / 15 / 10	45	10	38	0.80	50
BSCL003216114R7□00	4.7	20 / 15 / 10	45	10	35	0.90	50
BSCL003216115R6□00	5.6	20 / 15 / 10	45	4	32	0.70	25
BSCL003216116R8□00	6.8	20 / 15 / 10	45	4	29	0.80	25
BSCL003216118R2□00	8.2	20 / 15 / 10	45	4	26	0.90	25
BSCL00321611100□00	10	20 / 15 / 10	45	2	24	1.00	25
BSCL00321611120□00	12	20 / 15 / 10	45	2	22	1.00	15
BSCL00321611150□00	15	20 / 15 / 10	35	1	19	0.70	5
BSCL00321611180□00	18	20 / 15 / 10	35	1	18	0.75	5
BSCL00321611220□00	22	20 / 15 / 10	35	1	16	0.90	5
BSCL00321611270□00	27	20 / 15 / 10	35	1	14	0.90	5

Note: When ordering, please specify tolerance code. Tolerance : K=±10% , L=±15% , M=±20%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- IDC：Applied the current to coils, the inductance shall be less than 10% initial value
- Measure Equipment：

  L & Q：HP4291A

  SRF：Agilent HP8753D/Agilent E4991A

  RDC：HP4338B or CHEN HWA 502

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

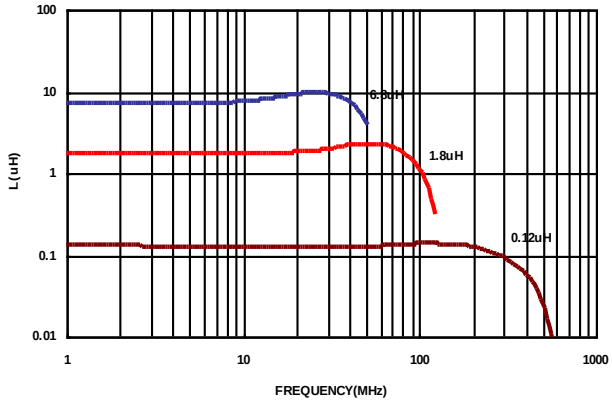
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

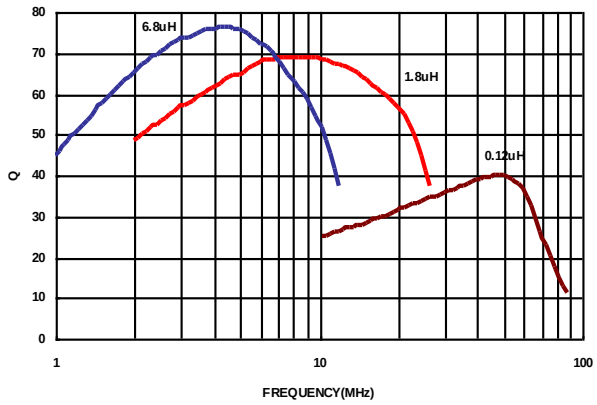
Test Instruments：Agilent E4991A Impedance / Material Analyzer

BSCL00160808

INDUCTANCE vs. FREQUENCY CHARACTERISTICS

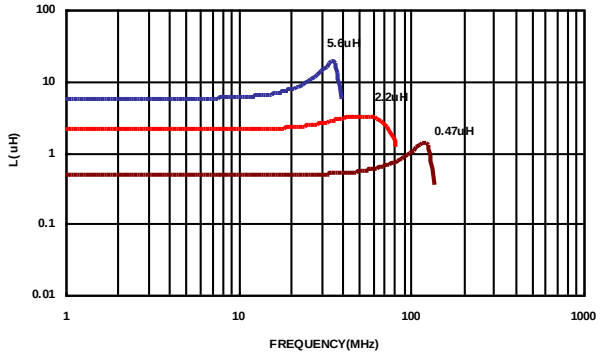


Q vs. FREQUENCY CHARACTERISTICS

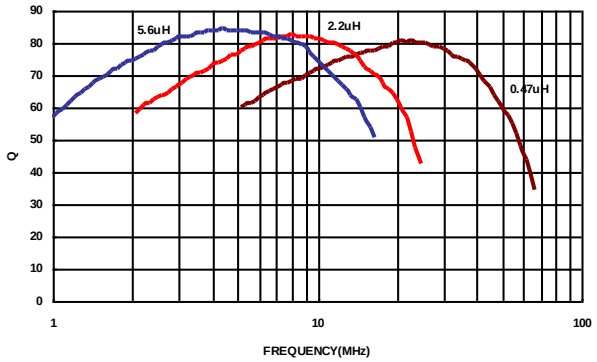


BSCL00201209

INDUCTANCE vs. FREQUENCY CHARACTERISTICS

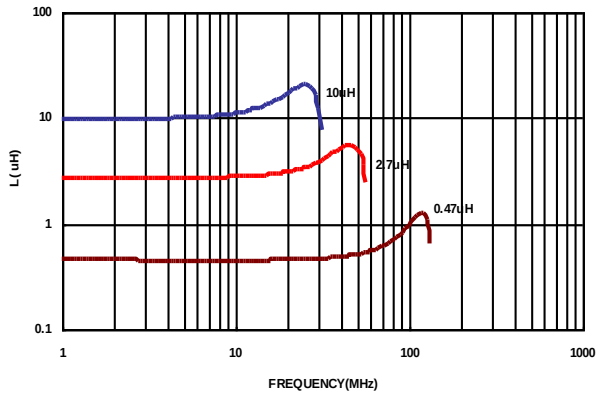


Q vs. FREQUENCY CHARACTERISTICS

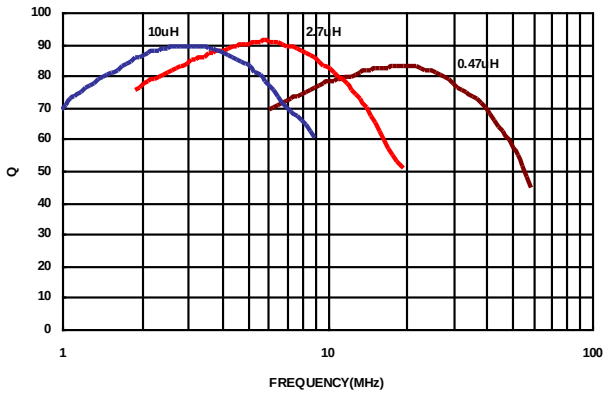


BSCL00321611

INDUCTANCE vs. FREQUENCY CHARACTERISTICS



Q vs. FREQUENCY CHARACTERISTICS



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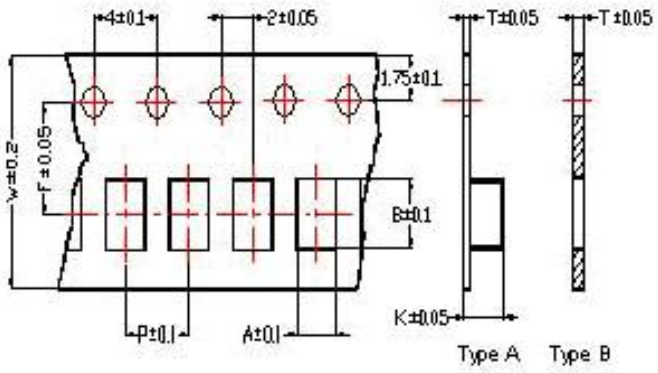
Pulse a YAGEO company

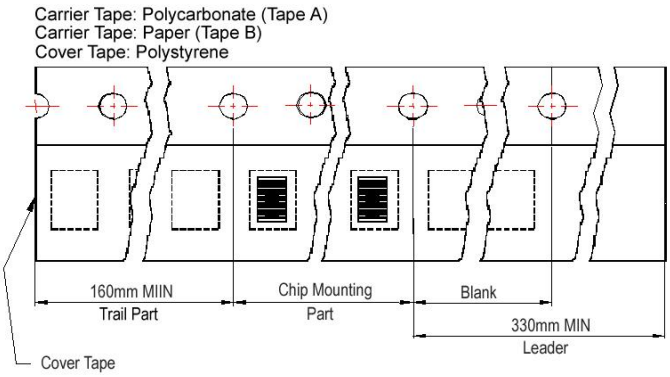
CHILISIN ELECTRONICS CORP.

Packaging Specifications

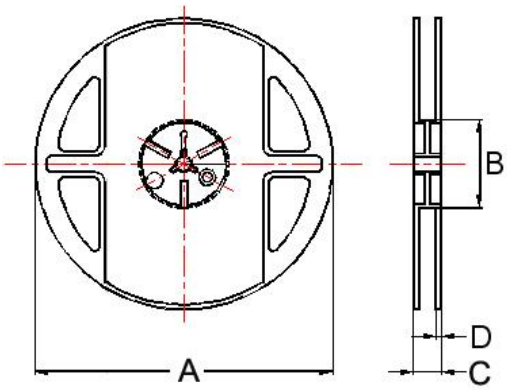
Tape Dimensions



Tape Material



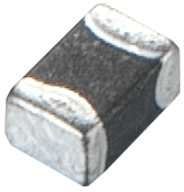
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape	A	B	C	D	PCS / Reel
BSCL00160808	1.05	1.85	0.95	8.0	4.0	3.5	-	B	178	60	12	1.5	4000
BSCL00201209	1.50	2.30	0.97	8.0	4.0	3.5	-	B	178	60	12	1.5	4000
BSCL00201212	1.35	2.25	0.22	8.0	4.0	3.5	1.35	A	178	60	12	1.5	3000
BSCL00321611	1.88	3.50	0.22	8.0	4.0	3.5	1.27	A	178	60	12	1.5	3000

BSCY Series



The SMD multi-layered ferrite chip inductors provide a cost-effective solution for densely packed PC board designs. BSCY series comes in 3 sizes and is suitable for low frequency applications.

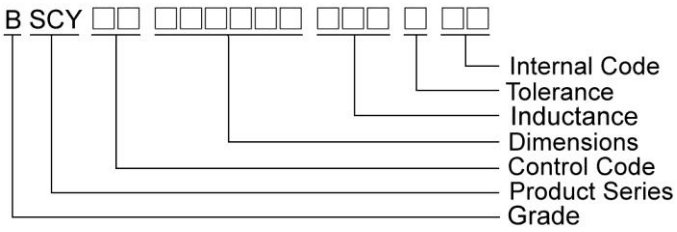
Features

- RoHS compliant
- High mounting density of compact circuit due to crosstalk elimination that results from a closed magnetic flux in a ferrite material
- Suitable for flow and re-flow soldering
- Available in 3 sizes

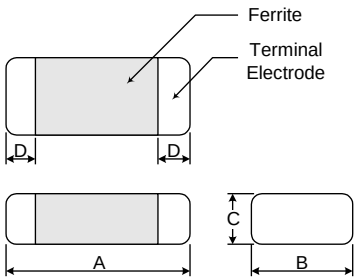
Applications

- Personal computers, HDDs, other various electronic devices
- Any portable device where compact size and high mounting densities are required

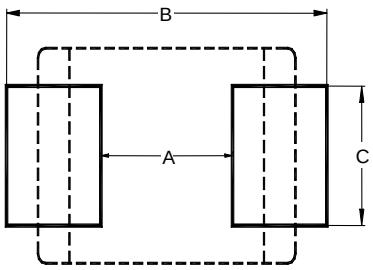
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
BSCY00160808	1.6±0.2	0.80±0.2	0.80±0.2	0.3±0.2
BSCY00201209	2.0±0.2	1.25±0.2	0.90±0.2	0.5±0.3
BSCY00201212	2.0±0.2	1.25±0.2	1.25±0.2	0.5±0.3

Dimensions in mm

TYPE	A	B	C
BSCL00160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
BSCL00201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.4
BSCL00201212	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) Max	Rated Current (mA) Max
BSCY001608082R2☐CP	2.2	30 / 20	1	0.20	1000
BSCY001608084R7☐CP	4.7	30 / 20	1	0.25	800
BSCY00160808100☐CP	10	30 / 20	1	0.90	90

Note: When ordering, please specify tolerance code. Tolerance：M=±20% , T=±30%

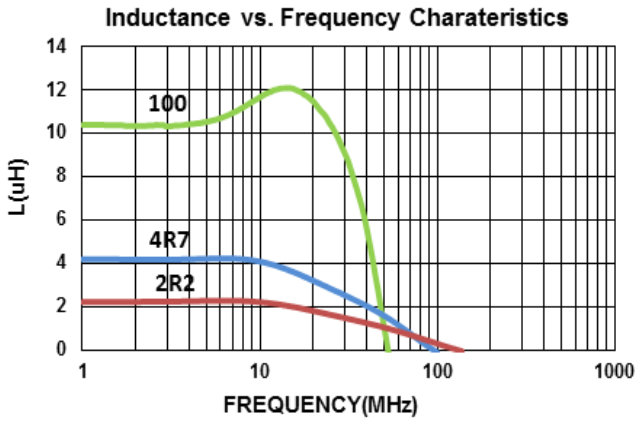
- Operating temperature range - 40℃~105℃(Including self - temperature rise)
- Rated Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

  L & Q：HP4291A

  SRF：Agilent HP8753D/Agilent E4991A

  RDC：HP4338B or CHEN HWA 502

Test Instruments：Agilent E4991A Impedance / Material Analyzer



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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) Max	Rated Current (mA) Max
BSCY002012091R0☐CP	1.0	30 / 20	1	0.06	2200
BSCY002012092R2☐CP	2.2	30 / 20	1	0.10	2000
BSCY002012094R7☐CP	4.7	30 / 20	1	0.30	900

Note: When ordering, please specify tolerance code. Tolerance：M=±20% , T=±30%

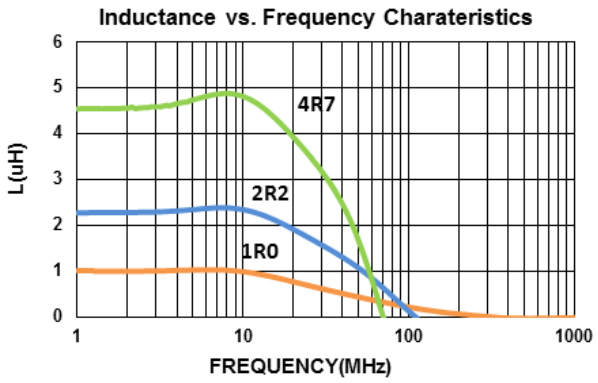
- Operating temperature range - 40℃~105℃(Including self - temperature rise)
- Rated Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

  L & Q：HP4291A

  SRF：Agilent HP8753D/Agilent E4991A

  RDC：HP4338B or CHEN HWA 502

Test Instruments：Agilent E4991A Impedance / Material Analyzer



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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) Max	Rated Current (mA) Max
BSCY00201212100□CP	10	30 / 20	1	0.50	400

Note: When ordering, please specify tolerance code. Tolerance : M=±20% , T=±30%

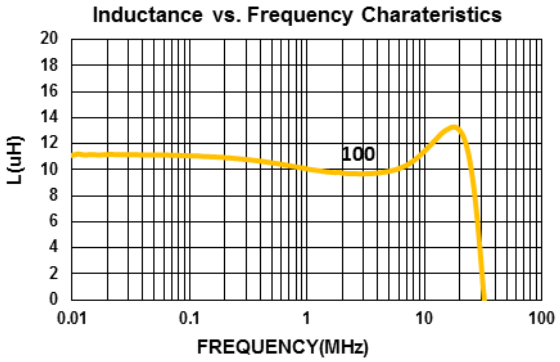
- Operating temperature range - 40℃ ~ 105℃(Including self - temperature rise)
- Rated Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

  L & Q：HP4291A

  SRF：Agilent HP8753D/Agilent E4991A

  RDC：HP4338B or CHEN HWA 502

Test Instruments：Agilent E4991A Impedance / Material Analyzer



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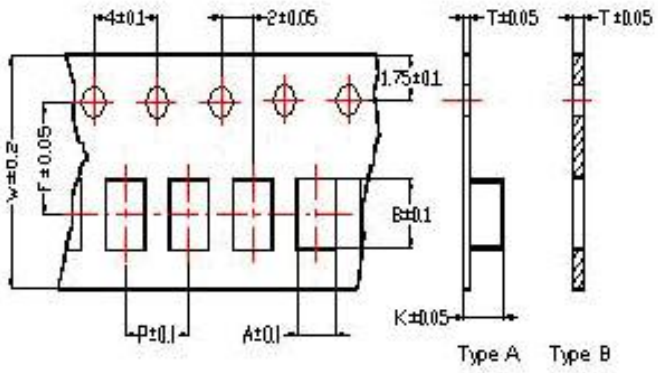
Pulse a YAGEO company

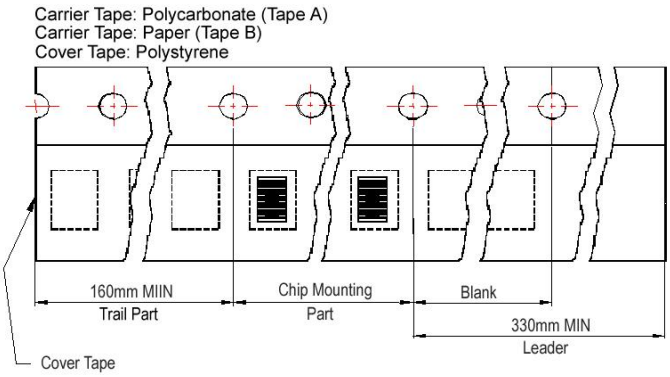
CHILISIN ELECTRONICS CORP.

Packaging Specifications

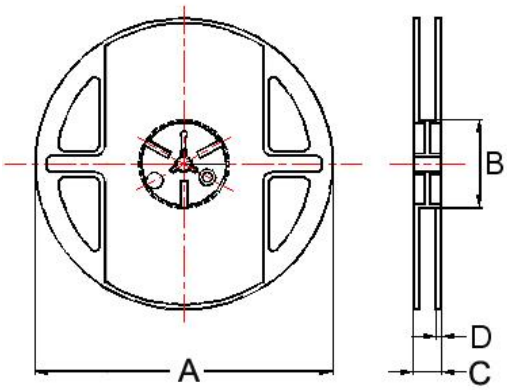
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape	A	B	C	D	PCS / Reel
BSCY00160808	1.05	1.85	0.95	8.0	4.0	3.5	-	B	178	60	12	1.5	4000
BSCY00201209	1.50	2.30	0.97	8.0	4.0	3.5	-	B	178	60	12	1.5	4000
BSCY00201212	1.35	2.25	0.22	8.0	4.0	3.5	1.35	A	178	60	12	1.5	3000

BWNL Series

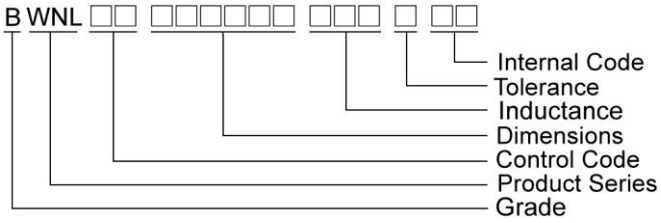
Features

- RoHS compliant
- Strong solderability by reflow soldering and soldering iron
- Highly accurate dimensions
- Can be mounted automatically
- Terminals are highly resistant to external forces
- Highly resistant to mechanical shocks and pressure
- Highly reliable in environments of sudden temperature change and humidity
- Superior Q characteristics and the broadest L selections among peers

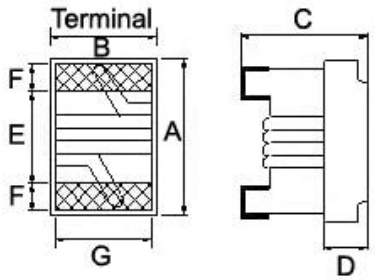
Applications

- Microtelevisions
- Liquid crystal televisions
- Video cameras
- Portable VCRs
- Car radios
- Car stereos
- Thin tape radios
- Television tuners
- Mobile telephones
- Radio and other electronic devices

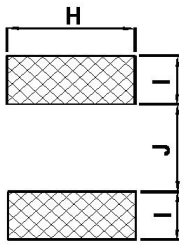
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A Max	B Max	C Max	D	E	F	G	H	I	J
BWNL00241715	2.40	1.72	1.52	0.70	1.02	0.50	1.27	1.78	1.02	0.76
BWNL00292822	2.92	2.79	2.20	0.70	1.50	0.50	2.00	2.54	1.02	1.27
BWNL00292522	2.92	2.50	2.20	0.70	1.50	0.50	2.00	2.54	1.02	1.27

BWNL00292822: at 5N0~R10,
BWNL00292522: at R12~101

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	IDC (mA)	Color
BWNL00241715R12□00	0.12	10 / 5	25	25.2	500	0.20	600	White
BWNL00241715R15□00	0.15	10 / 5	25	25.2	450	0.25	600	Black
BWNL00241715R18□00	0.18	10 / 5	25	25.2	410	0.30	570	Brown
BWNL00241715R22□00	0.22	10 / 5	25	25.2	350	0.35	550	Red
BWNL00241715R27□00	0.27	10 / 5	25	25.2	280	0.40	530	Orange
BWNL00241715R33□00	0.33	10 / 5	25	25.2	235	0.45	510	Yellow
BWNL00241715R39□00	0.39	10 / 5	25	25.2	210	0.50	490	Green
BWNL00241715R47□00	0.47	10 / 5	25	25.2	170	0.55	470	Blue
BWNL00241715R56□00	0.56	10 / 5	25	25.2	150	0.60	450	Violet
BWNL00241715R68□00	0.68	10 / 5	25	25.2	140	0.70	420	Gray
BWNL00241715R82□00	0.82	10 / 5	25	25.2	130	0.75	400	White
BWNL002417151R0□00	1.00	10 / 5	15	7.96	115	0.80	350	Black
BWNL002417151R2□00	1.20	10 / 5	15	7.96	95	0.90	325	Brown
BWNL002417151R5□00	1.50	10 / 5	15	7.96	85	1.05	300	Red
BWNL002417151R8□00	1.80	10 / 5	15	7.96	80	1.20	270	Orange
BWNL002417152R2□00	2.20	10 / 5	15	7.96	75	1.40	250	Yellow
BWNL002417152R7□00	2.70	10 / 5	15	7.96	70	1.60	230	Green
BWNL002417153R3□00	3.30	10 / 5	15	7.96	60	1.80	210	Blue
BWNL002417153R9□00	3.90	10 / 5	15	7.96	55	2.00	190	Violet
BWNL002417154R7□00	4.70	10 / 5	15	7.96	45	2.40	170	Gray
BWNL002417155R6□00	5.60	10 / 5	15	7.96	40	2.70	150	White
BWNL002417156R8□00	6.80	10 / 5	15	7.96	36	3.20	140	Black
BWNL002417158R2□00	8.20	10 / 5	15	7.96	33	3.60	120	Brown
BWNL00241715100□00	10.0	10 / 5	15	2.52	30	4.50	110	Red
BWNL00241715120□00	12.0	10 / 5	15	2.52	25	5.70	105	Orange
BWNL00241715150□00	15.0	10 / 5	15	2.52	23	6.50	90	Yellow
BWNL00241715180□00	18.0	10 / 5	15	2.52	21	7.00	85	Green
BWNL00241715220□00	22.0	10 / 5	15	2.52	20	8.00	78	Blue
BWNL00241715270□00	27.0	10 / 5	15	2.52	18	9.00	75	Violet
BWNL00241715330□00	33.0	10 / 5	15	2.52	17	10.0	70	Gray

Note: When ordering, please specify tolerance code. Tolerance : J=±5% , K=±10%

- Operating temperature range - 25℃ ~ 105℃(Including self - temperature rise)
- IDC for Inductance drop 10% from its value with current
- Measure Equipment :

  L & Q：Agilent E4991A+Agilent HP16197A

  SRF：Agilent E4991A

  RDC：HP4338B or Chroma 16502

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

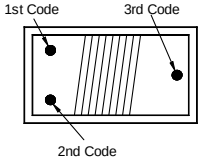
Part Number	Inductance (uH)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	IDC (mA)	Color Coding 1ST	2ND	3RD
BWNL002928225N0□00	0.005	10	10	100	3000	0.25	2000	Black	Green	Black
BWNL0029282210N□00	0.010	10	10	100	2500	0.25	1800	Brown	Black	Black
BWNL0029282212N□00	0.012	10	15	100	2400	0.26	1700	Brown	Red	Black
BWNL0029282215N□00	0.015	10	15	100	2300	0.28	1600	Brown	Green	Black
BWNL0029282218N□00	0.018	10	15	100	2200	0.30	1550	Brown	Gray	Black
BWNL0029282222N□00	0.022	10 / 5	20	100	2100	0.35	1500	Red	Red	Black
BWNL0029282227N□00	0.027	10 / 5	20	100	2000	0.40	1450	Red	Violet	Black
BWNL0029282233N□00	0.033	10 / 5	30	100	1600	0.42	1400	Orange	Orange	Black
BWNL0029282239N□00	0.039	10 / 5	35	100	1500	0.45	1350	Orange	White	Black
BWNL0029282247N□00	0.047	10 / 5	35	100	1400	0.50	1300	Yellow	Violet	Black
BWNL0029282256N□00	0.056	10 / 5	35	100	1300	0.60	1250	Green	Blue	Black
BWNL0029282268N□00	0.068	10 / 5	35	100	1200	0.65	1240	Blue	Gray	Black
BWNL0029282282N□00	0.082	10 / 5	35	100	1100	0.75	1230	Gray	Red	Black
BWNL00292822R10□00	0.10	10 / 5	35	100	800	0.80	1220	Brown	Black	Brown
BWNL00292522R12□00	0.12	10 / 5	30	25.2	700	0.30	900	Brown	Red	Brown
BWNL00292522R15□00	0.15	10 / 5	30	25.2	550	0.35	900	Brown	Green	Brown
BWNL00292522R18□00	0.18	10 / 5	30	25.2	500	0.40	850	Brown	Gray	Brown
BWNL00292522R22□00	0.22	10 / 5	30	25.2	450	0.50	840	Red	Red	Brown
BWNL00292522R27□00	0.27	10 / 5	30	25.2	425	0.55	830	Red	Violet	Brown
BWNL00292522R33□00	0.33	10 / 5	30	25.2	400	0.60	820	Orange	Orange	Brown
BWNL00292522R39□00	0.39	10 / 5	30	25.2	375	0.65	810	Orange	White	Brown
BWNL00292522R47□00	0.47	10 / 5	30	25.2	350	0.68	800	Yellow	Violet	Brown
BWNL00292522R56□00	0.56	10 / 5	30	25.2	325	0.75	800	Green	Blue	Brown
BWNL00292522R68□00	0.68	10 / 5	30	25.2	300	0.85	800	Blue	Gray	Brown
BWNL00292522R82□00	0.82	10 / 5	30	25.2	260	1.0	800	Gray	Red	Brown
BWNL002925221R0□00	1.0	10 / 5	25	7.96	245	1.1	800	Brown	Black	Red
BWNL002925221R2□00	1.2	10 / 5	25	7.96	230	1.2	790	Brown	Red	Red
BWNL002925221R5□00	1.5	10 / 5	25	7.96	182	1.3	750	Brown	Green	Red
BWNL002925221R8□00	1.8	10 / 5	25	7.96	135	1.45	750	Brown	Gray	Red
BWNL002925222R2□00	2.2	10 / 5	25	7.96	105	1.55	750	Red	Red	Red
BWNL002925222R7□00	2.7	10 / 5	25	7.96	70	1.7	740	Red	Violet	Red
BWNL002925223R3□00	3.3	10 / 5	25	7.96	55	1.9	730	Orange	Orange	Red
BWNL002925223R9□00	3.9	10 / 5	25	7.96	48	2.1	700	Orange	White	Red
BWNL002925224R7□00	4.7	10 / 5	25	7.96	43	2.3	650	Yellow	Violet	Red

Note: When ordering, please specify tolerance code. Tolerance : J=±5% , K=±10%

- Operating temperature range - 25℃ ~ 105℃(Including self - temperature rise)
- IDC for Inductance drop 10% from its value with current
- Measure Equipment :

  L & Q：HP4291A/HP4285A

  SRF：HP4291A/HP8753D



COLOR CODING

Chilisin approval. Please contact our sales department before ordering.

RDC：HP4338B or Chroma 16502

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	IDC (mA)	Color Coding 1ST	2ND	3RD
BWNL002925225R6☐00	5.6	10 / 5	20	7.96	42	2.5	640	Green	Blue	Red
BWNL002925226R8☐00	6.8	10 / 5	20	7.96	39	2.7	630	Blue	Gray	Red
BWNL002925228R2☐00	8.2	10 / 5	20	7.96	36	3.05	600	Gray	Red	Red
BWNL00292522100☐00	10	10 / 5	15	2.52	33	3.5	600	Brown	Black	Orange
BWNL00292522120☐00	12	10 / 5	15	2.52	30	3.8	550	Brown	Red	Orange
BWNL00292522150☐00	15	10 / 5	15	2.52	26	4.4	430	Brown	Green	Orange
BWNL00292522180☐00	18	10 / 5	15	2.52	24	4.8	400	Brown	Gray	Orange
BWNL00292522220☐00	22	10 / 5	15	2.52	22	5.5	400	Red	Red	Orange
BWNL00292522270☐00	27	10 / 5	15	2.52	21	6.3	360	Red	Violet	Orange
BWNL00292522330☐00	33	10 / 5	15	2.52	20	7.1	350	Orange	Orange	Orange
BWNL00292522390☐00	39	10 / 5	10	2.52	18	9.5	330	Orange	White	Orange
BWNL00292522470☐00	47	10 / 5	10	2.52	17	11.1	300	Yellow	Violet	Orange
BWNL00292522560☐00	56	10 / 5	10	2.52	16	12.1	270	Green	Blue	Orange
BWNL00292522680☐00	68	10 / 5	10	2.52	15	16.6	250	Blue	Gray	Orange
BWNL00292522820☐00	82	10 / 5	10	2.52	13	19	200	Gray	Red	Orange
BWNL00292522101☐00	100	10 / 5	8	0.796	12	21	120	Brown	Black	Yellow

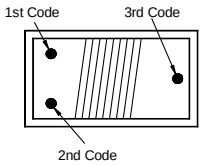
ote: When ordering, please specify tolerance code. Tolerance：J=±5% , K=±10%

- Operating temperature range - 25℃ ~ 105℃(Including self - temperature rise)
- IDC for Inductance drop 10% from its value with current
- Measure Equipment：

  L & Q：HP4291A/HP4285A

  SRF：HP4291A/HP8753D

  RDC：HP4338B or Chroma 16502



COLOR CODING

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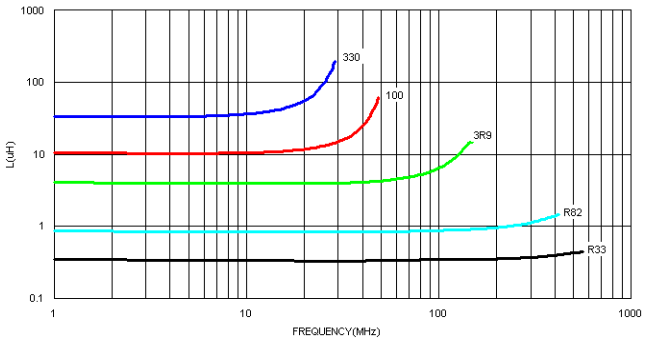
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

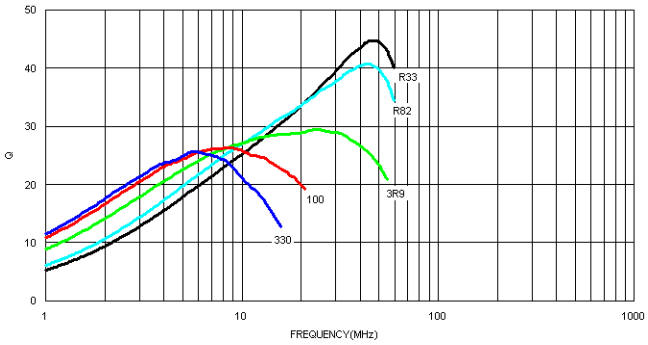
Test Instruments：Agilent E4991A Material/Impedance Analyzer

BWNL00241715

Typical L vs. Frequency

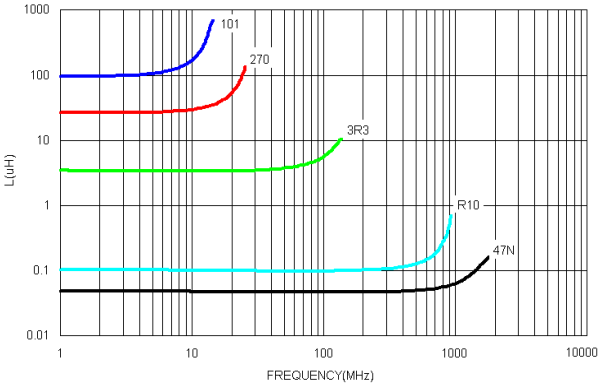


Typical Q vs. Frequency

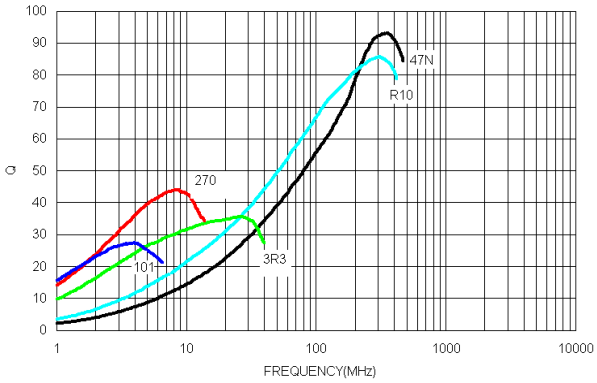


BWNL00292522

Typical L vs. Frequency

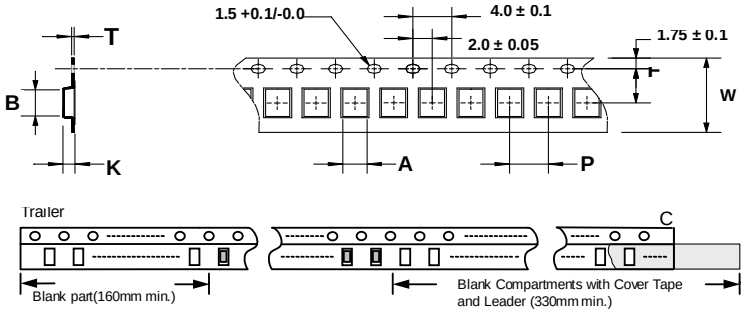


Typical Q vs. Frequency

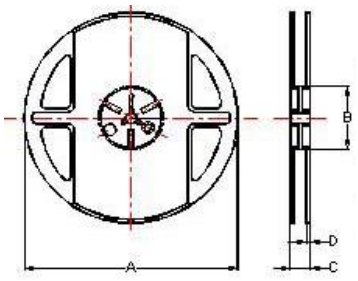


Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / Reel
BWNL00241715	1.85	2.45	0.23	8	4	3.5	1.45	178	60	12	1.5	2000
BWNL00292822(5N0~R10)	2.80	2.95	0.23	8	4	3.5	2.20	178	60	12	1.5	2000
BWNL00292522(R12~101)	2.40	2.93	0.26	8	4	3.5	2.25	178	60	12	1.5	2000

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

BWNC Series

The characteristics of this series perform low RDC and carry large current. These unique open type inductors offer many superior features in opposition to the molding type one of Japanese peers.

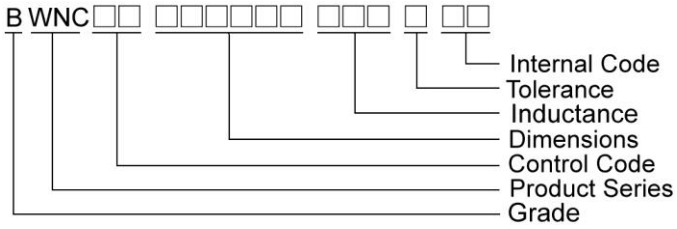
Features

- RoHS compliant
- Very strong solderability by reflow soldering and soldering iron
- Highly accurate dimensions can be mounted automatically
- Terminals are highly resistant to pull forces
- Highly resistant to mechanical shocks and pressure
- Highly reliable in environments of sudden temperature change and humidity
- Superior IDC for DC/DC converter

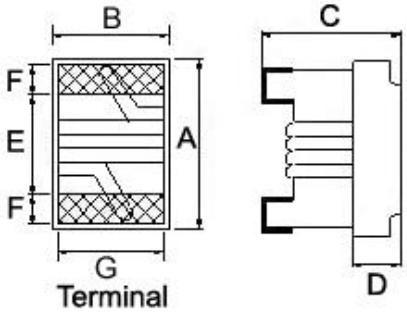
Applications

- DC/DC converter such as DSC
- LCD TV
- Game console
- Portable VCRs
- Conveyable telephone and others

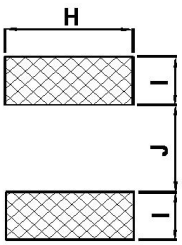
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A Max	B Max	C Max	D	E	F	G	H	I	J
BWNC00292522	2.92	2.50	2.20	0.7	1.5	0.5	2.0	2.54	1.02	1.27
BWNC00372926	3.70	2.90	2.60	0.7	2.0	0.6	2.4	2.70	1.00	2.00

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	IDC (mA)	Color Coding 1ST	2ND	3RD
BWNC002925221R0☐00	1.0	10 / 5	25	7.96	300	0.34	1500	Brown	Black	Red
BWNC002925221R2☐00	1.2	10 / 5	25	7.96	280	0.40	1400	Brown	Red	Red
BWNC002925221R5☐00	1.5	10 / 5	25	7.96	270	0.42	1400	Brown	Green	Red
BWNC002925221R8☐00	1.8	10 / 5	25	7.96	150	0.45	1200	Brown	Gray	Red
BWNC002925222R2☐00	2.2	10 / 5	25	7.96	140	0.50	1200	Red	Red	Red
BWNC002925223R3☐00	3.3	10 / 5	25	7.96	95	0.65	1000	Orange	Orange	Red
BWNC002925224R7☐00	4.7	10 / 5	25	7.96	90	0.80	800	Yellow	Violet	Red
BWNC002925226R8☐00	6.8	10 / 5	25	7.96	68	1.00	730	Blue	Gray	Red
BWNC00292522100☐00	10	10 / 5	20	2.52	45	1.50	700	Brown	Black	Orange
BWNC00292522150☐00	15	10 / 5	20	2.52	40	2.20	500	Brown	Green	Orange
BWNC00292522220☐00	22	10 / 5	20	2.52	25	2.70	470	Red	Red	Orange
BWNC00292522330☐00	33	10 / 5	20	2.52	25	4.00	400	Orange	Orange	Orange
BWNC00292522390☐00	39	10 / 5	16	2.52	20	7.00	320	Orange	White	Orange
BWNC00292522470☐00	47	10 / 5	16	2.52	20	8.00	300	Yellow	Violet	Orange

Note: When ordering, please specify tolerance code. Tolerance : J=±5% , K=±10%

- Operating temperature range－40℃～105℃(Including self - temperature rise)
- IDC for Inductance drop 10% from its value with current
- Measure Equipment：

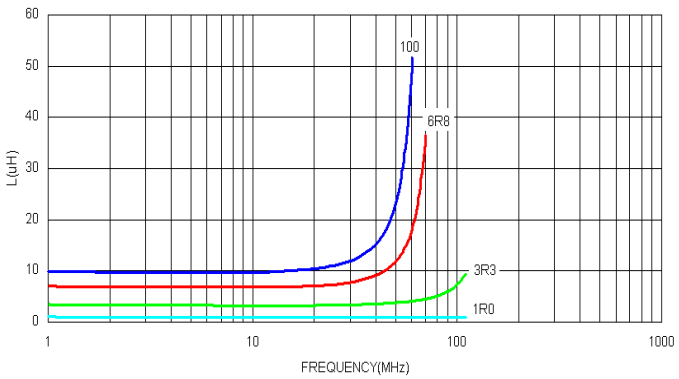
  L & Q：Agilent HP4291A/Agilent HP4285A+Agilent HP16197A

  SRF：Agilent HP4291A

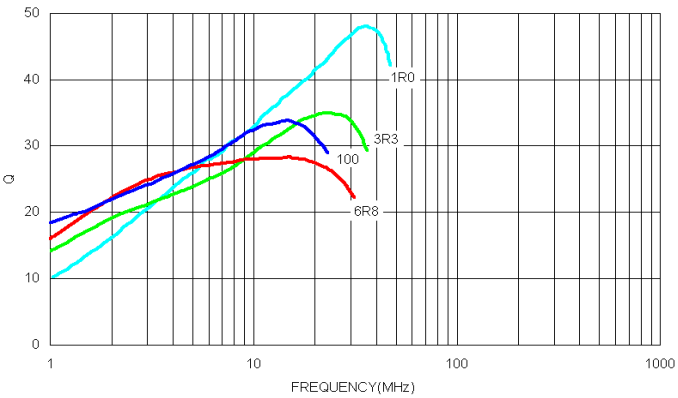
  RDC：HP4338B or Chroma 16502

Test Instruments：Agilent HP4291A Material/Impedance Analyzer

Typical L vs. Frequency



Typical Q vs. Frequency



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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Typ.	RDC (Ω)±30%	IDC (mA)	Color Coding 1ST	2ND	3RD
BWNC00372926R33□00	0.33	5 / 10 / 20	40	25.2	650	0.07	1600	Orange	Orange	Brown
BWNC00372926R47□00	0.47	5 / 10	40	25.2	450	0.07	1800	Yellow	Violet	Brown
BWNC003729261R0□00	1.0	5 / 10	20	7.96	100	0.08	1500	Brown	Black	Red
BWNC003729261R2□00	1.2	5 / 10	20	7.96	90	0.12	1400	Brown	Red	Red
BWNC003729261R5□00	1.5	5 / 10	20	7.96	80	0.13	1125	Brown	Green	Red
BWNC003729261R8□00	1.8	5 / 10	20	7.96	70	0.13	970	Brown	Gray	Red
BWNC003729262R2□00	2.2	5 / 10	20	7.96	68	0.13	970	Red	Red	Red
BWNC003729262R7□00	2.7	5 / 10	20	7.96	62	0.15	900	Red	Violet	Red
BWNC003729263R3□00	3.3	5 / 10	20	7.96	54	0.16	837	Orange	Orange	Red
BWNC003729264R7□00	4.7	5 / 10	20	7.96	43	0.23	675	Yellow	Violet	Red
BWNC003729265R6□00	5.6	5 / 10	20	7.96	36	0.26	620	Green	Blue	Red
BWNC003729266R8□00	6.8	5 / 10	20	7.96	33	0.27	600	Blue	Gray	Red
BWNC003729268R2□00	8.2	5 / 10	20	7.96	30	0.32	580	Gray	Red	Red
BWNC00372926100□00	10	5 / 10	15	2.52	28	0.36	520	Brown	Black	Orange
BWNC00372926120□00	12	5 / 10	15	2.52	25	0.50	500	Brown	Red	Orange
BWNC00372926150□00	15	5 / 10	15	2.52	19	0.56	480	Brown	Green	Orange
BWNC00372926180□00	18	5 / 10	15	2.52	17	0.67	330	Brown	Gray	Orange
BWNC00372926220□00	22	5 / 10	15	2.52	16	0.77	310	Red	Red	Orange
BWNC00372926270□00	27	5 / 10	15	2.52	13	1.00	280	Red	Violet	Orange
BWNC00372926330□00	33	5 / 10	15	2.52	12	1.10	270	Orange	Orange	Orange
BWNC00372926390□00	39	5 / 10	15	2.52	11	1.40	220	Orange	White	Orange
BWNC00372926470□00	47	5 / 10	15	2.52	10	1.64	210	Yellow	Violet	Orange
BWNC00372926560□00	56	5 / 10	15	2.52	9	2.49	189	Green	Blue	Orange
BWNC00372926680□00	68	5 / 10	15	2.52	9	2.80	189	Blue	Gray	Orange
BWNC00372926820□00	82	5 / 10	15	2.52	6	3.00	145	Gray	Red	Orange
BWNC00372926101□00	100	5 / 10	15	0.796	6	3.70	145	Brown	Black	Yellow
BWNC00372926151□00	150	5 / 10	15	0.796	5	6.10	120	Brown	Green	Yellow
BWNC00372926181□00	180	5 / 10	15	0.796	4	8.00	105	Brown	Gray	Yellow
BWNC00372926221□00	220	5 / 10	15	0.796	4	8.40	100	Red	Red	Yellow
BWNC00372926331□00	330	5 / 10	15	0.796	3.5	12.3	80	Orange	Orange	Yellow
BWNC00372926391□00	390	5 / 10	15	0.796	2.8	17.6	75	Orange	White	Yellow
BWNC00372926471□00	470	5 / 10	15	0.796	2.8	22.0	75	Yellow	Violet	Yellow
BWNC00372926561□00	560	5 / 10	15	0.796	2.5	23.0	65	Green	Blue	Yellow
BWNC00372926681□00	680	5 / 10	15	0.796	2	28.0	65	Blue	Gray	Yellow

Note: When ordering, please specify tolerance code. Tolerance : J=±5% , K=±10%

- Operating temperature range－40℃～105℃(Including self - temperature rise)
- IDC for Inductance drop 10% from its value with current
- Measure Equipment：
  L & Q：Agilent HP4291A(over 1MHz)/Agilent HP4285A+Agilent HP16197A (under 1MHz)
  SRF：Agilent HP4291A
  RDC：HP4338B or Chroma 16502

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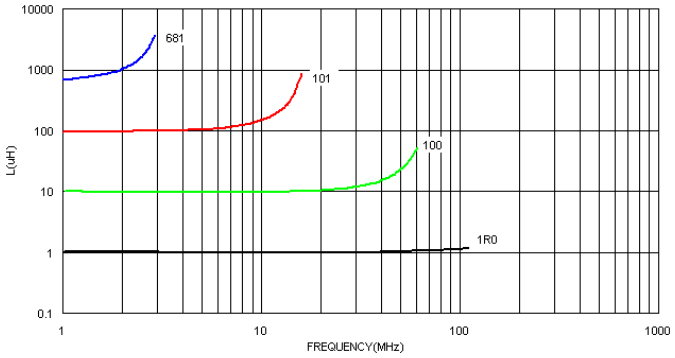
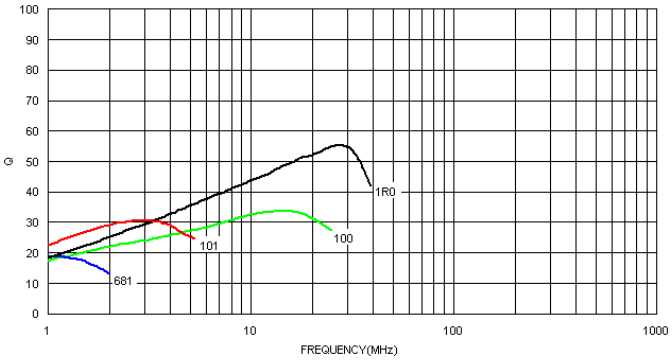
Test Instruments：Agilent HP4291A Material/Impedance Analyzer

*Typical **L** vs. **F**requency*

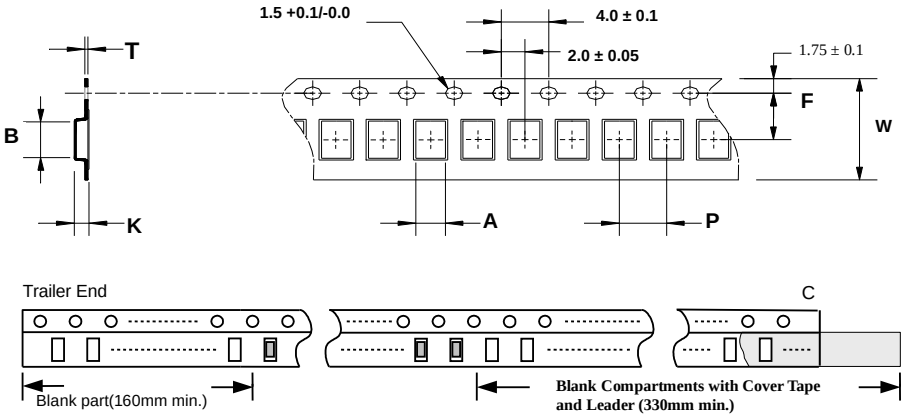


*Typical **Q** vs. **F**requency*

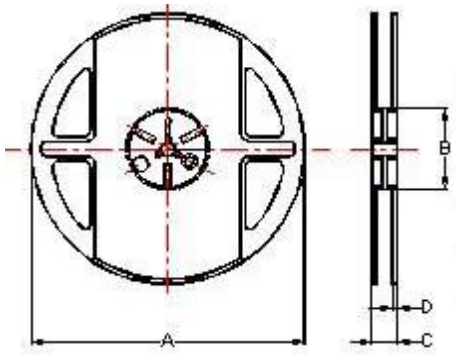


Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / Reel
BWNC00292522	2.40	2.93	0.26	8	4	3.5	2.25	178	60	12	1.5	2000
BWNC00372926	2.85	3.58	0.25	8	4	3.5	2.53	178	60	16	1.4	2000

BWLD Series

BWLD series is the newest open type ferrite wire wound chip inductors. The wire wound ferrite construction supports lower DCR than other open type inductors.

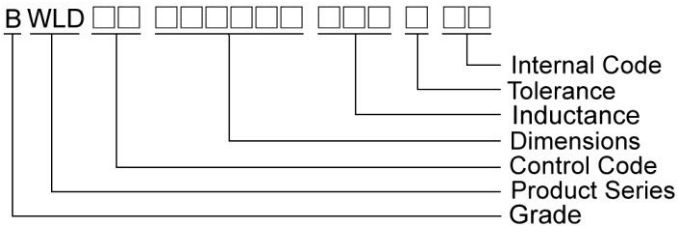
Features

- RoHS compliant
- SMD type wire-wound chip inductor with low DC resistance
- Wide inductance range (0.9uH~100uH)

Applications

- DSC, DVC, MD, PDA
- Portable digital devices

Product Identification



Shape and Dimensions / Recommended Pattern

FIG1

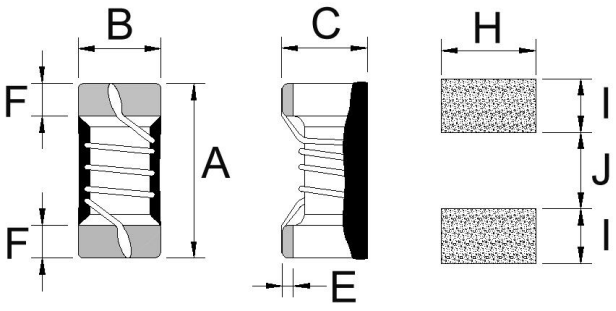
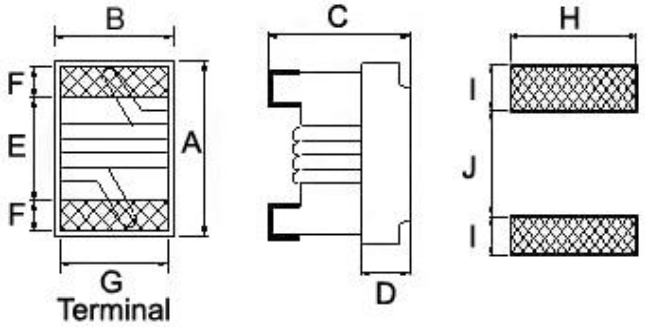


FIG2



Dimensions in mm

TYPE	FIG	A Max	B Max	C Max	D	E	F	G	H	I	J
BWLD00181010	1	1.80±0.1	1.0±0.1	0.95±0.1	-	0.1	0.35	-	1.02	0.64	0.64
BWLD00241715	2	2.4	1.72	1.52	0.70	1.00	0.50	1.27	1.78	1.02	0.76
BWLD00302522	2	2.99	2.50	2.20	0.70	1.52	0.51	2.03	2.54	1.02	1.27

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	Q Typ.	SRF (MHz)Typ.	RDC (Ω±30%)	IDC (mA)Typ.	Color
BWLD001810101R0□00	1.0	5 / 10 / 20	7.96	16	390	0.32	700	Black
BWLD001810102R2□00	2.2	5 / 10 / 20	7.96	16	82	0.56	580	Orange
BWLD001810104R7□00	4.7	5 / 10 / 20	7.96	16	51	0.97	420	Violet
BWLD001810106R8□00	6.8	5 / 10 / 20	7.96	16	43	1.5	340	White
BWLD00181010100□00	10	5 / 10 / 20	7.96	14	36	1.85	280	Brown
BWLD00181010150□00	15	5 / 10 / 20	7.96	14	29	2.6	240	Orange
BWLD00181010220□00	22	5 / 10 / 20	2.52	14	24	3.61	200	Green

Note: When ordering, please specify tolerance code. Tolerance: J=±5% , K=±10% , M=±20%

- Operating temperature range - 40℃ ~ 105℃(Including self - temperature rise)
- IDC for Inductance drop 10% from its value with current
- Measure Equipment：

  L & Q：Agilent E4991A+Agilent HP16197A(over 1MHz)/Agilent HP4285A(under 1MHz)

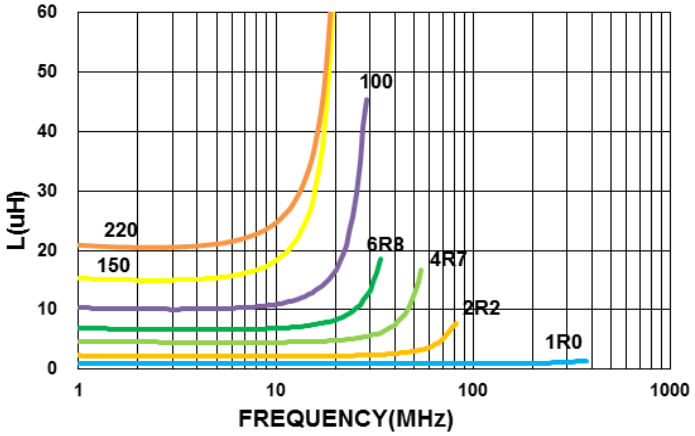
  SRF：HP8753D/Agilent E4991A

  RDC：Chroma 16502

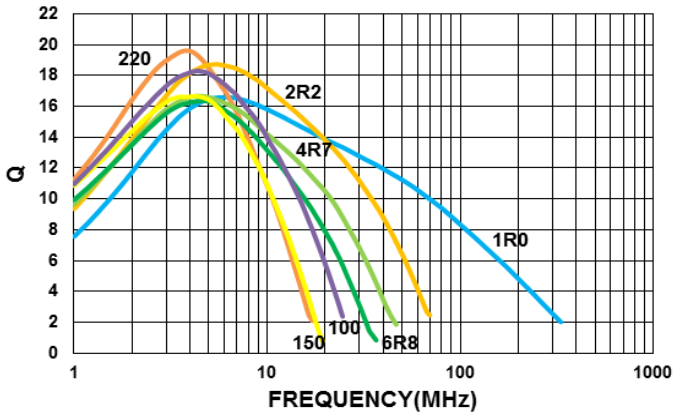
  IDC：HP4284A+HP42841A/HP4285A+HP42841A

Test Instruments：Agilent E4991A Material/Impedance Analyzer

Typical L vs. Frequency



Typical Q vs. Frequency



Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	Q Typ.	SRF (MHz) Min	RDC (Ω±30%)	IDC (mA)	Color
BWLD002417151R0□00	1.0	10 / 20	7.96	18	100	0.10	800	Black
BWLD002417151R5□00	1.5	10 / 20	7.96	18	90	0.18	650	Brown
BWLD002417152R2□00	2.2	10 / 20	7.96	18	70	0.24	550	Red
BWLD002417153R3□00	3.3	10 / 20	7.96	18	55	0.30	450	Orange
BWLD002417154R7□00	4.7	10 / 20	7.96	18	50	0.47	360	Yellow
BWLD002417156R8□00	6.8	10 / 20	7.96	18	60	0.75	290	Green
BWLD00241715100□00	10	10 / 20	2.52	18	25	0.90	290	Blue
BWLD00241715150□00	15	10 / 20	2.52	18	25	1.60	230	Violet
BWLD00241715220□00	22	10 / 20	2.52	18	17	1.95	190	Gray
BWLD00241715330□00	33	10 / 20	2.52	17	15	2.60	120	White
BWLD00241715470□00	47	10 / 20	2.52	17	11	3.90	95	Black
BWLD00241715680□00	68	10 / 20	2.52	17	11	5.50	95	Brown
BWLD00241715101□00	100	10 / 20	1.00	12	9	9.00	70	Red

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20%

- Operating temperature range - 25℃ ~ 105℃(Including self - temperature rise)
- IDC for Inductance drop 10% from its value with current
- Measure Equipment：

  L & Q：Agilent E4991A+Agilent HP16197A(over 1MHz)/Agilent HP4285A(under 1MHz)

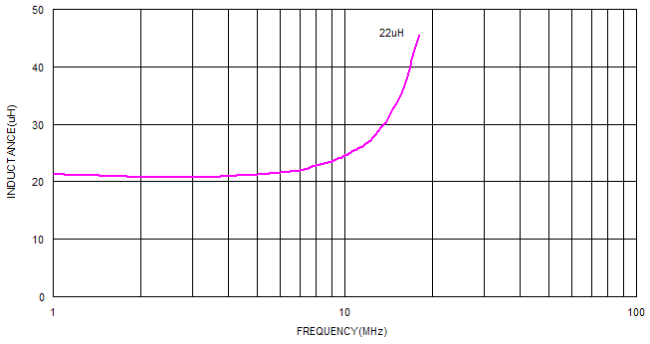
  SRF：HP8753D/Agilent E4991A

  RDC：Chroma 16502

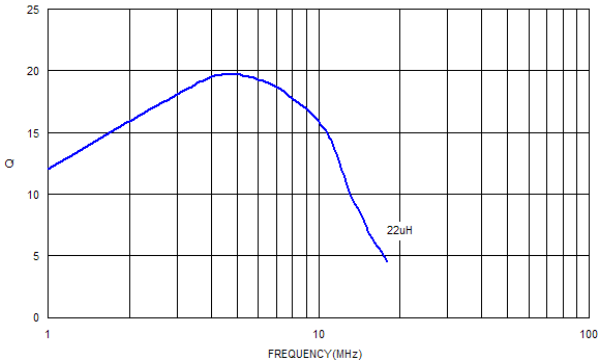
  IDC：HP4284A+HP42841A/HP4285A+HP42841A

Test Instruments：Agilent E4991A Material/Impedance Analyzer

Typical L vs. Frequency



Typical Q vs. Frequency



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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	Q Typ.	SRF (MHz) Min	RDC (Ω) Max	IDC (mA) Typ.	Irms (mA) Max	Color 1ST	Color 2ND	Color 3RD
BWLD00302522R90□00	0.9	10	2.5	25	300	0.1	1400	1300	White	Black	Brown
BWLD003025221R1□00	1.1	10	2.5	24	275	0.105	1300	1200	Brown	Brown	Red
BWLD003025221R3□00	1.3	5 / 10	2.5	24	220	0.11	1200	1100	Brown	Orange	Red
BWLD003025221R5□00	1.5	5 / 10	2.5	22	210	0.125	1100	1000	Brown	Yellow	Red
BWLD003025221R9□00	1.9	5 / 10	2.5	22	165	0.14	1000	1000	Brown	White	Red
BWLD003025222R2□00	2.2	5 / 10	2.5	21	75	0.155	950	950	Red	Red	Red
BWLD003025222R7□00	2.7	5 / 10	2.5	22	57	0.19	800	900	Red	Violet	Red
BWLD003025223R3□00	3.3	5 / 10	2.5	21	54	0.21	750	800	Orange	Orange	Red
BWLD003025223R9□00	3.9	5 / 10	2.5	21	50	0.22	700	800	Orange	White	Red
BWLD003025224R7□00	4.7	5 / 10	2.5	27	48	0.435	700	650	Yellow	Violet	Red
BWLD003025225R8□00	5.8	5 / 10	2.5	21	33	0.28	550	750	Green	Gray	Red
BWLD003025226R8□00	6.8	5 / 10	2.5	20	28	0.315	500	700	Blue	Gray	Red
BWLD003025228R2□00	8.2	5 / 10	2.5	20	24	0.395	500	650	Gray	Red	Red
BWLD00302522100□00	10	5 / 10	2.5	22	20	0.48	450	550	Brown	Black	Orange

Note: When ordering, please specify tolerance code. Tolerance: J=±5% , K=±10%

- Operating temperature range - 25℃ ~ 105℃(Including self - temperature rise)
- IDC for Inductance drop 10% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

  L：Agilent E4991A/HP4287A+16197A

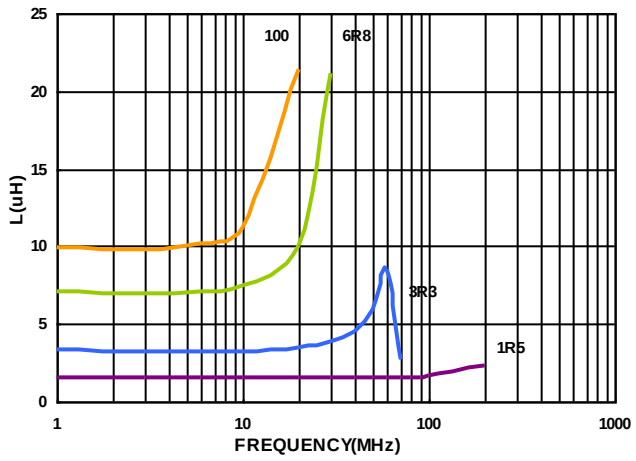
  SRF：HP8753D/Agilent E4991A

  RDC：Chroma 16502

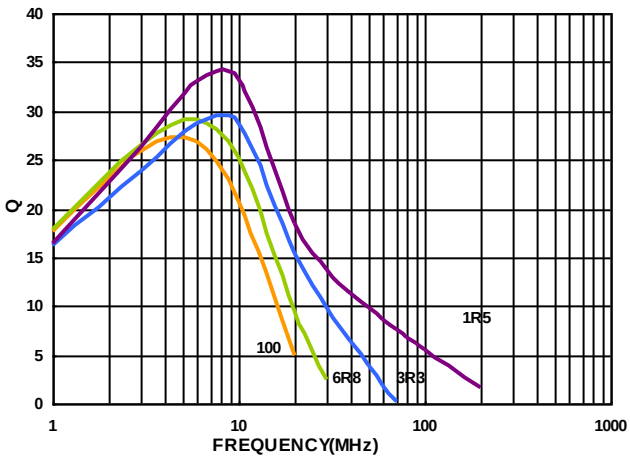
  IDC：HP4284A+HP42841A/HP4285A+HP42841A

Test Instruments：Agilent E4991A Material/Impedance Analyzer

Typical L vs. Frequency



Typical Q vs. Frequency



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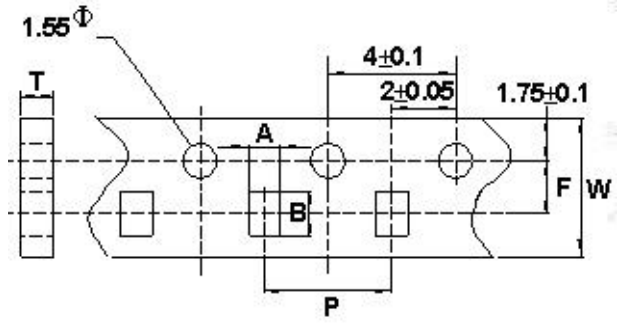
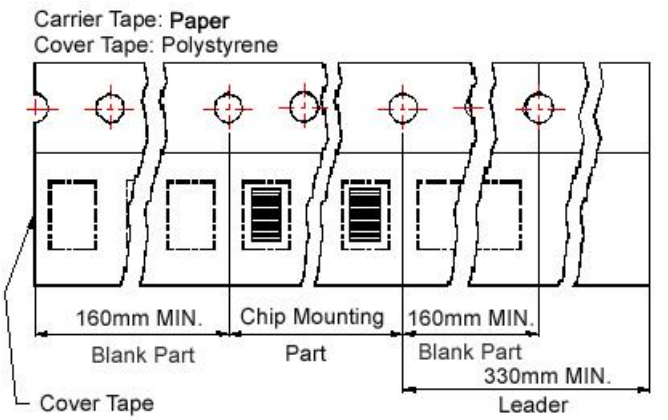
Packaging Specifications

Tape Dimensions

FIG1

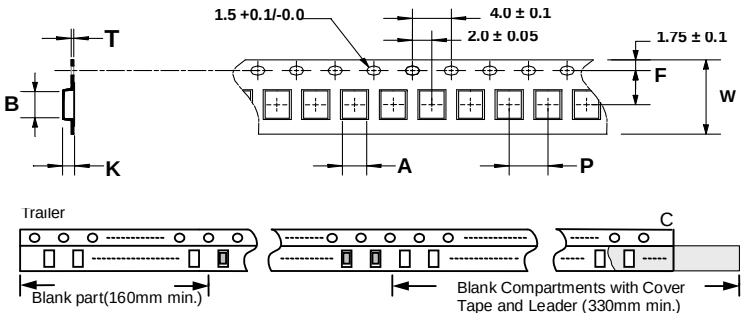


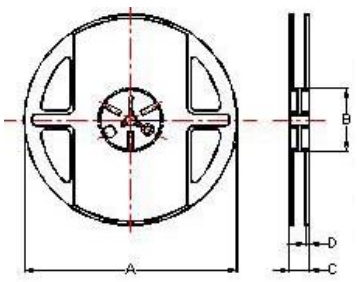
Tape Material



Reel Dimensions

FIG2





Dimensions in mm

TYPE	FIG	Tape Dimensions							Reel Dimensions				Quantity
		A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
BWLD00181010	1	1.20	2.42	1.1	8	4	3.5	-	178	60	12	1.5	4000
BWLD00241715	2	1.60	2.42	0.22	8	4	3.5	1.45	178	60	12	1.5	2000
BWLD00302522	2	2.40	2.93	0.26	8	4	3.5	2.25	178	60	12	1.5	2000

BWLS Series

BWLS Series is the newest in open type ferrite wire wound chip inductors. The wire wound ferrite construction supports higher SRF, lower DCR and superior Q values than other ferrite chip inductors.

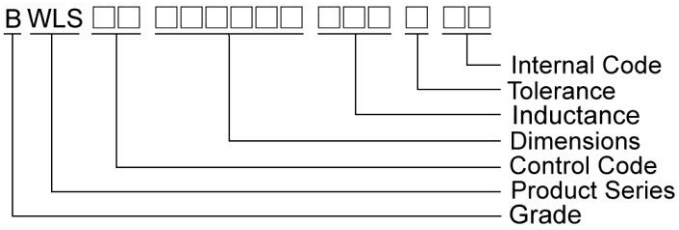
Features

- RoHS compliant
- Very strong solderability by reflow soldering and soldering iron
- Highly accurate dimensions
- Can be mounted automatically
- Terminals are highly resistant to external forces
- Highly resistant to mechanical shocks and pressure
- Highly reliable in environments of sudden temperature change and humidity
- Low DCR & better Q value in ferrite series

Applications

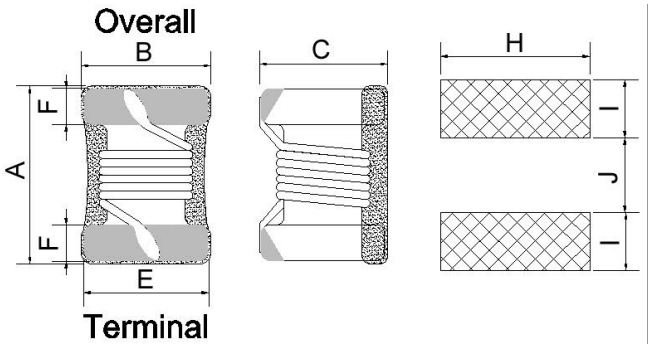
- Telecom and datacom applications such as xDSL
- Cable modem
- Set-top box
- CATV filter/tuner
- Wireless LAN, etc

Product Identification



Shape and Dimensions / Recommended Pattern

BWLS00060404



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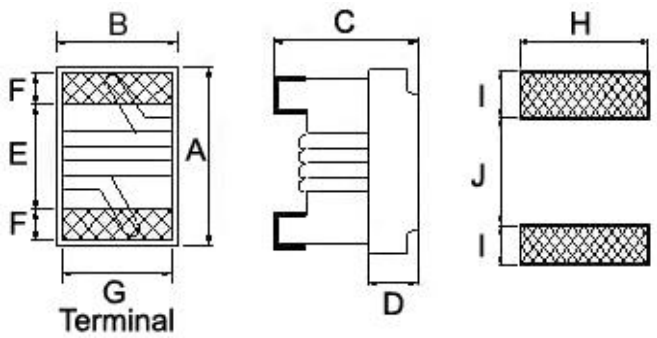


Dimensions in mm

TYPE	A Max	B Max	C Max	D	E	F	G	H	I	J
BWLS00060404	0.58	0.46	0.45	-	0.38	0.12	-	0.46	0.18	0.22
BWLS00100606	1.02±0.1	0.55±0.1	0.56±0.1	0.25	0.54	0.23	0.50	0.65	0.38	0.44
BWLS00161109	$1.6^{+0.2}_{-0.1}$	1.1±0.1	$0.9^{+0.2}_{-0.1}$	0.38	0.86	0.33	0.76	1.02	0.64	0.64
BWLS00241715	2.4	1.72	1.52	0.70	1.02	0.50	1.27	1.78	1.02	0.76
BWLS00302522	2.99	2.50	2.20	0.70	1.52	0.51	2.03	2.54	1.02	1.27

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Typ.	SRF (MHz)Min.	RDC (Ω)Max.	Irms (mA)Typ.
BWLS000604042N2□00	2.2	10	100	5	3000	0.09	1600
BWLS000604046N8□00	6.8	10 / 5	100	6	2400	0.11	950
BWLS000604047N8□00	7.8	10 / 5	100	7	2500	0.11	1050
BWLS0006040415N□00	15	10 / 5	100	7	2300	0.12	750
BWLS0006040417N□00	17	10 / 5	100	7	2400	0.13	750
BWLS0006040426N□00	26	10 / 5	100	7	2200	0.20	750
BWLS0006040428N□00	28	10 / 5	100	7	2400	0.2.	700
BWLS0006040439N□00	39	10 / 5	100	7	2300	0.24	580
BWLS0006040443N□00	43	10 / 5	100	7	2200	0.24	600
BWLS0006040456N□00	56	10 / 5	100	7	2200	0.26	550
BWLS0006040459N□00	59	10 / 5	100	7	2200	0.26	500
BWLS0006040476N□00	76	10 / 5	100	7	2000	0.30	500
BWLS0006040478N□00	78	10 / 5	100	7	2000	0.30	500
BWLS00060404R10□00	100	10 / 5	100	7	1500	0.41	430
BWLS00060404R13□00	130	10 / 5	100	7	1500	0.44	400
BWLS00060404R16□00	160	10 / 5	100	7	1400	0.71	350
BWLS00060404R20□00	200	10 / 5	50	9	1400	0.95	260

Note: When ordering, please specify tolerance code. Tolerance：J=±5% , K=±10%

- Operating temperature range - 40℃~105℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

  L & Q：Agilent E4991A+Agilent HP16197A

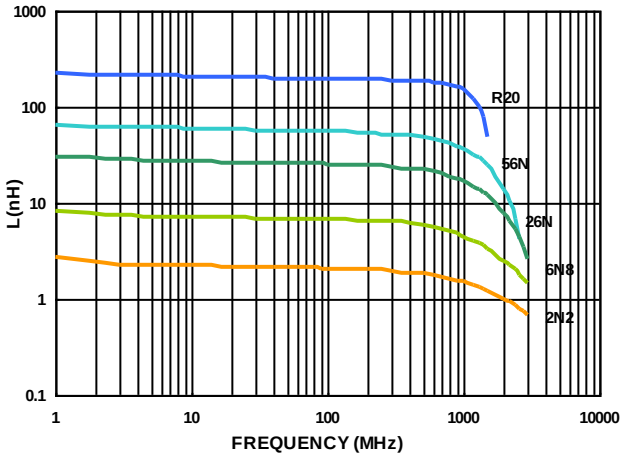
  SRF：Agilent E4991A

  RDC：HP4287

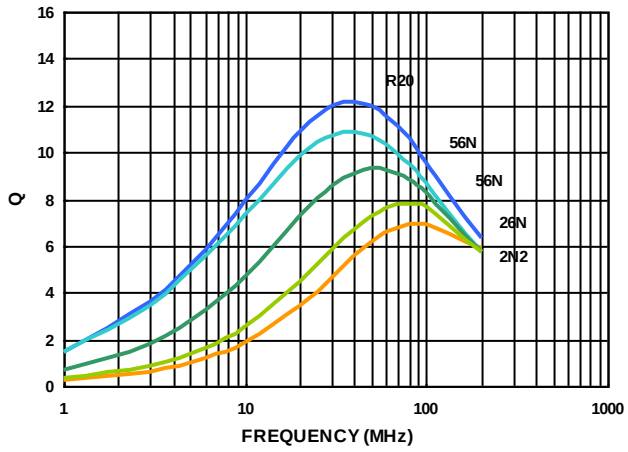
  Irms：HP4284A+HP42841A

Test Instruments：Agilent E4991A Material/Impedance Analyzer

Typical L vs. Frequency



Typical Q vs. Frequency



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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	Q Typ.	SRF (MHz)Typ.	RDC (Ω) Max	Irms (mA)Typ.
BWLS0010060618N□00	0.018	10 / 5	100	10	2600	0.055	1600
BWLS0010060620N□00	0.020	10 / 5	100	10	2600	0.050	1600
BWLS0010060622N□00	0.022	10	100	10	2500	0.072	1300
BWLS0010060633N□00	0.033	10 / 5	100	10	2300	0.060	1400
BWLS0010060636N□00	0.036	10 / 5	100	10	2300	0.092	1000
BWLS0010060639N□00	0.039	10 / 5	100	10	2200	0.150	830
BWLS0010060651N□00	0.051	10	100	10	1930	0.070	1100
BWLS0010060656N□00	0.056	10	100	10	1900	0.125	900
BWLS0010060672N□00	0.072	10 / 5	100	10	1650	0.100	900
BWLS0010060678N□00	0.078	10 / 5	100	10	1600	0.190	850
BWLS00100606R10□00	0.10	10	100	9	1400	0.160	900
BWLS00100606R14□00	0.14	10 / 5	50	11	1220	0.260	540
BWLS00100606R18□00	0.18	10	50	11	1150	0.330	560
BWLS00100606R20□00	0.20	10 / 5	50	11	1000	0.440	400
BWLS00100606R22□00	0.22	10 / 5	50	11	1150	0.530	380
BWLS00100606R25□00	0.25	10 / 5	25	11	900	0.360	520
BWLS00100606R27□00	0.27	10	25	11	860	0.550	360
BWLS00100606R30□00	0.30	10 / 5	25	11	860	0.410	420
BWLS00100606R33□00	0.33	10 / 5	7.9	11	820	0.680	350
BWLS00100606R36□00	0.36	10 / 5	7.9	11	810	0.575	360
BWLS00100606R39□00	0.39	10 / 5	7.9	11	760	0.890	300
BWLS00100606R42□00	0.42	10 / 5	7.9	11	700	1.100	340
BWLS00100606R47□00	0.47	10	7.9	11	650	0.730	310
BWLS00100606R56□00	0.56	10 / 5	7.9	11	600	1.100	200

Note: When ordering, please specify tolerance code. Tolerance : J=±5% , K=±10%

- Operating temperature range - 40℃ ~ 105℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Measure Equipment :

  L & Q：Agilent E4991A+Agilent HP16197A

  SRF：Agilent E4991A

  RDC：Chroma 16502

  Irms：HP4284A+HP42841A

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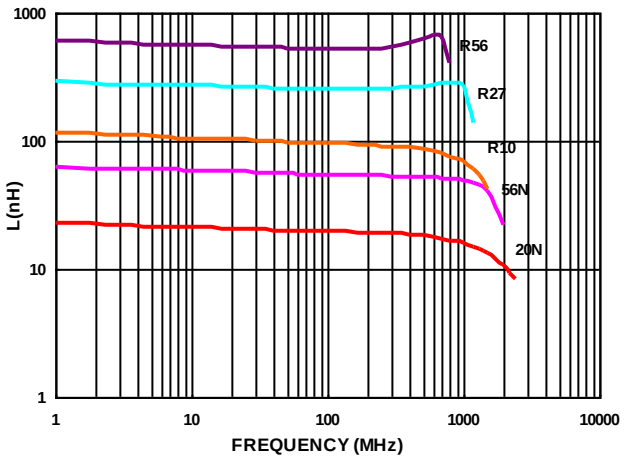
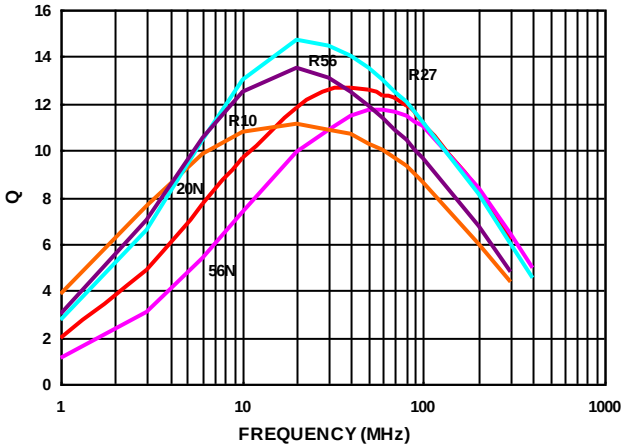
Test Instruments：Agilent E4991A Material/Impedance Analyzer

Typical L vs. Frequency



Typical Q vs. Frequency



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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	Q Typ.	SRF (MHz) Min	RDC (Ω) Max	IDC (mA)	Color
BWLS0016110947N□00	0.047	10 / 5	7.9	17	1700	0.075	1500	Black
BWLS0016110972N□00	0.072	10 / 5	7.9	17	1700	0.12	1500	Brown
BWLS00161109R10□00	0.10	10 / 5	7.9	17	1650	0.13	1500	Red
BWLS00161109R12□00	0.12	10 / 5	7.9	17	1350	0.15	1500	Orange
BWLS00161109R15□00	0.15	10 / 5	7.9	17	1350	0.15	1450	Yellow
BWLS00161109R18□00	0.18	10 / 5	7.9	17	1150	0.15	1400	Green
BWLS00161109R22□00	0.22	10 / 5	7.9	17	1050	0.16	1350	Blue
BWLS00161109R24□00	0.24	10 / 5	7.9	17	1050	0.19	1300	Violet
BWLS00161109R27□00	0.27	10 / 5	7.9	17	1050	0.30	1050	Gray
BWLS00161109R33□00	0.33	10 / 5	7.9	17	850	0.46	1200	White
BWLS00161109R39□00	0.39	10 / 5	7.9	17	810	0.51	1200	Black
BWLS00161109R47□00	0.47	10 / 5	7.9	17	720	0.62	1050	Brown
BWLS00161109R56□00	0.56	10 / 5	7.9	17	600	0.44	850	Red
BWLS00161109R68□00	0.68	10 / 5	7.9	17	600	0.52	850	Orange
BWLS00161109R78□00	0.78	10 / 5	7.9	17	460	0.83	850	Yellow
BWLS00161109R82□00	0.82	10 / 5	7.9	17	480	0.69	750	Green
BWLS00161109R91□00	0.91	10 / 5	7.9	17	330	0.76	670	Black
BWLS001611091R0□00	1.0	10 / 5	7.9	18	310	0.81	600	Blue
BWLS001611091R2□00	1.2	10 / 5	7.9	17	270	0.87	550	Violet
BWLS001611091R5□00	1.5	10 / 5	7.9	17	270	1.06	540	Gray
BWLS001611091R8□00	1.8	10 / 5	7.9	17	230	1.10	520	White
BWLS001611092R2□00	2.2	10 / 5	7.9	17	140	1.20	500	Black
BWLS001611092R7□00	2.7	10 / 5	7.9	17	105	1.50	480	Brown
BWLS001611093R3□00	3.3	10 / 5	7.9	17	84	1.50	440	Red
BWLS001611093R9□00	3.9	10 / 5	7.9	17	80	1.60	430	Orange
BWLS001611094R7□00	4.7	10 / 5	7.9	18	69	2.10	420	Yellow
BWLS001611095R6□00	5.6	10 / 5	7.9	18	65	2.60	400	Green
BWLS001611096R8□00	6.8	10 / 5	7.9	19	55	3.10	400	Blue
BWLS001611097R8□00	7.8	10 / 5	7.9	17	47	3.50	400	Violet
BWLS001611098R2□00	8.2	10 / 5	7.9	17	42	3.80	400	Gray
BWLS00161109100□00	10	10 / 5	7.9	19	40	4.80	300	White

Note: When ordering, please specify tolerance code. Tolerance : J=±5% , K=±10%

- Operating temperature range - 40℃ ~ 105℃(Including self - temperature rise)
- IDC for Inductance drop 10% from its value without current
- Measure Equipment :

  L & Q：Agilent E4991A+Agilent HP16197A

  SRF：Agilent HP8753D/Agilent E4991A

  RDC：Chroma 16502

  IDC：HP4284A+HP42841A/HP4285A+HP42841A

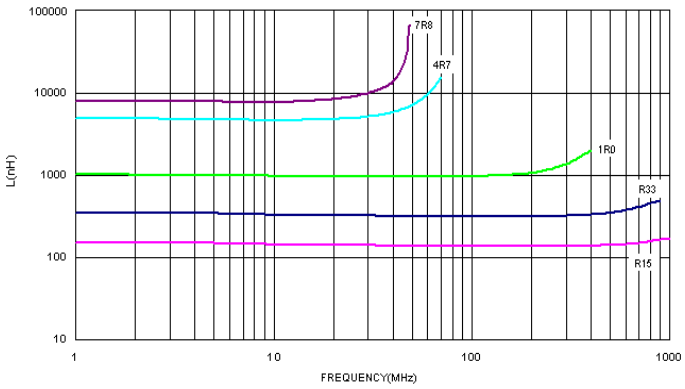
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

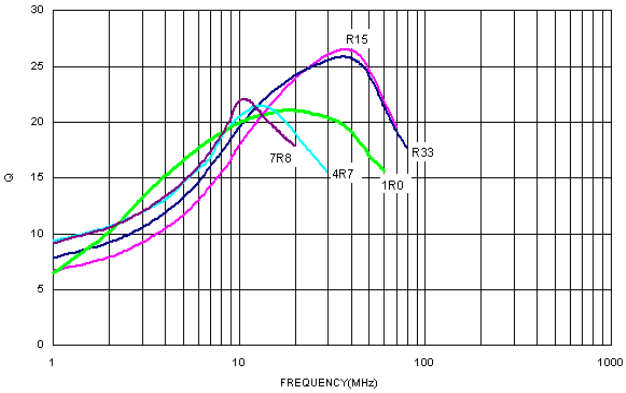
CHILISIN ELECTRONICS CORP.

Test Instruments：Agilent E4991A Material/Impedance Analyzer

***T**ypical **L** vs. **F**requency*



***T**ypical **Q** vs. **F**requency*



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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	Q Typ.	SRF (MHz) Min	RDC (Ω) Max	IDC (mA)	Color
BWLS0024171578N□00	0.078	10 / 5	7.9	19	1440	0.06	2000	Black
BWLS0024171590N□00	0.090	10	7.9	19	1200	0.07	2000	Red
BWLS00241715R11□00	0.11	10 / 5	7.9	19	1200	0.07	2000	Brown
BWLS00241715R47□00	0.47	10 / 5	7.9	19	480	0.40	800	Red
BWLS00241715R56□00	0.56	10 / 5	7.9	35	480	0.40	800	Yellow
BWLS00241715R68□00	0.68	10 / 5	7.9	20	480	0.40	800	Orange
BWLS00241715R91□00	0.91	10 / 5	7.9	20	400	0.69	700	Yellow
BWLS002417151R0□00	1.0	10 / 5	7.9	20	400	0.69	700	Yellow
BWLS002417151R2□00	1.2	10 / 5	7.9	20	330	0.83	700	Red
BWLS002417151R5□00	1.5	10 / 5	7.9	20	330	0.83	700	Green
BWLS002417151R8□00	1.8	10 / 5	7.9	20	300	1.00	650	Blue
BWLS002417152R2□00	2.2	10 / 5	7.9	20	250	1.10	650	Violet
BWLS002417152R7□00	2.7	10 / 5	7.9	23	200	1.25	650	Gray
BWLS002417153R3□00	3.3	10 / 5	7.9	23	160	1.45	650	White
BWLS002417153R9□00	3.9	10 / 5	7.9	23	90	1.50	600	Black
BWLS002417154R7□00	4.7	10 / 5	7.9	20	70	1.60	530	Brown
BWLS002417155R6□00	5.6	10 / 5	7.9	20	65	1.70	500	Red
BWLS002417156R8□00	6.8	10 / 5	7.9	20	45	1.95	470	Orange
BWLS002417158R2□00	8.2	10 / 5	2.5	16	45	2.10	450	Yellow
BWLS00241715100□00	10	10 / 5	2.5	16	40	2.40	400	Green
BWLS00241715120□00	12	10 / 5	2.5	16	38	3.20	360	Red
BWLS00241715150□00	15	10 / 5	2.5	16	30	3.55	350	Blue
BWLS00241715180□00	18	10 / 5	2.5	16	25	4.90	300	Orange
BWLS00241715220□00	22	10 / 5	2.5	16	20	5.45	270	Violet
BWLS00241715270□00	27	10 / 5	2.5	16	19	7.80	240	Gray
BWLS00241715330□00	33	10 / 5	2.5	16	16	9.50	210	White
BWLS00241715470□00	47	10 / 5	2.5	16	15	14.50	180	Brown

Note: When ordering, please specify tolerance code. Tolerance : J=±5% , K=±10%

- Operating temperature range - 40℃ ~ 105℃(Including self - temperature rise)
- IDC for Inductance drop 10% from its value without current
- Measure Equipment :

  L & Q : Agilent E4991A+Agilent HP16197A

  SRF : Agilent E4991A

  RDC : HP4338B or Chroma 16502

  IDC : HP4284A+HP42841A/HP4285A+HP42841A

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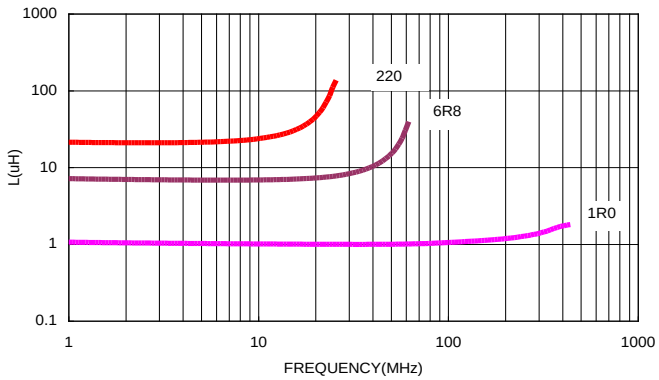
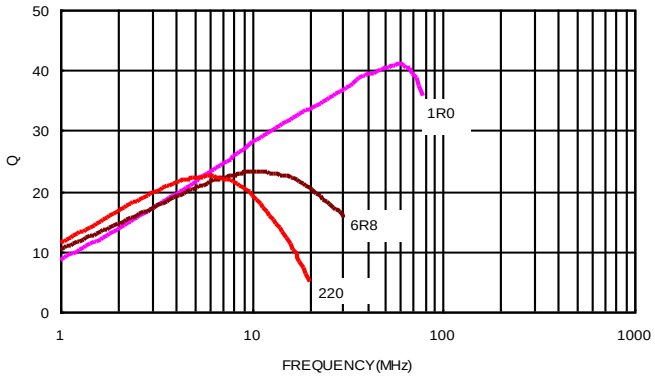
CHILISIN ELECTRONICS CORP.

Test Instruments：Agilent E4991A Material/Impedance Analyzer

Typical L vs. Frequency



Typical Q vs. Frequency



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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	Q Typ.	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	IDC (mA)	Color Coding 1ST	2ND	3RD
BWLS003025221R2□00	1.2	10 / 5	7.9	55	50	350	0.50	1200	Brown	Red	Red
BWLS003025221R5□00	1.5	10 / 5	7.9	58	50	300	0.65	1200	Brown	Green	Red
BWLS003025221R8□00	1.8	10 / 5	7.9	54	50	280	0.75	1050	Brown	Gray	Red
BWLS003025222R2□00	2.2	10 / 5	7.9	48	50	250	0.90	950	Red	Red	Red
BWLS003025222R7□00	2.7	10 / 5	7.9	51	50	200	1.00	950	Red	Violet	Red
BWLS003025223R3□00	3.3	10 / 5	7.9	58	50	200	1.15	900	Orange	Orange	Red
BWLS003025223R9□00	3.9	10 / 5	7.9	37	7.9	170	1.25	850	Orange	White	Red
BWLS003025224R7□00	4.7	10 / 5	7.9	37	7.9	130	1.35	700	Yellow	Violet	Red
BWLS003025225R6□00	5.6	10 / 5	7.9	36	7.9	110	1.45	700	Green	Blue	Red
BWLS003025226R8□00	6.8	10 / 5	7.9	33	7.9	105	1.60	600	Blue	Gray	Red
BWLS003025228R2□00	8.2	10 / 5	7.9	40	7.9	90	1.80	550	Gray	Red	Red
BWLS00302522100□00	10	10 / 5	7.9	40	7.9	85	2.40	500	Brown	Black	Orange
BWLS00302522120□00	12	10 / 5	7.9	40	7.9	80	2.40	450	Brown	Red	Orange
BWLS00302522150□00	15	10 / 5	7.9	35	7.9	38	2.40	450	Brown	Green	Orange
BWLS00302522390□00	39	10 / 5	2.5	33	2.5	26	10	170	Orange	White	Orange

Note: When ordering, please specify tolerance code. Tolerance : J=±5% , K=±10%

- Operating temperature range - 40℃ ~ 105℃(Including self - temperature rise)
- IDC for Inductance drop 10% from its value without current
- Measure Equipment :

  L & Q : Agilent E4991A+Agilent HP16197A

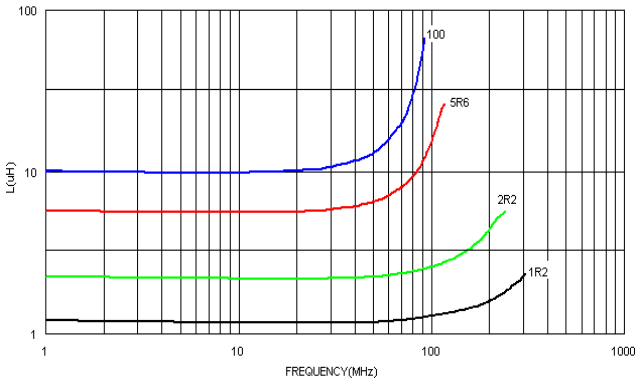
  SRF : Agilent E4991A

  RDC : HP4338B or Chroma 16502

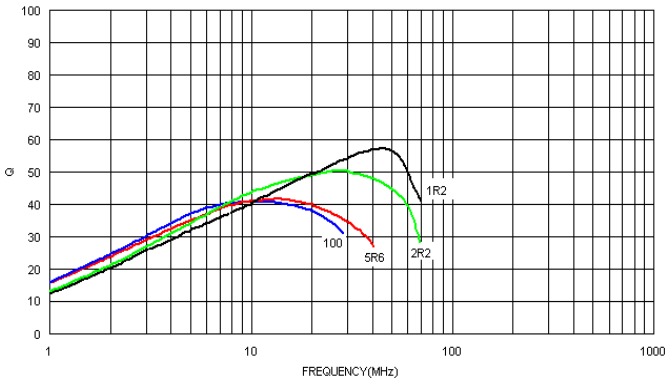
  IDC : HP4284A+HP42841A/HP4285A+HP42841A

Test Instruments : Agilent E4991A Material/Impedance Analyzer

Typical L vs. Frequency



Typical Q vs. Frequency



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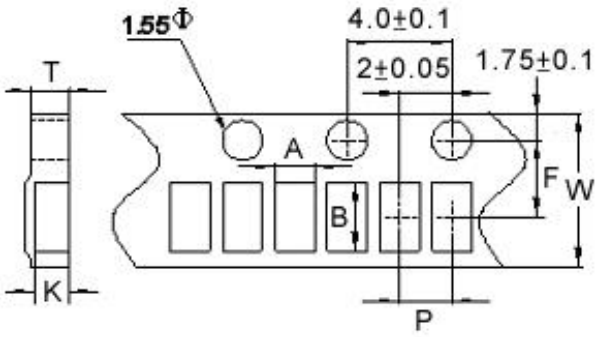
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions

Figure 1



Tape Material

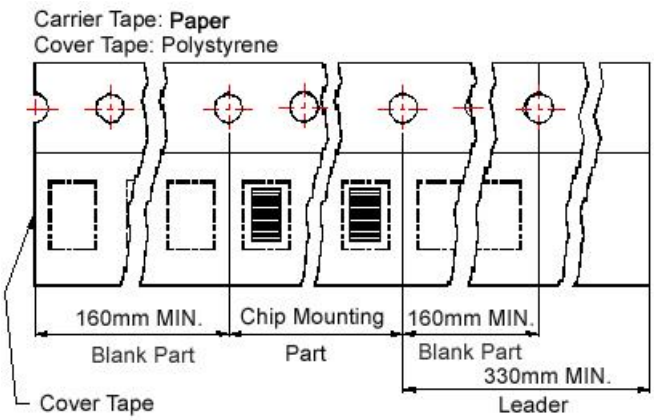
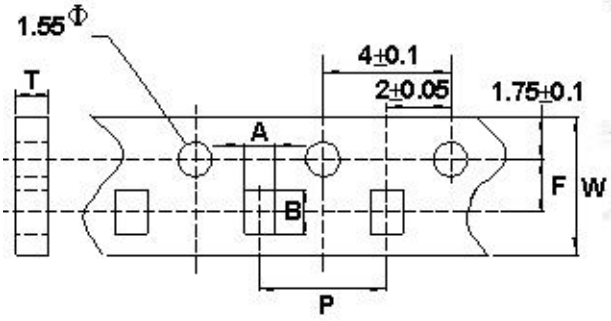


Figure 2



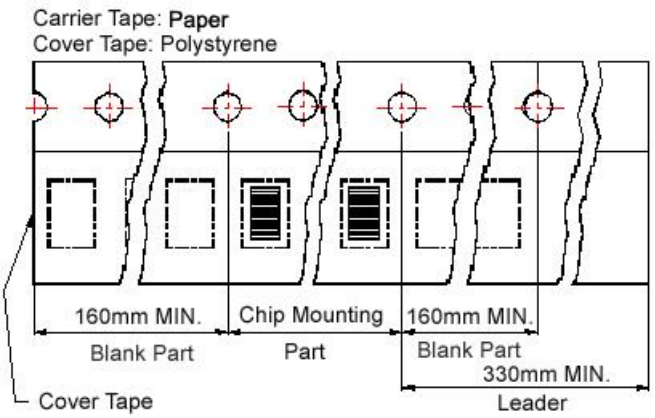
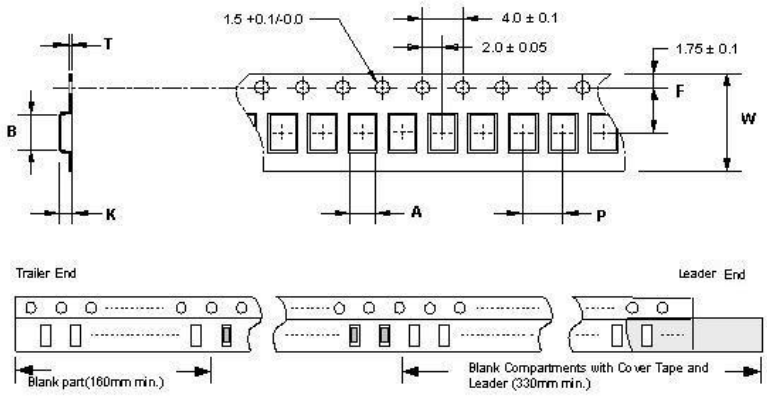
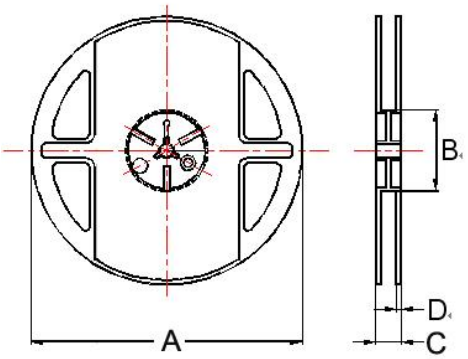


Figure 3



Reel Dimensions



Dimensions in mm

TYPE	Fig.	Tape Dimensions							Reel Dimensions				Quantity
		A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
BWLS00060404	1	0.44	0.64	0.61	8	2	3.5	045	178	60	12	1.5	4000
BWLS00100606	1	0.67	1.20	0.75	8	2	3.5	0.59	178	60	12	1.5	4000
BWLS00161109	2	1.25	1.90	1.05	8	4	3.5	-	178	60	12	1.5	4000
BWLS00241715	3	1.60	2.42	0.22	8	4	3.5	1.45	178	60	12	1.5	2000
BWLS00302522	3	2.40	2.93	0.26	8	4	3.5	2.25	178	60	12	1.5	2000

BWLM Series

BWLM Series is the newest in open type ferrite wire wound chip inductors. The wire wound ferrite construction supports higher SRF, lower DCR and superior Q values than other ferrite chip inductors.

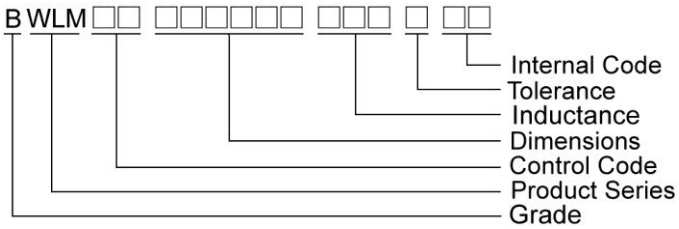
Features

- RoHS compliant
- Very strong solderability by reflow soldering and soldering iron
- Highly accurate dimensions
- Can be mounted automatically
- Terminals are highly resistant to external forces
- Highly resistant to mechanical shocks and pressure
- Highly reliable in environments of sudden temperature change and humidity
- Low DCR & better Q value in ferrite series

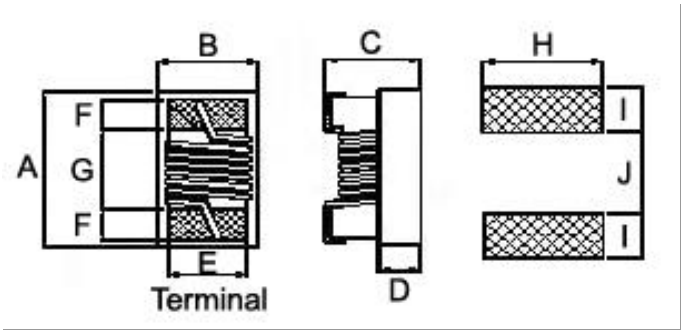
Applications

- Telecom and datacom applications such as xDSL
- Cable modem
- Set-top box
- CATV filter/tuner
- Wireless LAN, etc

Product Identification



Shape and Dimensions / Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	E	F	G	H	I	J
BWLM00110706	1.1±0.1	0.7±0.1	0.6±0.1	0.25	0.5	0.25	0.5	0.6	0.50	0.4
BWLM00181009	1.8±0.1	1.0±0.1	0.9±0.1	0.60	0.8	0.40	0.85	1.0	0.75	0.7

Electrical Characteristics

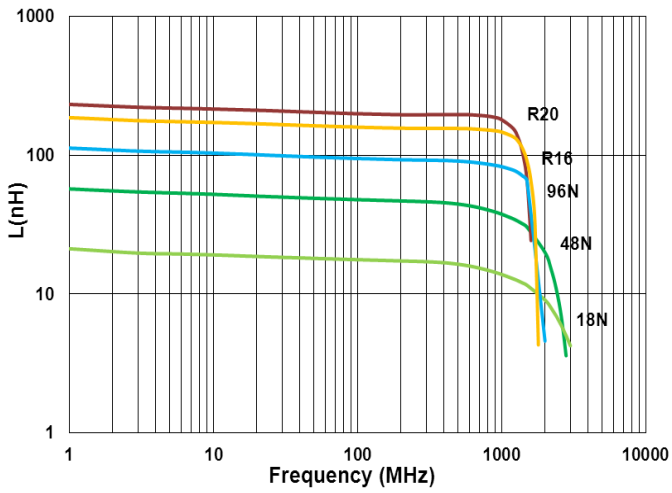
Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	Irms (mA) Max
BWLM0011070618N□00	18	5	100	3000	0.046	1400
BWLM0011070633N□00	33	5	100	1800	0.065	1300
BWLM0011070648N□00	48	5	100	1400	0.078	1100
BWLM0011070670N□00	70	5	100	1300	0.12	820
BWLM0011070696N□00	96	5	100	1100	0.16	730
BWLM00110706R13□00	130	5	100	1000	0.23	640
BWLM00110706R16□00	160	5	100	900	0.33	480
BWLM00110706R20□00	200	5	100	800	0.47	390

Note: When ordering, please specify tolerance code. Tolerance：J=±5%

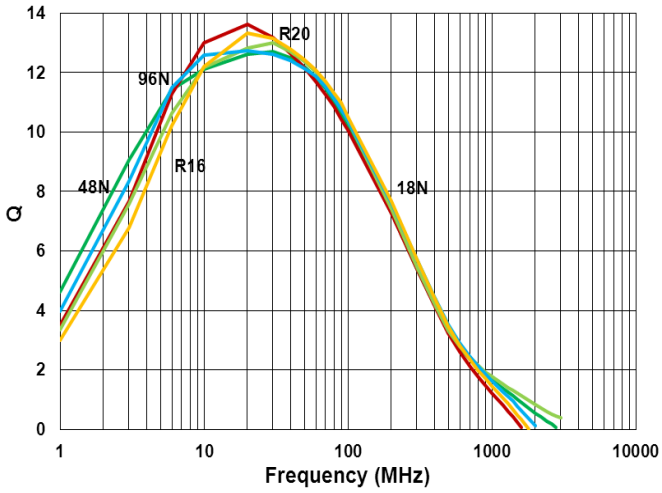
- Operating temperature range - 40℃~125℃(Including self - temperature rise)
- Irms for a 20℃temperature rise from 25℃ ambient with current
- Measure Equipment：
  L & Q：Agilent E4991A+Agilent HP16197A
  SRF：Agilent E4991A
  RDC：HP4338B or Chroma 16502
  Irms：HP4284A+HP42841A/HP4285A+HP42841A
- Offset value ：-0.556nH

Test Instruments：Agilent E4991A Material/Impedance Analyzer

Typical L vs. Frequency



Typical Q vs. Frequency



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Electrical Characteristics

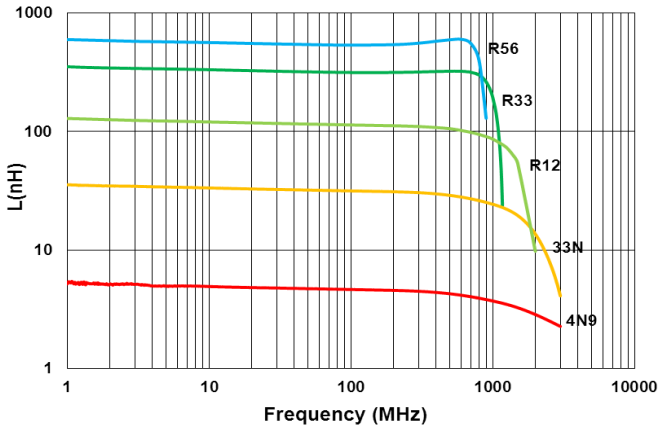
Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	Irms (mA) Max
BWLM001810094N9□00	4.9	±0.5nH	10	2300	0.015	2600
BWLM0018100915N□00	15	5	10	2000	0.025	2200
BWLM0018100933N□00	33	5	10	1800	0.035	1700
BWLM0018100955N□00	55	5	10	1600	0.045	1500
BWLM0018100985N□00	85	5	10	1380	0.060	1400
BWLM00181009R10□00	100	10	10	1260	0.10	1000
BWLM00181009R12□00	120	5	10	1200	0.085	1100
BWLM00181009R16□00	160	5	10	900	0.10	1000
BWLM00181009R21□00	210	5	10	720	0.15	800
BWLM00181009R27□00	270	5	10	660	0.16	750
BWLM00181009R33□00	330	5	10	600	0.25	630
BWLM00181009R39□00	390	5	10	570	0.28	620
BWLM00181009R47□00	470	5	10	555	0.45	500
BWLM00181009R56□00	560	5	10	540	0.48	450
BWLM00181009R65□00	650	5	10	510	0.52	430

Note: When ordering, please specify tolerance code. Tolerance：D=±0.5nH , J=±5% , K=±10%

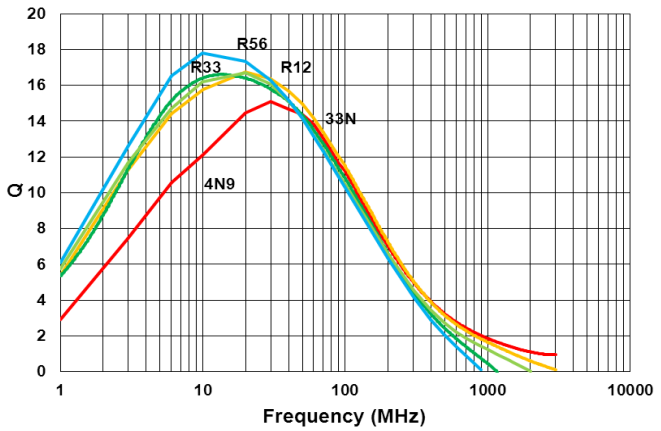
- Operating temperature range - 40℃~125℃(Including self - temperature rise)
- Irms for a 20℃temperature rise from 25℃ ambient with current
- Measure Equipment：
  L & Q：Agilent E4991A+Agilent HP16197A
  SRF：Agilent E4991A
  RDC：HP4338B or Chroma 16502
  Irms：HP4284A+HP42841A/HP4285A+HP42841A
- Offset value ：-0.771nH

Test Instruments：Agilent E4991A Material/Impedance Analyzer

Typical L vs. Frequency



Typical Q vs. Frequency



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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions

Figure 1

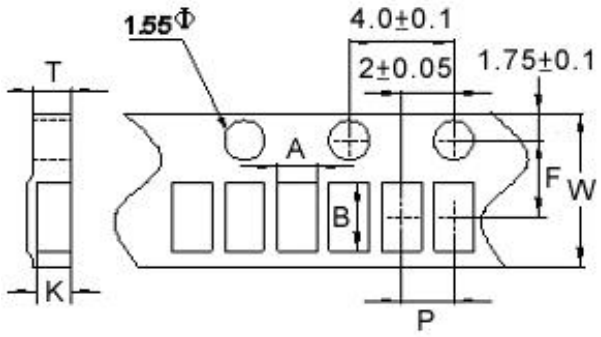
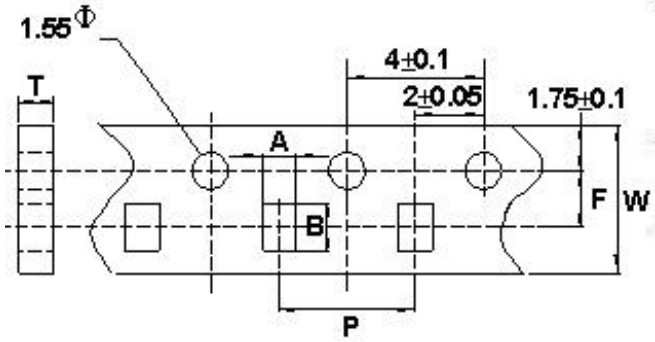
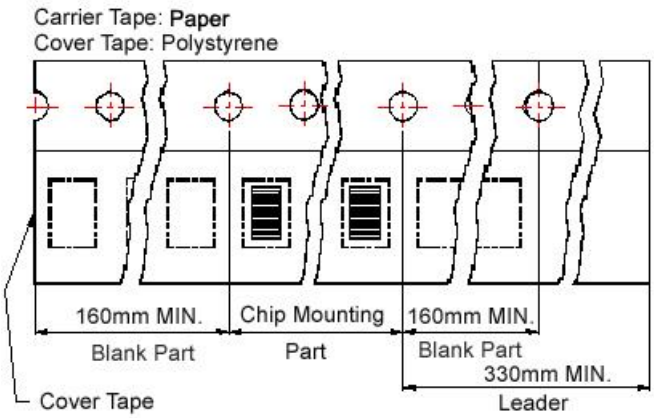
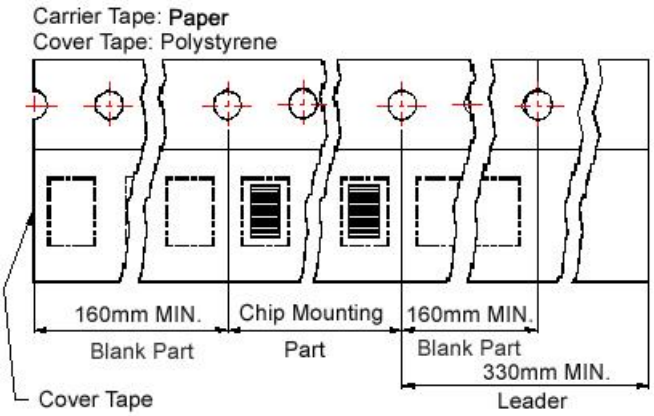


Figure 2

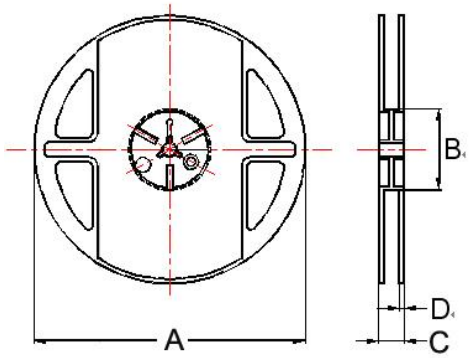


Tape Material





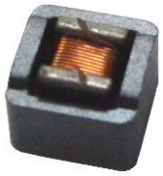
Reel Dimensions



Dimensions in mm

TYPE	Fig.	Tape Dimensions							Reel Dimensions				Quantity
		A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
BWLM00110706	1	0.8	1.2	0.75	8	2	3.5	0.62	178	60	12	1.5	4000
BWLM00181009	2	1.2	2.0	1.1	8	4	3.5	-	178	60	12	1.5	4000

BWPS Series



BWPS series is the newest shielding type ferrite wire wound chip inductor. This wire wound ferrite construction provides extremely low DCR and high rating current.

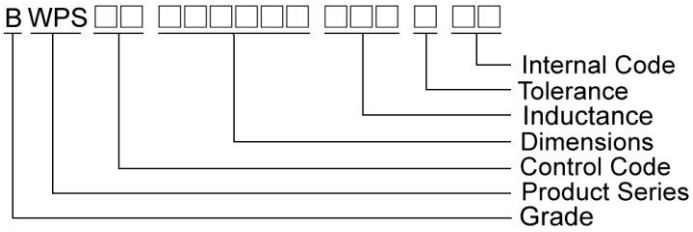
Features

- RoHS compliant
- Shielded power inductors
- Specially designed ferrite cover provides magnetic shielding
- Best possible surface for pick and place handling

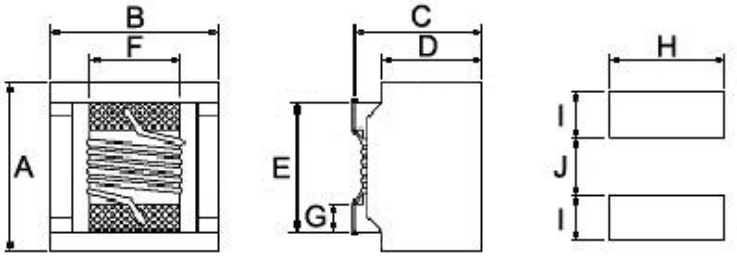
Applications

- Notebook computers
- PC cards
- Wireless communication
- Handheld devices

Product Identification



Shape and Dimensions / Recommended Pattern



Dimensions in mm

TYPE	A Max	B Max	C Max	D	E	F	G	H	I	J
BWPS00383829	3.81	3.81	2.94	2.20	2.54	2.03	0.51	2.54	1.02	1.27
BWPS00383830	3.81	3.81	3.05	2.20	2.54	2.03	0.51	2.54	1.02	1.27

BWPS00383829 at 1R0~331/ 561~102

BWPS0038383 at 471

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	Q Typ.	Test Frequency (MHz)	SRF (MHz) Typ.	RDC (Ω) Max	IDC (A)
BWPS003838291R0☐00	1.0	20 / 10	0.1	26	1	344	0.05	3.0
BWPS003838291R5☐00	1.5	20 / 10	0.1	26	1	260	0.08	2.8
BWPS003838291R8☐00	1.8	20 / 10	0.1	28	1	225	0.09	2.1
BWPS003838292R7☐00	2.7	20 / 10	0.1	30	1	185	0.14	1.5
BWPS003838293R9☐00	3.9	20 / 10	0.1	30	1	172	0.29	1.2
BWPS003838294R7☐00	4.7	20 / 10	0.1	30	1	157	0.35	1.1
BWPS003838295R6☐00	5.6	20 / 10	0.1	30	1	150	0.39	1.1
BWPS003838296R8☐00	6.8	20 / 10	0.1	30	1	110	0.58	0.9
BWPS00383829100☐00	10	20 / 10	0.1	30	1	95	0.75	0.82
BWPS00383829150☐00	15	20 / 10	0.1	30	1	75	1.15	0.70
BWPS00383829220☐00	22	20 / 10	0.1	33	1	30	1.40	0.65
BWPS00383829330☐00	33	20 / 10	0.1	33	1	21	1.61	0.52
BWPS00383829390☐00	39	20 / 10	0.1	33	1	18	1.85	0.46
BWPS00383829470☐00	47	20 / 10	0.1	33	1	15	2.20	0.43
BWPS00383829680☐00	68	20 / 10	0.1	33	1	12	3.80	0.33
BWPS00383829820☐00	82	20 / 10	0.1	33	1	10	4.30	0.32
BWPS00383829101☐00	100	20 / 10	0.1	33	1	8	4.80	0.31
BWPS00383829121☐00	120	20 / 10	0.1	33	1	8	5.0	0.25
BWPS00383829151☐00	150	20 / 10	0.1	33	1	5.8	6.5	0.24
BWPS00383829221☐00	220	20 / 10	0.1	33	1	5.5	12.0	0.22
BWPS00383829331☐00	330	20 / 10	0.1	33	1	3.8	17.0	0.20
BWPS00383830471☐00	470	20 / 10	0.1	33	1	3.1	19.0	0.16
BWPS00383829561☐00	560	20 / 10	0.1	33	1	2.8	18.4	0.13
BWPS00383829681☐00	680	20 / 10	0.1	33	1	2.5	24.0	0.12
BWPS00383829821☐00	820	20 / 10	0.1	23	1	2.0	26.0	0.10
BWPS00383829102☐00	1000	20 / 10	0.1	20	1	1.5	29.2	0.10

Note: When ordering, please specify tolerance code. Tolerance : K=±10% , M=±20%

- Operating temperature range - 40℃ ~ 105℃(Including self - temperature rise)
- IDC for Inductance drop 10% from its value without current
- Measure Equipment :

  L : Agilent HP4285A

  Q : Agilent HP4291A

  SRF : Agilent HP4291A

  RDC : HP4338B or Chroma 16502

  IDC : CHEN HWA1061+301A

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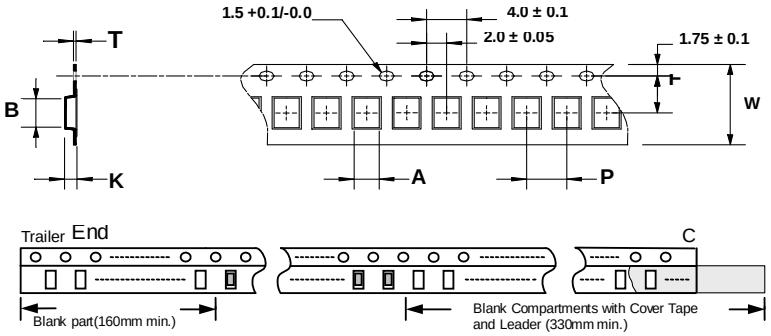
Pulse a YAGEO company

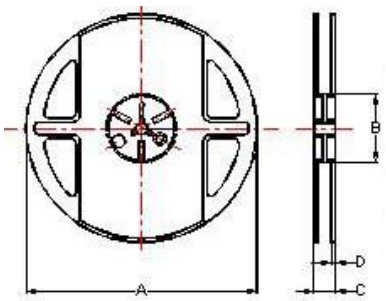
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



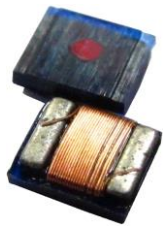
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
BWPS00383829	3.85	3.85	0.25	12	8	5.5	2.85	178	60	16	1.4	750
BWPS00383830												

BWLT Series



BWLT series is the newest open type ferrite wire wound chip inductors. This wire wound ferrite construction supports thinness for low profile application.

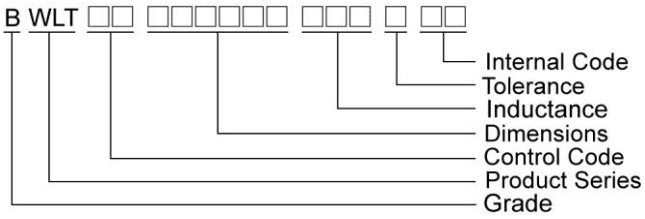
Features

- RoHS compliant
- At just 1.05mm in height, these are one of Chilisin's lowest profile surface mount inductors
- Wire wound ferrite design supports lower Rdc, higher current ratings and exceptional Q values
- Inductance values from 0.12 to 39uH

Applications

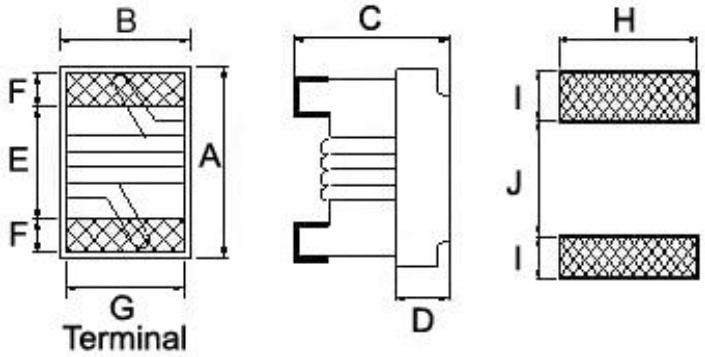
- Boost IC for tiny panels of C-STN, TFT-LCD and OLED in backlight
- Buck/Boost IC using in DC to DC converter
- LC filter in power as well as signal lines

Product Identification



Shape and Dimensions / Recommended Pattern

BWLT00241810/373110



Dimensions in mm

TYPE	A Max	B Max	C Max	D Ref	E	F	G	H	I	J
BWLT00241810	2.40	1.85	1.05	0.70	1.02	0.50	1.27	1.78	1.02	0.76
BWLT00373110	3.75	3.10	1.05	0.65	1.80	0.65	2.35	2.70	1.00	2.00

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	SRF (MHz) Min	RDC (Ω) Max	IDC (mA) Max	Color
BWLT00241810R12□00	0.12	10 / 5	25.2	22	1500	0.33	1200	Black
BWLT00241810R15□00	0.15	10 / 5	25.2	22	1100	0.33	1200	Brown
BWLT00241810R18□00	0.18	10 / 5	25.2	22	1100	0.36	1100	Red
BWLT00241810R22□00	0.22	10 / 5	25.2	22	1100	0.39	1100	Orange
BWLT00241810R27□00	0.27	10 / 5	25.2	22	950	0.43	1050	Yellow
BWLT00241810R33□00	0.33	10 / 5	25.2	22	650	0.46	900	Green
BWLT00241810R39□00	0.39	10 / 5	25.2	22	640	0.48	850	Blue
BWLT00241810R47□00	0.47	10 / 5	25.2	22	570	0.65	800	Violet
BWLT00241810R56□00	0.56	10 / 5	25.2	22	540	0.67	770	Gray
BWLT00241810R68□00	0.68	10 / 5	25.2	22	500	0.73	750	White
BWLT00241810R82□00	0.82	10 / 5	25.2	22	480	0.85	730	Black
BWLT002418101R0□00	1.0	10 / 5	7.96	15	470	0.87	720	Brown
BWLT002418101R2□00	1.2	10 / 5	7.96	15	450	0.97	690	Red
BWLT002418101R5□00	1.5	10 / 5	7.96	15	400	1.10	670	Orange
BWLT002418101R8□00	1.8	10 / 5	7.96	15	340	1.15	650	Yellow
BWLT002418102R2□00	2.2	10 / 5	7.96	15	265	1.28	630	Green
BWLT002418102R7□00	2.7	10 / 5	7.96	15	235	1.40	620	Blue
BWLT002418103R3□00	3.3	10 / 5	7.96	15	190	1.62	580	Violet
BWLT002418103R9□00	3.9	10 / 5	7.96	15	180	1.75	570	Gray
BWLT002418104R7□00	4.7	10 / 5	7.96	13	160	1.95	550	White
BWLT002418105R6□00	5.6	10 / 5	7.96	15	120	2.14	540	Black
BWLT002418106R8□00	6.8	10 / 5	7.96	15	45	2.28	520	Brown
BWLT002418108R2□00	8.2	10 / 5	7.96	15	42	2.55	500	Red
BWLT00241810100□00	10	10 / 5	2.52	10	38	2.70	450	Orange
BWLT00241810120□00	12	10 / 5	2.52	10	33	4.20	400	Yellow
BWLT00241810150□00	15	10 / 5	2.52	10	30	4.80	380	Green
BWLT00241810180□00	18	10 / 5	2.52	10	25	5.74	300	Blue
BWLT00241810220□00	22	10 / 5	2.52	10	23	7.75	260	Violet
BWLT00241810270□00	27	10 / 5	2.52	10	21	10.0	230	Gray
BWLT00241810330□00	33	10 / 5	2.52	10	16	13.5	200	White
BWLT00241810390□00	39	10 / 5	2.52	10	15	16.0	190	Black

Note: When ordering, please specify tolerance code. Tolerance : J=±5% , K=±10%

- Operating temperature range - 25℃ ~ 105℃(Including self - temperature rise)
- IDC for Inductance drop 10% from its value without current
- Measure Equipment :

  L & Q：Agilent E4991A+Agilent HP16197A

  SRF：Agilent E4991A

  RDC：HP4338B or Chroma 16502

  IDC：HP4284A+HP42841A/HP4285A+HP42841A

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

SMD Wire Wound Ferrite Chip Inductors - BWLT Series

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	Q Typ.	SRF (MHz) Min	RDC (Ω) Max	IDC (mA) Max	Color Coding 1ST	2ND	3RD
BWLT003731101R0☐00	1.0	10 / 5	7.96	20	350	0.45	1500	Brown	Black	Red
BWLT003731101R2☐00	1.2	10 / 5	7.96	20	330	0.49	1300	Brown	Red	Red
BWLT003731101R5☐00	1.5	10 / 5	7.96	20	310	0.68	1200	Brown	Green	Red
BWLT003731101R8☐00	1.8	10 / 5	7.96	20	290	0.72	1150	Brown	Gray	Red
BWLT003731102R2☐00	2.2	10 / 5	7.96	20	270	1.02	1020	Red	Red	Red
BWLT003731102R7☐00	2.7	10 / 5	7.96	20	265	1.15	1000	Red	Violet	Red
BWLT003731103R3☐00	3.3	10 / 5	7.96	20	195	1.20	970	Orange	Orange	Red
BWLT003731103R9☐00	3.9	10 / 5	7.96	20	170	1.35	910	Orange	White	Red
BWLT003731104R7☐00	4.7	10 / 5	7.96	20	155	1.48	880	Yellow	Violet	Red
BWLT003731105R6☐00	5.6	10 / 5	7.96	20	125	1.65	820	Green	Blue	Red
BWLT003731106R8☐00	6.8	10 / 5	7.96	20	110	1.68	750	Blue	Gray	Red
BWLT003731108R2☐00	8.2	10 / 5	7.96	20	100	1.88	700	Gray	Red	Red
BWLT00373110100☐00	10	10 / 5	2.52	16	85	2.90	610	Brown	Black	Orange
BWLT00373110120☐00	12	10 / 5	2.52	16	70	3.05	540	Brown	Red	Orange
BWLT00373110150☐00	15	10 / 5	2.52	16	65	3.45	500	Brown	Green	Orange
BWLT00373110180☐00	18	10 / 5	2.52	16	55	4.79	420	Brown	Gray	Orange
BWLT00373110220☐00	22	10 / 5	2.52	16	50	5.20	350	Red	Red	Orange

Note: When ordering, please specify tolerance code. Tolerance : J=±5% , K=±10%

- Operating temperature range - 25℃ ~ 105℃(Including self - temperature rise)
- IDC for Inductance drop 10% from its value without current
- Measure Equipment :

  L & Q：Agilent E4991A+Agilent HP16197A

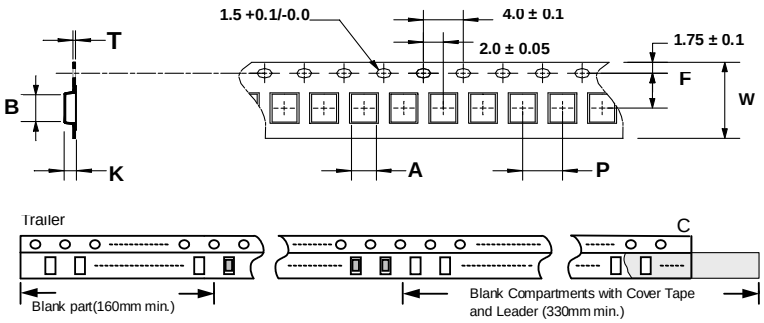
  SRF：Agilent E4991A

  RDC：HP4338B or Chroma 16502

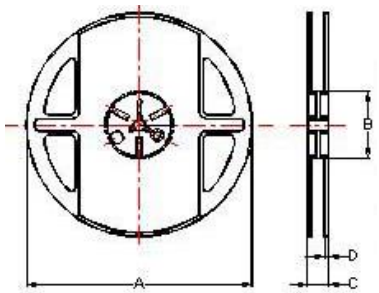
  IDC：HP4284A+HP42841A/HP4285A+HP42841A

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions A	B	T	W	P	F	K	Reel Dimensions A	B	C	D	Quantity PCS / REEL
BWLT00241810	1.85	2.45	0.23	8	4	3.5	1.0	178	60	12	1.5	2000
BWLT00373110	3.05	3.70	0.25	12	4	5.5	1.1	178	60	12	1.5	2000

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BWQV Series

BWQV Series comes in 2 sizes with wide inductance range, high Q value at high frequencies and low DC resistance.

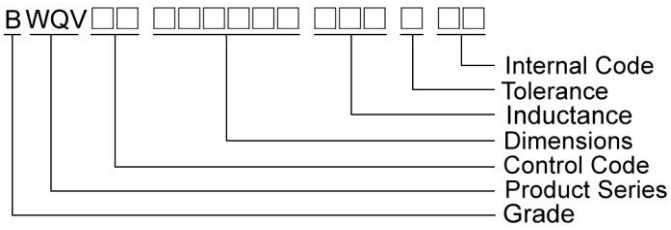
Features

- RoHS compliant
- Miniature chip inductors wound on a special ferrite core
- High Q value at high frequencies and low DC resistance
- Wide inductance range
- Excellent solder heat resistance
- Both flow and reflow soldering methods can be employed

Applications

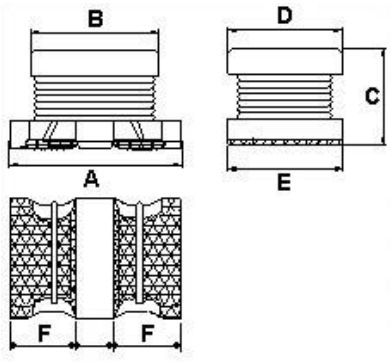
- Personal, cordless phone
- High Freq. communication products
- GPS (global position system)
- Personal computers

Product Identification

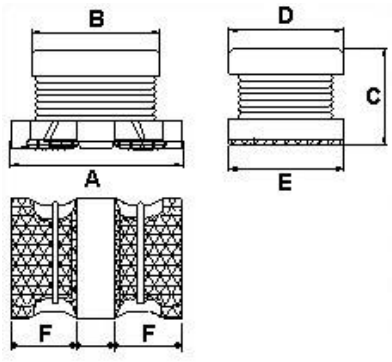


Shape and Dimensions

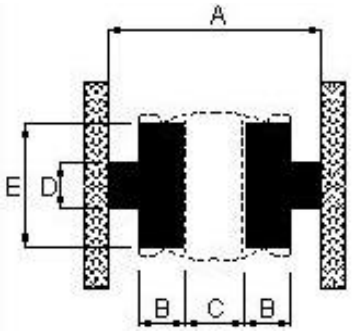
BWQV00322520



BWQV00453226



Recommended Pattern



Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern				
	A	B	C	D	E	F	A	B	C	D	E
BWQV00322520	3.2±0.3	2.5±0.2	2.0±0.2	2.5±0.2	2.5±0.2	0.95±0.3	5.5	1.0	1.3	1.0	2.0
BWQV00453226	4.5±0.3	3.6±0.2	2.6±0.2	3.2±0.2	3.2±0.2	1.45±0.3	7.5	1.5	1.5	1.5	3.0

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	Rated current (mA)
BWQV00322520R47□00	0.47	20	1	20	1	150	0.06	1100
BWQV00322520R82□00	0.82	20	1	20	1	120	0.25	450
BWQV003225201R0□00	1.0	20	1	20	1	100	0.50	445
BWQV003225201R2□00	1.2	20	1	20	1	100	0.60	425
BWQV003225201R5□00	1.5	20 / 10	1	20	1	75	0.60	400
BWQV003225201R8□00	1.8	20 / 10	1	20	1	60	0.70	390
BWQV003225202R2□00	2.2	20 / 10	1	20	1	50	0.80	370
BWQV003225202R7□00	2.7	20 / 10	1	20	1	43	0.90	320
BWQV003225203R3□00	3.3	20 / 10	1	20	1	38	1.0	300
BWQV003225203R9□00	3.9	20 / 10	1	20	1	35	1.1	290
BWQV003225204R7□00	4.7	20 / 10	1	20	1	31	1.2	270
BWQV003225205R6□00	5.6	20 / 10	1	20	1	28	1.3	250
BWQV003225206R8□00	6.8	20 / 10	1	20	1	25	1.5	240
BWQV003225208R2□00	8.2	20 / 10	1	20	1	23	1.6	225
BWQV00322520100□00	10	20 / 10	1	35	1	20	1.8	190
BWQV00322520120□00	12	20 / 10	1	35	1	18	2.0	180
BWQV00322520150□00	15	20 / 10	1	35	1	16	2.2	170
BWQV00322520180□00	18	20 / 10	1	35	1	15	2.5	165
BWQV00322520220□00	22	20 / 10 / 5	1	35	1	14	2.8	150
BWQV00322520270□00	27	20 / 10	1	35	1	13	3.1	125
BWQV00322520330□00	33	20 / 10 / 5	1	40	1	12	3.5	115
BWQV00322520390□00	39	20 / 10	1	40	1	11	3.9	110
BWQV00322520470□00	47	20 / 10	1	40	1	11	4.3	100
BWQV00322520560□00	56	20 / 10	1	40	1	10.0	4.9	85
BWQV00322520680□00	68	20 / 10 / 5	1	40	1	9.0	5.5	80
BWQV00322520820□00	82	20 / 10 / 5	1	40	1	8.5	6.2	70
BWQV00322520101□00	100	20 / 10 / 5	1	40	0.796	8.0	7.0	80
BWQV00322520121□00	120	20 / 10	1	40	0.796	7.5	8.0	75
BWQV00322520151□00	150	20 / 10	1	40	0.796	7.0	9.3	70
BWQV00322520181□00	180	20 / 10	1	40	0.796	6.0	10.2	65
BWQV00322520221□00	220	20 / 10	1	40	0.796	5.5	11.8	65
BWQV00322520271□00	270	20 / 10	1	40	0.796	5.0	12.5	65
BWQV00322520331□00	330	20 / 10	1	40	0.796	5.0	13.0	65
BWQV00322520391□00	390	20 / 10	1	50	0.796	5.0	22.0	50
BWQV00322520471□00	470	20 / 10	0.001	50	0.796	5.0	25.0	45
BWQV00322520561□00	560	20 / 10 / 5	0.001	50	0.796	2.0	28.0	40

Note: When ordering, please specify tolerance code. Tolerance : J=±5% , K=±10% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current：Self temperature rise shall be limited to 35℃Max Inductance drop 10% typ.
- Measure Equipment：

  L：Agilent HP4285A(1MHz)/Agilent HP4192A(1kHz)

  Q：Agilent HP4285A

  SRF：Agilent HP4286A

  RDC：HP4338B or Chroma 16502

  Rated Current：HP4284A+HP42841A

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	Rated current (mA)
BWQV004532261R0□00	1.0	20	1	20	1	120	0.20	500
BWQV004532261R2□00	1.2	20	1	20	1	100	0.20	500
BWQV004532261R5□00	1.5	20	1	20	1	85	0.30	500
BWQV004532261R8□00	1.8	20	1	20	1	75	0.30	500
BWQV004532262R2□00	2.2	20	1	20	1	62	0.30	500
BWQV004532262R7□00	2.7	20	1	20	1	53	0.32	500
BWQV004532263R3□00	3.3	20	1	20	1	47	0.35	500
BWQV004532263R9□00	3.9	20	1	20	1	41	0.38	500
BWQV004532264R7□00	4.7	20 / 10	1	30	1	38	0.40	500
BWQV004532265R6□00	5.6	20 / 10	1	30	1	33	0.47	500
BWQV004532266R8□00	6.8	20 / 10	1	30	1	31	0.50	450
BWQV004532268R2□00	8.2	20 / 10	1	30	1	27	0.56	450
BWQV00453226100□00	10	20 / 10	1	35	1	23	0.56	400
BWQV00453226120□00	12	20 / 10	1	35	1	21	0.62	380
BWQV00453226150□00	15	20 / 10 / 5	1	35	1	19	0.73	360
BWQV00453226180□00	18	20 / 10	1	35	1	17	0.82	340
BWQV00453226220□00	22	20 / 10 / 5	1	35	1	15	0.94	320
BWQV00453226270□00	27	20 / 10 / 5	1	35	1	14	1.1	300
BWQV00453226330□00	33	20 / 10	1	35	1	12	1.2	270
BWQV00453226390□00	39	20 / 10 / 5	1	35	1	11	1.4	240
BWQV00453226470□00	47	20 / 10 / 5	1	35	1	10	1.5	220
BWQV00453226560□00	56	20 / 10	1	35	1	9.3	1.7	200
BWQV00453226680□00	68	20 / 10 / 5	1	35	1	8.4	1.9	180
BWQV00453226820□00	82	20 / 10	1	35	1	7.5	2.2	170
BWQV00453226101□00	100	20 / 10 / 5	1	40	0.796	6.8	2.5	160
BWQV00453226121□00	120	20 / 10	1	40	0.796	6.2	3.0	150
BWQV00453226151□00	150	20 / 10	1	40	0.796	5.5	3.7	130
BWQV00453226181□00	180	20 / 10	1	40	0.796	5.0	4.5	120
BWQV00453226221□00	220	20 / 10 / 5	1	40	0.796	4.5	5.4	110
BWQV00453226271□00	270	20 / 10	1	40	0.796	4.0	6.8	100
BWQV00453226331□00	330	20 / 10	1	40	0.796	3.6	8.2	95
BWQV00453226391□00	390	20 / 10 / 5	1	40	0.796	3.3	9.7	90
BWQV00453226471□00	470	20 / 10 / 5	0.001	40	0.796	3.0	11.8	80
BWQV00453226561□00	560	20 / 10 / 5	0.001	40	0.796	2.7	14.5	70

Note: When ordering, please specify tolerance code. Tolerance : J=±5% , K=±10% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current：Self temperature rise shall be limited to 35℃Max Inductance drop 10% typ.
- Measure Equipment：
  L：Agilent HP4285A(1MHz)/Agilent HP4192A(1kHz)
  Q：Agilent HP4285A
  SRF：Agilent HP4291A
  RDC：HP4338B or Chroma 16502
  Rated Current：HP4284A+HP42841A

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	Rated current (mA)
BWQV00453226681□00	680	20 / 10	0.001	40	0.796	2.5	17.5	65
BWQV00453226821□00	820	20 / 10	0.001	40	0.796	2.2	20.5	60
BWQV00453226102□00	1000	20 / 10 / 5	0.001	40	0.252	2.0	25.0	50
BWQV00453226122□00	1200	20 / 10	0.001	40	0.252	1.8	30.0	45
BWQV00453226152□00	1500	20 / 10	0.001	40	0.252	1.6	37.0	40
BWQV00453226182□00	1800	20 / 10	0.001	40	0.252	1.5	45.0	35
BWQV00453226222□00	2200	20 / 10 / 5	0.001	40	0.252	1.3	50.0	30

Note: When ordering, please specify tolerance code. Tolerance : J=±5% , K=±10% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current：Self temperature rise shall be limited to 35℃Max Inductance drop 10% typ.
- Measure Equipment：
  L：Agilent HP4285A(1MHz)/Agilent HP4192A(1kHz)
  Q：Agilent HP4285A
  SRF：Agilent HP4291A
  RDC：HP4338B or Chroma 16502
  Rated Current：HP4284A+HP42841A

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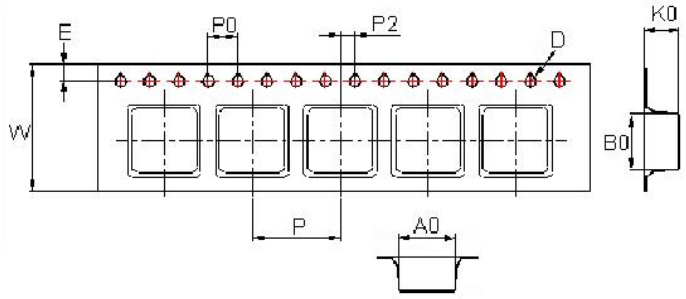
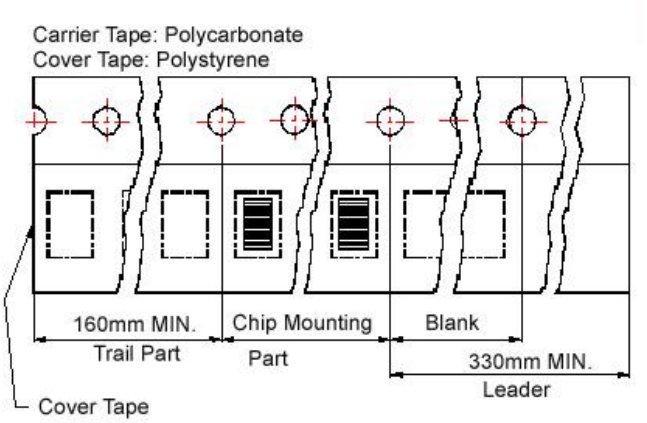
Packaging Specifications

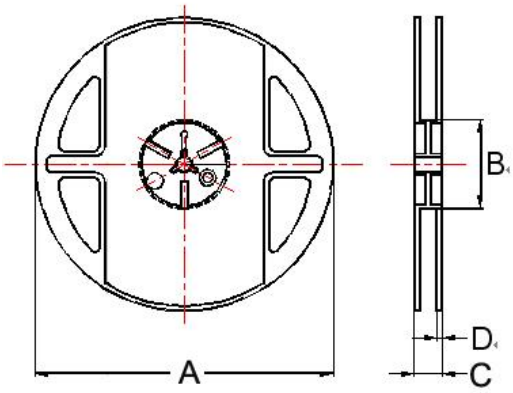
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
BWQV00322520	2.85	3.60	2.25	1.5	1.75	8	4	4	2	178	60	9	1.5	2000
BWQV00453226	3.60	4.90	3.00	1.5	1.75	12	8	4	2	178	60	13.2	1.5	500

BWQC Series

The BWQC Series is a type of miniature wire-wound chip inductor designed on a special ferrite core. They are excellent for use in DC power supply circuits.

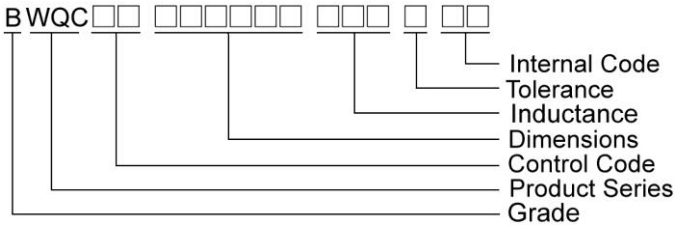
Features

- RoHS compliant
- Low DC resistance, high current capacity, and high impedance characteristics
- Excellent solder heat resistance
- Both flow and reflow soldering methods can be employed
- Available in 4 sizes

Applications

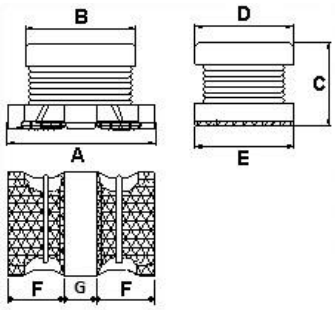
- Personal computers
- Disk drives and computer peripherals
- Pagers, cordless phone
- DC power supply circuit

Product Identification



Shape and Dimensions

BWQC00322520/322520_L1



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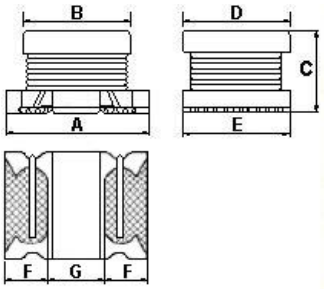
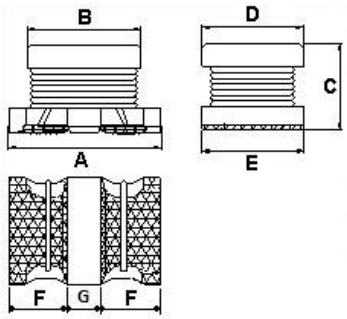


BWQC00453226

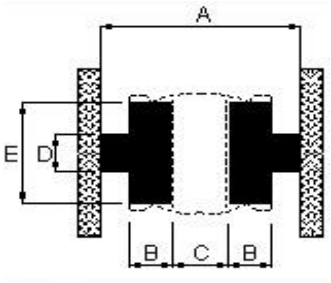


Dimensions in mm

TYPE	A	B	C	D	E	F	G
BWQC00322516	3.2 ± 0.3	2.5 ± 0.2	1.55± 0.15	2.5 ± 0.2	2.5 ± 0.2	0.95 ± 0.3	1.3 ± 0.2
BWQC00322516_H1	3.2 ± 0.3	2.5 ± 0.2	1.55± 0.15	2.5 ± 0.2	2.5 ± 0.2	0.95 ± 0.3	1.3 ± 0.2
BWQC00322520	3.2 ± 0.3	2.5 ± 0.2	2.0 ± 0.2	2.5 ± 0.2	2.5 ± 0.2	0.95 ± 0.3	1.3 ± 0.2
BWQC00322520_L1	3.2 ± 0.3	2.5 ± 0.2	2.0 ± 0.2	2.5 ± 0.2	2.5 ± 0.2	0.95 ± 0.3	1.3 ± 0.2
BWQC00453226	4.5 ± 0.3	3.6 ± 0.2	2.6 ± 0.2	3.2 ± 0.2	3.2 ± 0.2	1.45 ± 0.3	1.6 ± 0.2

Recommended Pattern

BWQC00322516/322516_H1



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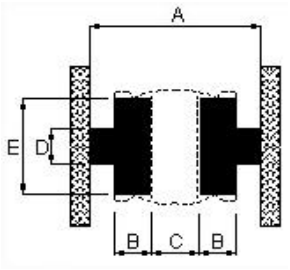

Dimensions in mm

TYPE	A	B	C	D	E
BWQC00322516	5.5	1.0	1.3	1.0	2.0
BWQC00322516_H1	5.5	1.0	1.3	1.0	2.0
BWQC00322520	5.5	1.0	1.3	1.0	2.0
BWQC00322520_L1	5.5	1.0	1.3	1.0	2.0
BWQC00453226	7.5	1.5	1.5	1.5	3.0

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω±20%)	Rated current (mA)	Irms (mA)
BWQC00322516R47□H1	0.47	30	1	100	0.030	3400	2550
BWQC003225161R0□H1	1.0	30 / 20	1	100	0.045	2300	2050
BWQC003225161R5□H1	1.5	30	1	70	0.057	1750	1750
BWQC003225162R2□H1	2.2	30 / 20	1	70	0.076	1550	1600
BWQC003225163R3□H1	3.3	30 / 20	1	50	0.120	1250	1200
BWQC003225164R7□H1	4.7	30 / 20	1	40	0.180	1000	1000
BWQC003225166R8□H1	6.8	30 / 20	1	40	0.240	850	850
BWQC00322516100□H1	10	30 / 20	1	30	0.380	750	700
BWQC00322516150□H1	15	30 / 20	1	25	0.700	550	500
BWQC00322516220□H1	22	30 / 20	1	20	0.810	500	450
BWQC00322516330□H1	33	30 / 20	1	14	1.050	360	320
BWQC00322516470□H1	47	30 / 20	1	11	1.480	280	240

Note: When ordering, please specify tolerance code. Tolerance : M=±20% ,T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current：Self temperature rise shall be limited to 35℃ Max Inductance drop 10% typ.
- Measure Equipment：
  L：Agilent HP4192A
  SRF：Agilent HP4291A
  RDC：Chroma 16502
  Rate Current：HP4284A+HP42841A

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω±30%)	Rated current (mA)
BWQC003225162R2□00	2.2	20	1	64	0.097	790
BWQC003225163R3□00	3.3	20	1	50	0.12	710
BWQC003225166R8□00	6.8	20	1	32	0.25	540
BWQC00322516100□00	10	20 / 10	1	26	0.30	350
BWQC00322516220□00	22	20 / 10	1	19	0.71	250
BWQC00322516101□00	100	20 / 10	1	10	3.50	100

Note: When ordering, please specify tolerance code. Tolerance : K=±10% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current for Inductance drop 10% from its value with current
- Measure Equipment：
  L：Agilent HP4192A
  SRF：Agilent HP4287A
  RDC：Chroma 16502

Electrical Characteristics (LOW DCR Type)

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω±30%)	Rated current (mA)
BWQC00322520R15□L1	0.15	20	1	400	0.028	1450
BWQC00322520R27□L1	0.27	20	1	250	0.034	1250
BWQC00322520R47□L1	0.47	20	1	150	0.042	1100
BWQC003225201R0□L1	1.0	20	1	100	0.060	1000
BWQC003225201R5□L1	1.5	20	1	85	0.085	900
BWQC003225202R2□L1	2.2	20	1	64	0.097	790
BWQC003225203R3□L1	3.3	20	1	55	0.13	700
BWQC003225204R7□L1	4.7	20 / 10	1	43	0.15	650
BWQC003225206R8□L1	6.8	20	1	30	0.21	600
BWQC00322520100□L1	10	20 / 10	1	26	0.30	450

Note: When ordering, please specify tolerance code. Tolerance : K=±10% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current：Self temperature rise shall be limited to 35℃ Max Inductance drop 10% typ.
- Measure Equipment：
  L：Agilent HP4192A
  SRF：Agilent HP4291A
  RDC：Chroma 16502
  Rate Current：HP4284A+HP42841A

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω±30%)	Rated current (mA)
BWQC00322520R47□00	0.47	20	1	150	0.042	1100
BWQC003225201R0□00	1.0	20	1	96	0.09	1000
BWQC003225202R2□00	2.2	20	1	64	0.13	600
BWQC003225203R3□00	3.3	20 / 10	1	60	0.15	600
BWQC003225203R9□00	3.9	20	1	50	0.16	500
BWQC003225204R7□00	4.7	20	1	43	0.20	450
BWQC003225206R8□00	6.8	20	1	30	0.26	400
BWQC00322520100□00	10	20 / 10	1	26	0.44	300
BWQC00322520150□00	15	20 / 10	1	22	0.55	350
BWQC00322520220□00	22	20 / 10	1	19	0.71	250
BWQC00322520270□00	27	20 / 10	1	15	0.90	230
BWQC00322520330□00	33	20 / 10	1	15	1.10	200
BWQC00322520470□00	47	20 / 10	1	15	1.30	170
BWQC00322520560□00	56	20 / 10	1	12	2.30	150
BWQC00322520101□00	100	20 / 10	1	10	3.50	100
BWQC00322520151□00	150	20 / 10 / 5	1	7	6.00	80
BWQC00322520221□00	220	20 / 10 / 5	1	6.8	8.40	70
BWQC00322520271□00	270	20 / 10	1	6	10.0	65
BWQC00322520331□00	330	20 / 10 / 5	1	5.6	10.0	60
BWQC00322520391□00	390	20 / 10	1	5	17.0	60
BWQC00322520471□00	470	20 / 10	0.001	5	19.0	60
BWQC00322520561□00	560	20 / 10	0.001	5	22.0	60

Note: When ordering, please specify tolerance code. Tolerance : J=±5% , K=±10% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current：Self temperature rise shall be limited to 35℃ Max Inductance drop 10% typ.
- Measure Equipment：
  L：Agilent HP4192A
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  RDC：Chroma 16502
  Rate Current：HP4284A+HP42841A

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max.	Rated current (mA)
BWQC004532261R0□00	1.0	20	1	100	0.08	1080
BWQC004532261R5□00	1.5	20	1	85	0.09	1000
BWQC004532261R8□00	1.8	20	1	65	0.10	900
BWQC004532262R2□00	2.2	20 / 10	1	60	0.11	900
BWQC004532263R3□00	3.3	20	1	47	0.13	800
BWQC004532264R7□00	4.7	20 / 10	1	35	0.15	750
BWQC004532266R8□00	6.8	20 / 10	1	30	0.20	720
BWQC00453226100□00	10	20 / 10 / 5	1	23	0.24	650
BWQC00453226150□00	15	20 / 10 / 5	1	20	0.32	570
BWQC00453226220□00	22	20 / 10 / 5	1	15	0.60	420
BWQC00453226330□00	33	20 / 10 / 5	1	12	1.0	310
BWQC00453226470□00	47	20 / 10 / 5	1	10	1.1	280
BWQC00453226680□00	68	20 / 10 / 5	1	8.4	1.7	220
BWQC00453226101□00	100	20 / 10 / 5	1	6.8	2.2	190
BWQC00453226151□00	150	20 / 10 / 5	1	5.5	3.5	130
BWQC00453226221□00	220	20 / 10 / 5	1	4.5	4.0	110
BWQC00453226331□00	330	20 / 10 / 5	1	3.6	6.8	100
BWQC00453226471□00	470	20 / 10 / 5	1	3.0	8.5	90
BWQC00453226561□00	560	20 / 10 / 5	0.001	2.5	10.4	80
BWQC00453226681□00	680	20 / 10 / 5	0.001	2.2	14.7	70
BWQC00453226821□00	820	20 / 10 / 5	0.001	2.0	20.0	60
BWQC00453226102□00	1000	20 / 10 / 5	0.001	2.0	27.9	50
BWQC00453226152□00	1500	20 / 10 / 5	0.001	1.8	35.0	40

Note: When ordering, please specify tolerance code. Tolerance : J=±5% , K=±10% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current：Self temperature rise shall be limited to 35℃ Max Inductance drop 10% typ.
- Measure Equipment：
  L：Agilent HP4192A
  SRF：Agilent HP4291A
  RDC：Chroma 16502
  Rate Current：HP4284A+HP42841A

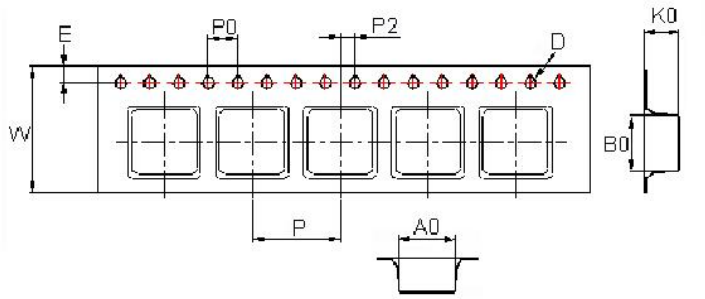
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

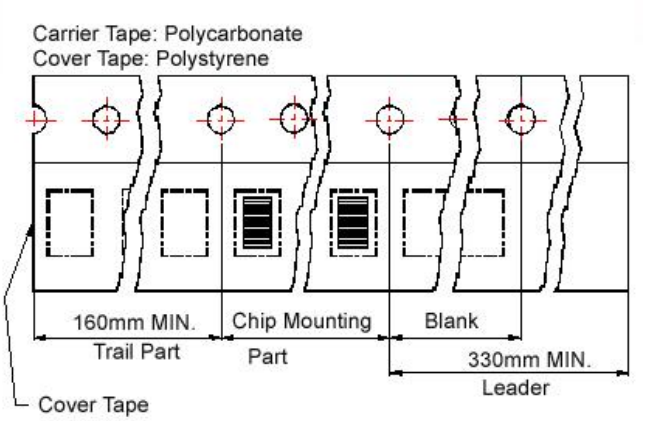
CHILISIN ELECTRONICS CORP.

Packaging Specifications

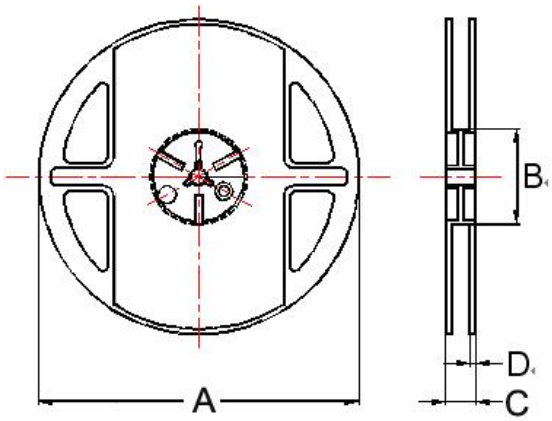
Tape Dimensions



Tape Material



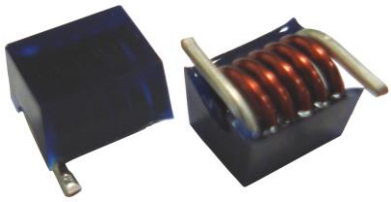
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
BWQC00322516	2.85	3.56	1.80	1.55	1.75	8	4	4	2	178	60	9	1.5	2000
BWQC00322516_H1	2.85	3.56	1.80	1.55	1.75	8	4	4	2	178	60	9	1.5	2000
BWQC00322520	2.85	3.60	2.25	1.5	1.75	8	4	4	2	178	60	9	1.5	2000
BWQC00322520_L1	2.85	3.60	2.25	1.5	1.75	8	4	4	2	178	60	9	1.5	2000
BWQC00453226	3.60	4.90	3.00	1.5	1.75	12	8	4	2	178	60	13.2	1.5	500

BWSM Series



Air core inductors feature high Q and high current handling. Solder coated leads ensure reliable soldering.

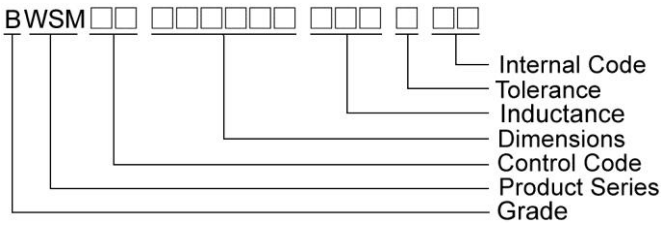
Features

- High Q
- High Current
- Low loss
- Low DCR

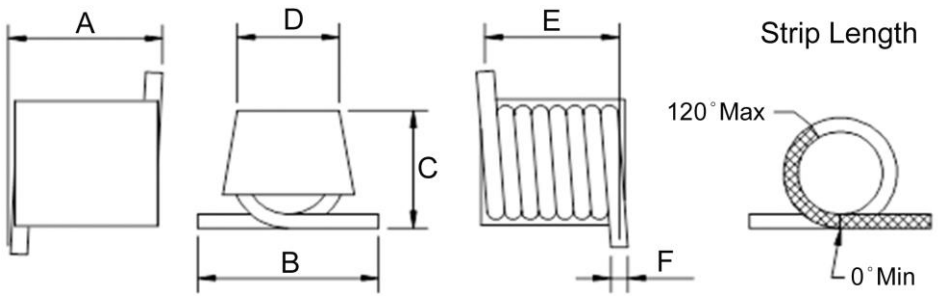
Applications

- Base Station
- LNA
- LNB
- Satellite

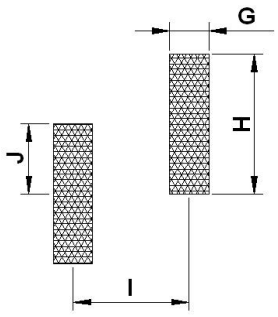
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions

	A	B	C	D	E	F	G	H	I	J
BWSM00506442	4.94Max	6.34Max	4.18Max	3.5±0.3	4.3±0.4	0.7Max	1.48	5.16	4.32	2.62

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (GHz) Min	RDC (mΩ) Max	Irms (A) Typ
BWSM0050644222N□00	22	2 / 5	100	150	1.9	4.2	3.0
BWSM0050644227N□00	27	2 /,5	100	150	1.7	4.0	3.5
BWSM0050644233N□00	33	2 /,5	100	150	1.5	4.8	3.0
BWSM0050644239N□00	39	2 / 5	100	150	1.1	4.8	3.0
BWSM0050644247N□00	47	2 / 5	100	150	1.1	5.8	3.0
BWSM0050644256N□00	56	2 / 5	100	150	0.95	6.3	3.0
BWSM0050644268N□00	68	2 / 5	100	150	0.85	8.5	2.5
BWSM0050644282N□00	82	2 / 5	100	150	0.75	9.4	2.5

Note: When ordering, please specify tolerance code. Tolerance: G=±2% , J=±5%

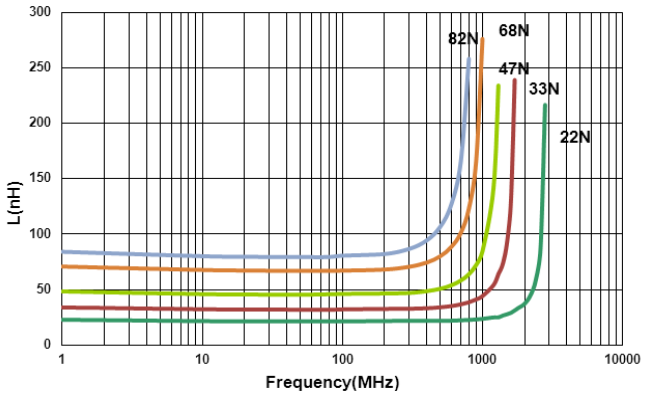
- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Irms for a 15℃ temperature rise from 25℃ ambient.
- Measure Equipment：

  L & Q：Agilent E4991A+Agilent HP16197A

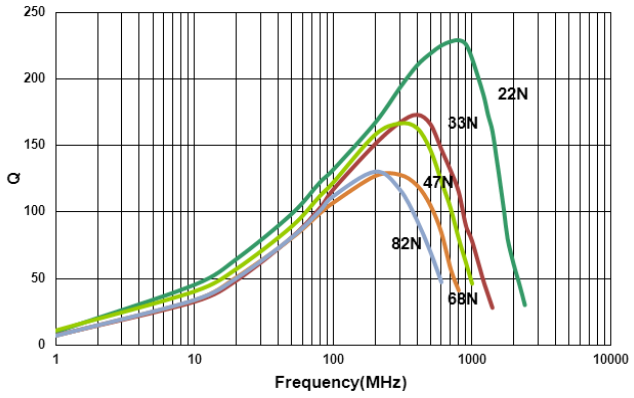
  RDC: Chroma 16502

  Irms：HP4284A+HP42841A/HP4285A+HP42841A

Typical L vs. Frequency



Typical Q vs. Frequency



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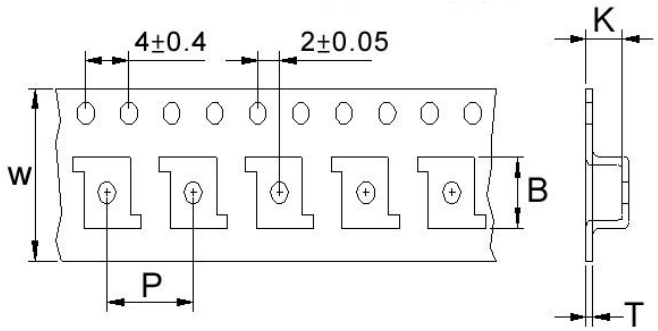
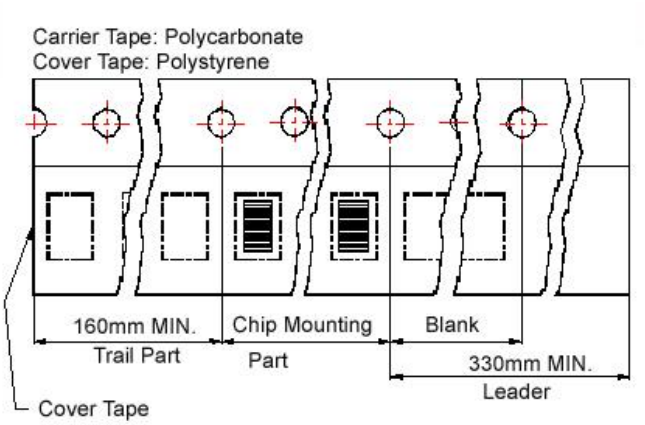
CHILISIN ELECTRONICS CORP.

Packaging Specifications

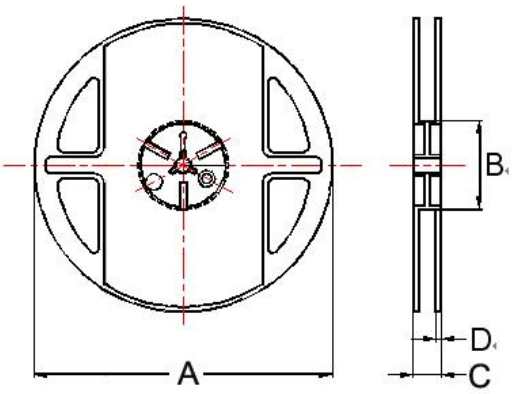
Tape Dimensions



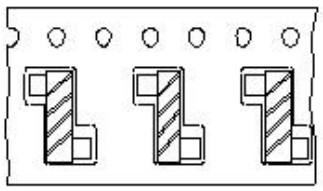
Tape Material



Reel Dimensions



Orientation



Dimensions in mm

TYPE	Tape Dimensions					Reel Dimensions				Quantity
	B	T	W	P	K	A	B	C	D	PCS / REEL
BWSM00506442	5.2	0.4	12	8	3.9	178	60.2	16	1.4	500

BTCA Series

Chilisin offer multilayer devices of Low-Temperature Cofired Ceramics for applications in wireless communication as WLAN, Bluetooth etc. Our commitment is to meet your goals through extensive technological innovation, excellent quality, short lead time and high volume production capability.

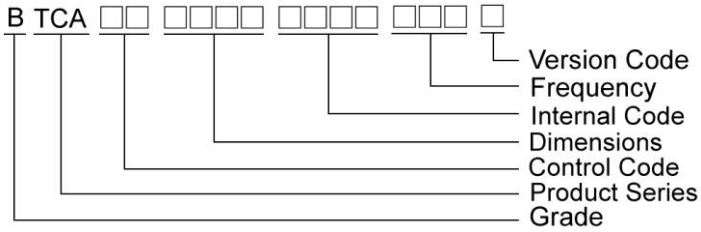
Features

- Monolithic SMD with small
- Low-profile and light-weight type

Applications

- Bluetooth
- 2.4GHz Wireless LAN
- Home RF
- Consumer electronic

Product Identification



Shape and Dimensions

FIG1

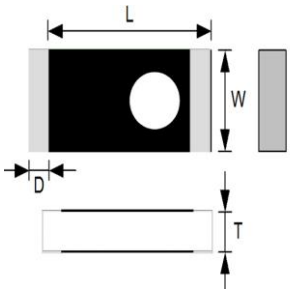


FIG2

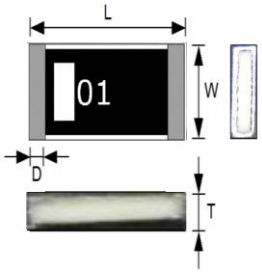


FIG3

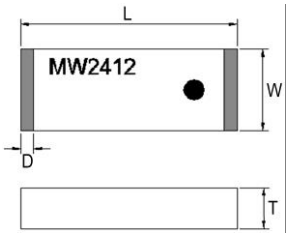
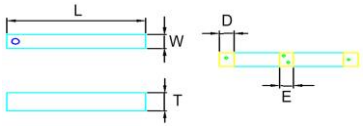


FIG4



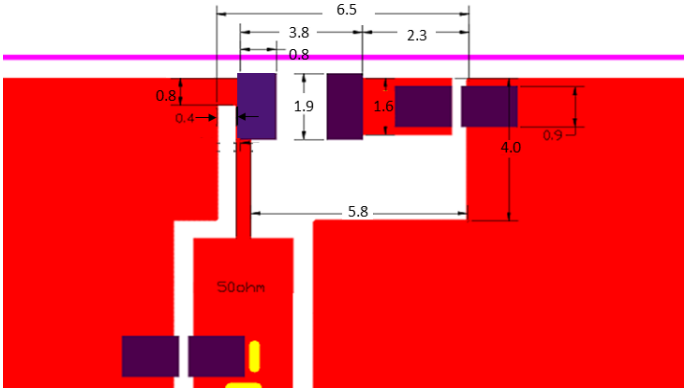
Dimensions in mm

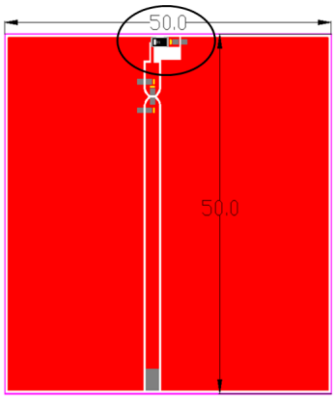
TYPE	FIG	L	W	D	T
BTCA003216080025GE	1	3.2±0.2	1.6±0.2	0.5±0.2	0.5±0.2
BTCA00321609002G4W	2	3.0±0.2	1.5±0.2	0.2±0.2	0.5±0.2
BTCA00321609005G0W	2	3.2±0.2	1.6±0.2	0.5±0.2	0.5±0.2
BTCA005020100025GM	3	5.0±0.4	2.0±0.4	0.3±0.2	1.0±0.2

Recommended Pattern

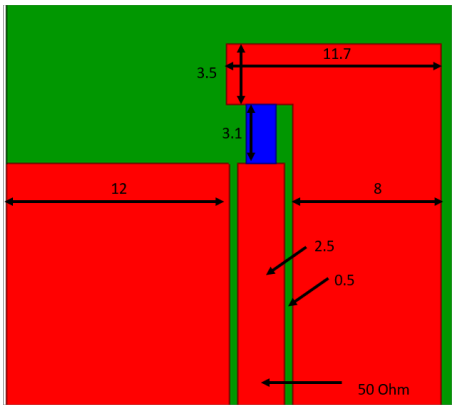
PC Board Pattern

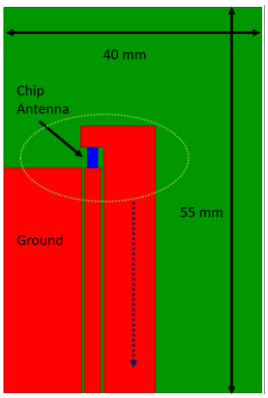
BTCA00321609002G4W





BTCA00321609005G0W





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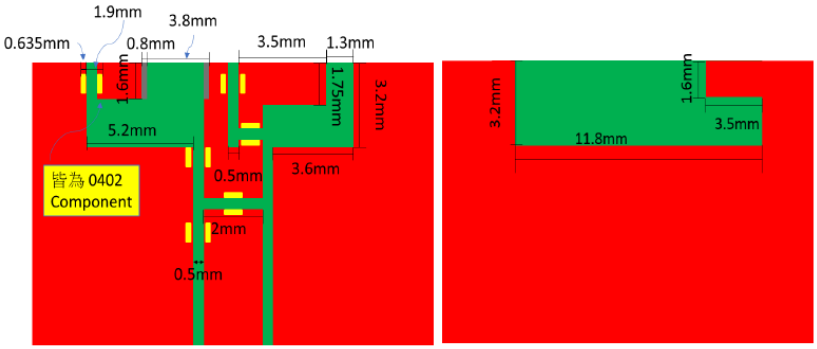
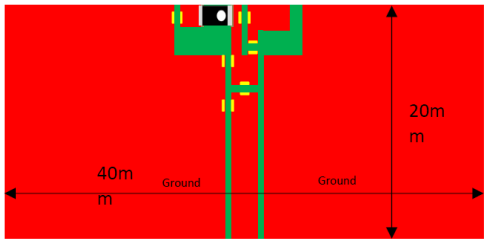
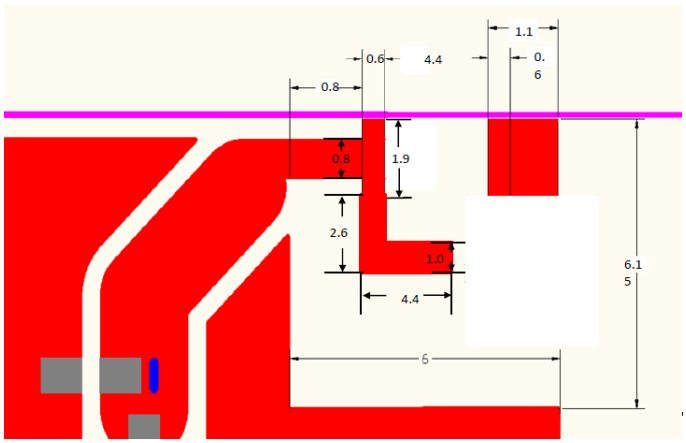
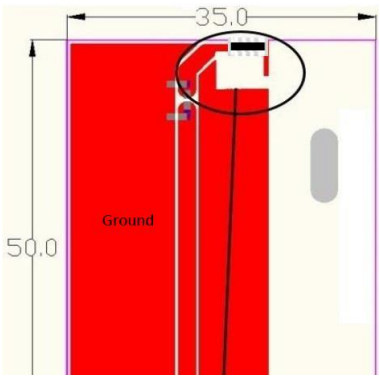




BTCA005020100025GM





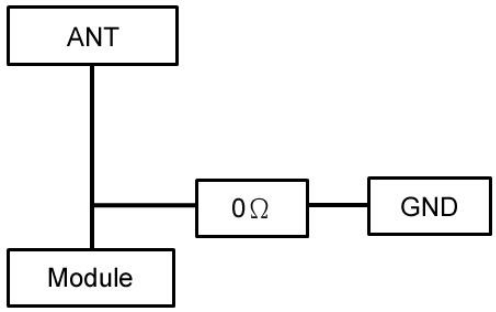
Electrical Characteristics

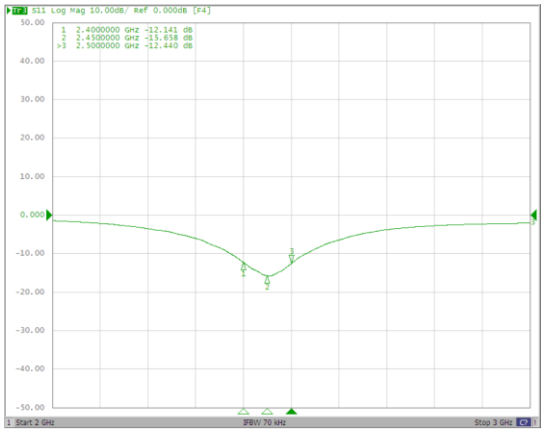
Part Number	Impedance (Ω)	Test Frequency (GHz)	Bandwidth* (MHz)	Peak Gain* (dBi)	VSWR (Max)	Polarization
BTCA00321609002G4W	50	2.4	100	0~1	2	Linear
BTCA00321609005G0W	50	5	100	-0.3~1.3	2	Linear
BTCA003216080025GE	50	2.4 5	100	1~2	2	Linear
BTCA005020100025GM	50	2.4 5	100	3.2	2	Linear

Note: *Depend on PCB layout.

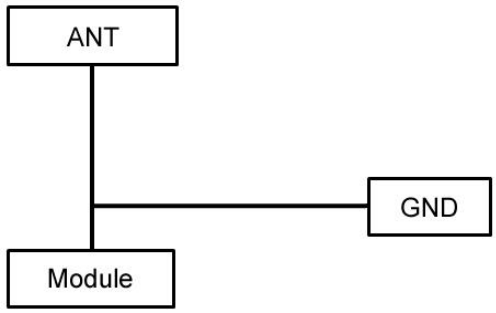
Test Instruments：Agilent E4991A Material/Impedance Analyzer

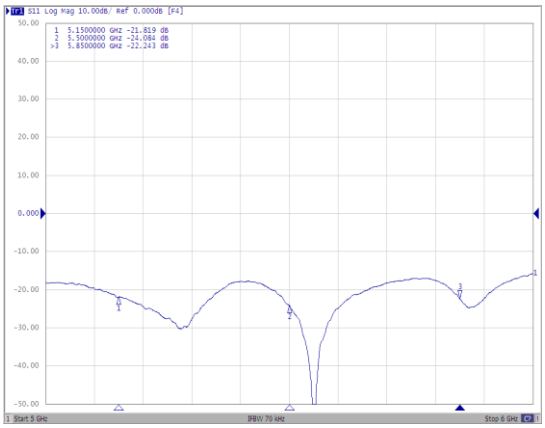
BTCA00321609002G4W





BTCA00321609005G0W





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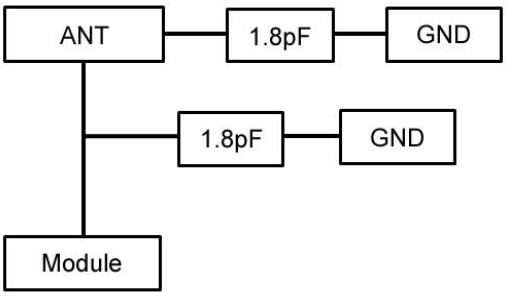

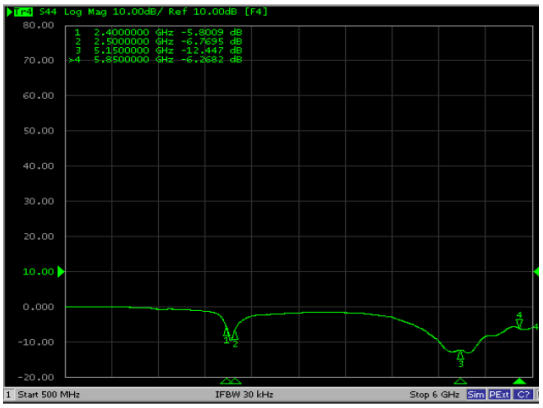

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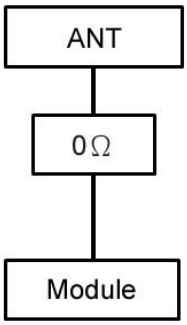
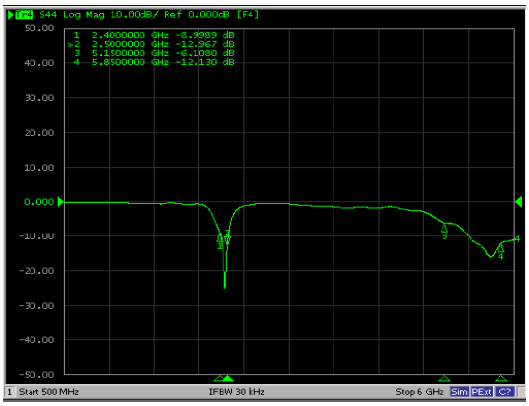
Test Instruments：Agilent E4991A Material/Impedance Analyzer

BTCA005020100025GM





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CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions

Reel Dimensions

FIG 1

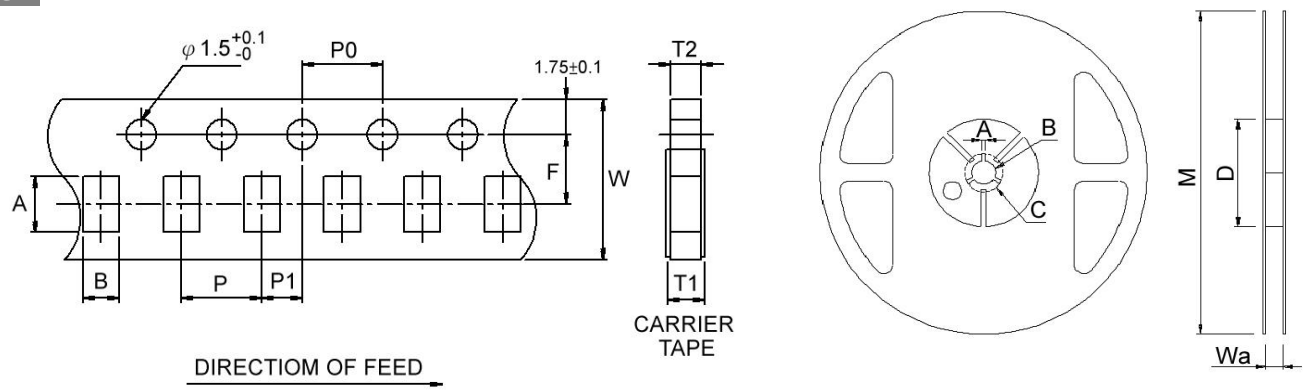
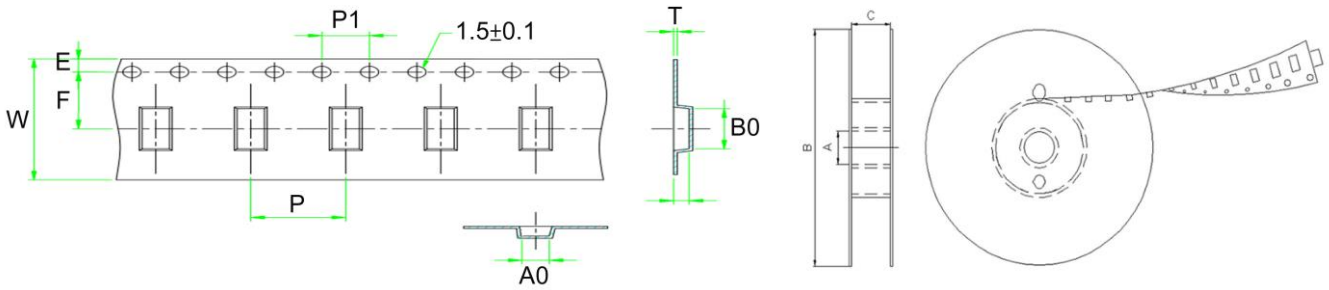


FIG 2

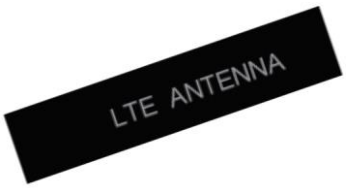


Dimensions

TYPE	FIG	Tape Dimensions									Reel Dimensions						Quantity
		A	B	T1	W	P	P0	P1	F	T2	Wa	M	A	B	C	D	PCS / REEL
BTCA00321605	1	3.5	1.9	0.75	8	4	4	2	3.5	0.75	9	178	2	13.5	21	60	5000
											12	178	2	13.2	17.7	60	

TYPE	FIG	Tape Dimensions									Reel Dimensions				Quantity
		A0	B0	T	E	W	P	P0	F	K0	A	B	C	D	PCS / REEL
BTCA005020	2	2.3	5.3	0.3	1.75	16	8	4	7.5	1.3	100	330	12	-	5000

BTPA Series



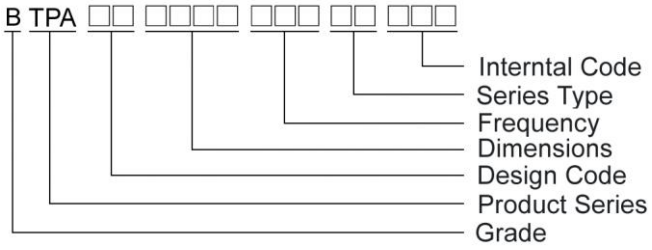
Features

- Small size low-profile, low cost and lightweight type
- Wide bandwidth and Omni-directional
- Supported with Dip-type, SMD, and Co-axial cable connecting
- Customized

Applications

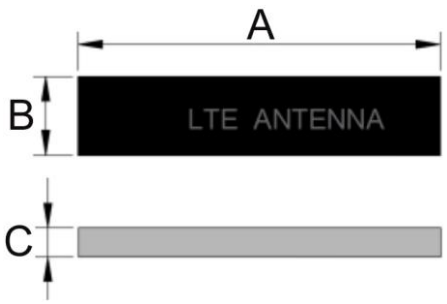
- Bluetooth, Wireless Router, Set Top Box and Home digital
- ISM band, Lora, Sigfox, LTE, NB-IOT, GPS, WiFi and Car use.

Product Identification

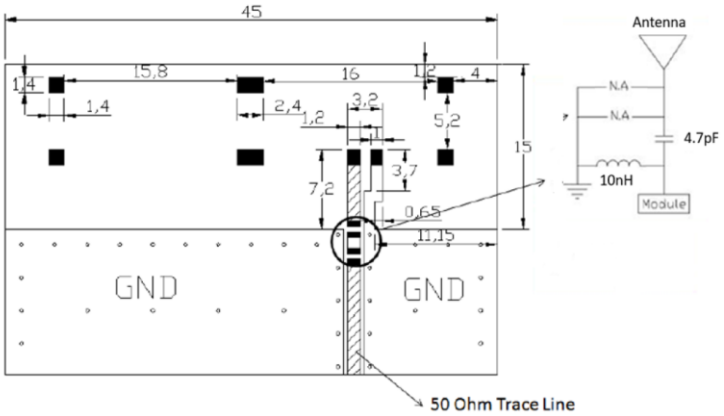


Shapes and Dimensions

FIG 1



Recommend foot print for Evaluation Board



Dimensions in mm

TYPE	FIG	A	B	C
BTPA0038084G0D1A01	1	38	8	3

Electrical Characteristics

Part Number	Frequency Range (MHz)	Impedance (Ω)	Return Loss (dB)	Efficiency	Termination
BTPA0038084G0D1A01	698~2690	50	<-3	698~824MHz >20% 824~960MHz >40% 1710~2170MHz >50% 2170~2690MHz >40%	Ag (Environmentally-Friendly Pb

- Operating temperature range－40℃～+80℃
- Storage temperature range－45℃～+85℃

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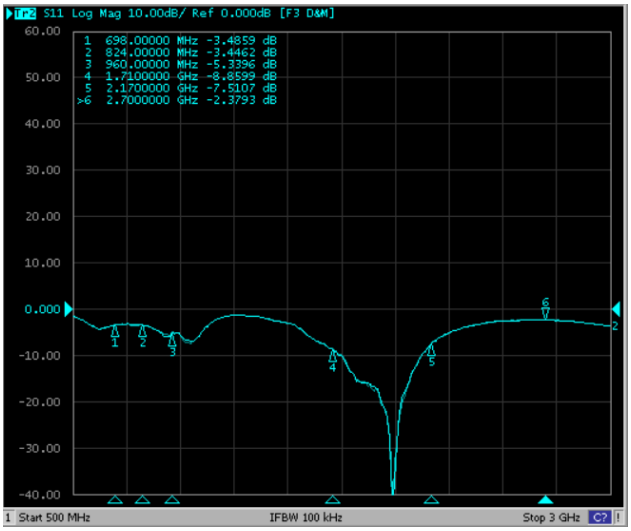
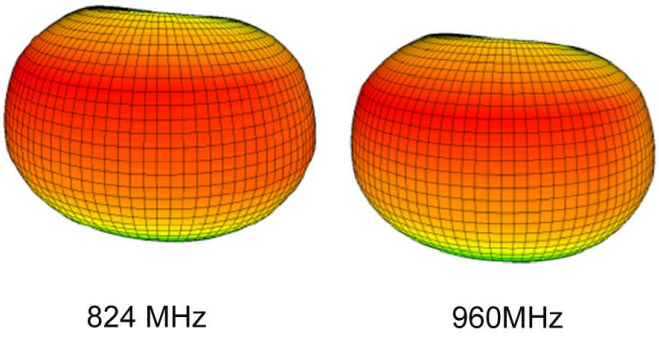
CHILISIN ELECTRONICS CORP.

BTPA0038084G0D1A01

Network Analyzer Test

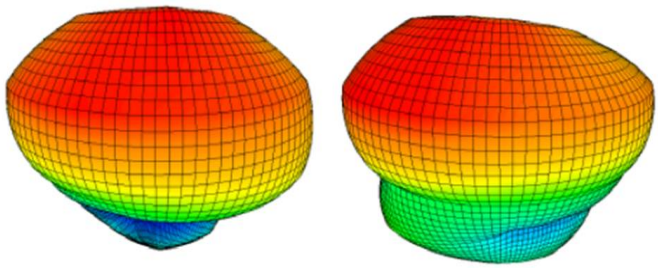


Peak Gain and Efficiency



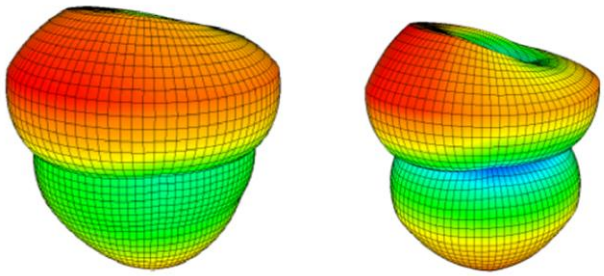
824 MHz　　960MHz

Layer	824(MHz)	915(MHz)	960(MHz)
Peak Gain(dB)	-0.52	0.12	-0.31
Efficiency(%)	54.12	58.13	52.37



1710MHz　　2170MHz

Layer	1710MHz	1809MHz	1908MHz	2170MHz
Peak Gain(dB)	1.03	1.15	1.13	1.07
Efficiency(%)	68.56	71.12	70.91	69.32



2100MHz　　2700MHz

Layer	2100(MHz)	2500(MHz)	2700(MHz)
Peak Gain(dB)	2.13	1.35	1.16
Efficiency(%)	77.71	45.14	43.5

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Packaging Specifications

Dimensions in mm

TYPE	FIG	Tape Dimensions									Packing Specification		Quantity
		A0	B0	T	E	W	P	P0	F	K0	Bundle	PE Bag	PCS / REEL
BTPA003808	-	-	-	-	-	-	-	-	-	-	25	100	-

BTEA Series

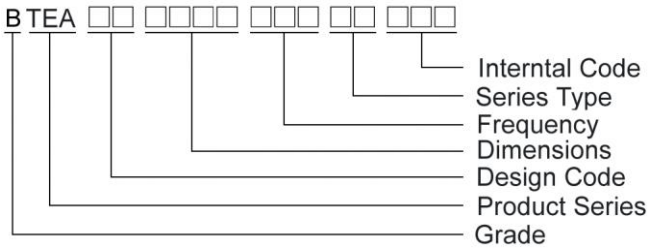
Features

- Easy installation low cost and light-weight type
- Wide bandwidth and Omni-directional
- Customized

Applications

- Bluetooth, Wireless Router, Set Top Box and Home digital
- ISM band, Lora, Sigfox, LTE, 5G, Sub 6G, WiFi 6e, NB-IOT, GPS, WiFi and Car use.

Product Identification



Shapes and Dimensions

FIG 1

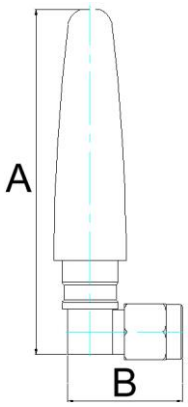


FIG 2

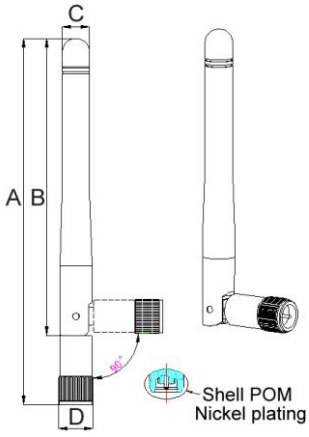


FIG 3

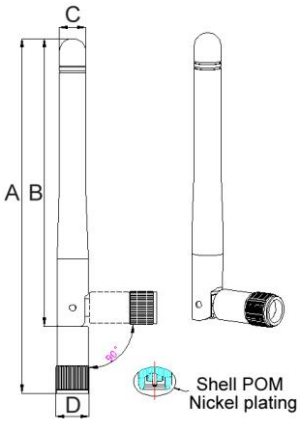
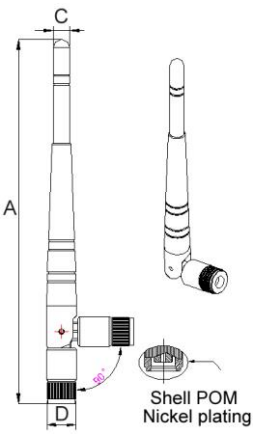


FIG 4



Dimensions in mm

TYPE	FIG	A	B	C	D
BTEA0050160G8R2A01	1	50±2	16.6±0.3	-	-
BTEA0087090G8R2A07	3	108±5	86.7±5	7.9	9.4±0.5
BTEA0087092G4R2A40	3	108.5±5	86.7±5	7.9	10±0.5
BTEA00870925GR2A07	2	108.5±5	87±5	7.8	10±0.5
BTEA0087095G0R2A03	3	108±5	86.7±5	7.8	9.95±0.5
BTEA00151325GR2A07	4	157.5±5	-	7.2	13
BTEA0015132G4R2A08	4	157.5±5	-	7.2	13

Shapes and Dimensions

FIG 5

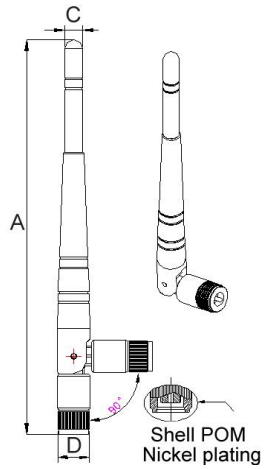


FIG 6

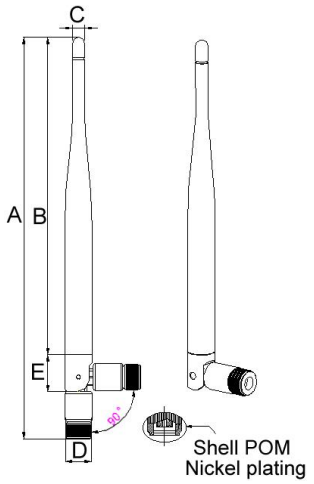


FIG 7

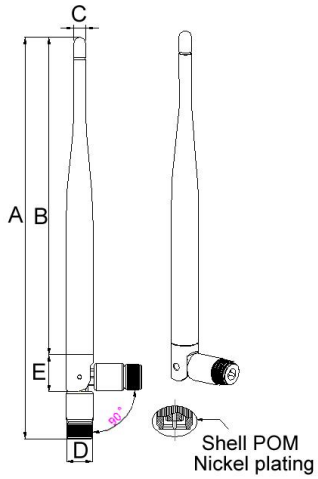
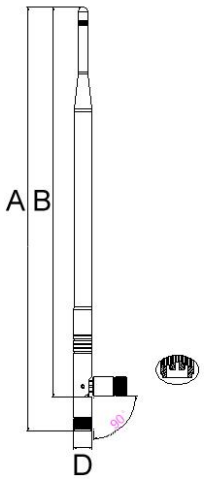


FIG 8



Dimensions in mm

TYPE	FIG	A	B	C	D	E
BTEA0015135G0R2A01	5	157.5±5	-	7.2	13	-
BTEA0017132G4R2A31	6	196±5	154±3	6	13	18
BTEA00171325GR2A05	7	196±5	154±3	6	13	18
BTEA0017135G0R2A07	6	196±5	154±3	6	13	18
BTEA00271325GR2A03	8	293±5	270±5	-	13	-

FIG 9

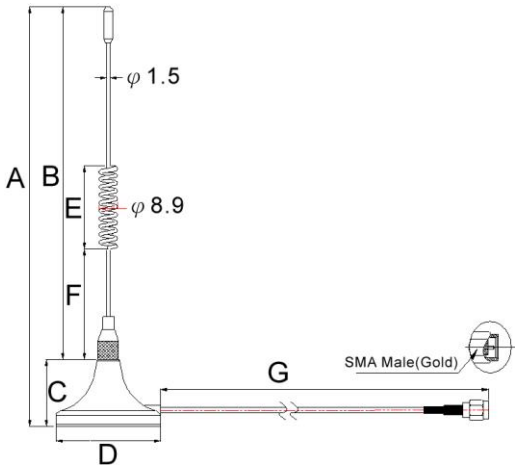
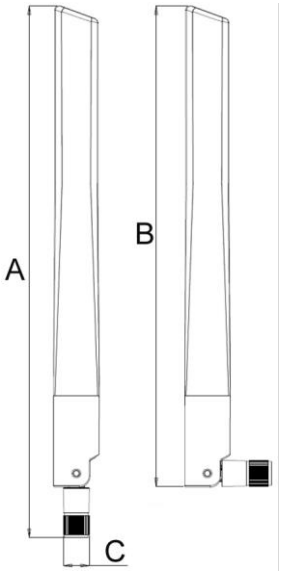


FIG 10



Dimensions in mm

TYPE	FIG	A	B	C	D	E	F	G
BTEA0027300G8R1A01	9	278.2±5	250±2	28.2	φ30	24	51.3	1000±30
BTEA0020104G0R2A02	10	203.43±3	183.95	10±0.3	-	-	-	-
BTEA0020103G8R2A01	10	203.43±3	183.95	10±0.3	-	-	-	-
BTEA0020103G9R2A01	10	203.43±3	183.95	10±0.3	-	-	-	-
BTEA0020106G0R2A01	10	203.43±3	183.95	10±0.3	-	-	-	-
BTEA0020106G0R2A02	10	203.43±3	183.95	10±0.3	-	-	-	-
BTEA0020106G0R2A05	10	203.43±3	183.95	10±0.3	-	-	-	-

Electrical Characteristics

Part Number	Frequency Range (GHz)	Impedance (Ω)	Return Loss dB(Max)	VSWR (Max)	Radiation	Peak Gain (dB)	Polarization	Admitted Power (W)
BTEA0050160G8R2A01	0.824~0.915 1.725~1.88	50	-2.5	-	Omni-directional	2.56	Linear Vertical	1
BTEA0087090G8R2A07	0.824~0.96 1.71~2.17	50	-4	-	Omni-directional	-0.88 2.03	Linear Vertical	-
BTEA0087092G4R2A40	2.4~2.5	50	-10	-	Omni-directional	2	Linear Vertical	1
BTEA00870925GR2A07	2.4~2.5 5.15~5.85	50	-10	-	Omni-directional	2	Linear Vertical	1
BTEA0087095G0R2A03	5.15~5.85	50	-10	-	Omni-directional	2.36	Linear Vertical	1
BTEA00151325GR2A07	2.4~2.5 5.15~5.85	50	-10	2	Omni-directional	3±0.5	Linear	-
BTEA0015132G4R2A08	2.4~2.5	50	-10	2	Omni-directional	3	Linear	-
BTEA0015135G0R2A01	5.1~5.9	50	-10	2	Omni-directional	3±1	Linear	-
BTEA0017132G4R2A31	2.4~2.5	50	-10	-	Omni-directional	4.93	Linear Vertical	1
BTEA00171325GR2A05	2.4~2.5 5.15~5.85	50	-10	-	Omni-directional	5±1	Linear Vertical	1
BTEA0017135G0R2A07	5.15~5.85	50	-10	-	Omni-directional	5±1	Linear Vertical	1
BTEA0020103G8R2A01	3.3~3.8	50	-10	-	Omni-directional	2.69	Linear Vertical	1
BTEA0020103G9R2A01	3.3~4.9	50	-7	-	Omni-directional	4.89	Linear Vertical	1
BTEA0020104G0R2A02	0.704~0.96 1.71~2.7	50	-	5	Omni-directional	2.45 4.51	Linear Vertical	1
BTEA0020106G0R2A01	0.617~0.96 1.71~2.17 2.3~2.7 3.3~3.8 4.4~5 5.15~5.85	50	-	4	Omni-directional	0.59 3.74 3.51 3.7 4 4.87	Linear Vertical	1
BTEA0020106G0R2A02	5.925~7.125	50	-10	-	Omni-directional	5.31	Linear Vertical	1
BTEA0020106G0R2A05	2.4~2.5 5.15~5.85 5.925~6.325 6.35~6.75 6.775~7.125	50	-10	-	Omni-directional	5.65 5.94 6.42 6.87 5.42	Linear Vertical	1
BTEA00271325GR2A03	2.4~2.5 5.15~5.85	50	-10	-	Omni-directional	7±0.5	Linear Vertical	-
BTEA0027300G8R1A01	0.8~0.9 1.8~1.9 2.1	50	-10	2	Omni-directional	-	Linear Vertical	-

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Physical Properties

Part Number	Cable	Antenna Cover	Antenna Base	Operating Temp	Storage Temp	Color	Connector
BTEA0050160G8R2A01	RG-178	TPEE	PC/PBT	-20℃~+65℃	-30℃~+75℃	Black	SMA-Male 90°
BTEA0087090G8R2A07	RG-178	TPEE	PC/PBT	-20℃~+65℃	-30℃~+75℃	Black	SMA-Male-RP
BTEA0087092G4R2A40	RG-178	TPEE	PC/PBT	-20℃~+65℃	-30℃~+75℃	Black	SMA-Male-Reverse
BTEA00870925GR2A07	RG-178	TPEE	PC/PBT	-20℃~+65℃	-30℃~+75℃	Black	SMA-Male
BTEA0087095G0R2A03	RG-178	TPEE	PC/PBT	-20℃~+65℃	-30℃~+75℃	Black	SMA-Male-RP
BTEA00151325GR2A07	RG-178	TPEE	PC/PBT	-20℃~+65℃	-30℃~+75℃	Black	SMA-Male-RP
BTEA0015132G4R2A08	RG-178	TPEE	PC/PBT	-20℃~+65℃	-30℃~+75℃	Black	SMA-Male-RP
BTEA0015135G0R2A01	RG-178	TPEE	PC/PBT	-20℃~+65℃	-30℃~+75℃	Black	SMA-Male
BTEA0017132G4R2A31	RG-178	TPEE	PC/PBT	-20℃~+65℃	-30℃~+75℃	Black	SMA-Male-Reverse
BTEA00171325GR2A05	RG-178	TPEE	PC/PBT	-20℃~+65℃	-30℃~+75℃	Black	SMA-Male
BTEA0017135G0R2A07	RG-178	TPEE	PC/PBT	-20℃~+65℃	-30℃~+75℃	Black	SMA-Male-Reverse
BTEA0020103G8R2A01	RG-178	ABS	PC/PBT	-20℃~+65℃	-30℃~+70℃	Black	SMA-Male
BTEA0020103G9R2A01	RG-178	ABS	PC/PBT	-20℃~+65℃	-30℃~+70℃	Black	SMA-Male
BTEA0020104G0R2A02	RG-178	ABS	PC/PBT	-20℃~+65℃	-30℃~+75℃	Black	SMA-Male
BTEA0020106G0R2A01	RG-178	ABS	PC/PBT	-20℃~+65℃	-30℃~+75℃	Black	SMA-Male-RP
BTEA0020106G0R2A02	RG-178	ABS	PC/PBT	-20℃~+65℃	-30℃~+70℃	Black	SMA-PLUG
BTEA0020106G0R2A05	RG-178	ABS	PC/PBT	-20℃~+65℃	-30℃~+75℃	Black	SMA-PLUG
BTEA00271325GR2A03	RG-178	ABS	PC/PBT	-20℃~+65℃	-30℃~+75℃	Black	RP-SMA-Male
BTEA0027300G8R1A01	RG-174	ABS	PVC/SPRING	-10℃~+70℃	+40℃~+80℃	Black	SMA-PLUG

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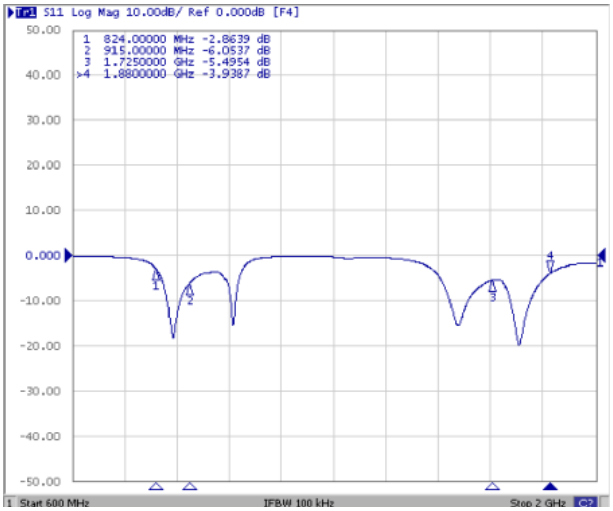
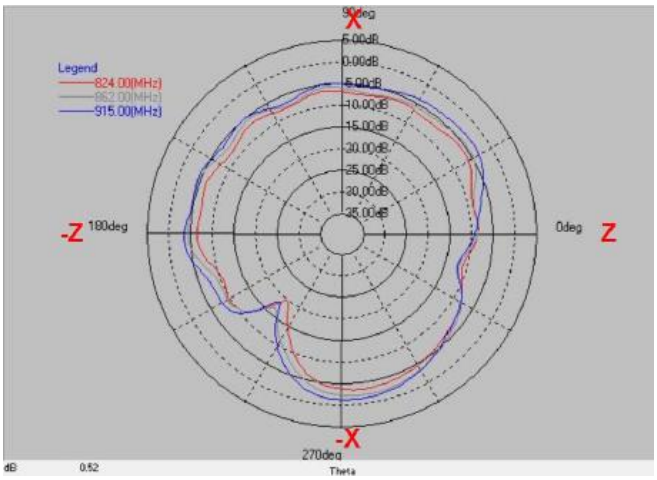
BTEA0050160G8R2A01

Return Loss S11

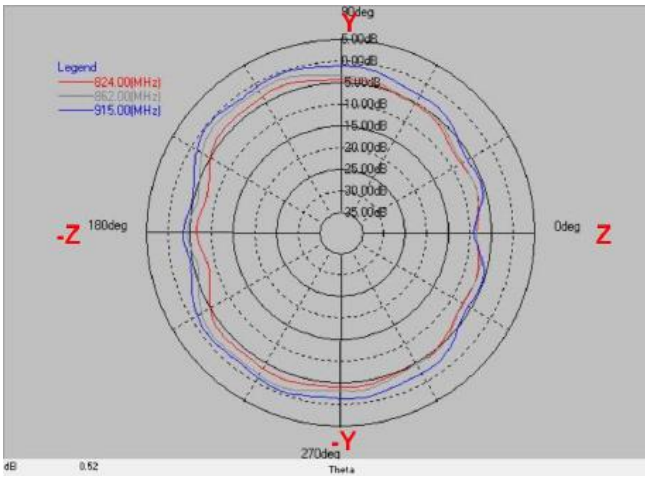


Frequency(MHz)：824~915. Pattern Field：X-Z plane



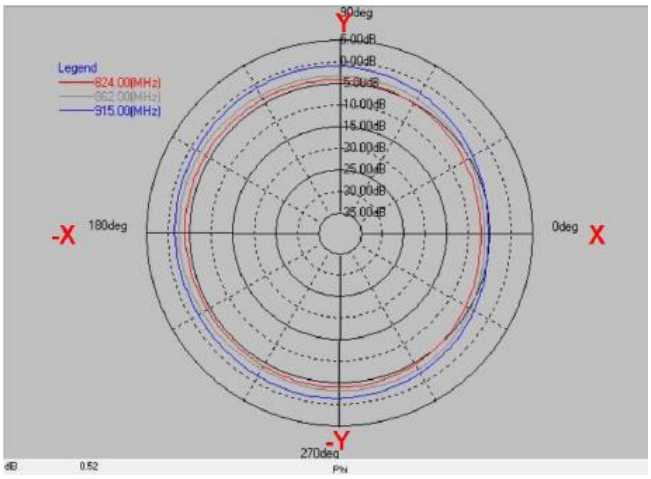
Frequency	Max value	Min value	Average
824(MHz)	-3.68 dB	-19.80 dB	-7.22 dB
862(MHz)	-2.31 dB	-16.80 dB	-6.07 dB
915(MHz)	-1.52 dB	-18.72 dB	-5.13 dB

Frequency(MHz)：824~915. Pattern Field：Y-Z plane



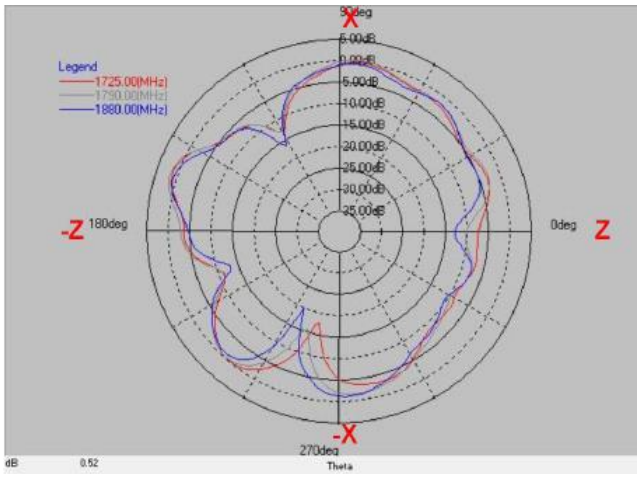
Frequency	Max value	Min value	Average
824(MHz)	-3.26 dB	-8.39 dB	-5.27 dB
862(MHz)	-1.60 dB	-8.61 dB	-4.02 dB
915(MHz)	-0.37 dB	-9.12 dB	-2.62 dB

Frequency(MHz)：824~915. Pattern Field：Y-X plane



Frequency	Max value	Min value	Average
824(MHz)	-3.85 dB	-7.08 dB	-4.79 dB
862(MHz)	-2.50 dB	-6.26 dB	-3.66 dB
915(MHz)	-1.06 dB	-5.29 dB	-2.22 dB

Frequency(MHz)：1725~1880. Pattern Field：X-Z plane



Frequency	Max value	Min value	Average
1725 (MHz)	1.20 dB	-17.94 dB	-4.00 dB
1790(MHz)	1.73 dB	-15.77 dB	-3.52 dB
1880(MHz)	0.74 dB	-20.26 dB	-4.27 dB

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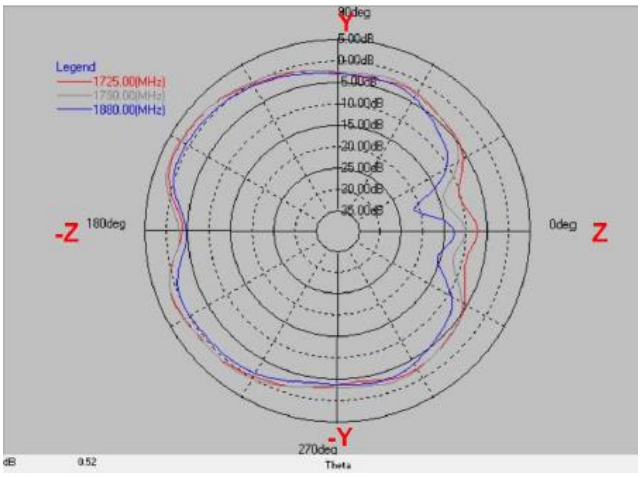
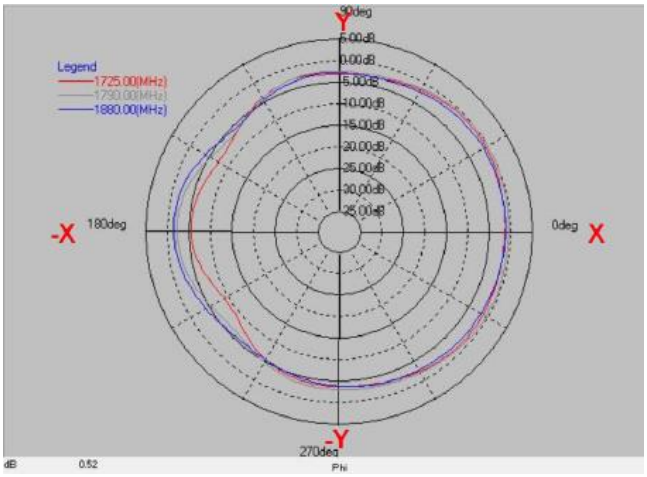
Frequency(MHz) : 1725~1880. Pattern Field : Y-Z plane



Frequency	Max value	Min value	Average
1725 (MHz)	2.15 dB	-10.24 dB	-1.80 dB
1790(MHz)	2.56 dB	-14.06 dB	-1.55 dB
1880(MHz)	0.74 dB	-21.26 dB	-3.03 dB

Frequency(MHz) : 1725~1880. Pattern Field : X-Y plane



Frequency	Max value	Min value	Average
1725 (MHz)	-0.49 dB	-9.26 dB	-3.20 dB
1790(MHz)	0.01 dB	-6.67 dB	-2.35 dB
1880(MHz)	-1.09 dB	-5.91 dB	-2.84 dB

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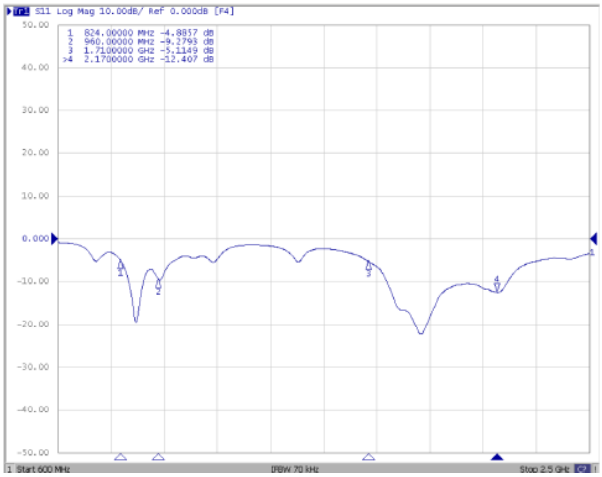
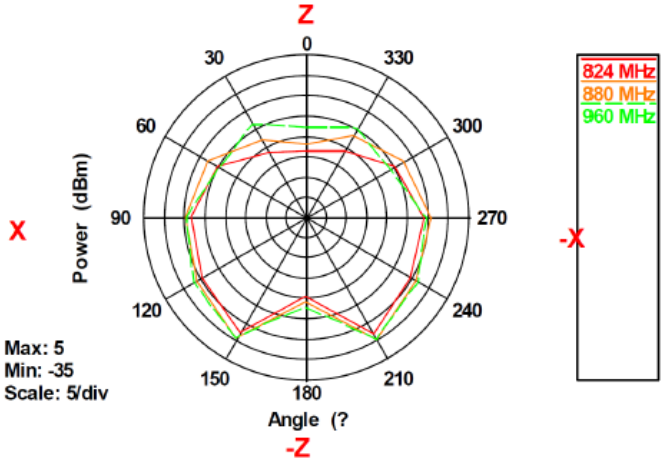
CHILISIN ELECTRONICS CORP.

BTEA0087090G8R2A07

Return Loss S11

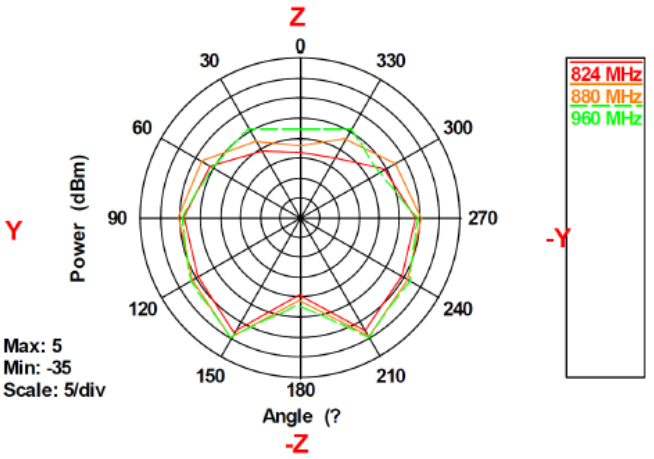


Frequency(MHz)：824~960. Pattern Field：X-Z plane



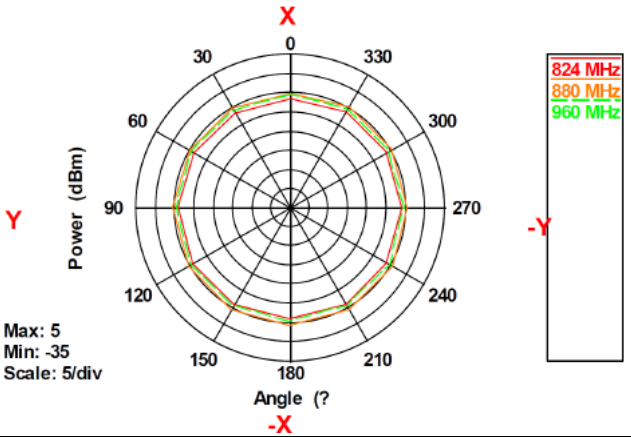
Frequency	Max value	Min value	Average
824(MHz)	-2.29 dB	-18.85 dB	-7.31 dB
880(MHz)	-0.73 dB	-17.10 dB	-5.59 dB
960(MHz)	-0.65 dB	-13.27 dB	-5.52 dB

Frequency(MHz)：824~960. Pattern Field：Y-Z plane



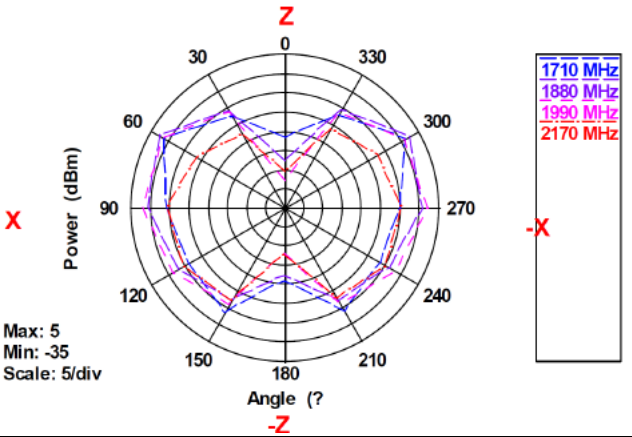
Frequency	Max value	Min value	Average
824(MHz)	-2.27 dB	-18.85 dB	-7.29 dB
880(MHz)	-0.78 dB	-17.10 dB	-5.57 dB
960(MHz)	-0.66 dB	-13.27 dB	-5.51 dB

Frequency(MHz)：824~960. Pattern Field：Y-X plane



Frequency	Max value	Min value	Average
824(MHz)	-6.15 dB	-7.09 dB	-6.48 dB
880(MHz)	-4.59 dB	-5.46 dB	-4.93 dB
960(MHz)	-5.45 dB	-6.01 dB	-5.71 dB

Frequency(MHz)：1710~2170. Pattern Field：X-Z plane



Frequency	Max value	Min value	Average
1710(MHz)	0.82 dB	-17.00 dB	-4.42 dB
1880(MHz)	2.25 dB	-22.99 dB	-2.49 dB
1990(MHz)	1.93 dB	-28.26 dB	-2.27 dB
2170(MHz)	-4.89 dB	-25.83 dB	-8.01 dB

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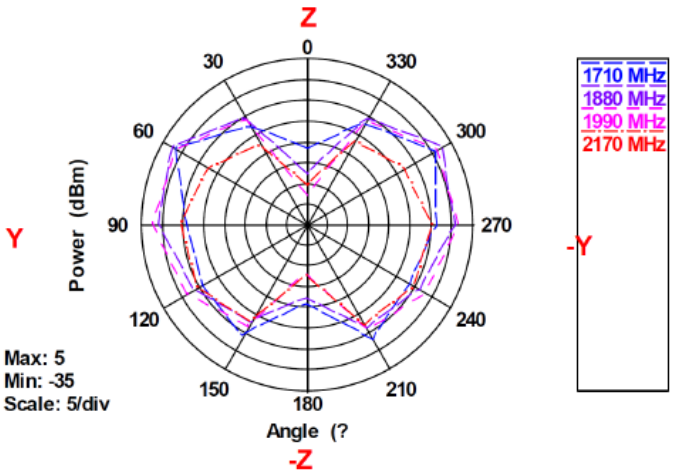
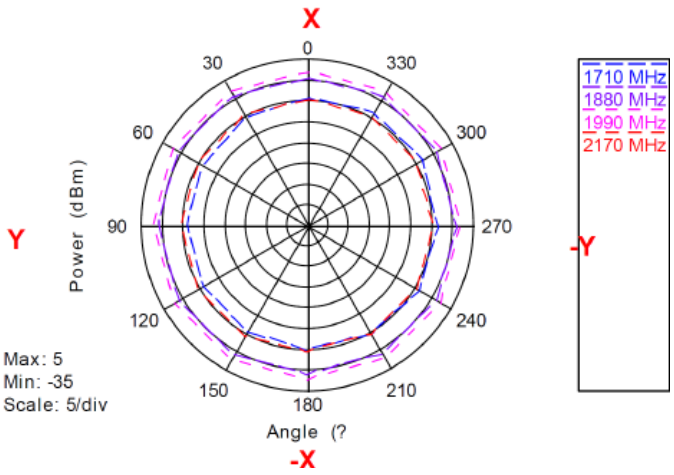
CHILISIN ELECTRONICS CORP.

Frequency(MHz)：1710~2170. Pattern Field：Y-Z plane



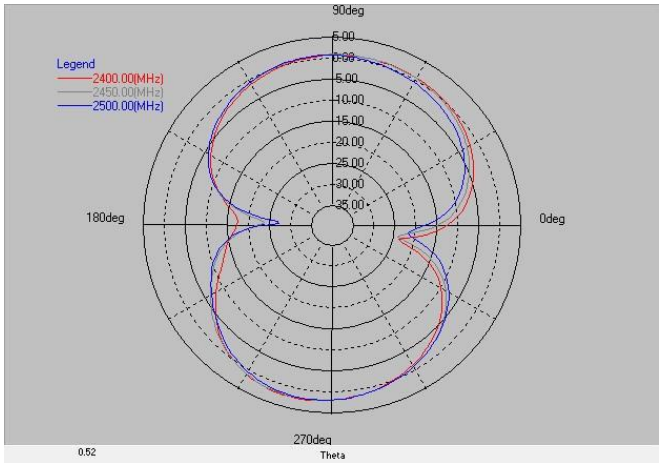
Frequency	Max value	Min value	Average
1710(MHz)	1.39 dB	-17.00 dB	-4.31 dB
1880(MHz)	2.34 dB	-22.99 dB	-2.42 dB
1990(MHz)	1.76 dB	-28.26 dB	-2.31 dB
2170(MHz)	-4.76 dB	-25.83 dB	-8.05 dB

Frequency(MHz)：1710~2170. Pattern Field：Y-X plane



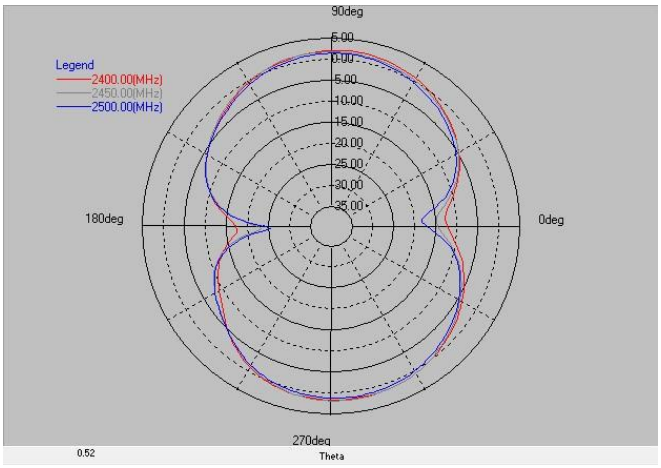
Frequency	Max value	Min value	Average
1710(MHz)	-3.50 dB	-6.20 dB	-4.87 dB
1880(MHz)	0.73 dB	0.38 dB	0.57 dB
1990(MHz)	1.93 dB	1.73 dB	1.83 dB
2170(MHz)	-4.70 dB	-5.03 dB	-4.86 dB

Pattern Field：Z-X plane, Phi=0.00deg



Layer	Max value	Min value	Average
2400(MHz)	2.15 dB	-23.78 dB	-1.96 dB
2450(MHz)	2.04 dB	-24.00 dB	-1.90 dB
2500(MHz)	1.89 dB	-27.29 dB	-2.22 dB

Pattern Field：Z-Y plane, Phi=90.00deg



Layer	Max value	Min value	Average
2400(MHz)	1.94 dB	-17.61 dB	-1.74 dB
2450(MHz)	1.73 dB	-23.26 dB	-1.88 dB
2500(MHz)	1.23 dB	-25.61 dB	-2.37 dB

Pattern Field：X-Y plane, Theta=90.00deg

Peak Gain

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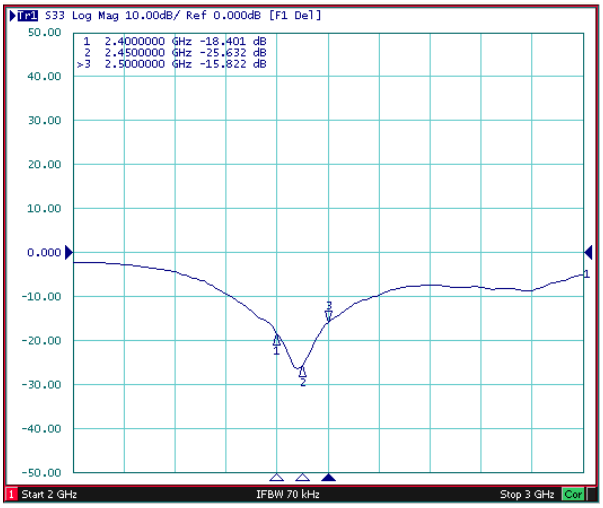
Pulse a YAGEO company

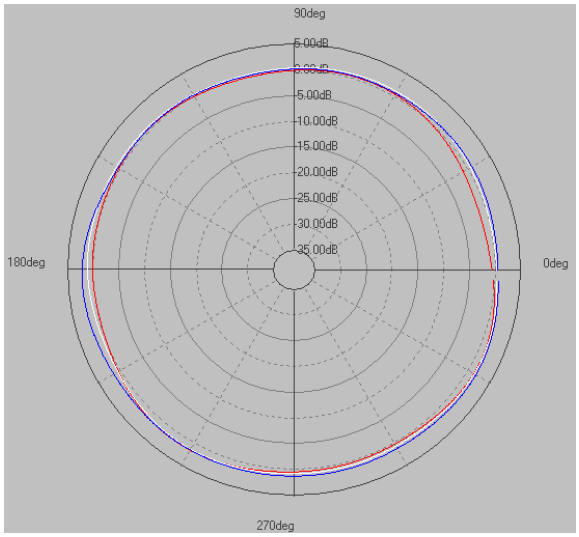
CHILISIN ELECTRONICS CORP.

BTEA0087092G4R2A40

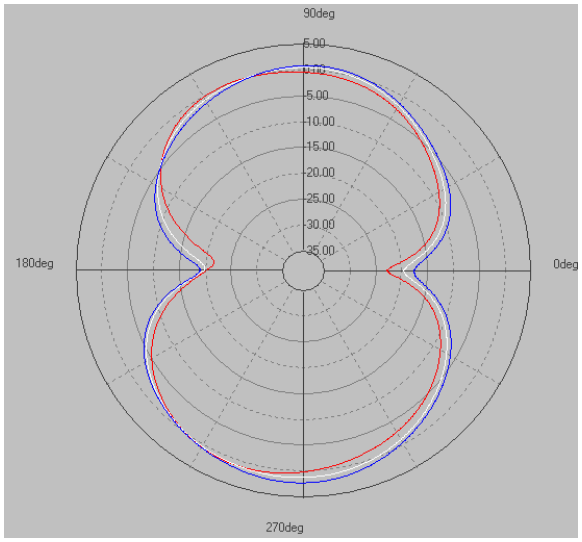
Return Loss S33



Frequency(MHz)：2400~2500. Pattern Field：V plane



Frequency(MHz)：2400~2500. Pattern Field：H plane



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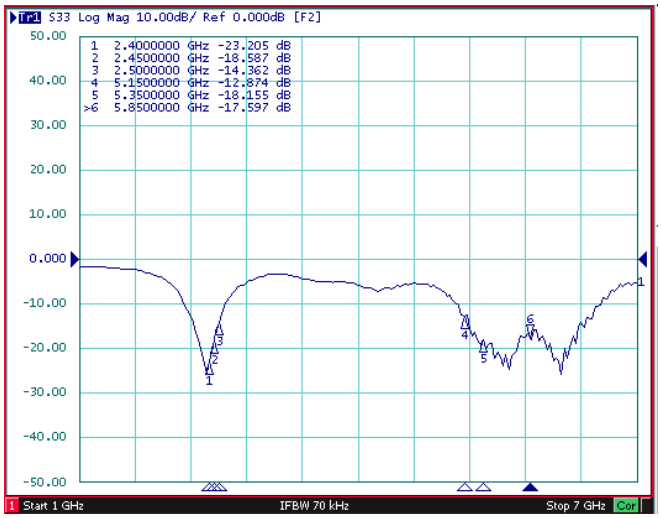
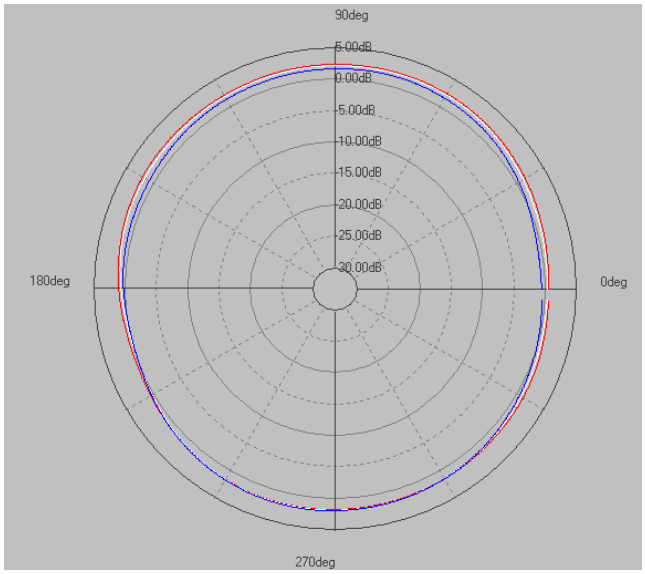
BTEA00870925GR2A07

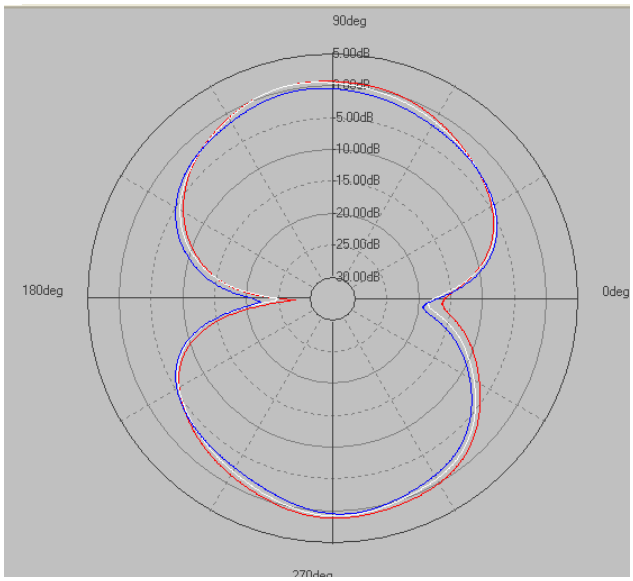
Return Loss S33



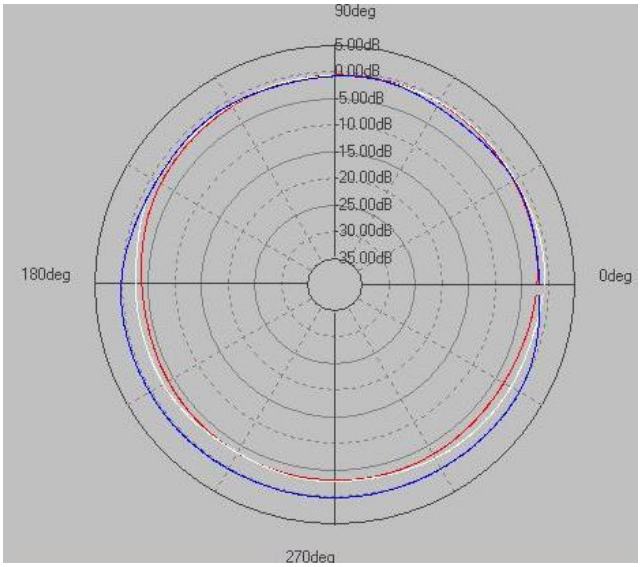
Frequency(MHz)：2400~2500. Pattern Field：H plane



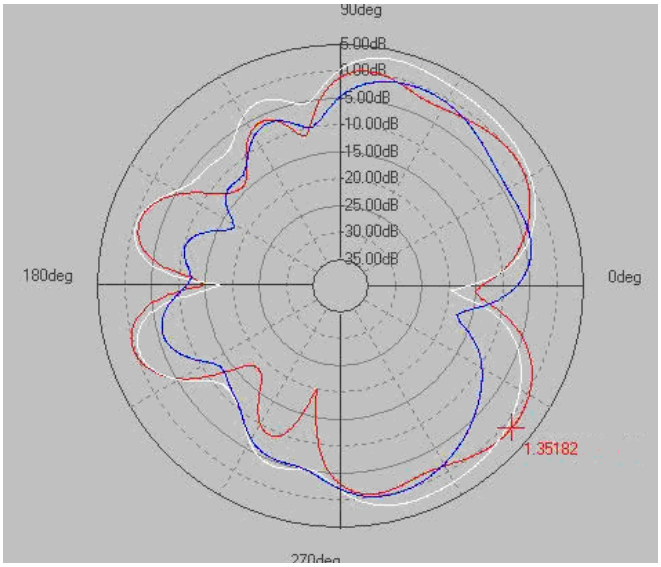
Frequency(MHz)：2400~2500. Pattern Field：E plane



Frequency(MHz)：5150-5850. Pattern Field：H plane



Frequency(MHz)：5150-5850. Pattern Field：E plane



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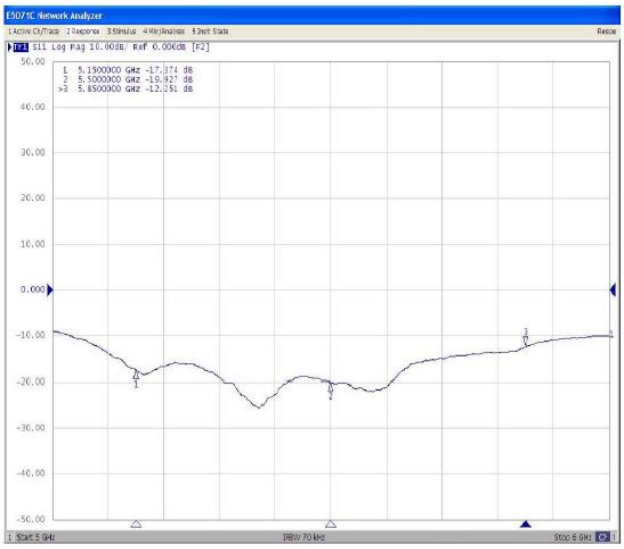
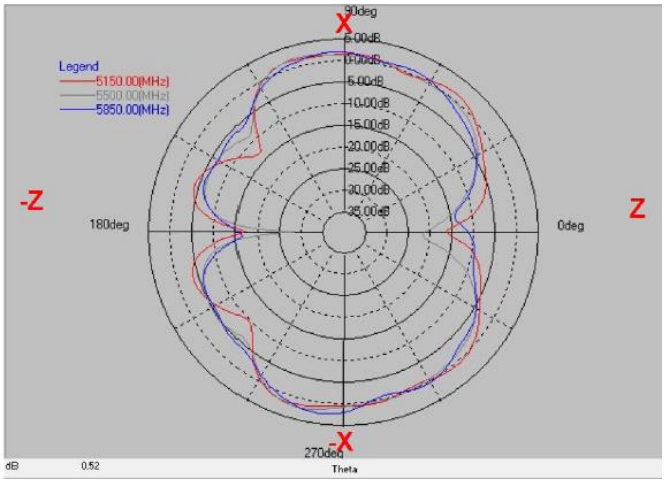
CHILISIN ELECTRONICS CORP.

BTEA0087095G0R2A03

Return Loss S11

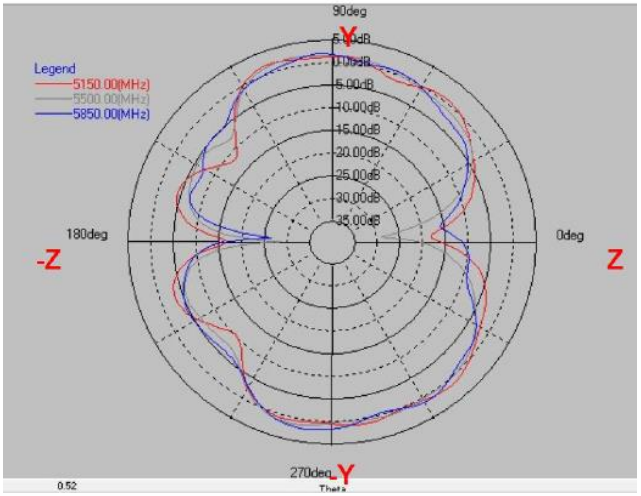


Frequency(MHz)：5150~5850. Pattern Field：Z-X plane



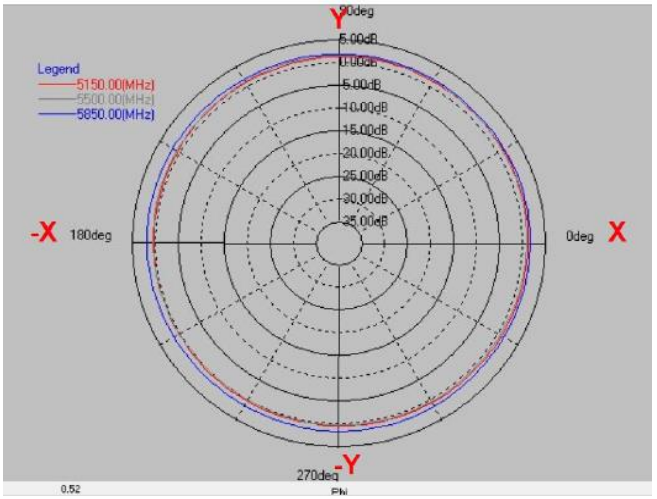
Layer	Max value	Min value	Average
5150(MHz)	1.52 dB	-17.32 dB	-1.78 dB
5550(MHz)	2.01 dB	-28.64 dB	-2.18 dB
5850(MHz)	2.36 dB	-16.51 dB	-2.06 dB

Frequency(MHz)：5150~5850. Pattern Field：Z-Y plane



Layer	Max value	Min value	Average
5150(MHz)	1.79 dB	-18.10 dB	-1.89 dB
5550(MHz)	1.71 dB	-29.01 dB	-2.17 dB
5850(MHz)	1.86 dB	-26.43 dB	-2.14 dB

Frequency(MHz)：5150~5850. Pattern Field：X-Y plane



Layer	Max value	Min value	Average
5150(MHz)	1.44 dB	0.15 dB	0.77 dB
5550(MHz)	1.46 dB	-0.10 dB	0.73 dB
5850(MHz)	1.87 dB	1.29 dB	1.61 dB

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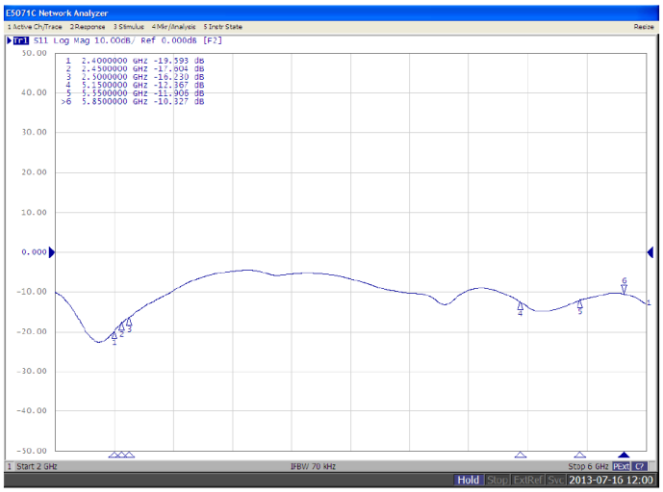
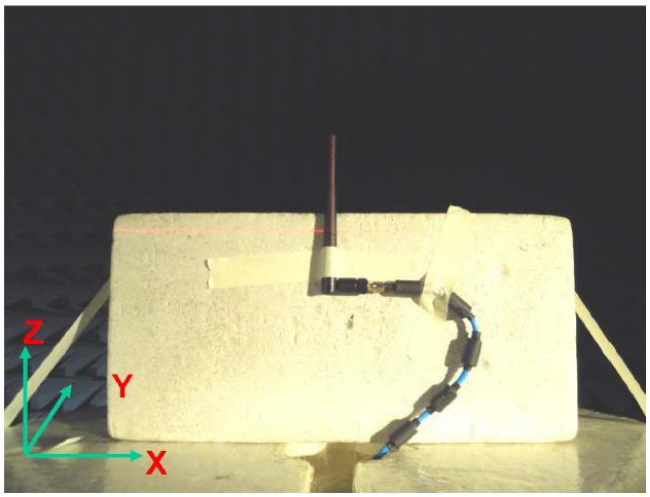
CHILISIN ELECTRONICS CORP.

BTEA00151325GR2A07

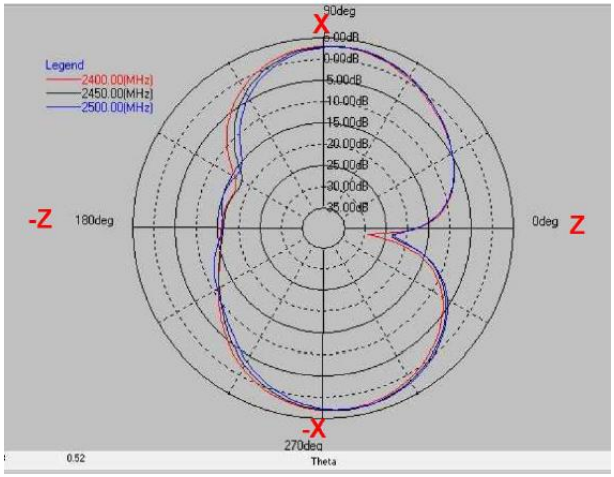
Return Loss



Experimental Setup

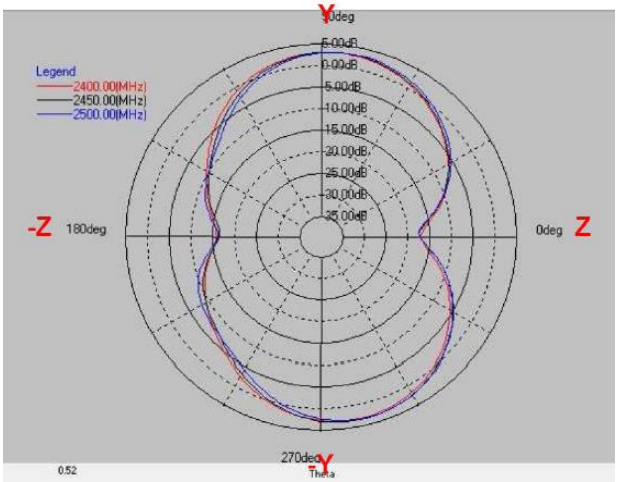


Frequency(MHz)：2400~2500. Pattern Field：X-Z plane



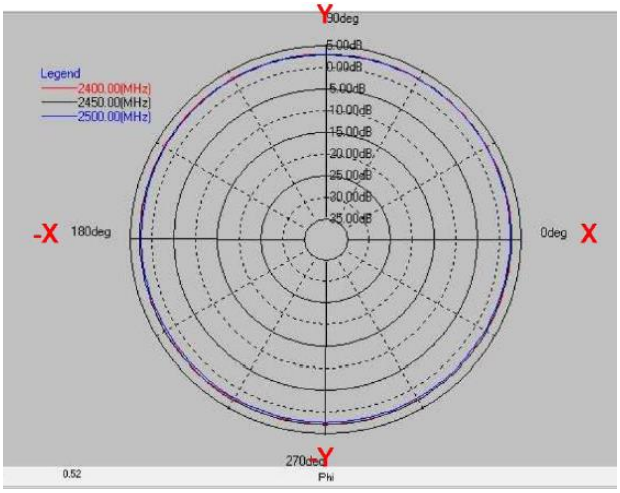
Layer	Max value	Average
2400(MHz)	2.96 dB	-1.69 dB
2450(MHz)	3.14 dB	-1.70 dB
2500(MHz)	3.05 dB	-1.84 dB

Frequency(MHz)：2400~2500. Pattern Field：Y-Z plane



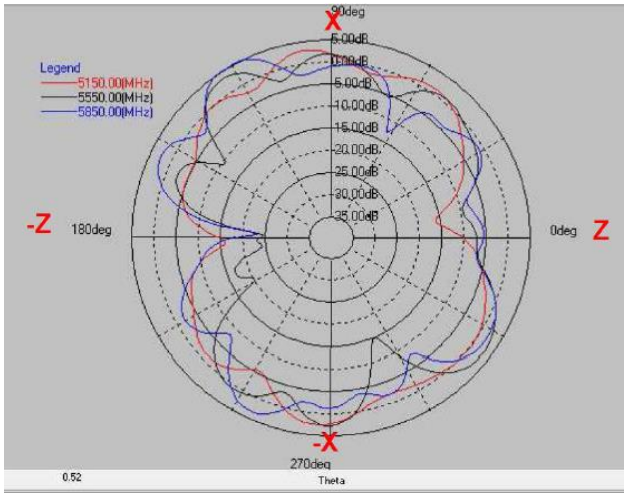
Layer	Max value	Average
2400(MHz)	3.03 dB	-1.49 dB
2450(MHz)	3.10 dB	-1.45 dB
2500(MHz)	3.09 dB	-1.54 dB

Frequency(MHz)：2400~2500. Pattern Field：X-Y plane



Layer	Max value	Average
2400(MHz)	2.96 dB	2.81 dB
2450(MHz)	2.91 dB	2.81 dB
2500(MHz)	2.80 dB	2.53 dB

Frequency(MHz)：5150~5850. Pattern Field：X-Z plane



Layer	Max value	Average
5150(MHz)	2.72 dB	-1.71 dB
5550(MHz)	3.45 dB	-1.53 dB
5850(MHz)	5.63 dB	-1.05 dB

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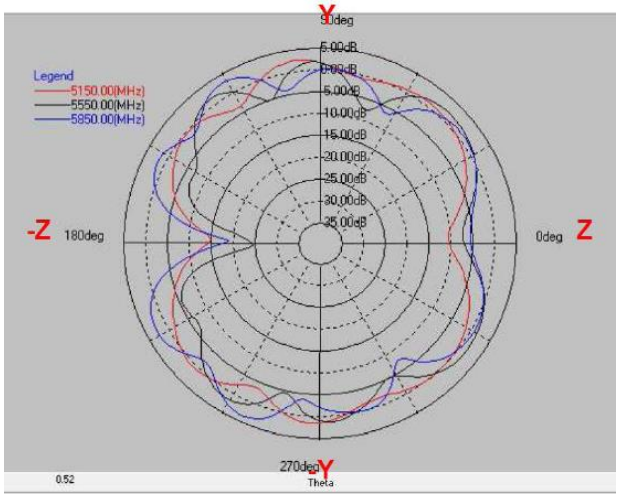
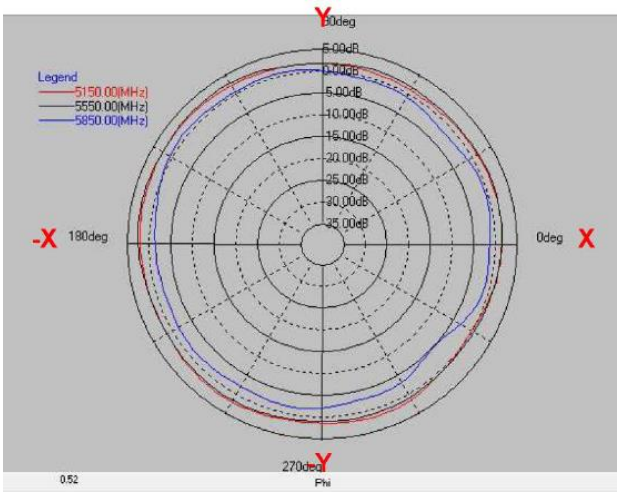
Frequency(MHz)：5150~5850. Pattern Field：Y-Z plane



Layer	Max value	Average
5150(MHz)	2.36 dB	-1.38 dB
5550(MHz)	2.03 dB	-1.48 dB
5850(MHz)	3.44 dB	-0.63 dB

Frequency(MHz)：5150~5850. Pattern Field：X-Y plane



Layer	Max value	Average
5150(MHz)	2.52 dB	1.54 dB
5550(MHz)	2.82 dB	1.63 dB
5850(MHz)	0.83 dB	-1.21 dB

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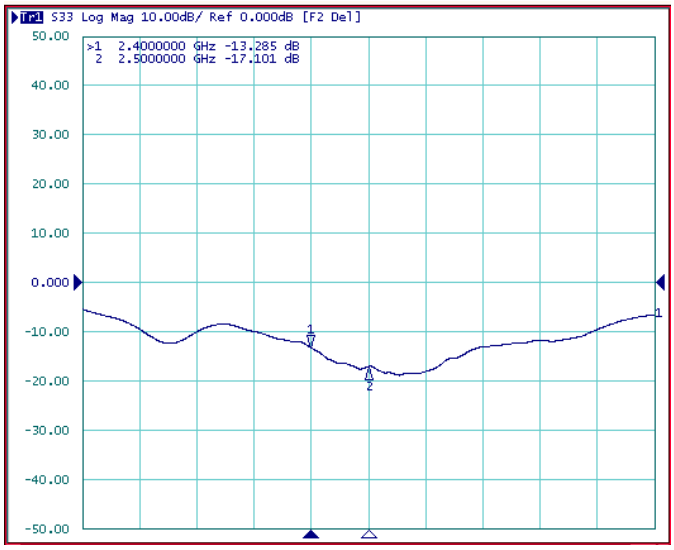
Pulse a YAGEO company

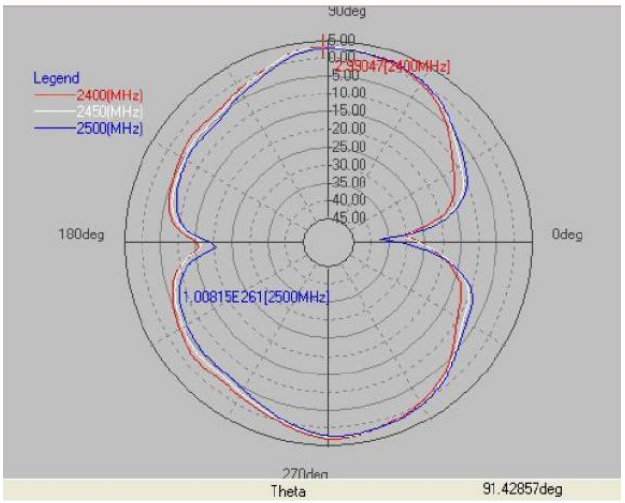
CHILISIN ELECTRONICS CORP.

BTEA0015132G4R2A08

Return Loss S33

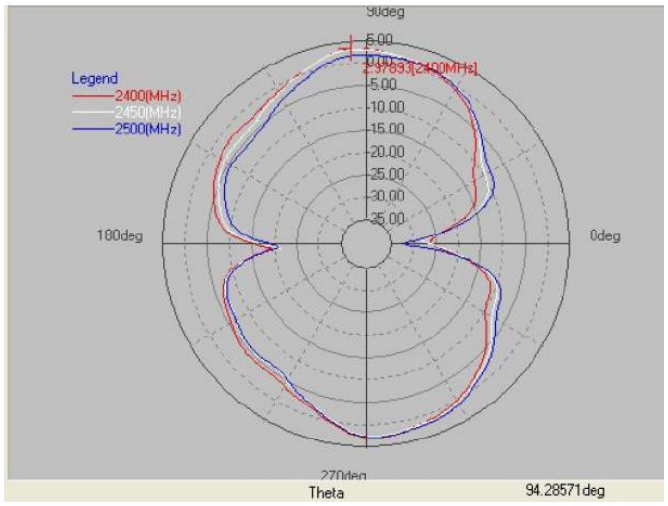


Frequency(MHz) : 2400~2500. Pattern Field : X-Z plane



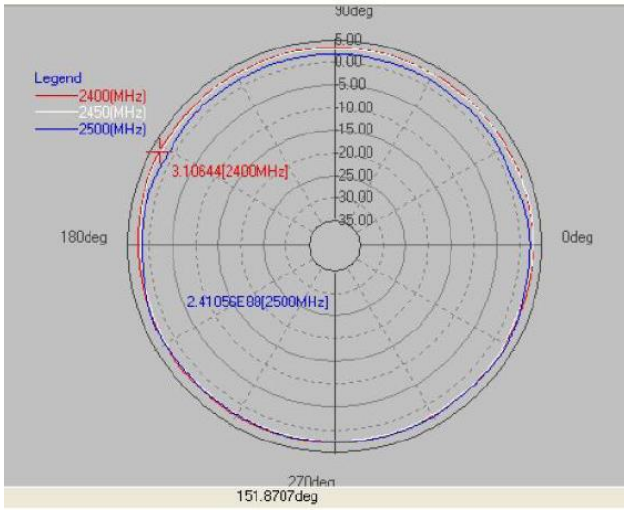
Layer	Max value	Average
2400(MHz)	2.99 dB	-2.07 dB
2450(MHz)	2.93 dB	-2.15 dB
2500(MHz)	2.30 dB	-2.51 dB

Frequency(MHz) : 2400~2500. Pattern Field : Y-Z plane



Layer	Max value	Average
2400(MHz)	2.98 dB	-2.08 dB
2450(MHz)	2.86 dB	-2.19 dB
2500(MHz)	2.77 dB	-2.50 dB

Frequency(MHz) : 2400~2500. Pattern Field : X-Y plane



Layer	Max value	Average
2400(MHz)	3.11 dB	2.79 dB
2450(MHz)	3.15 dB	2.54 dB
2500(MHz)	3.17 dB	2.06 dB

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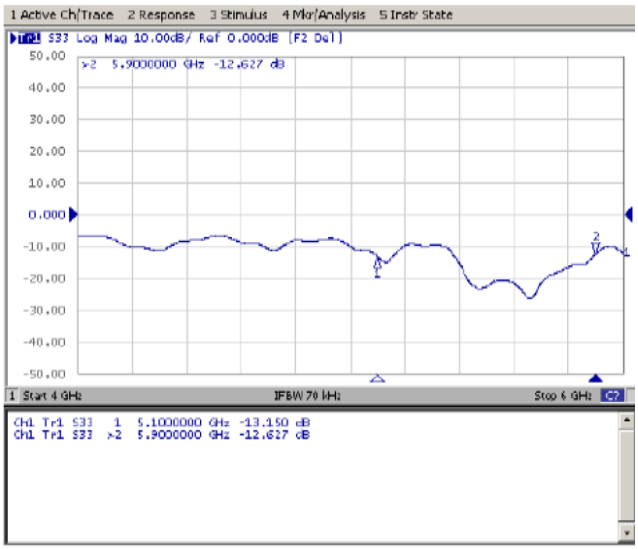
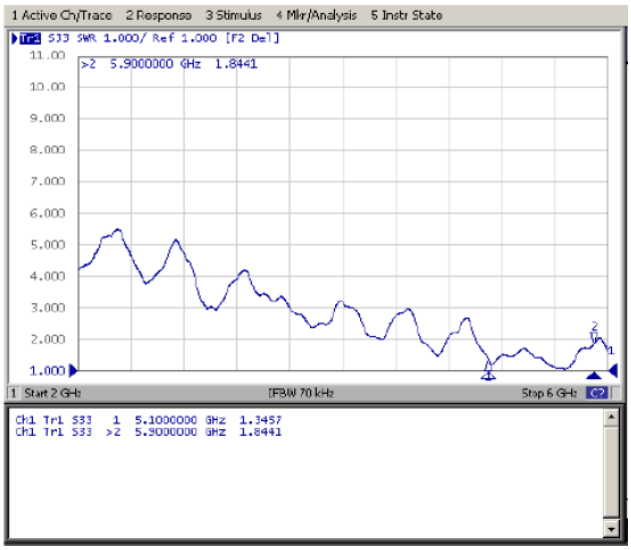
BTEA0015135G0R2A01

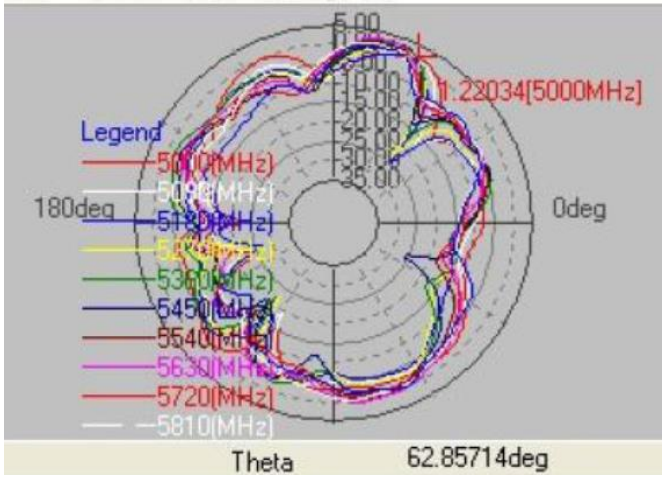
Return Loss S33



VSWR

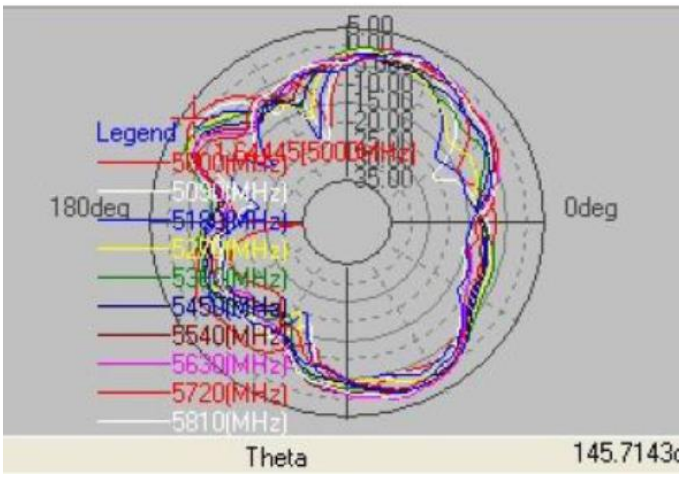


Frequency(MHz)：5000~5900. Pattern Field：X-Z plane



Layer	Max value	Average
5000(MHz)	1.22 dB	-4.52 dB
5090(MHz)	1.08 dB	-5.81 dB
5180(MHz)	0.11 dB	-6.54 dB
5270(MHz)	1.34 dB	-5.93 dB
5360(MHz)	2.54 dB	-4.58 dB
5450(MHz)	1.62 dB	-5.76 dB
5540(MHz)	2.56 dB	-4.93 dB
5630(MHz)	2.45 dB	-4.49 dB
5720(MHz)	0.74 dB	-5.92 dB
5810(MHz)	0.73 dB	-5.11 dB
5900(MHz)	0.55 dB	-6.18 dB

Frequency(MHz)：5000~5900. Pattern Field：Y-Z plane



Layer	Max value	Average
5000(MHz)	1.64 dB	-4.60 dB
5090(MHz)	0.16 dB	-6.00 dB
5180(MHz)	-0.22 dB	-6.52 dB
5270(MHz)	-0.47 dB	-6.00 dB
5360(MHz)	0.36 dB	-4.84 dB
5450(MHz)	0.43 dB	-5.51 dB
5540(MHz)	0.77 dB	-4.84 dB
5630(MHz)	1.71 dB	-4.24 dB
5720(MHz)	-0.36 dB	-5.59 dB
5810(MHz)	1.26 dB	-4.95 dB
5900(MHz)	0.55 dB	-5.85 dB

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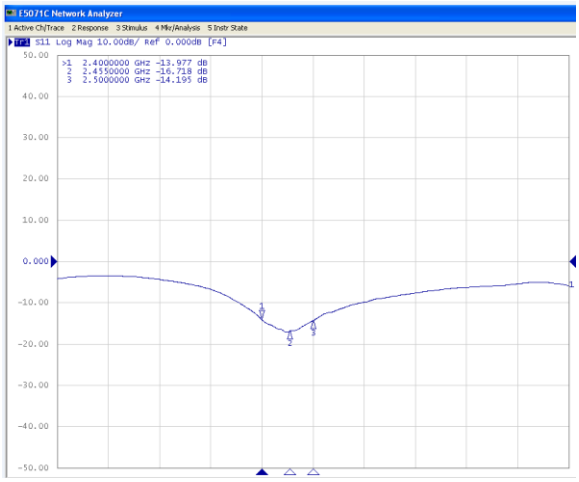
Pulse a YAGEO company

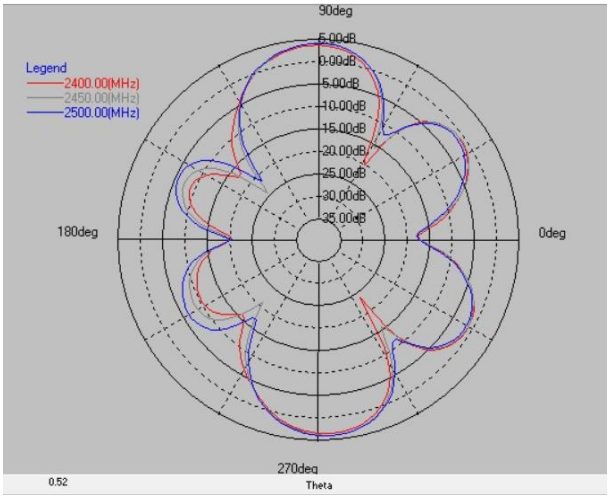
CHILISIN ELECTRONICS CORP.

BTEA0017132G4R2A31

Return Loss S11

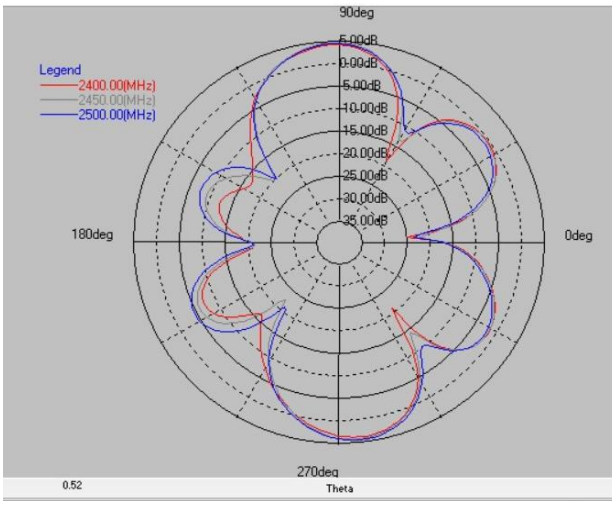


Frequency(MHz)：2400~2500. Pattern Field：Z-X plane



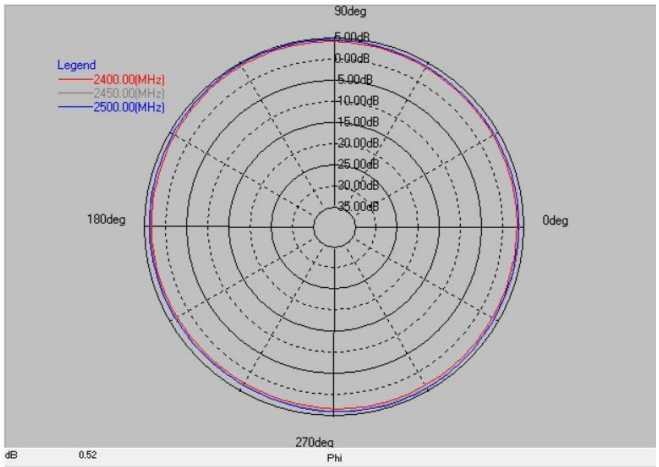
Layer	Max value	Position	Min value
2400(MHz)	3.46 dB	-86.00 deg	-23.93 dB
2450(MHz)	3.96 dB	90.00 deg	-24.55 dB
2500(MHz)	3.95 dB	-86.00 deg	-21.86 dB

Frequency(MHz)：2400~2500. Pattern Field：Z-Y plane



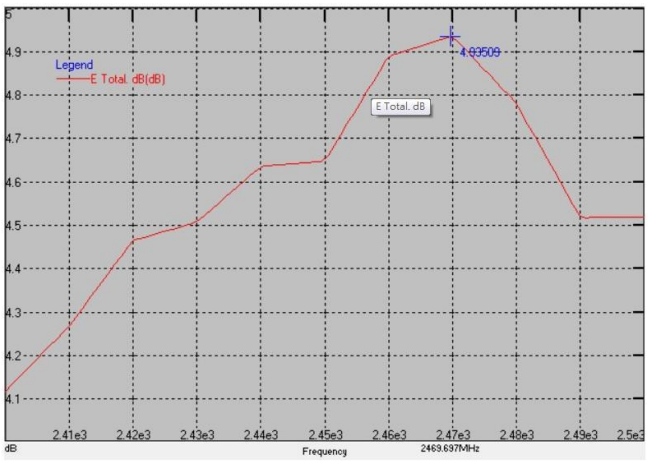
Layer	Max value	Position	Min value
2400(MHz)	4.00 dB	92.00 deg	-24.97 dB
2450(MHz)	4.46 dB	92.00 deg	-22.51 dB
2500(MHz)	4.35 dB	92.00 deg	-23.53 dB

Frequency(MHz)：2400~2500. Pattern Field：X-Y plane



Layer	Max value	Position	Min value
2400(MHz)	4.12 dB	108.00 deg	2.80 dB
2450(MHz)	4.65 dB	112.00 deg	3.21 dB
2500(MHz)	4.52 dB	110.00 deg	3.29 dB

Peak Gain



Peak Gain：Max 4.93 dBi

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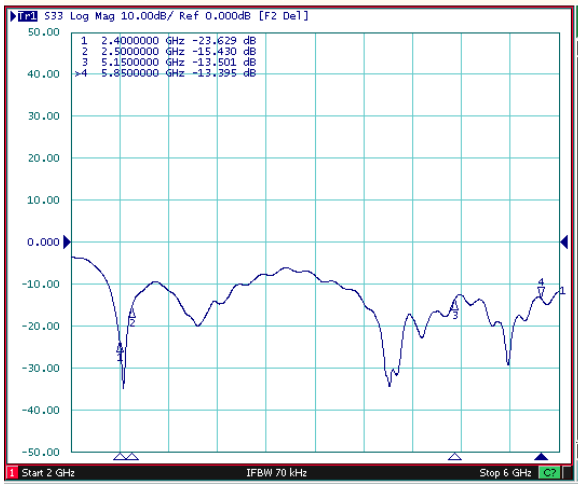
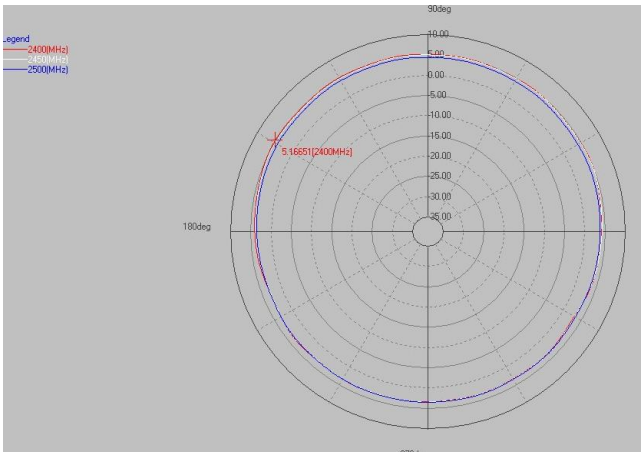
BTEA00171325GR2A05

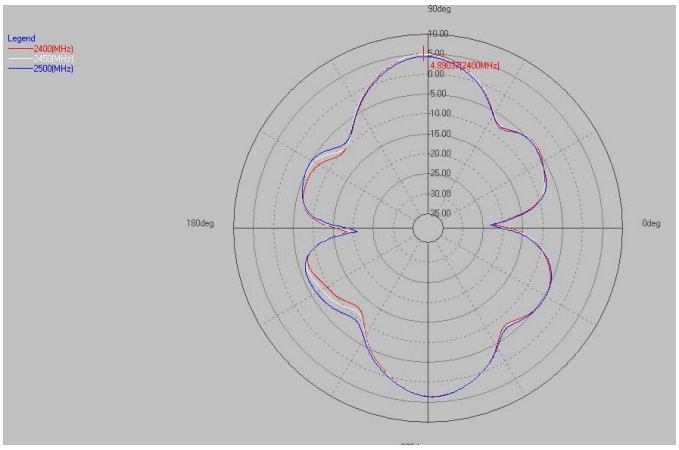
Return Loss S33



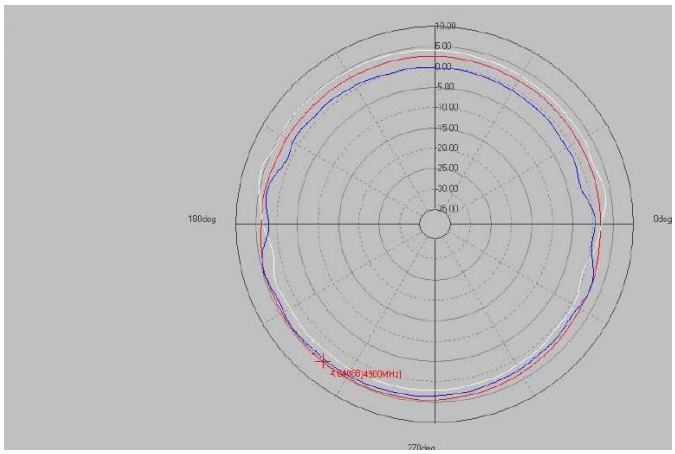
Frequency(MHz)：2400~2500. Pattern Field：H plane



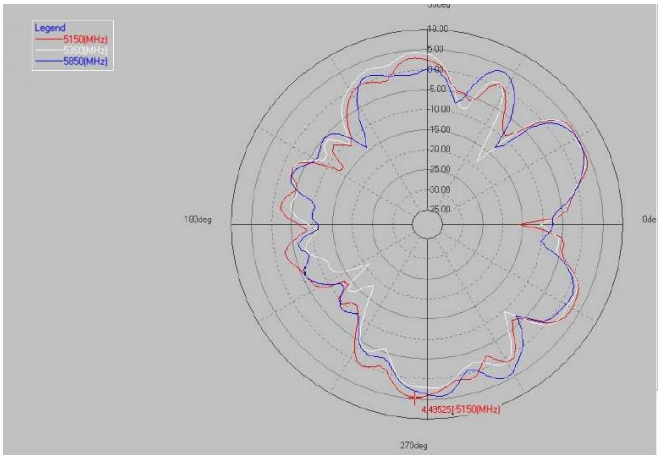
Frequency(MHz)：2400~2500. Pattern Field：E plane



Frequency(MHz)：5150-5850. Pattern Field：H plane



Frequency(MHz)：5150-5850. Pattern Field：H plane



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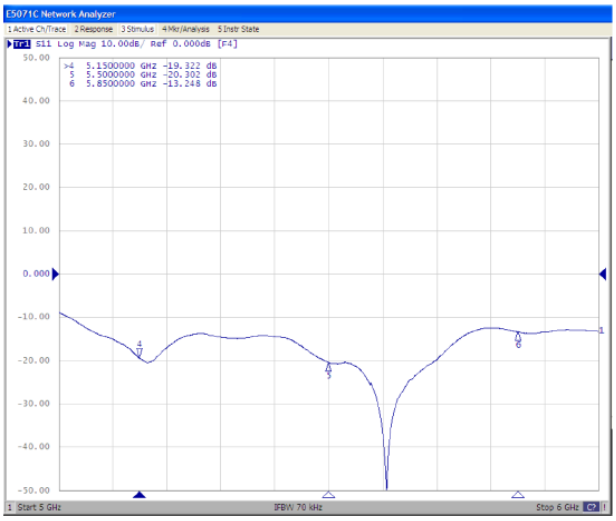
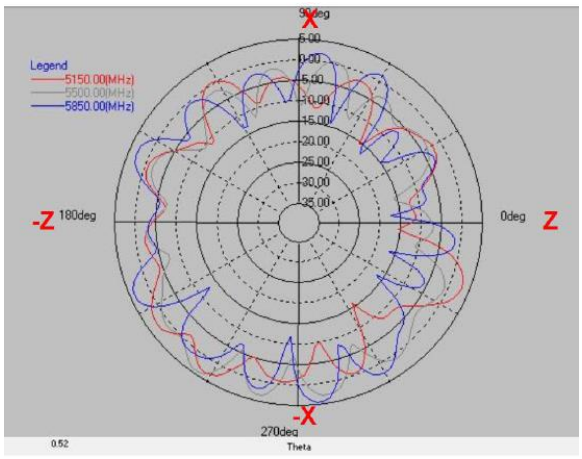
BTEA0017135G0R2A07

Return Loss S11

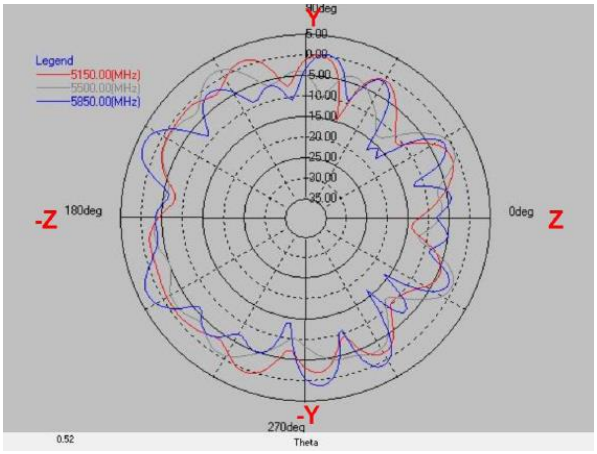


Frequency(MHz)：5150~5850. Pattern Field：Z-X plane



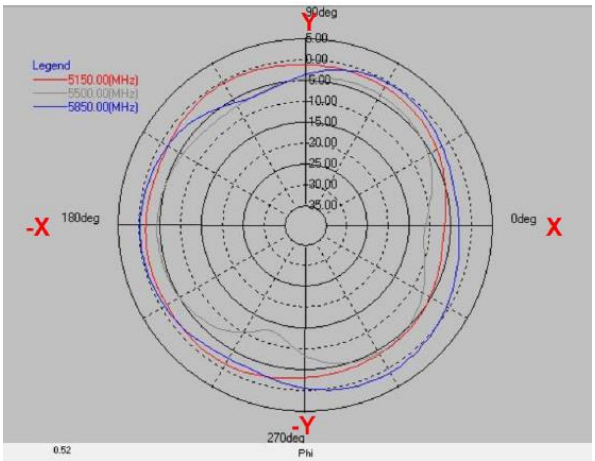
Layer	Max value	Min value	Average
5150(MHz)	3.34 dB	-16.23 dB	-2.61 dB
5500(MHz)	4.16 dB	-15.79 dB	-2.21 dB
5850(MHz)	4.32 dB	-17.42 dB	-1.71 dB

Frequency(MHz)：2400~2500. Pattern Field：Z-Y plane



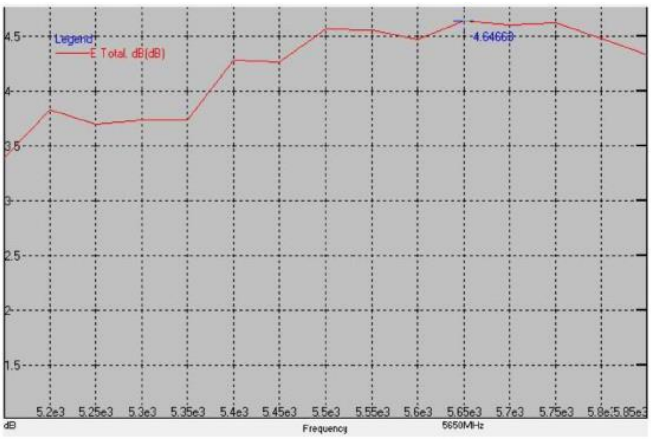
Layer	Max value	Min value	Average
5150(MHz)	1.29 dB	-14.92 dB	-3.08 dB
5500(MHz)	1.91 dB	-13.64 dB	-3.70 dB
5850(MHz)	3.34 dB	-17.69 dB	-3.01 dB

Frequency(MHz)：2400~2500. Pattern Field：X-Y plane



Layer	Max value	Min value	Average
5150(MHz)	-0.60 dB	-6.57 dB	-2.41 dB
5500(MHz)	-3.85 dB	-13.30 dB	-6.05 dB
5850(MHz)	-0.98 dB	-6.75 dB	-1.47 dB

Peak Gain



Peak Gain：Max 4.64 dBi

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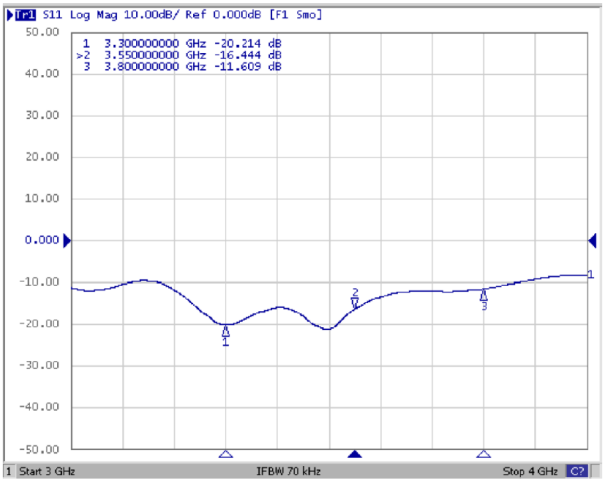
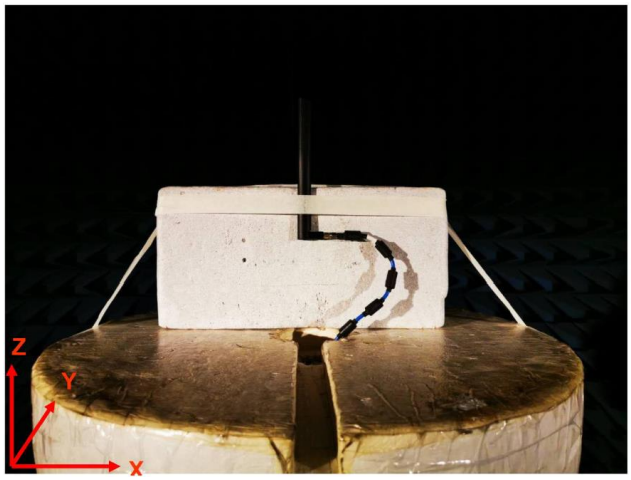
BTEA0020103G8R2A01

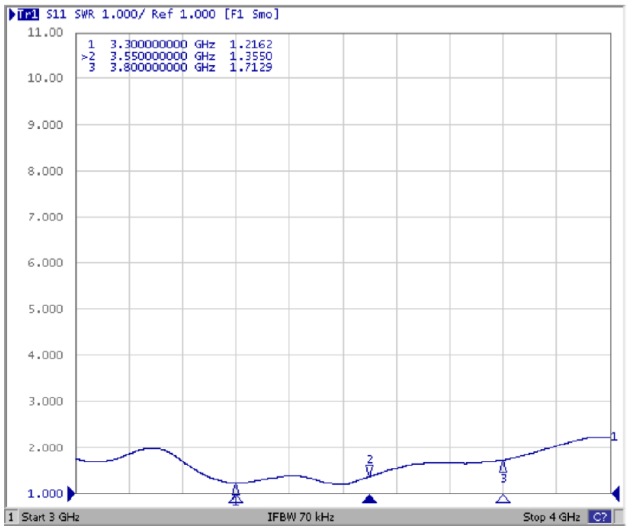
Return Loss S11



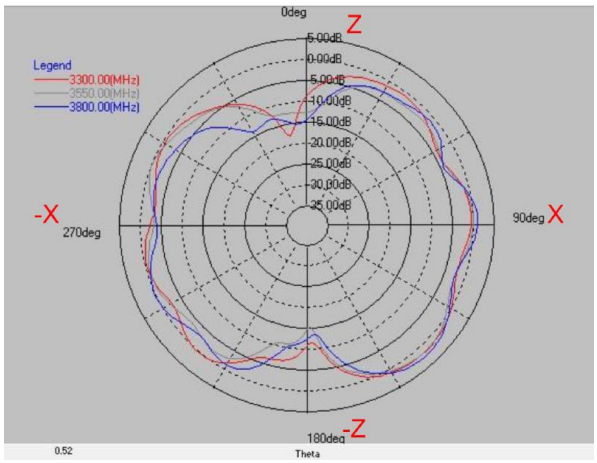
Experimental Setup



VSWR

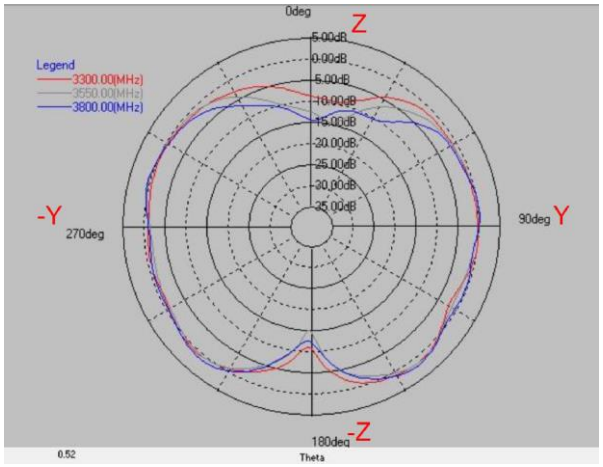


2D Gain Pattern_Antenna_ZX Cut (Phi=0)



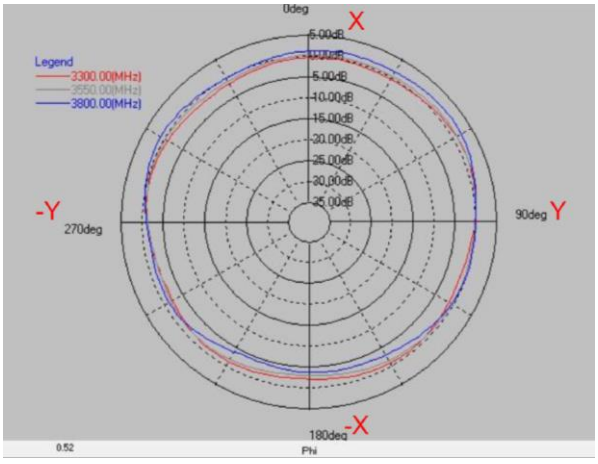
Layer	Max value	Min value	Average
3300(MHz)	1.64 dB	-18.30 dB	-2.05 dB
3550(MHz)	1.57 dB	-15.56 dB	-2.64 dB
3800(MHz)	2.53 dB	-15.60 dB	-2.45 dB

2D Gain Pattern_Antenna_ZY Cut (Phi=90)



Layer	Max value	Min value	Average
3300(MHz)	1.20 dB	-11.32 dB	-1.61 dB
3550(MHz)	1.32 dB	-15.16 dB	-1.97 dB
3800(MHz)	1.77 dB	-14.75 dB	-1.85 dB

2D Gain Pattern_Antenna_XY Cut (Theta=90)



Layer	Max value	Min value	Average
3300(MHz)	1.04 dB	-2.36 dB	-0.90 dB
3550(MHz)	1.14 dB	-3.17 dB	-0.72 dB
3800(MHz)	2.33 dB	-4.43 dB	-0.27 dB

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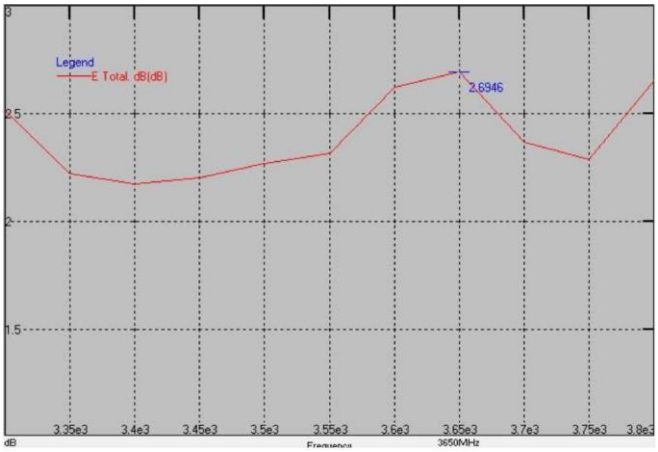
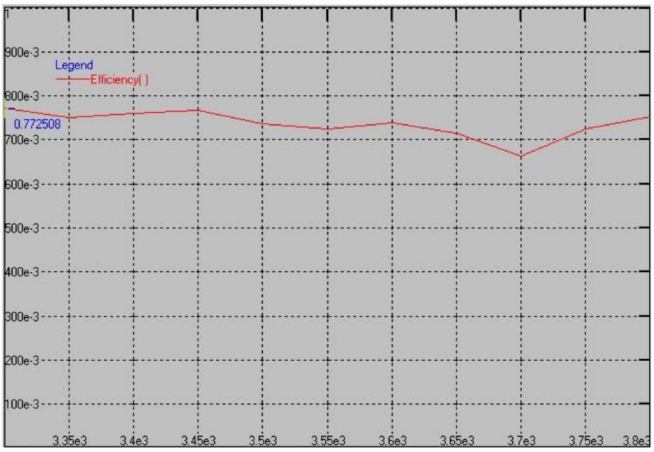
3D Peak Gain



3D Efficiency



Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)	Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
3300	2.51	77	3600	2.62	74
3350	2.22	75	3650	2.69	71
3400	2.17	76	3700	2.37	66
3450	2.20	77	3750	2.29	72
3500	2.27	74	3800	2.66	75
3550	2.31	72			

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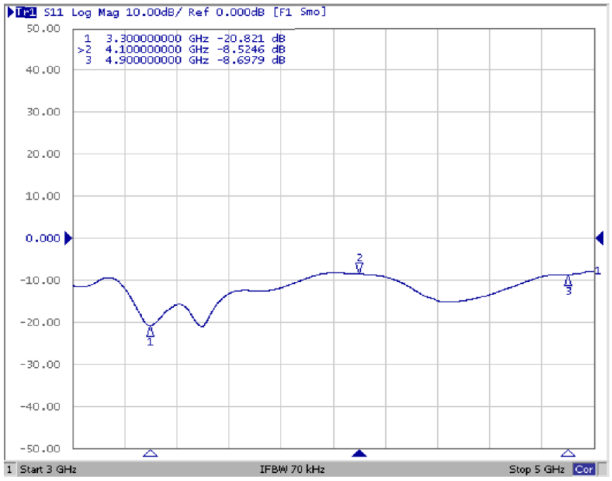
Pulse a YAGEO company

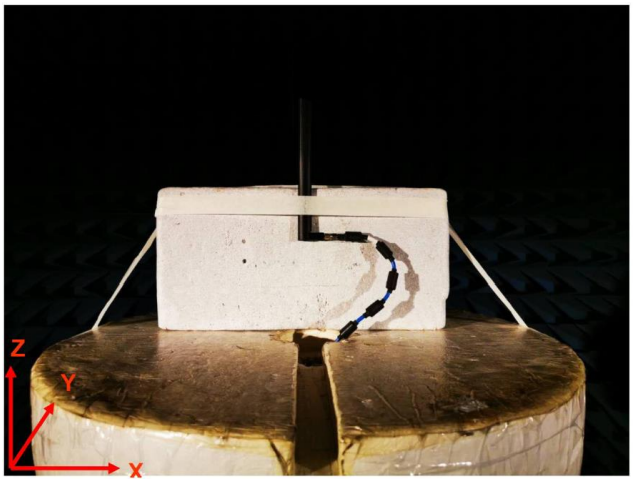
CHILISIN ELECTRONICS CORP.

BTEA0020103G9R2A01

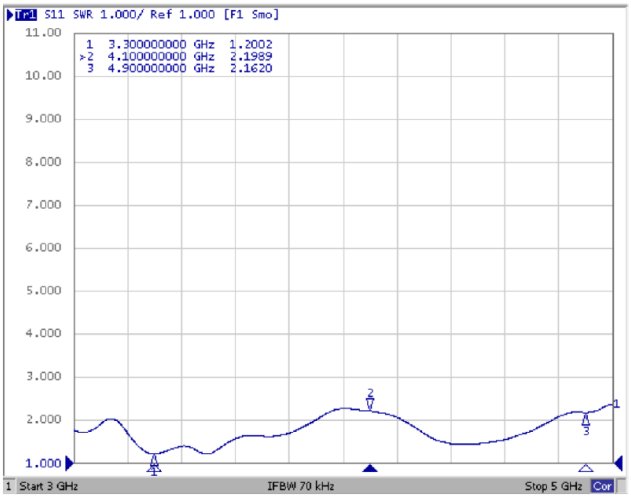
Return Loss S11



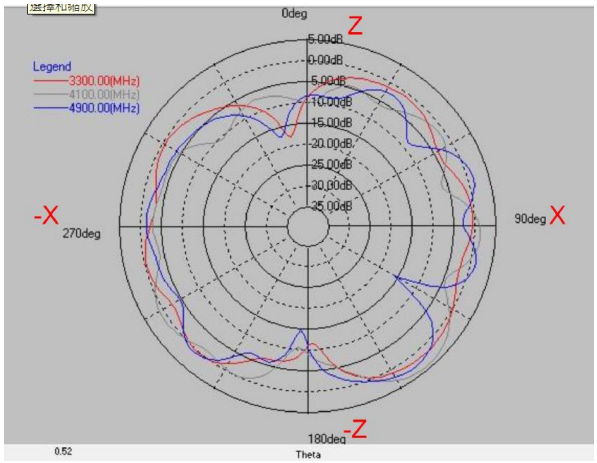
Experimental Setup



VSWR

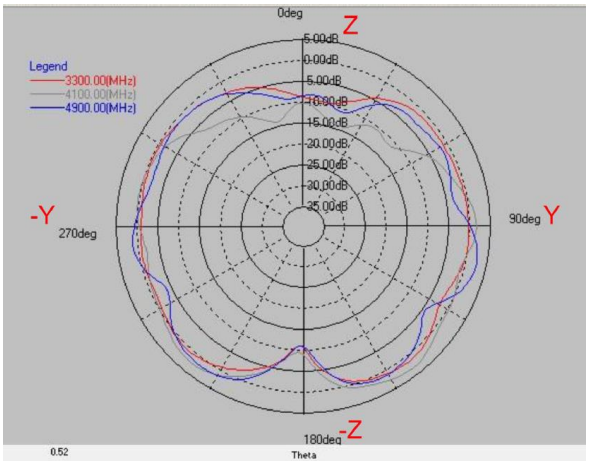


2D Gain Pattern_Antenna_ZX Cut (Phi=0)



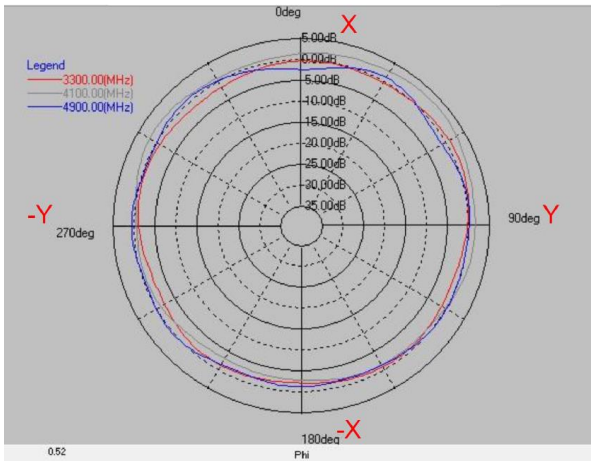
Layer	Max value	Min value	Average
3300(MHz)	1.64 dB	-18.30 dB	-2.05 dB
4100(MHz)	4.25 dB	-10.87 dB	-1.96 dB
4900(MHz)	2.55 dB	-17.75 dB	-2.61 dB

2D Gain Pattern_Antenna_ZY Cut (Phi=90)



Layer	Max value	Min value	Average
3300(MHz)	1.20 dB	-11.32 dB	-1.61 dB
4100(MHz)	3.09 dB	-14.42 dB	-1.47 dB
4900(MHz)	2.63 dB	-11.22 dB	-1.61 dB

2D Gain Pattern_Antenna_XY Cut (Theta=90)



Layer	Max value	Min value	Average
3300(MHz)	1.04 dB	-2.36 dB	-0.90 dB
4100(MHz)	3.30 dB	-3.22 dB	0.54 dB
4900(MHz)	0.90 dB	-2.60 dB	-0.39 dB

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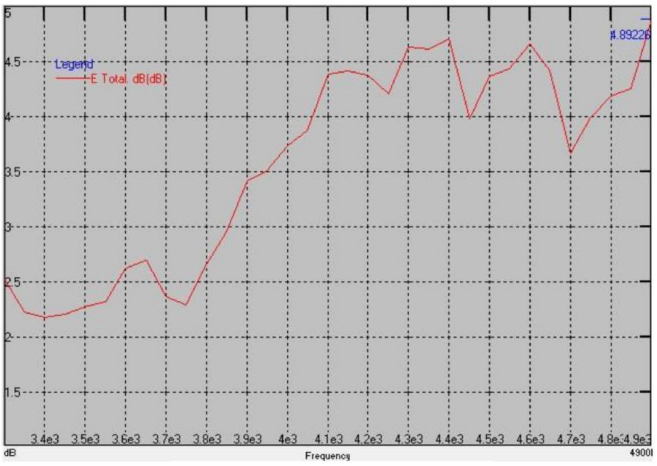
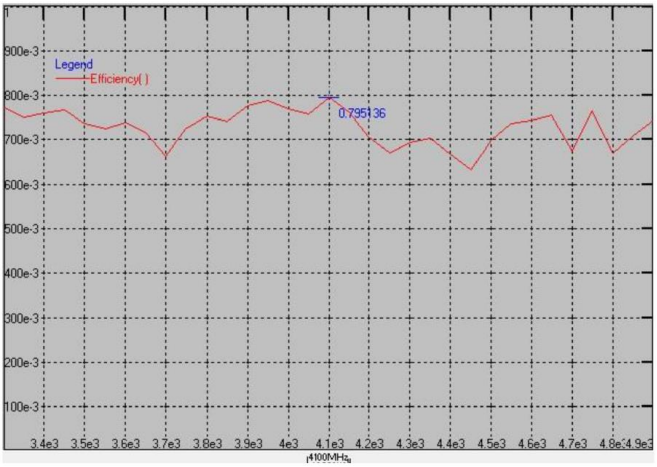
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

3D Peak Gain



3D Efficiency



Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)	Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
3300	2.51	77	4200	4.38	70
3400	2.17	76	4300	4.63	69
3500	2.27	74	4400	4.71	67
3600	2.62	74	4500	4.37	70
3700	2.37	66	4600	4.66	74
3800	2.66	75	4700	3.67	68
3900	3.42	78	4800	4.19	67
4000	3.74	77	4900	4.89	74
4100	4.39	80			

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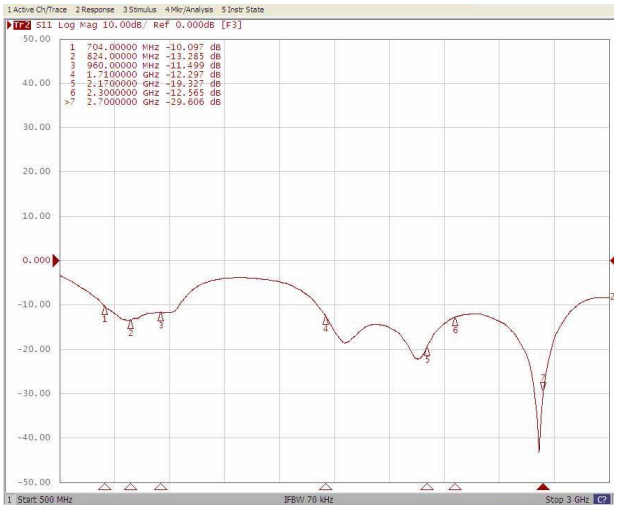
Pulse a YAGEO company

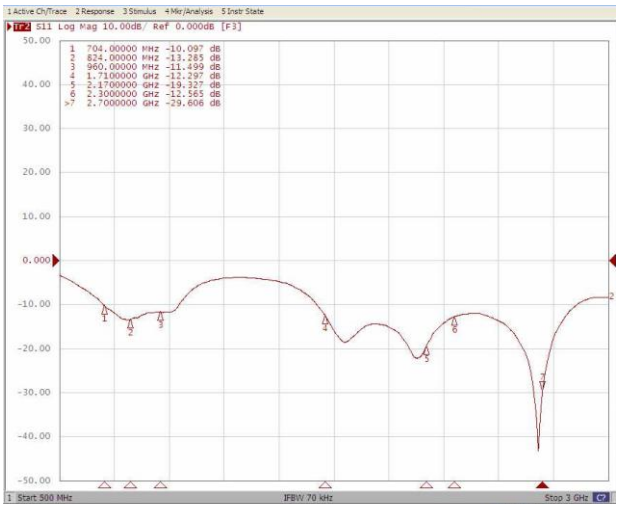
CHILISIN ELECTRONICS CORP.

BTEA0020104G0R2A02

Return Loss



VSWR



Antenna Efficiency Peak Gain

Frequency (MHz)	TRP (dBi)	Peak EIRP (dBi)	E-Theta Peak Gain (dBi)	E-Phi Peak Gain (dBi)	E-Total Peak Gain (dBi)	Efficiency (%)
700	-2.82	0.83	0.43	-1.96	0.83	52.28
704	-2.64	0.98	0.55	-1.53	0.98	54.47
710	-2.39	1.23	0.69	-0.82	1.23	57.66
716	-2.05	1.57	0.75	-0.08	1.57	62.4
734	-1.53	2.61	1.53	1.25	2.61	70.28
740	-1.57	2.6	1.62	1.23	2.6	69.7
746	-1.69	2.43	1.45	1.21	2.43	67.84
751	-1.76	2.31	1.32	1.34	2.31	66.71
756	-1.88	2.21	1.16	1.4	2.21	64.8
777	-2.06	1.94	0.15	1.58	1.94	62.21
782	-2.07	1.8	0.11	1.46	1.8	62.02
787	-2.11	1.56	0.13	1.28	1.56	61.48
791	-2.21	1.31	0.06	1.06	1.31	60.18
806	-2.85	0.58	-0.1	0.02	0.58	51.86
821	-3.72	-0.34	-0.87	-1.47	-0.34	42.4
824	-3.87	-0.34	-1.06	-1.48	-0.34	40.97
836	-4.29	-0.48	-1	-1.5	-0.48	37.25
849	-4.05	-0.03	-0.71	-1.34	-0.03	39.36
862	-3.31	0.59	-0.27	-0.66	0.59	46.67
869	-2.96	0.91	-0.07	-0.41	0.91	50.58
880	-2.6	0.92	0.36	-0.73	0.92	54.92
894	-2.35	1.54	0.67	-0.34	1.54	58.1
900	-2.25	1.74	0.71	0.01	1.74	59.6
915	-2.05	2.34	0.66	0.93	2.34	62.33
925	-1.72	3.02	1.11	1.63	2.15	67.22
940	-1.15	4.2	1.54	2.97	2.31	76.81
960	-0.99	4.13	1.5	3.39	2.45	79.54

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Antenna Efficiency Peak Gain

Frequency (MHz)	TRP (dBi)	Peak EIRP (dBi)	E-Theta Peak Gain (dBi)	E-Phi Peak Gain (dBi)	E-Total Peak Gain (dBi)	Efficiency (%)
1500	-4.62	0.3	-2.05	-2.12	0.3	34.5
1565	-3.46	0.21	-1.1	-1.69	0.21	45.03
1575	-2.95	1.11	-0.13	-0.88	1.11	50.73
1585	-2.39	2.09	0.82	-0.41	2.09	57.62
1592	-2.23	2.51	1.46	0.08	2.51	59.89
1602	-2.37	2.81	1.09	-0.13	2.81	57.95
1612	-3.15	2.05	0.61	-1.08	2.05	48.45
1710	-1.95	2.89	2.6	0.9	2.89	63.8
1730	-1.67	2.66	2.56	0.85	2.66	68.06
1750	-1.71	3.08	2.94	1.14	3.08	67.39
1770	-1.6	3.01	2.5	2.04	3.01	69.13
1785	-1.5	3.2	1.91	2.18	3.2	70.82
1805	-1.8	2.7	2.01	1.19	2.7	66.07
1840	-2.68	2.64	0.13	2.52	2.64	54
1850	-2.72	3.16	-0.39	2.9	3.16	53.4
1880	-1.79	3.41	1.91	3.04	3.41	66.21
1910	-1.5	3.51	1.95	2.62	3.51	70.78
1920	-1.43	2.97	2.07	2.06	2.97	71.91
1930	-1.49	3.15	2.12	2.01	3.15	70.99
1950	-1.37	2.8	2.05	2.1	2.8	72.96
1960	-1.15	3.11	2.09	2.37	3.11	76.8
1980	-0.989	2.91	2.34	2.31	2.91	79.8
1990	-0.72	3.17	3.04	2.77	3.17	84.78
2010	-0.7	3.3	3.03	2.38	3.3	85.11
2018	-0.73	3.43	3.16	2.52	3.43	84.55
2025	-0.73	3.35	3.09	2.07	3.35	84.44
2110	-0.85	3.55	2.9	3.11	3.55	82.27
2140	-0.95	4.33	2.9	4.06	4.33	80.28
2170	-1.2	4.05	2.28	3.91	4.05	75.9
2200	-1.29	3.01	2.22	2.45	3.01	74.27
2300	-1.02	4.51	2.04	3.7	4.51	78.98
2325	-1.36	3.87	1.32	3.45	3.87	73.13
2350	-1.44	4.01	1.34	3.76	4.01	71.72
2375	-1.23	3.42	0.67	2.58	3.42	75.29
2400	-0.87	3.89	1.14	3.23	3.89	81.88
2442	-1.12	3.7	0.88	3.33	3.72	77.2
2450	-1.09	3.46	1.26	3.29	3.46	77.75
2484	-1.06	3.19	0.61	2.48	3.19	78.36
2500	-1.31	3.28	1.03	3.14	3.28	73.96
2525	-1.4	3.41	0.67	3.28	3.41	72.4
2550	-1.34	4.01	1.2	3.79	4.01	73.4
2575	-1.22	3.97	0.55	3.79	3.97	75.56
2600	-1.57	3.8	1.02	3.78	3.8	69.7
2625	-2.05	3.05	0.7	2.99	3.05	62.39
2650	-2.35	2.89	0.27	2.43	2.89	58.19
2675	-2.48	3.37	-0.08	2.01	3.37	56.55
2700	-3.12	2.83	-0.06	1.57	2.83	48.8

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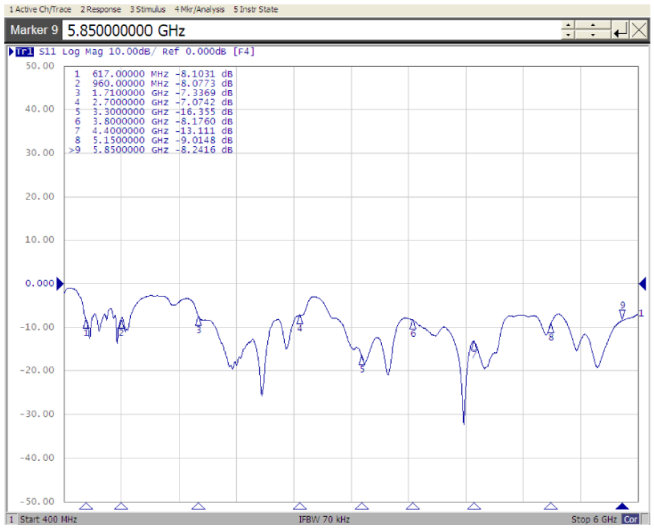
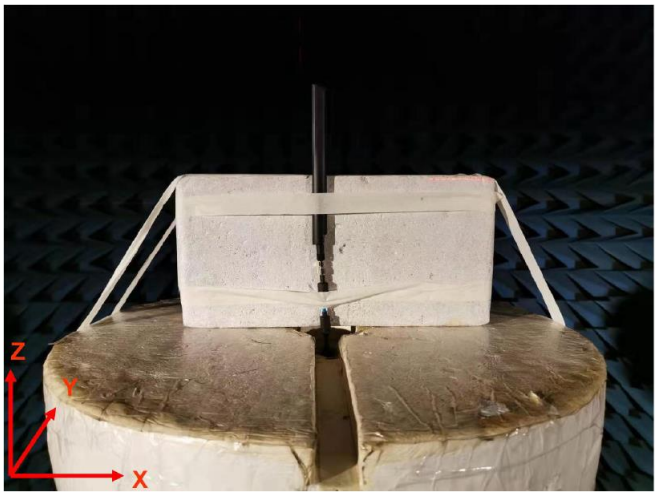
BTEA0020106G0R2A01

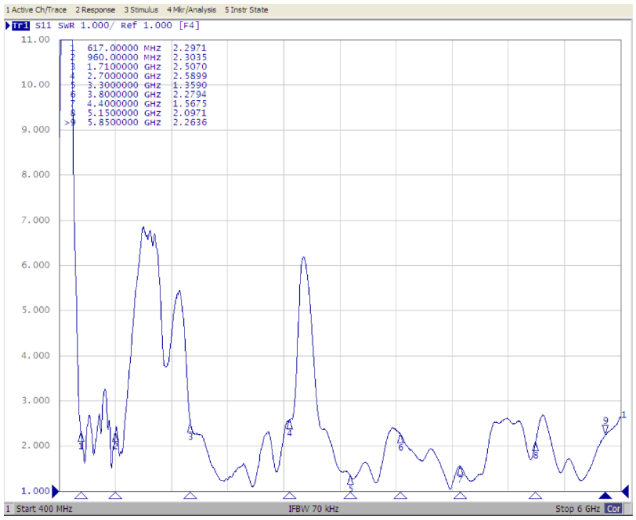
Return Loss



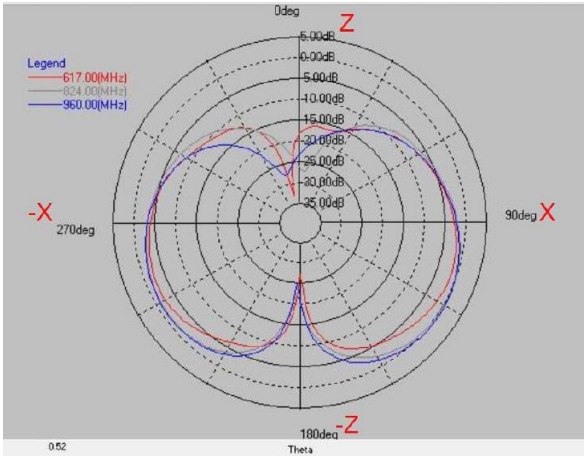
Experimental Setup



VSWR

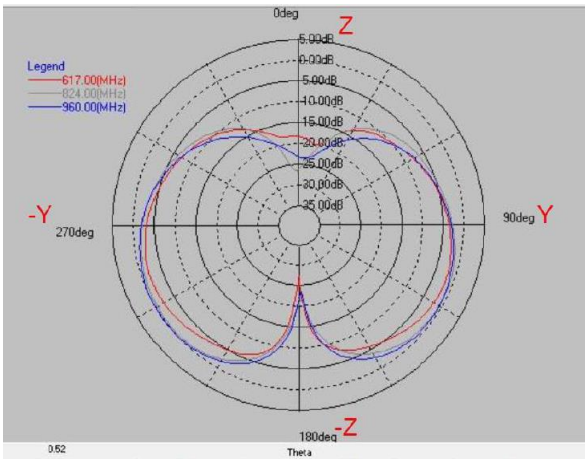


2D Gain Pattern_Antenna_ZX Cut (Phi=0)



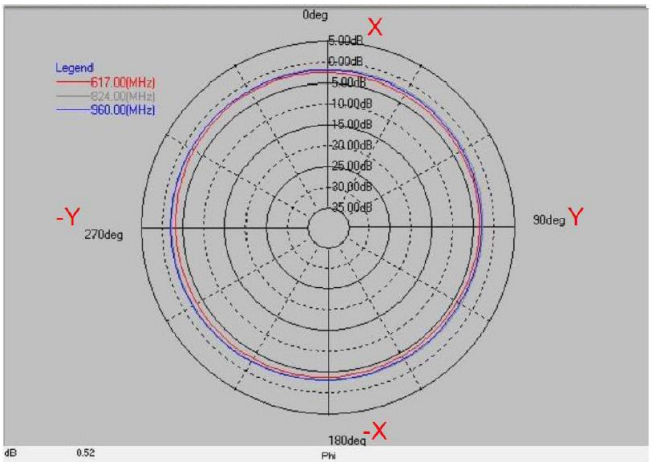
Layer	Max value	Min value	Average
617(MHz)	-1.39 dB	-33.33 dB	-5.85 dB
824(MHz)	0.22 dB	-27.68 dB	-4.37 dB
960(MHz)	0.42 dB	-28.14 dB	-4.28 dB

2D Gain Pattern_Antenna_ZY Cut (Phi=90)



Layer	Max value	Min value	Average
617(MHz)	-1.80 dB	-27.56 dB	-5.79 dB
824(MHz)	-0.32 dB	-27.04 dB	-4.34 dB
960(MHz)	0.09 dB	-23.93 dB	-4.21 dB

2D Gain Pattern_Antenna_XY Cut (Theta=90)



Layer	Max value	Min value	Average
617(MHz)	-2.37 dB	-4.29 dB	-3.32 dB
824(MHz)	-1.85 dB	-3.26 dB	-2.46 dB
960(MHz)	-1.93 dB	-3.48 dB	-2.58 dB

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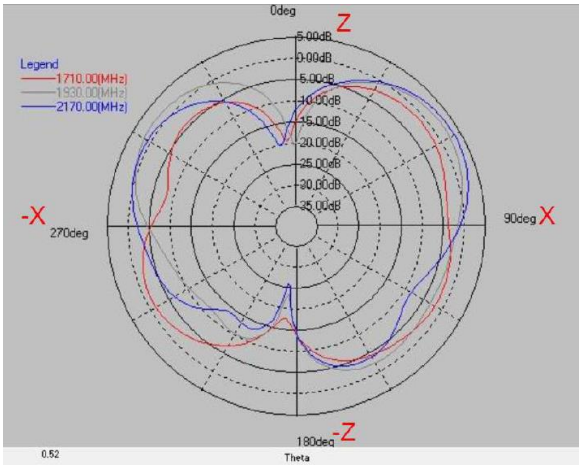
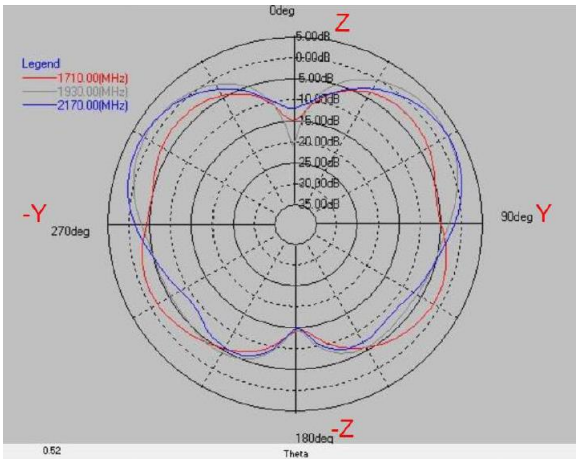
2D Gain Pattern_Antenna_ZX Cut (Phi=0)



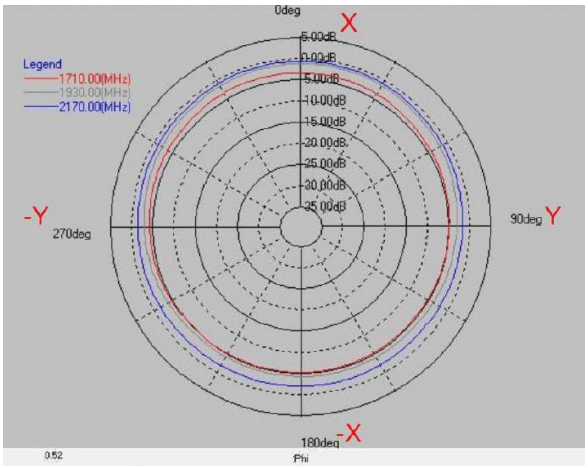
Layer	Max value	Min value	Average
1710(MHz)	-1.27 dB	-19.63 dB	-4.33 dB
1930(MHz)	2.35 dB	-23.75 dB	-2.26 dB
2170(MHz)	3.54 dB	-26.16 dB	-2.41 dB

2D Gain Pattern_Antenna_ZY Cut (Phi=90)



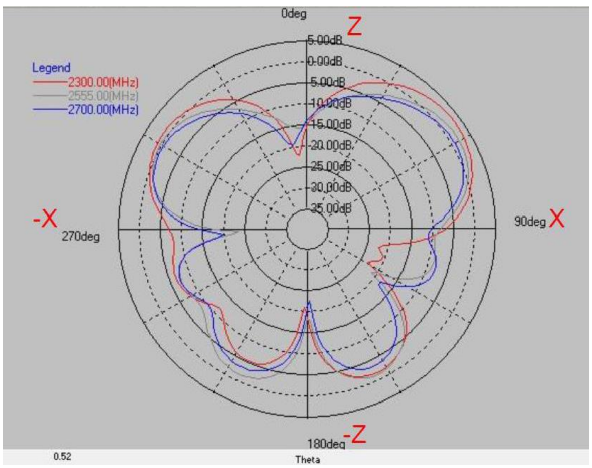
Layer	Max value	Min value	Average
1710(MHz)	-1.65 dB	-15.05 dB	-4.37 dB
1930(MHz)	2.59 dB	-21.40 dB	-2.33 dB
2170(MHz)	3.43 dB	-15.04 dB	-2.50 dB

2D Gain Pattern_Antenna_XY Cut (Theta=90)



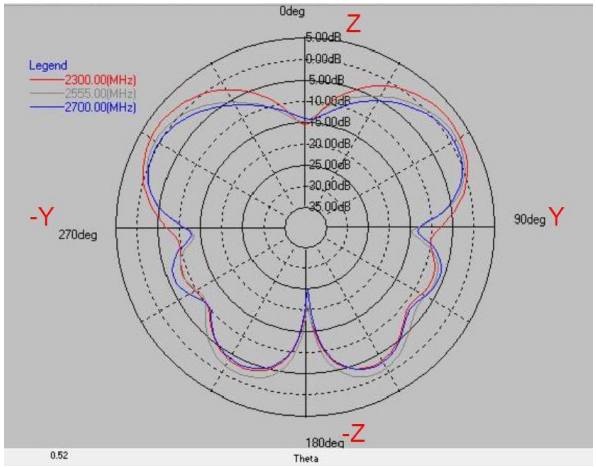
Layer	Max value	Min value	Average
1710(MHz)	-3.57 dB	-5.49 dB	-4.49 dB
1930(MHz)	-1.45 dB	-4.54 dB	-2.85 dB
2170(MHz)	-0.91 dB	-2.21 dB	-1.53 dB

2D Gain Pattern_Antenna_ZX Cut (Phi=0)



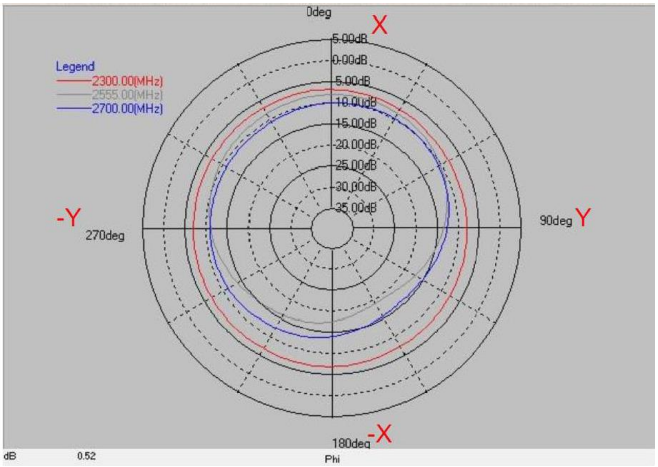
Layer	Max value	Min value	Average
2300(MHz)	3.48 dB	-23.31 dB	-2.83 dB
2555(MHz)	2.02 dB	-23.64 dB	-3.80 dB
2700(MHz)	0.79 dB	-22.71 dB	-4.96 dB

2D Gain Pattern_Antenna_ZY Cut (Phi=90)



Layer	Max value	Min value	Average
2300(MHz)	2.66 dB	-20.71 dB	-2.81 dB
2555(MHz)	1.64 dB	-21.35 dB	-3.69 dB
2700(MHz)	0.80 dB	-25.15 dB	-4.63 dB

2D Gain Pattern_Antenna_XY Cut (Theta=90)



Layer	Max value	Min value	Average
2300(MHz)	-6.96 dB	-8.08 dB	-7.33 dB
2555(MHz)	-8.25 dB	-19.35 dB	-11.43 dB
2700(MHz)	-10.03 dB	-16.08 dB	-11.84 dB

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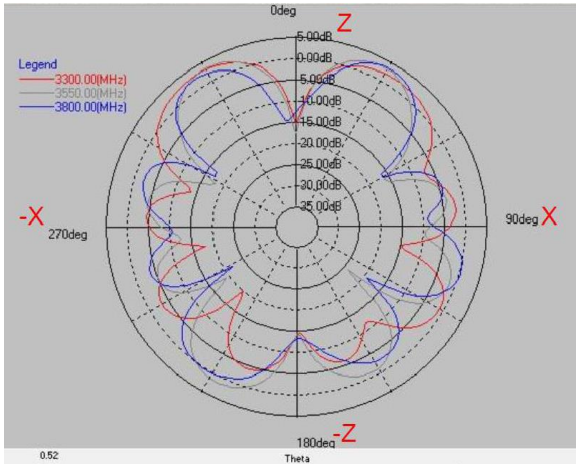
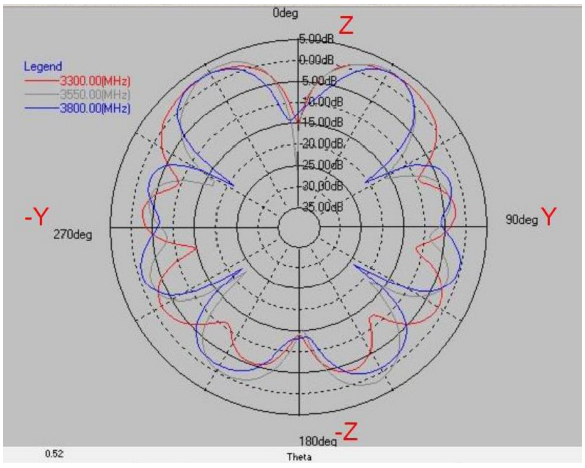
2D Gain Pattern_Antenna_ZX Cut (Phi=0)



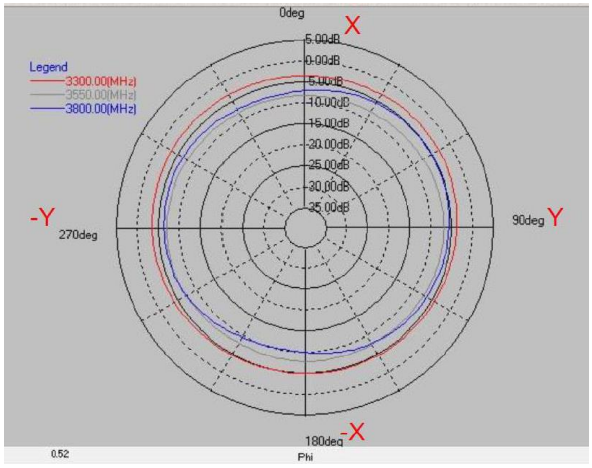
Layer	Max value	Min value	Average
3300(MHz)	3.07 dB	-20.14 dB	-2.57 dB
3550(MHz)	3.26 dB	-24.17 dB	-2.51 dB
3800(MHz)	3.43 dB	-22.01 dB	-2.77 dB

2D Gain Pattern_Antenna_ZY Cut (Phi=90)



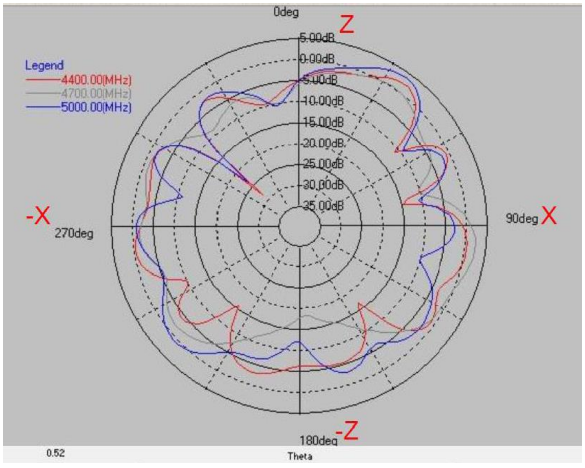
Layer	Max value	Min value	Average
3300(MHz)	2.85 dB	-15.41 dB	-2.31 dB
3550(MHz)	3.17 dB	-26.31 dB	-2.40 dB
3800(MHz)	3.01 dB	-24.18 dB	-2.64 dB

2D Gain Pattern_Antenna_XY Cut (Theta=90)



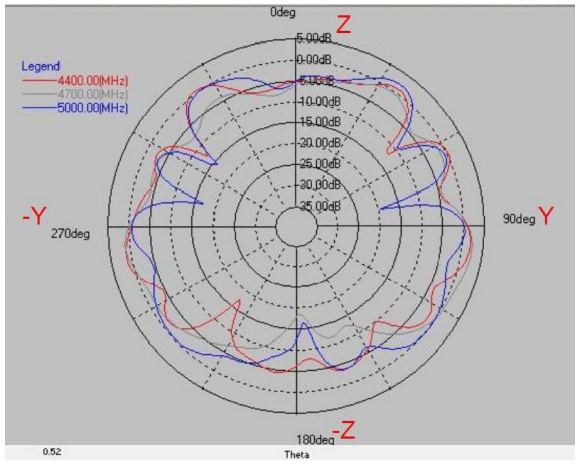
Layer	Max value	Min value	Average
3300(MHz)	-3.08 dB	-5.14 dB	-3.90 dB
3550(MHz)	-6.85 dB	-8.46 dB	-7.70 dB
3800(MHz)	-5.16 dB	-10.45 dB	-6.92 dB

2D Gain Pattern_Antenna_ZX Cut (Phi=0)



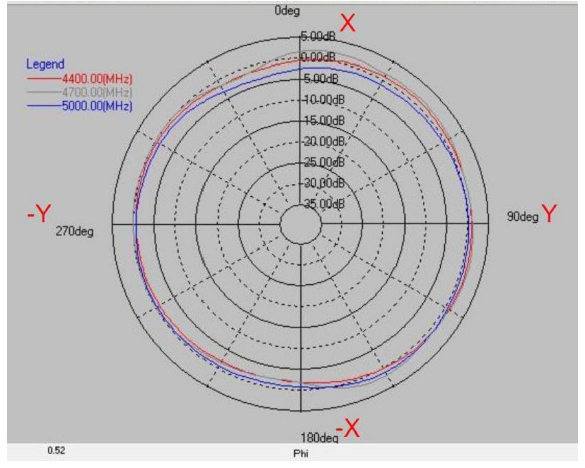
Layer	Max value	Min value	Average
4400(MHz)	2.11 dB	-28.32 dB	-3.34 dB
4700(MHz)	2.51 dB	-18.54 dB	-3.40 dB
5000(MHz)	3.59 dB	-23.84 dB	-3.01 dB

2D Gain Pattern_Antenna_ZY Cut (Phi=90)



Layer	Max value	Min value	Average
4400(MHz)	1.97 dB	-17.60 dB	-2.70 dB
4700(MHz)	2.50 dB	-18.71 dB	-2.84 dB
5000(MHz)	2.13 dB	-19.53 dB	-2.61 dB

2D Gain Pattern_Antenna_XY Cut (Theta=90)



Layer	Max value	Min value	Average
4400(MHz)	1.22 dB	-2.37 dB	-0.27 dB
4700(MHz)	1.93 dB	-2.41 dB	0.43 dB
5000(MHz)	1.00 dB	-3.76 dB	-0.68 dB

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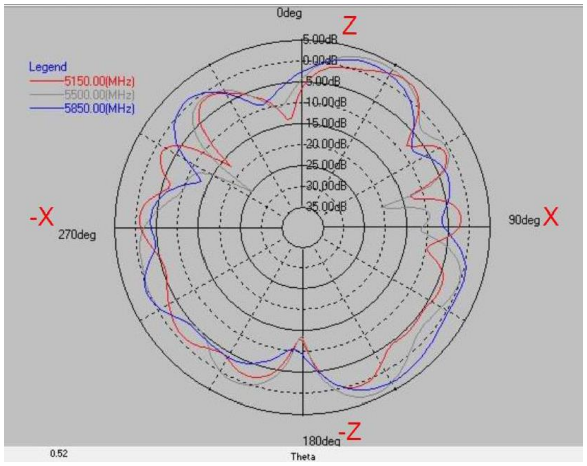
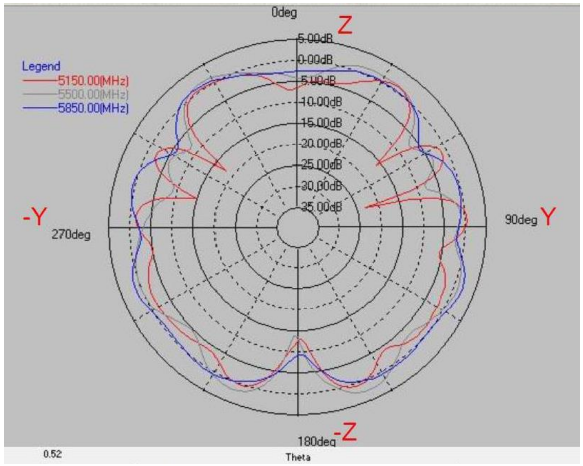
2D Gain Pattern_Antenna_ZX Cut (Phi=0)



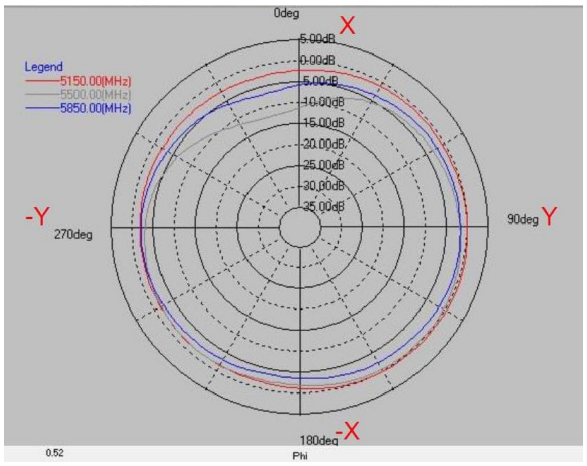
Layer	Max value	Min value	Average
5150(MHz)	3.06 dB	-17.47 dB	-2.82 dB
5500(MHz)	3.71 dB	-25.19 dB	-1.36 dB
5850(MHz)	2.94 dB	-13.40 dB	-1.46 dB

2D Gain Pattern_Antenna_ZY Cut (Phi=90)



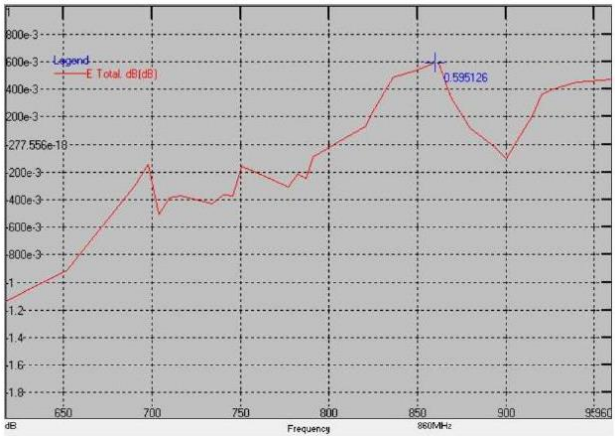
Layer	Max value	Min value	Average
5150(MHz)	1.20 dB	-23.10 dB	-2.62 dB
5500(MHz)	2.46 dB	-13.93 dB	-1.33 dB
5850(MHz)	2.03 dB	-9.55 dB	-0.79 dB

2D Gain Pattern_Antenna_XY Cut (Theta=90)

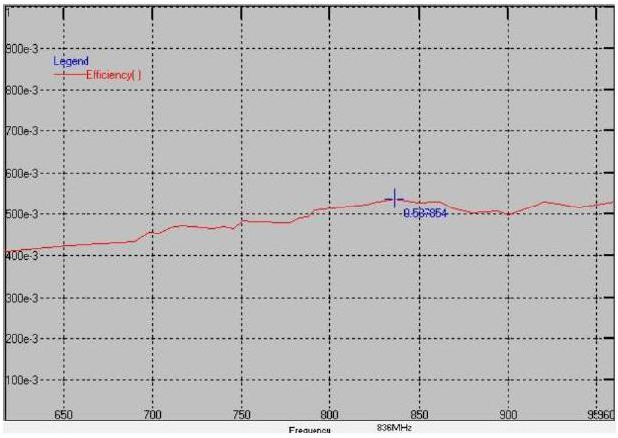


Layer	Max value	Min value	Average
5150(MHz)	0.43 dB	-2.78 dB	-1.15 dB
5500(MHz)	-0.23 dB	-12.82 dB	-3.00 dB
5850(MHz)	-1.38 dB	-7.14 dB	-2.99 dB

3D Peak Gain



3D Efficiency



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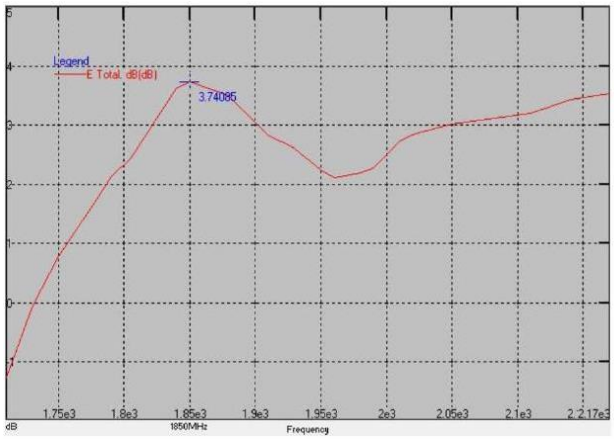
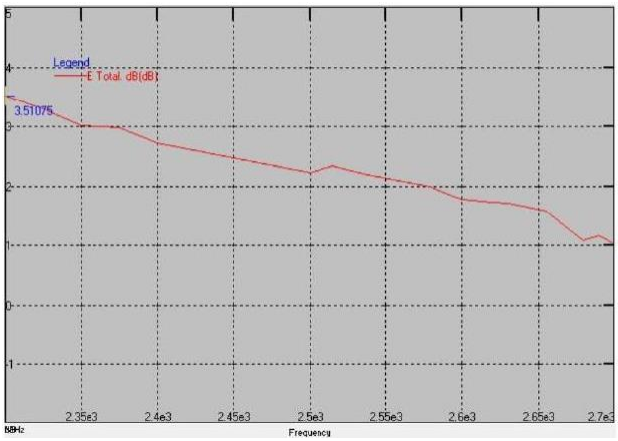
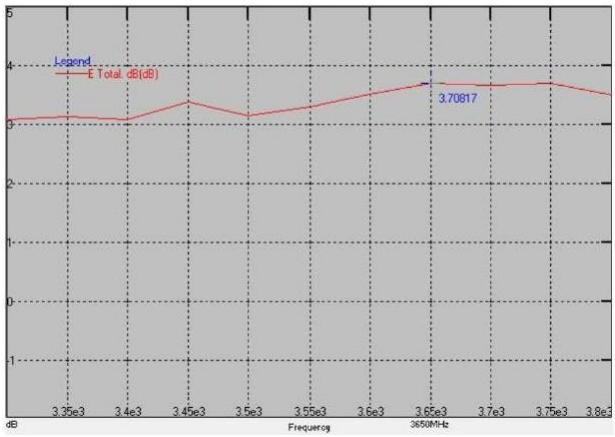
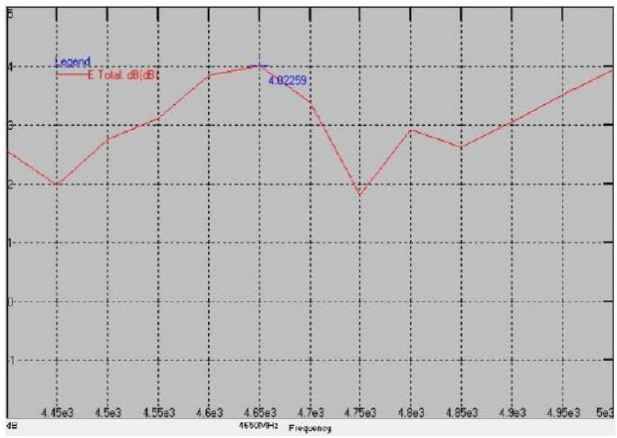
3D Peak Gain

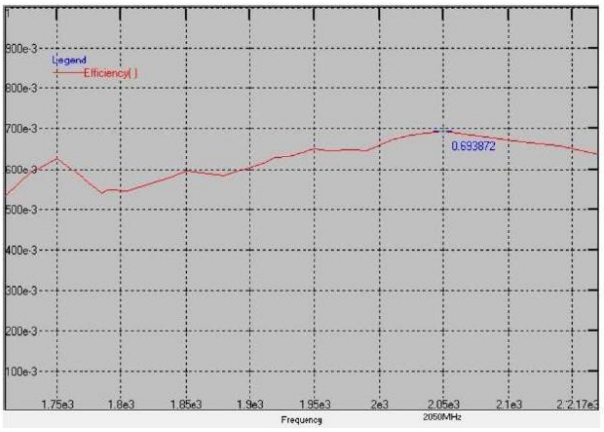


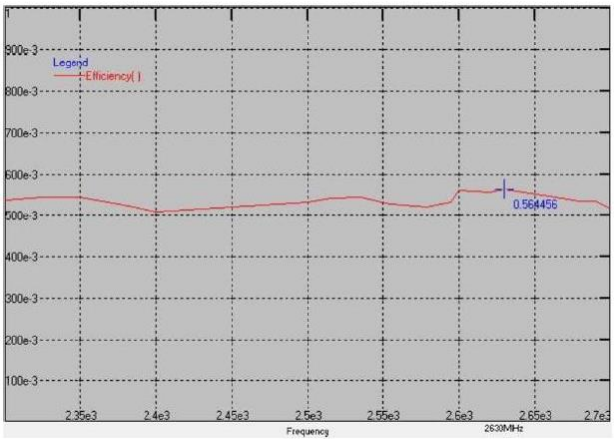


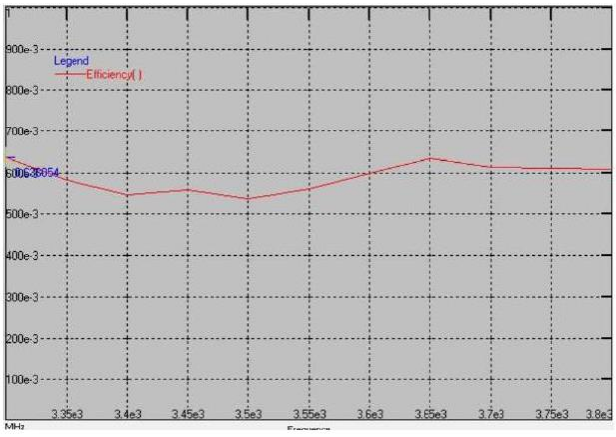


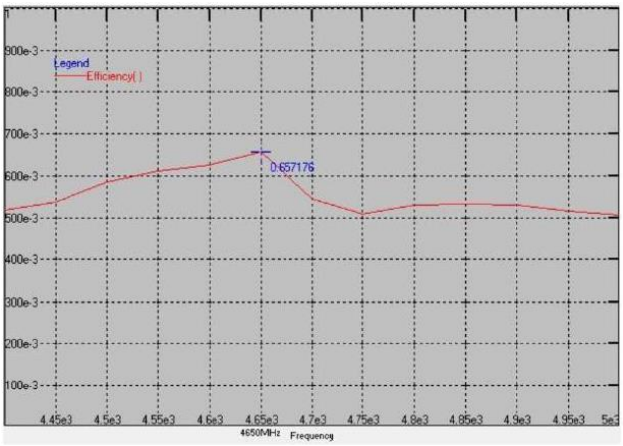


3D Efficiency









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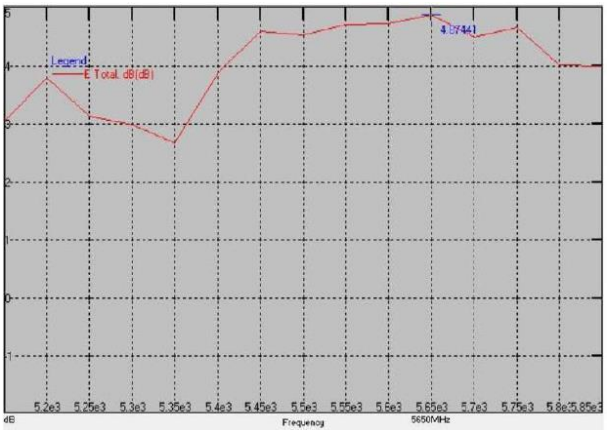
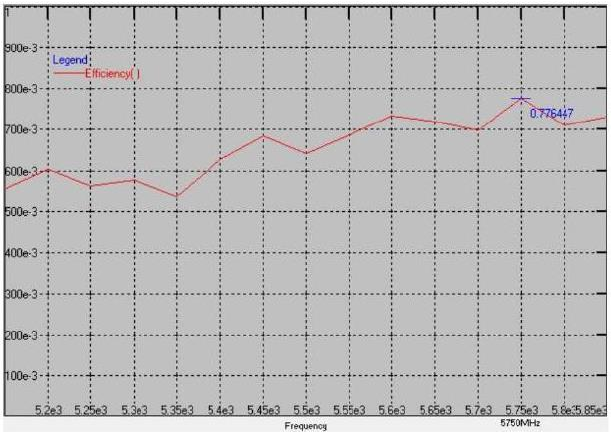
3D Peak Gain



3D Efficiency



Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)	Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)	Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
617	-1.14	41	2050	3.03	69	3750	3.70	61
690	-0.30	43	2110	3.21	67	3800	3.50	61
710	-0.39	45	2140	3.43	66	4400	2.56	52
716	-0.38	47	2170	3.54	64	4450	1.99	54
740	-0.36	47	2300	3.51	54	4500	2.75	59
756	-0.19	47	2325	3.30	55	4550	3.12	61
791	-0.09	48	2350	3.03	54	4600	3.86	63
824	0.22	51	2375	2.99	53	4650	4.02	66
836	0.48	53	2400	2.72	51	4700	3.39	54
869	0.34	54	2500	2.23	53	4750	1.81	51
880	0.12	51	2515	2.34	54	4800	2.92	53
894	-0.02	50	2535	2.21	54	4850	2.62	53
915	0.21	51	2555	2.12	53	4900	3.06	53
920	0.36	50	2579	1.99	52	4950	3.51	52
925	0.40	52	2595	1.83	53	5000	3.96	51
940	0.45	53	2620	1.73	56	5150	3.06	56
960	0.47	53	2630	1.71	56	5200	3.81	60
1710	-1.27	53	2655	1.59	55	5250	3.14	56
1750	0.79	63	2680	1.08	54	5300	3.00	58
1785	1.95	54	2690	1.17	53	5350	2.67	54
1805	2.44	54	2700	1.03	52	5400	3.88	63
1840	3.62	58	3300	3.09	64	5450	4.60	69
1880	3.50	58	3350	3.14	58	5500	4.52	64
1910	2.82	62	3400	3.09	55	5550	4.71	69
1930	2.60	63	3450	3.39	56	5600	4.73	73
1950	2.25	65	3500	3.15	54	5650	4.87	72
1980	2.20	65	3550	3.30	56	5700	4.49	70
1990	2.28	65	3600	3.52	60	5750	4.66	78
2010	2.73	67	3650	3.71	63	5800	4.01	71
2025	2.87	69	3700	3.67	61	5850	3.99	73

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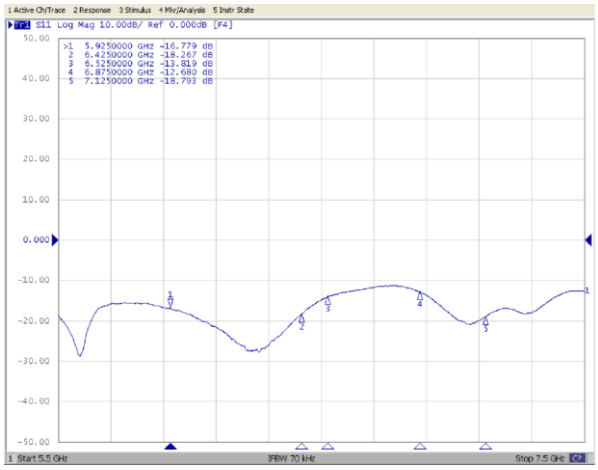
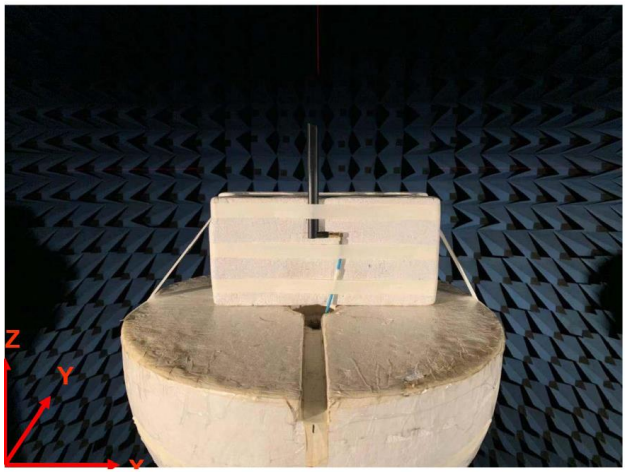
BTEA0020106G0R2A02

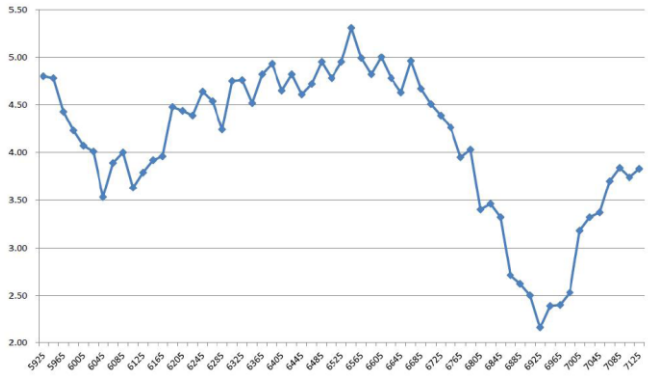
Return Loss S11



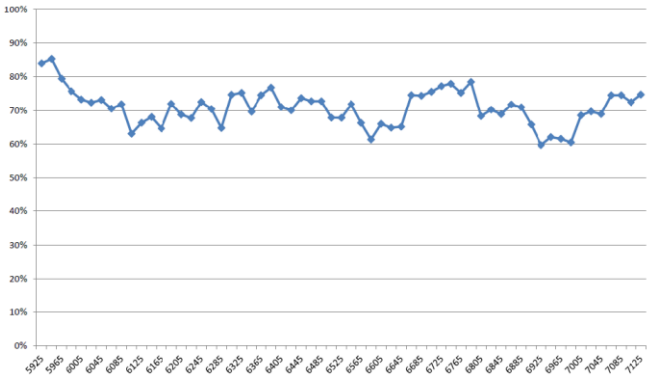
Experimental Setup



3D Peak Gain



3D Efficiency



Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)	Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)	Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
5925	4.80	84	6345	4.52	70	6765	3.95	75
5945	4.78	85	6365	4.82	75	6785	4.03	78
5965	4.43	79	6385	4.93	77	6805	3.40	68
5985	4.23	76	6405	4.65	71	6825	3.46	70
6005	4.07	73	6425	4.82	70	6845	3.32	69
6025	4.01	72	6445	4.61	74	6865	2.71	72
6045	3.53	73	6465	4.72	73	6885	2.62	71
6065	3.89	70	6485	4.95	73	6905	2.50	66
6085	4.00	72	6505	4.78	68	6925	2.16	60
6105	3.63	63	6525	4.95	68	6945	2.39	62
6125	3.79	66	6545	5.31	72	6965	2.40	62
6145	3.92	68	6565	4.99	66	6985	2.53	60
6165	3.96	65	6585	4.82	61	7005	3.18	69
6185	4.48	72	6605	5.00	66	7025	3.32	70
6205	4.44	69	6625	4.78	65	7045	3.37	69
6225	4.39	68	6645	4.63	65	7065	3.70	75
6245	4.64	73	6665	4.96	75	7085	3.84	75
6265	4.54	70	6685	4.67	74	7105	3.74	72
6285	4.24	65	6705	4.51	76	7125	3.83	75
6305	4.75	75	6725	4.39	77			
6325	4.76	75	6745	4.26	78			

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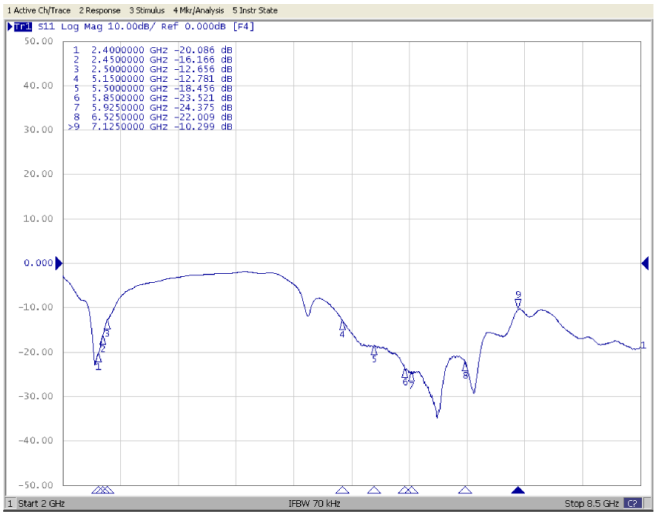
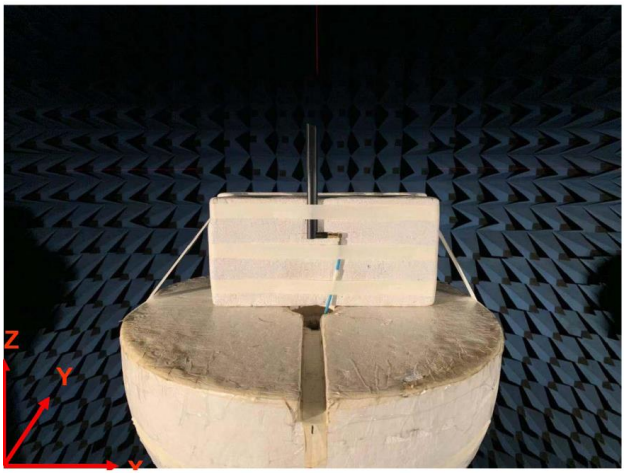
BTEA0020106G0R2A05

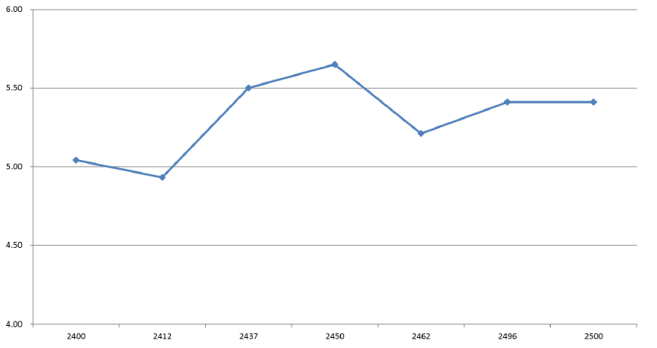
Return Loss S11

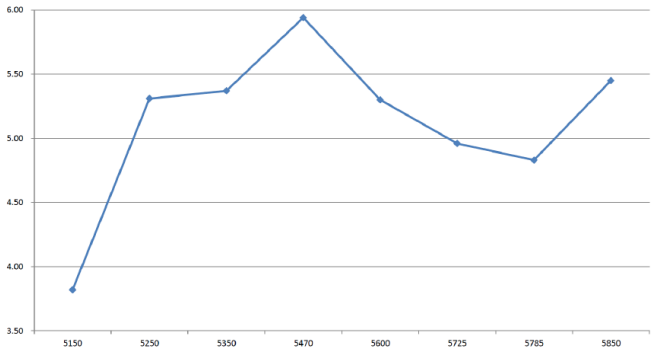


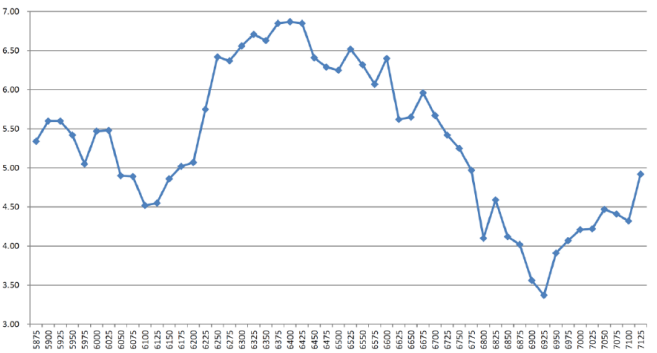
Experimental Setup



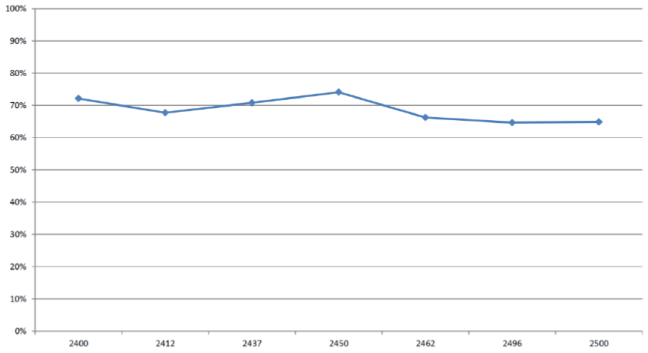
3D Peak Gain

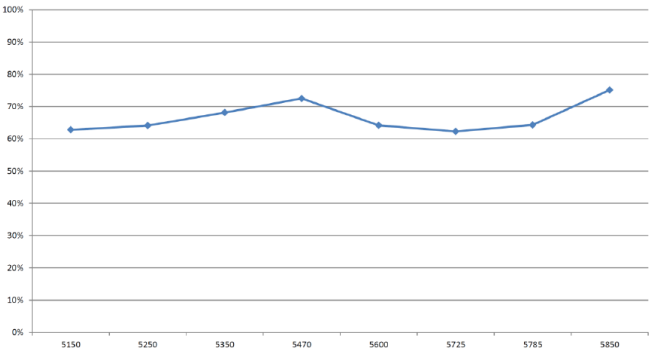


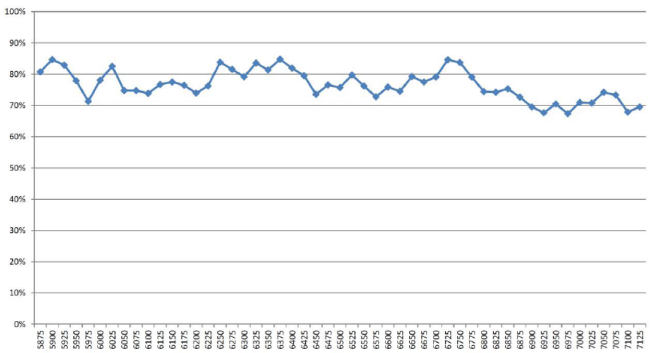




3D Efficiency







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External Antenna BTEA Series

Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)	Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)	Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400	5.04	72	6050	4.90	75	6600	6.40	76
2412	4.93	68	6075	4.89	75	6625	5.62	75
2437	5.50	71	6100	4.52	74	6650	5.65	79
2450	5.65	74	6125	4.55	77	6675	5.96	78
2462	5.21	66	6150	4.86	78	6700	5.67	79
2496	5.41	65	6175	5.02	76	6725	5.42	85
2500	5.41	65	6200	5.07	74	6750	5.25	84
5150	3.82	63	6225	5.75	76	6775	4.97	79
5250	5.31	64	6250	6.42	84	6800	4.10	74
5350	5.37	68	6275	6.37	82	6825	4.59	74
5470	5.94	73	6300	6.56	79	6850	4.12	75
5600	5.30	64	6325	6.71	84	6875	4.02	73
5725	4.96	62	6350	6.63	81	6900	3.56	70
5785	4.83	64	6375	6.85	85	6925	3.37	68
5850	5.45	75	6400	6.87	82	6950	3.91	70
5875	5.34	81	6425	6.85	80	6975	4.07	67
5900	5.60	85	6450	6.41	74	7000	4.21	71
5925	5.60	83	6475	6.29	77	7025	4.22	71
5950	5.42	78	6500	6.25	76	7050	4.47	74
5975	5.05	71	6525	6.52	80	7075	4.41	73
6000	5.47	78	6550	6.32	76	7100	4.32	68
6025	5.48	83	6575	6.07	73	7125	4.92	70

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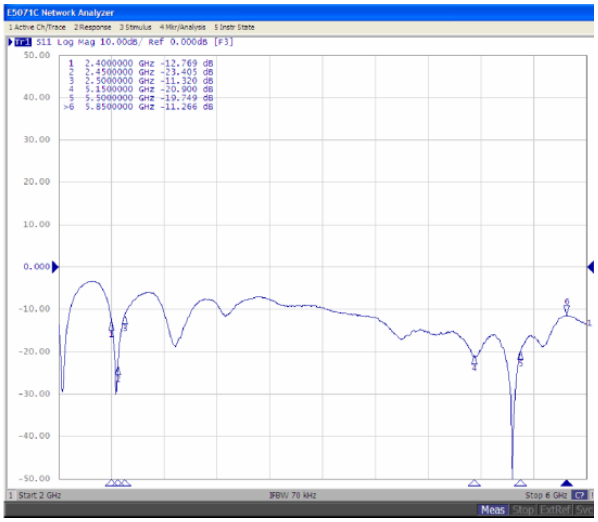
Pulse a YAGEO company

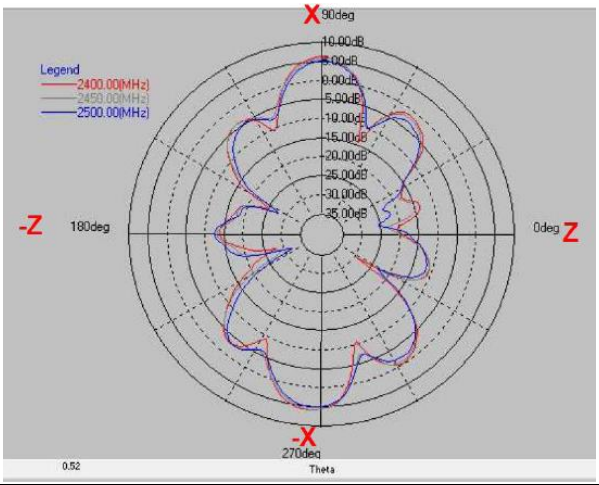
CHILISIN ELECTRONICS CORP.

BTEA00271325GR2A03

Return Loss S11

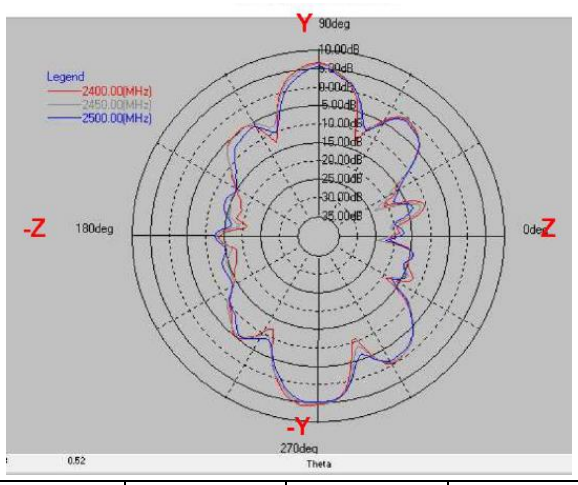


Frequency(MHz)：2400~2500. Pattern Field：X-Z plane



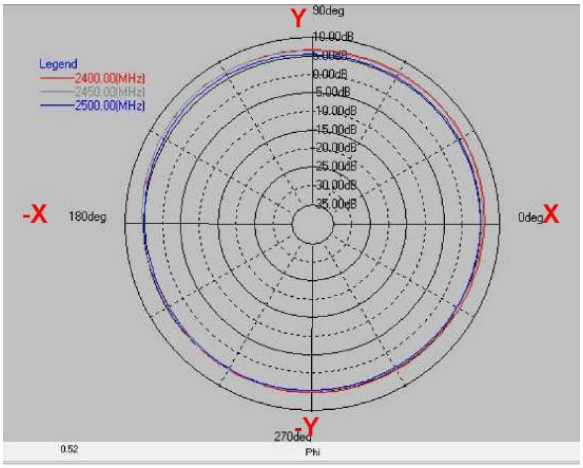
Layer	Max value	Min value	Average
2400(MHz)	6.00 dB	-29.73 dB	-2.29 dB
2450(MHz)	5.65 dB	-29.37 dB	-2.39 dB
2500(MHz)	4.97 dB	-32.12 dB	-3.07 dB

Frequency(MHz)：2400~2500. Pattern Field：Y-Z plane



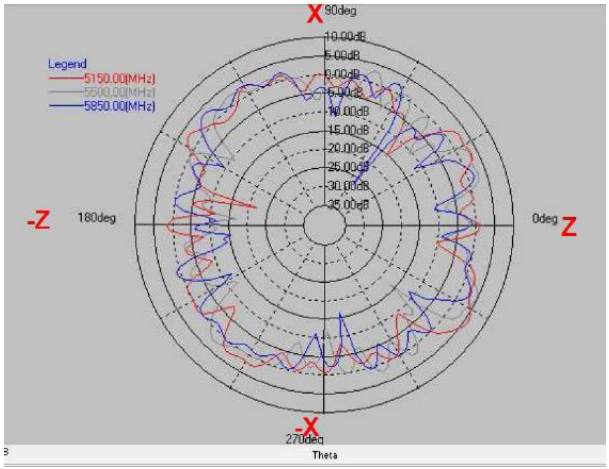
Layer	Max value	Min value	Average
2400(MHz)	6.34 dB	-21.38 dB	-2.36 dB
2450(MHz)	6.10 dB	-24.27 dB	-2.51 dB
2500(MHz)	5.19 dB	-22.16 dB	-3.04 dB

Frequency(MHz)：2400~2500. Pattern Field：X-Y plane



Layer	Max value	Min value	Average
2400(MHz)	6.71 dB	4.62 dB	5.79 dB
2450(MHz)	6.70 dB	4.43 dB	5.57 dB
2500(MHz)	5.84 dB	4.20 dB	4.92 dB

Frequency(MHz)：5150~5850. Pattern Field：X-Z plane



Layer	Max value	Min value	Average
5150(MHz)	5.91 dB	-21.93 dB	-0.60 dB
5500(MHz)	4.90 dB	-17.01 dB	-1.14 dB
5850(MHz)	3.15 dB	-27.21 dB	-1.72 dB

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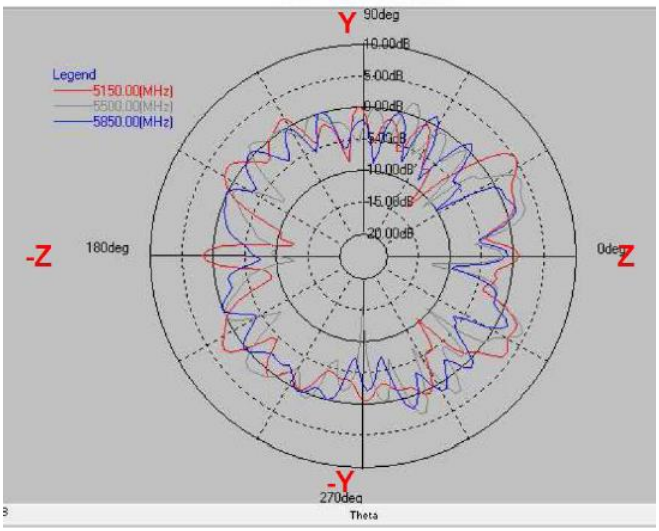
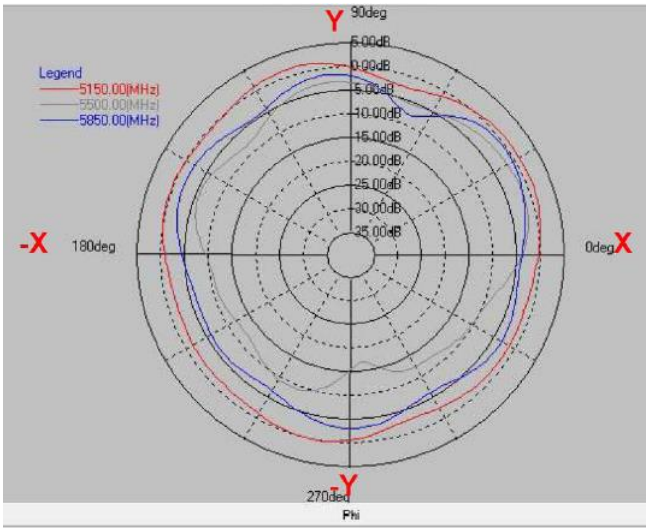
Frequency(MHz)：5150~5850. Pattern Field：Y-Z plane



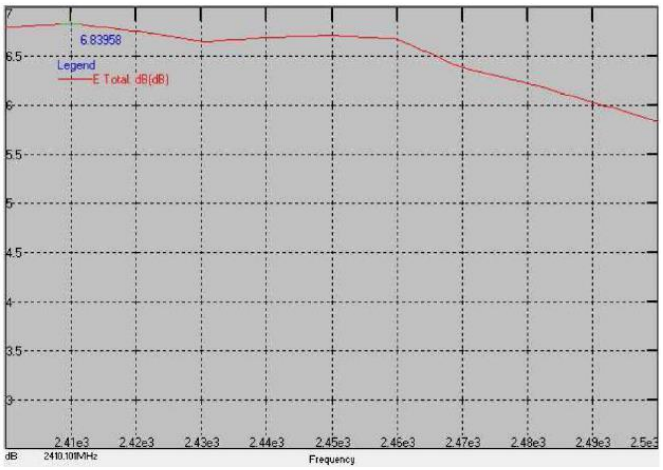
Layer	Max value	Min value	Average
5150(MHz)	5.02 dB	-13.25 dB	-0.85 dB
5500(MHz)	4.44 dB	-15.62 dB	-1.14 dB
5850(MHz)	1.87 dB	-10.07 dB	-1.75 dB

Frequency(MHz)：5150~5850. Pattern Field：X-Y plane



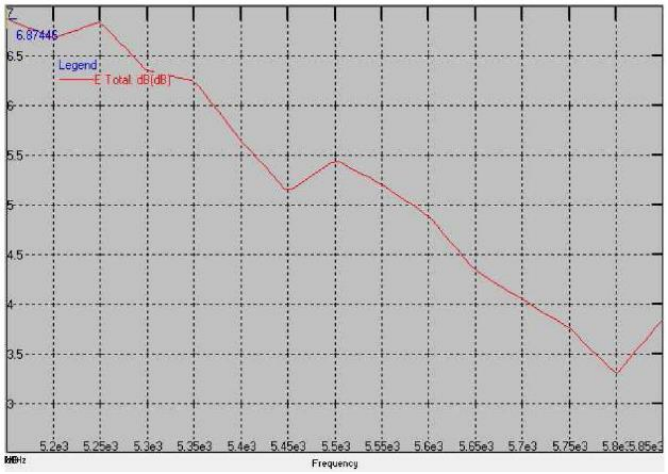
Layer	Max value	Min value	Average
5150(MHz)	1.32 dB	-2.94 dB	-0.60 dB
5500(MHz)	-1.36 dB	-17.19 dB	-6.32 dB
5850(MHz)	-0.40 dB	-7.88 dB	-3.67 dB

2.4G / Peak Gain



Peak Gain：Max 6.83 dBi

5G / Peak Gain



Peak Gain：Max 6.87 dBi

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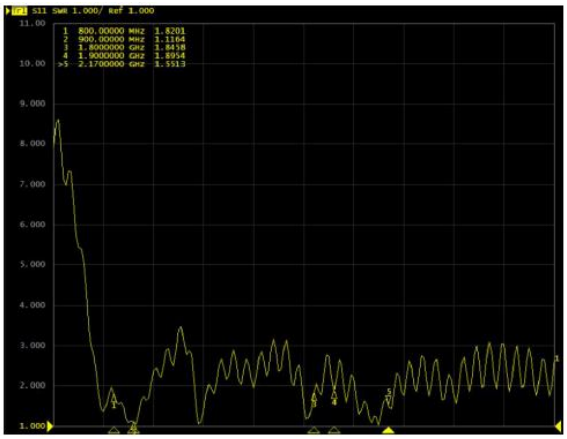
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

BTEA0027300G8R1A01

Return Loss S11



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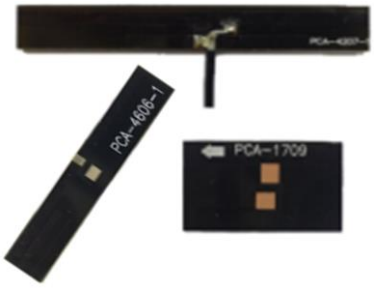
BTPA Series



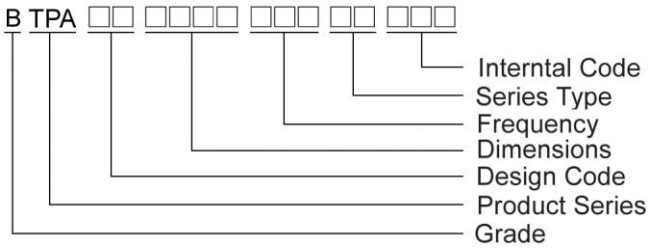
Features

- Small size low-profile, low cost and lightweight type
- Wide bandwidth and Omni-directional
- Supported with Dip-type, SMD, and Co-axial cable connecting
- Customized

Applications

- Bluetooth, Wireless Router, Set Top Box and Home digital
- ISM band, Lora, Sigfox, LTE, NB-IOT, GPS, WiFi and Car use.

Product Identification



Shapes and Dimensions

FIG 1

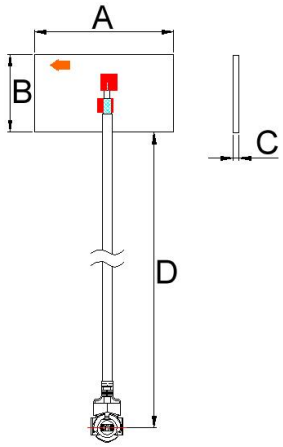


FIG 2

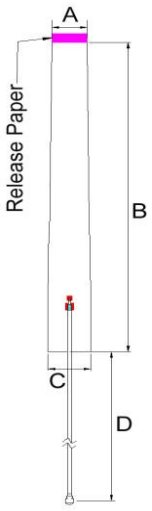
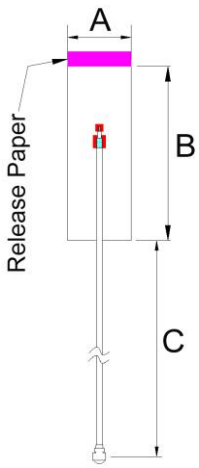


FIG 3



Dimensions in mm

TYPE	FIG	A	B	C	D
BTPA0017095G0C1B19	1	17.5	9.8	0.8	110±5
BTPA0010136G0C1A01	2	10.6	130	13	100±5
BTPA0012353G8C1A01	3	12.5	35	100±5	-
BTPA0012353G9C1A01	3	12.5	35	100±5	-

Shapes and Dimensions

FIG 4

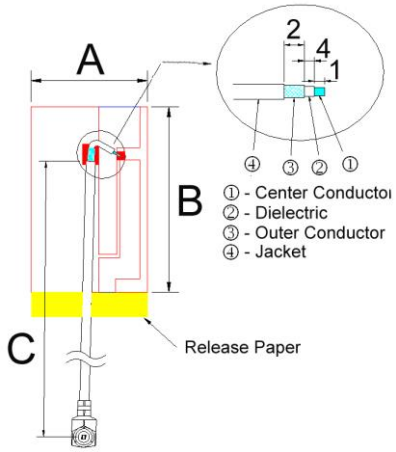


FIG 5

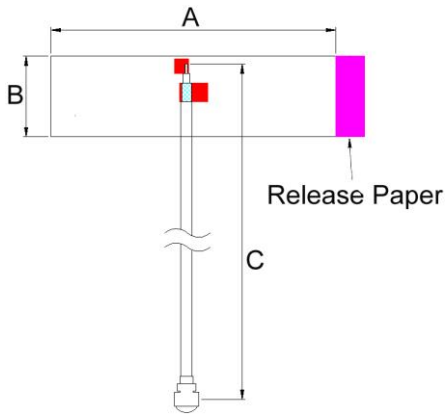


FIG 6

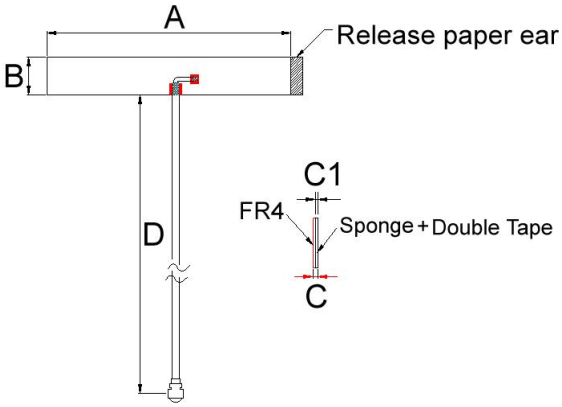
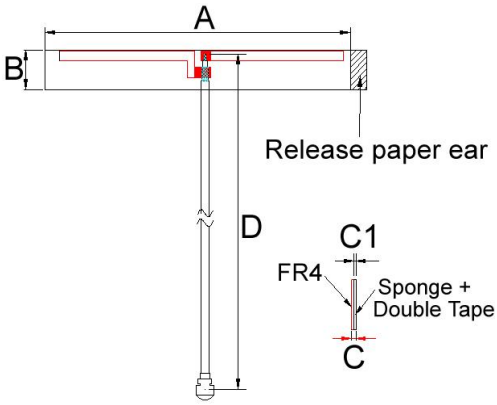


FIG 7



Dimensions in mm

TYPE	FIG	A	B	C	D
BTPA00221425GC1A09	4	14.3	22.7	143±3	-
BTPA0030082G4C1A04	5	30	8.5	220±2	-
BTPA00420725GC1A04	6	42	6.5	1.8±0.5	1.0±0.3
BTPA0046062G4C1B03	7	46.5	6	2.1±0.5	1.3±0.3

Electrical Characteristics

Part Number	Frequency Range (GHz)	Impedance (Ω)	Return Loss dB(Max)	VSWR (Max)	Radiation	Peak Gain (dB)	Polarization	Admitted Power (W)
BTPA0017095G0C1B19	5.15~5.85	50	-10	-	Omni-directional	2.67	Linear Vertical	1
BTPA0010136G0C1A01	0.617~0.96 1.71~2.17 2.3~2.7 3.3~3.8 4.4~5 5.15~5.85	50	-	4	Omni-directional	0.59 3.74 3.51 3.7 4 4.87	Linear Vertical	1
BTPA0012353G8C1A01	3.3~3.8	50	-10	-	Omni-directional	2.69	Linear Vertical	1
BTPA0012353G9C1A01	3.3~3.9	50	-7	-	Omni-directional	4.89	Linear Vertical	1
BTPA00221425GC1A09	2.4 5	50	-10	2	Omni-directional	2.78 2.53	Linear Vertical	1
BTPA0030082G4C1A04	2.4~2.5	50	-10	-	Omni-directional	3.37	Linear Vertical	1
BTPA00420725GC1A04	2.4 5	50	-10	-	Omni-directional	2.82 3.12	Linear Vertical	1
BTPA0046062G4C1B03	2.4~2.5	50	-10	2	Omni-directional	3	Linear Vertical	1
BTPA0052116G0C1A01	2.4~2.5 5.15~5.85 5.925~6.325 6.35~6.75 6.775~7.125	50	-10		Omni-directional	5.65 5.94 6.42 6.87 5.42	Linear Vertical	1

Physical Properties

Part Number		Antenna Material(Body)	Cable	Color	Connector	Double Tape	Sponge
BTPA0017095G0C1B19	FR4	Black paint OSP board	RF-113	Black	IPEX Compatible	-	-
BTPA0010136G0C1A01	FR4	Black paint OSP board	RF-113	Black	IPEX Compatible	3M 9448	-
BTPA0012353G8C1A01	FR4	Black paint OSP board	RF-113	Black	IPEX Compatible	3M 9448	-
BTPA0012353G9C1A01	FR4	Black paint OSP board	RF-113	Black	IPEX Compatible	3M 9448	-
BTPA00221425GC1A09	FR4	Black paint sneeze	RF-113	Gray	IPEX	G9000	-
BTPA0030082G4C1A04	FR4	Black paint OSP board	RF-113	Gray	IPEX Compatible	G9000	-
BTPA00420725GC1A04	FR4	Black paint OSP board	RF-113	Black	IPEX Compatible	3M 9448	EVA
BTPA0046062G4C1B03	FR4	Black paint sneeze	RF-113	Gray	IPEX	3M 9448	EVA
BTPA0052116G0C1A01	FR4	Black paint OSP board	RF-113	Black	IPEX Compatible	3M 9448	-

- Operating temperature range - 20℃ ~ +65℃
- Storage temperature range - 30℃ ~ +75℃

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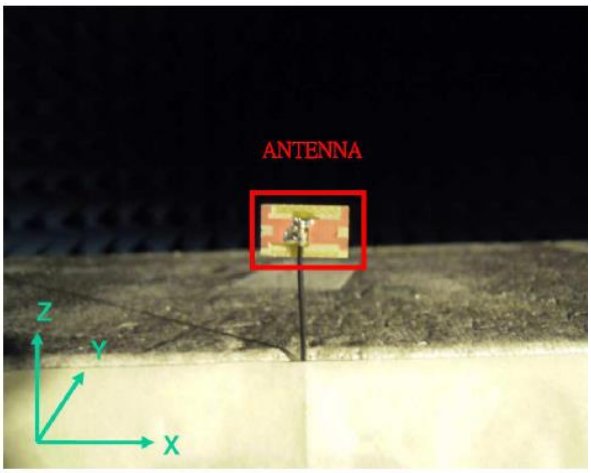
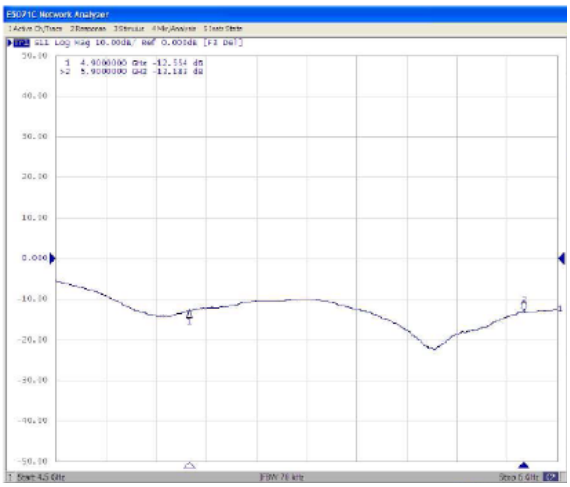
BTPA0017095G0C1B19

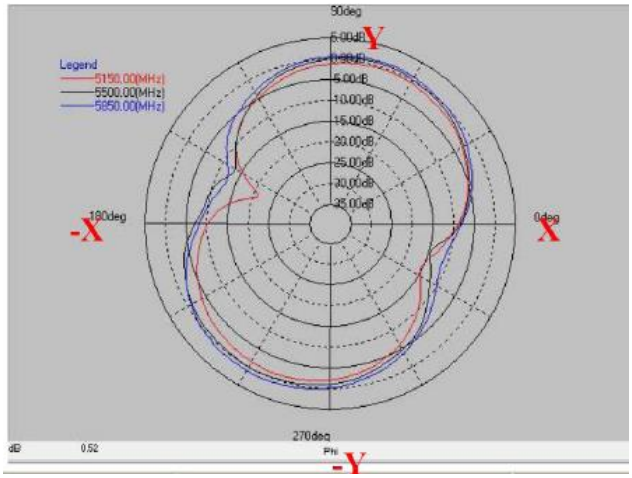
Experimental Setup



Return Loss S11

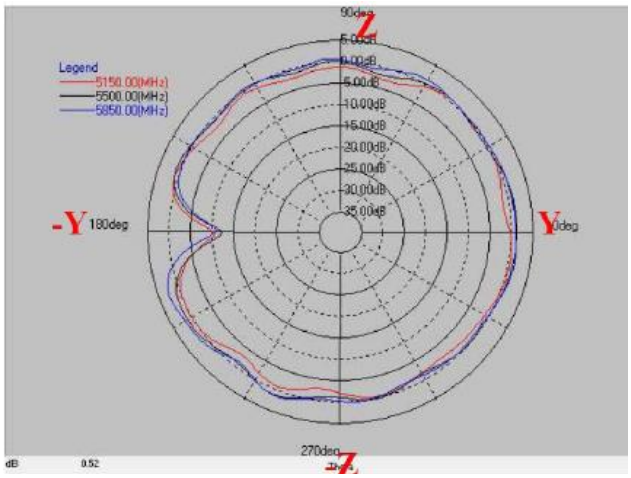


Frequency(MHz)：5150~5850. Pattern Field：X-Y plane



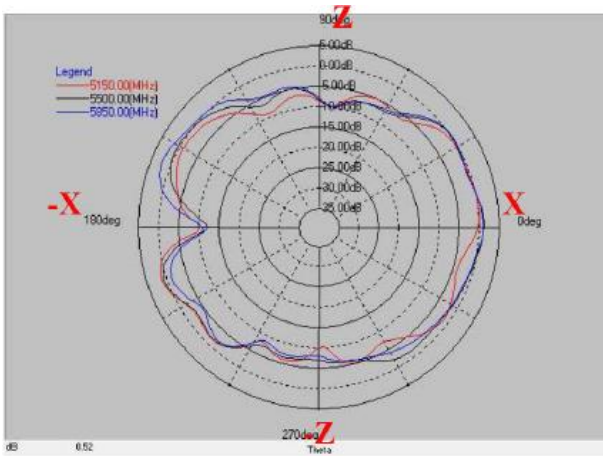
Layer	Max value	Min value	Average
5150(MHz)	-0.57 dB	-21.11 dB	-4.18 dB
5500(MHz)	0.57 Db	-14.73 dB	-2.89 dB
5850(MHz)	1.05 dB	-12.68 dB	-2.18 dB

Frequency(MHz)：5150~5850. Pattern Field：Y-Z plane



Layer	Max value	Min value	Average
5150(MHz)	0.87 dB	-10.45 dB	-1.27 dB
5500(MHz)	1.33 dB	-12.56 dB	-0.30 dB
5850(MHz)	2.67 dB	-11.11 dB	0.01 dB

Frequency(MHz)：5150~5850. Pattern Field：X-Z plane



Layer	Max value	Min value	Average
5150(MHz)	1.30 dB	-10.45 dB	-3.31 dB
5500(MHz)	1.25 dB	-12.56 dB	-2.53 dB
5850(MHz)	2.25 dB	-11.19 dB	-2.43 dB

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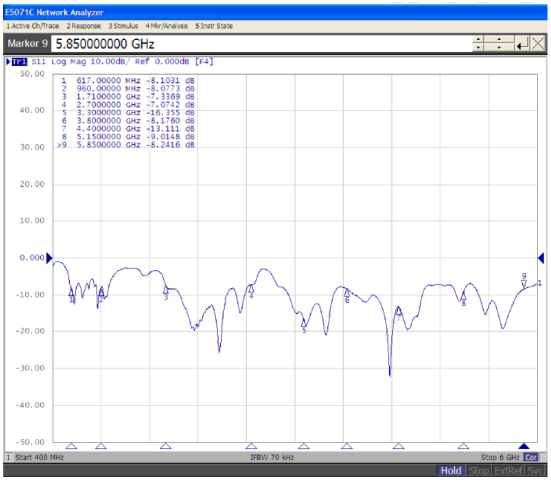
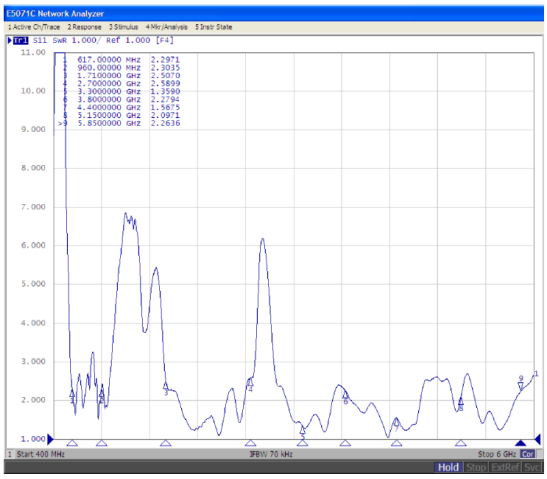
BTPA0010136G0C1A1

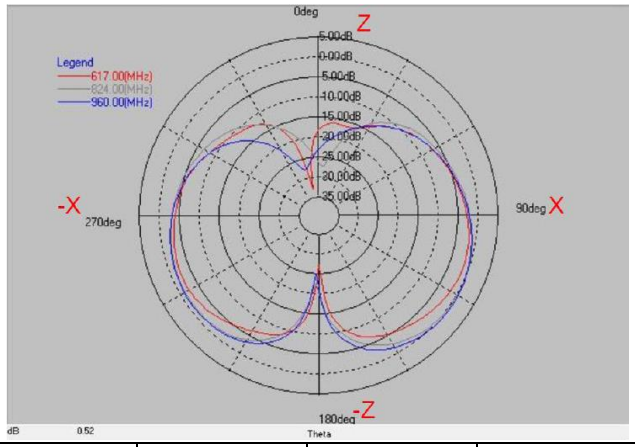
Return Loss



VSWR

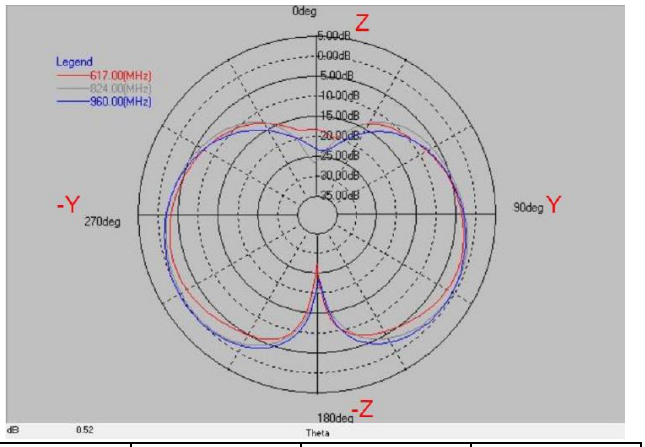


Frequency(MHz)： 617~960. Pattern Field： Z-X plane



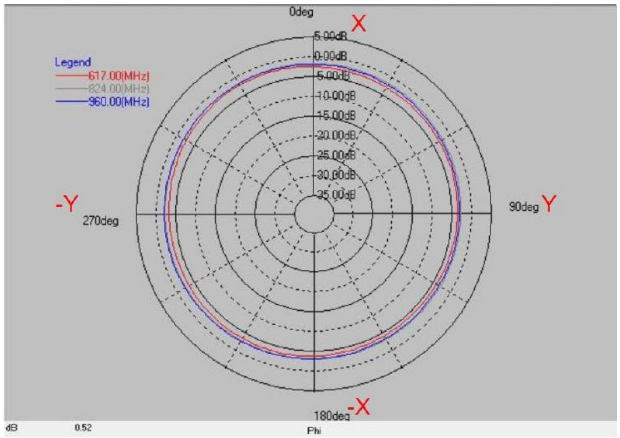
Layer	Max value	Min value	Average
617(MHz)	-1.39 dB	-33.33 dB	-5.85 dB
824(MHz)	0.22 dB	-27.68 dB	-4.37 dB
960(MHz)	0.42 dB	-28.14 dB	-4.28 dB

Frequency(MHz)： 617~960. Pattern Field： Z-Y plane



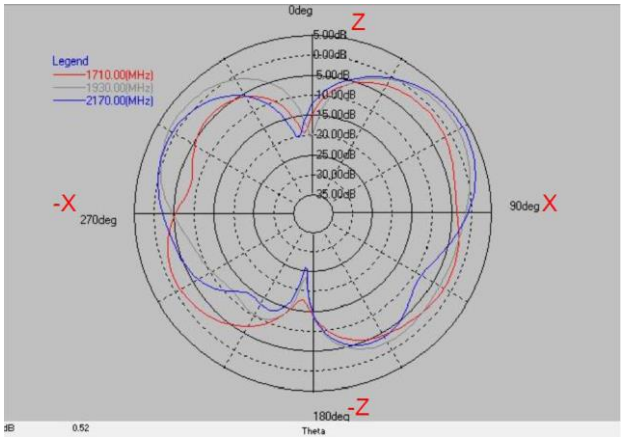
Layer	Max value	Min value	Average
617(MHz)	-1.80 dB	-27.56 dB	-5.79 dB
824(MHz)	-0.32 dB	-27.04 dB	-4.34 dB
960(MHz)	0.09 dB	-23.93 dB	-4.21 dB

Frequency(MHz)： 617~960. Pattern Field： X-Y plane



Layer	Max value	Min value	Average
617(MHz)	-2.37 dB	-4.29 dB	-3.32 dB
824(MHz)	-1.85 dB	-3.26 dB	-2.46 dB
960(MHz)	-1.93 dB	-3.48 dB	-2.58 dB

Frequency(MHz)： 1710~2170. Pattern Field： Z-X plane



Layer	Max value	Min value	Average
1710(MHz)	-1.27 dB	-19.63 dB	-4.33 dB
1930(MHz)	2.35 dB	-23.75 dB	-2.26 dB
2170(MHz)	3.54 dB	-26.16 dB	-2.41 dB

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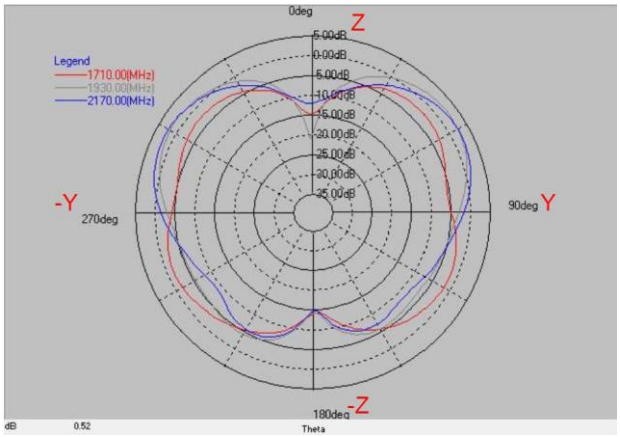
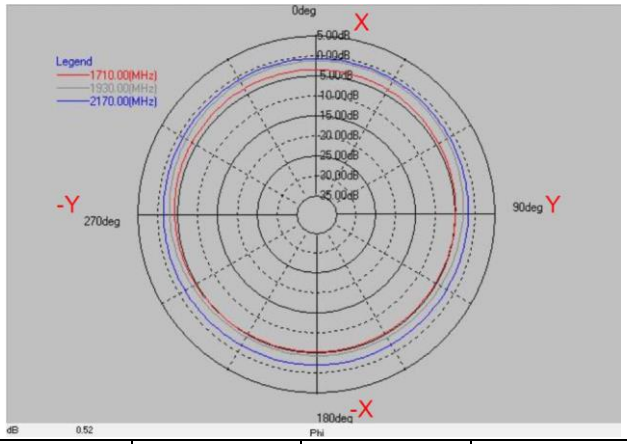
Frequency(MHz)：1710~2170. Pattern Field：Z-Y plane



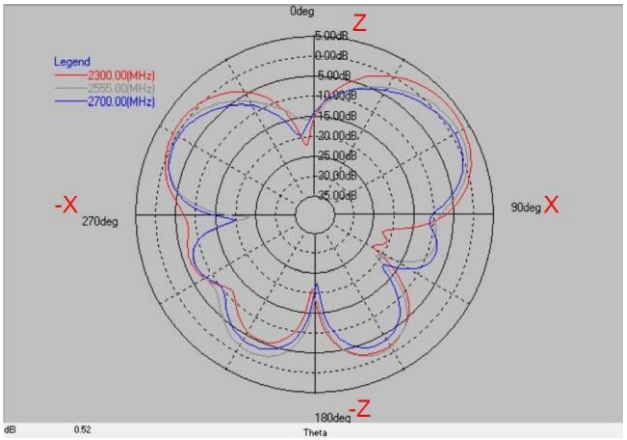
Layer	Max value	Min value	Average
1710(MHz)	-1.65 dB	-15.05 dB	-4.37 dB
1930(MHz)	2.59 dB	-21.40 dB	-2.33 dB
2170(MHz)	3.43 dB	-15.04 dB	-2.50 dB

Frequency(MHz)：1710~2170. Pattern Field：X-Y plane



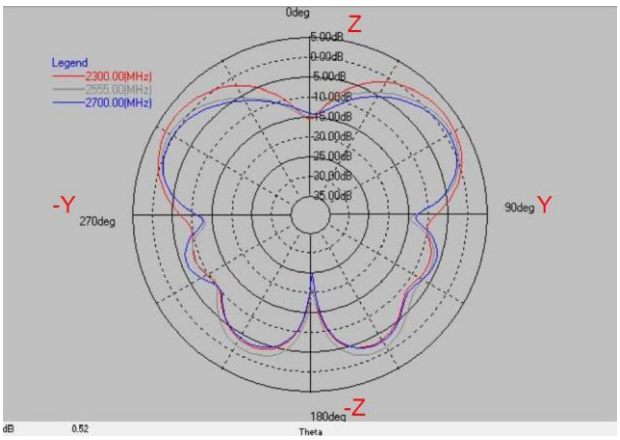
Layer	Max value	Min value	Average
1710(MHz)	-3.57 dB	-5.49 dB	-4.49 dB
1930(MHz)	-1.45 dB	-4.54 dB	-2.85 dB
2170(MHz)	-0.91 dB	-2.21 dB	-1.53 dB

Frequency(MHz)：2300~2700. Pattern Field：Z-X plane



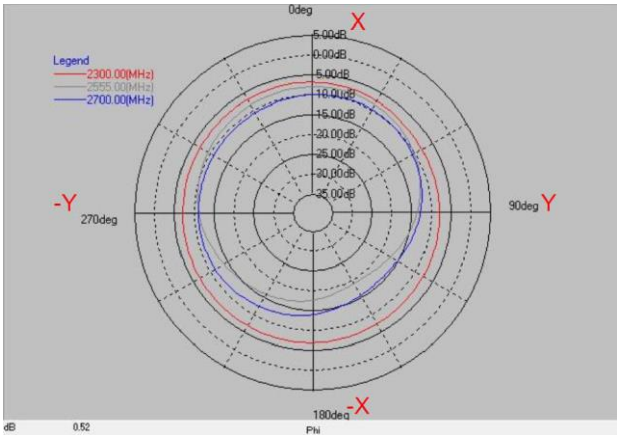
Layer	Max value	Min value	Average
2300(MHz)	3.48 dB	-23.31 dB	-2.83 dB
2555(MHz)	2.02 dB	-23.64 dB	-3.80 dB
2700(MHz)	0.79 dB	-22.71 dB	-4.96 dB

Frequency(MHz)：2300~2700. Pattern Field：Z-Y plane



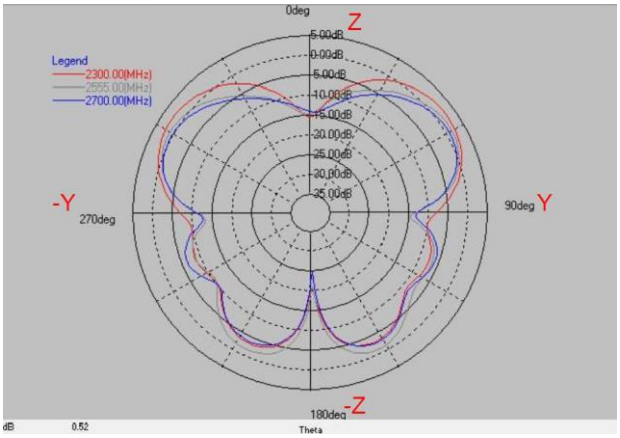
Layer	Max value	Min value	Average
2300(MHz)	2.66 dB	-20.71 dB	-2.81 dB
2555(MHz)	1.64 dB	-21.35 dB	-3.69 dB
2700(MHz)	0.80 dB	-25.15 dB	-4.63 dB

Frequency(MHz)：2300~2700. Pattern Field：X-Y plane



Layer	Max value	Min value	Average
2300(MHz)	-6.96 dB	-8.08 dB	-7.33 dB
2555(MHz)	-8.25 dB	-19.35 dB	-11.43 dB
2700(MHz)	-10.03 dB	-16.08 dB	-11.84 dB

Frequency(MHz)：3300~3800. Pattern Field：Z-X plane



Layer	Max value	Min value	Average
3300(MHz)	3.07 dB	-20.14 dB	-2.57 dB
3550(MHz)	3.26 dB	-24.17 dB	-2.51 dB
3800(MHz)	3.43 dB	-22.01 dB	-2.77 dB

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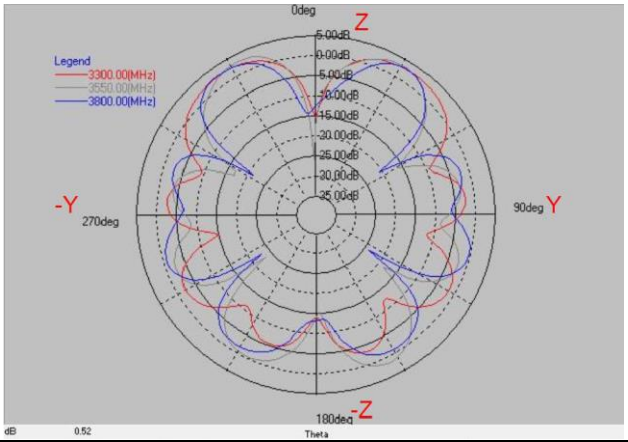
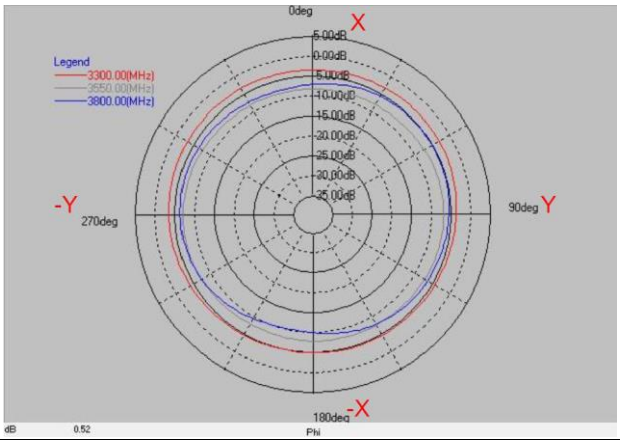
Frequency(MHz)：3300~3800. Pattern Field：Z-Y plane



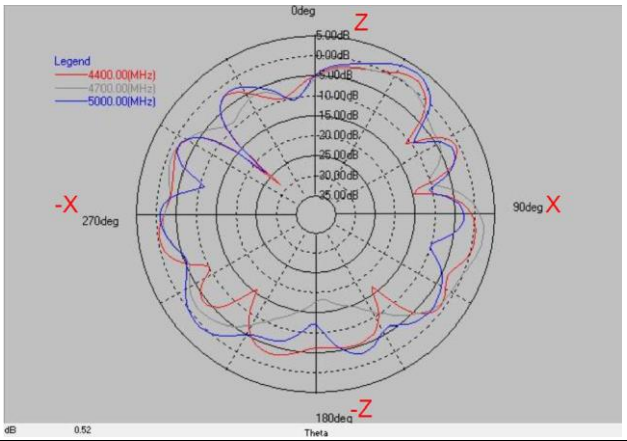
Layer	Max value	Min value	Average
3300(MHz)	2.85 dB	-15.41 dB	-2.31 dB
3550(MHz)	3.17 dB	-26.31 dB	-2.40 dB
3800(MHz)	3.01 dB	-24.18 dB	-2.64 dB

Frequency(MHz)：3300~3800. Pattern Field：X-Y plane



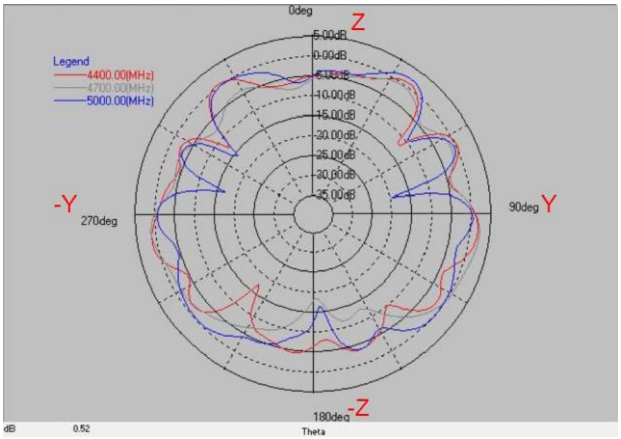
Layer	Max value	Min value	Average
3300(MHz)	-3.08 dB	-5.14 dB	-3.90 dB
3550(MHz)	-6.85 dB	-8.46 dB	-7.70 dB
3800(MHz)	-5.16 dB	-10.45 dB	-6.92 dB

Frequency(MHz)：4400~5000. Pattern Field：Z-X plane



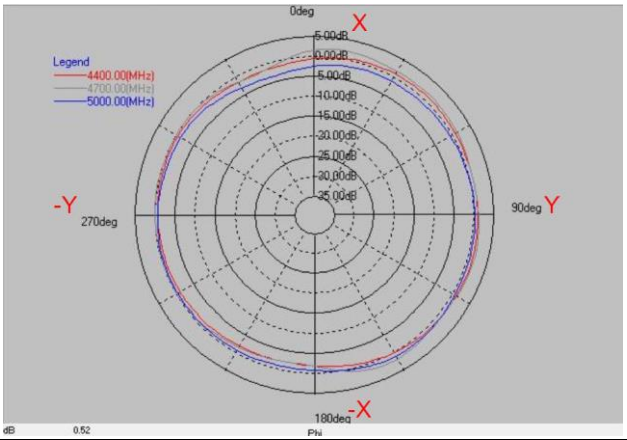
Layer	Max value	Min value	Average
4400(MHz)	2.11 dB	-28.32 dB	-3.84 dB
4700(MHz)	2.51 dB	-18.54 dB	-3.40 dB
5000(MHz)	3.59 dB	-23.84 dB	-3.01 dB

Frequency(MHz)：4400~5000. Pattern Field：Z-Y plane



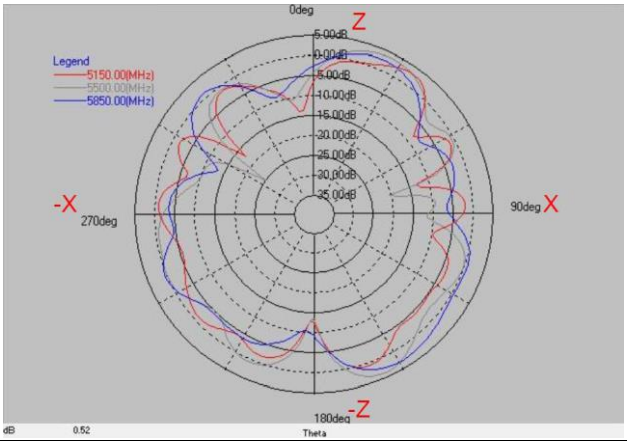
Layer	Max value	Min value	Average
4400(MHz)	1.97 dB	-17.60 dB	-2.70 dB
4700(MHz)	2.50 dB	-18.71 dB	-2.84 dB
5000(MHz)	2.13 dB	-19.53 dB	-2.61 dB

Frequency(MHz)：4400~5000. Pattern Field：X-Y plane



Layer	Max value	Min value	Average
4400(MHz)	1.22 dB	-2.37 dB	-0.27 dB
4700(MHz)	1.93 dB	-2.41 dB	0.43 dB
5000(MHz)	1.00 dB	-3.76 dB	-0.68 dB

Frequency(MHz)：5150~5850. Pattern Field：Z-X plane



Layer	Max value	Min value	Average
5150(MHz)	3.06 dB	-17.47 dB	-2.82 dB
5500(MHz)	3.71 dB	-25.19 dB	-1.36 dB
5850MHz)	2.94 dB	-13.40 dB	-1.46 dB

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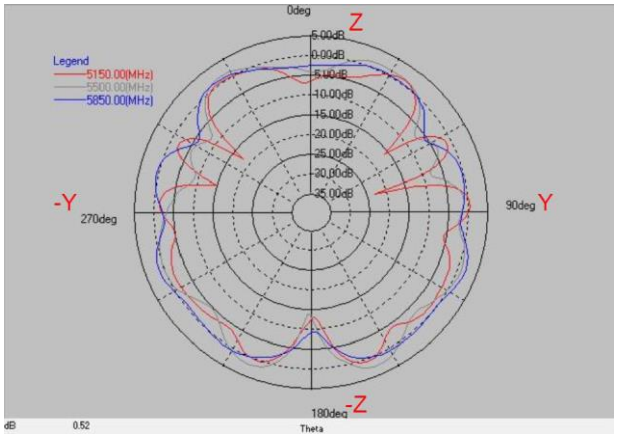
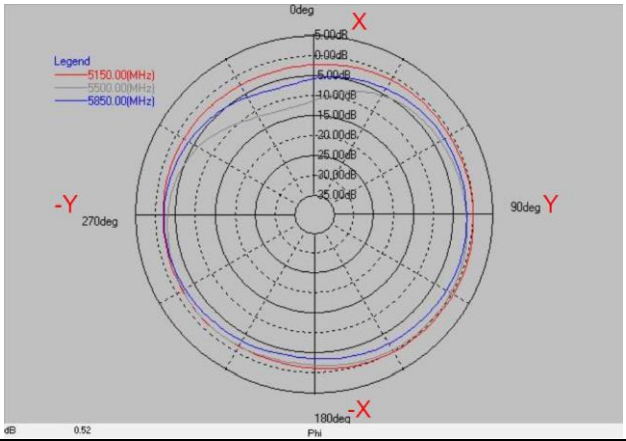
Frequency(MHz)：5150~5850. Pattern Field：Z-Y plane



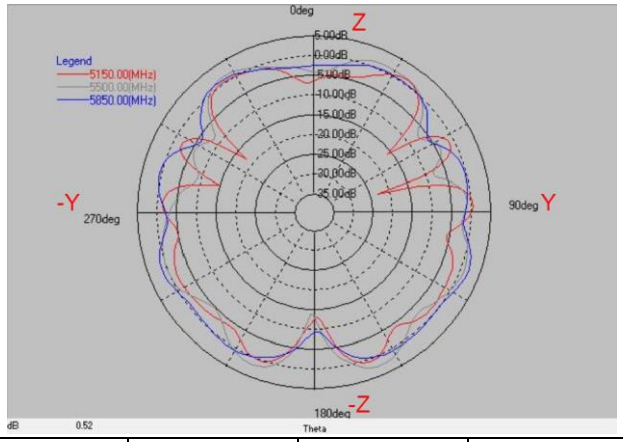
Layer	Max value	Min value	Average
5150(MHz)	1.20 dB	-23.10 dB	-2.62 dB
5500(MHz)	2.46 dB	-13.93 dB	-1.33 dB
5850MHz)	2.03 dB	-9.55 dB	-0.79 dB

Frequency(MHz)：5150~5850. Pattern Field：X-Y plane



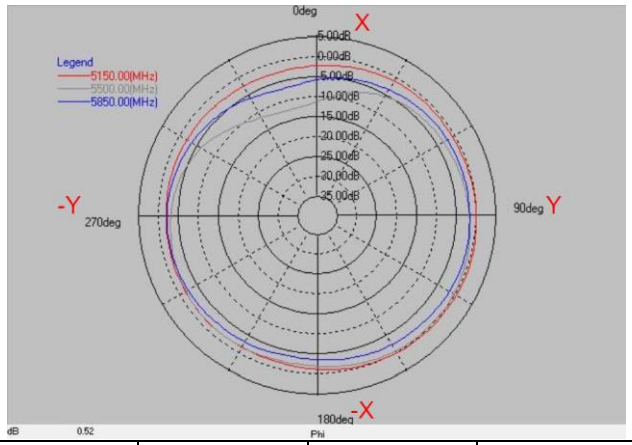
Layer	Max value	Min value	Average
5150(MHz)	0.43 dB	-2.78 dB	-1.15 dB
5500(MHz)	-0.23 dB	-12.82 dB	-3.00 dB
5850MHz)	-1.38 dB	-7.14 dB	-2.99 dB

Frequency(MHz)：5150~5850. Pattern Field：Z-Y plane



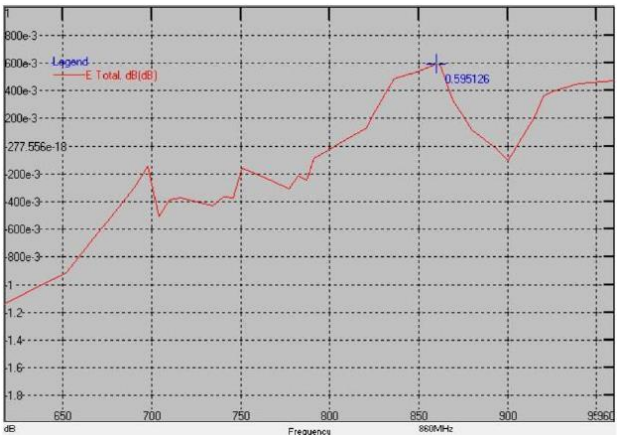
Layer	Max value	Min value	Average
5150(MHz)	1.20 dB	-23.10 dB	-2.62 dB
5500(MHz)	2.46 dB	-13.93 dB	-1.33 dB
5850MHz)	2.03 dB	-9.55 dB	-0.79 dB

Frequency(MHz)：5150~5850. Pattern Field：X-Y plane

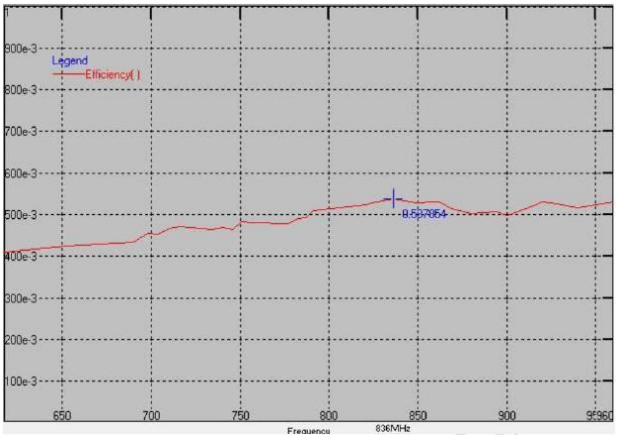


Layer	Max value	Min value	Average
5150(MHz)	0.43 dB	-2.78 dB	-1.15 dB
5500(MHz)	-0.23 dB	-12.82 dB	-3.00 dB
5850MHz)	-1.38 dB	-7.14 dB	-2.99 dB

3D Peak Gain



3D Efficiency



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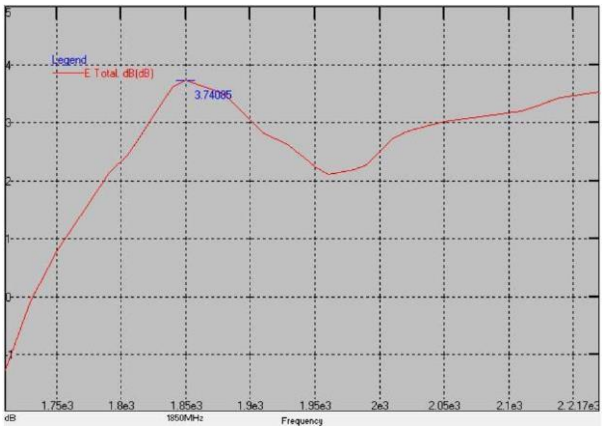
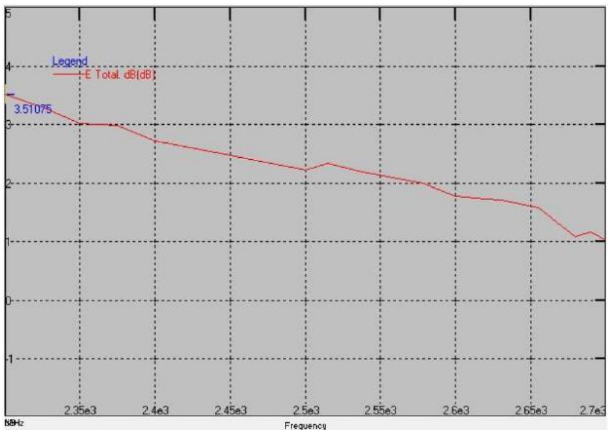
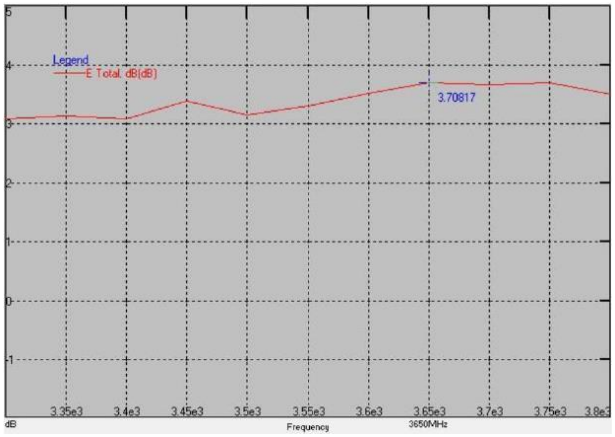
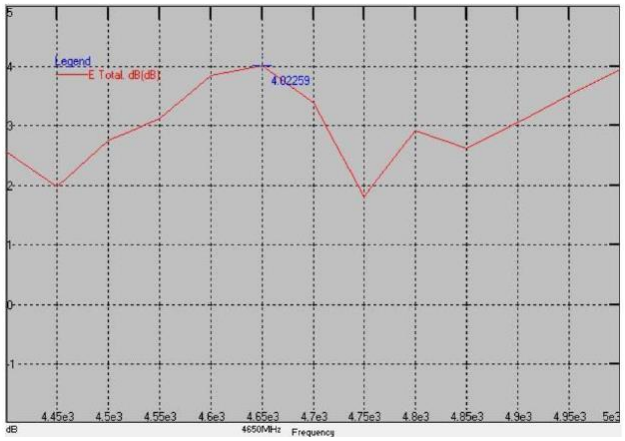
3D Peak Gain

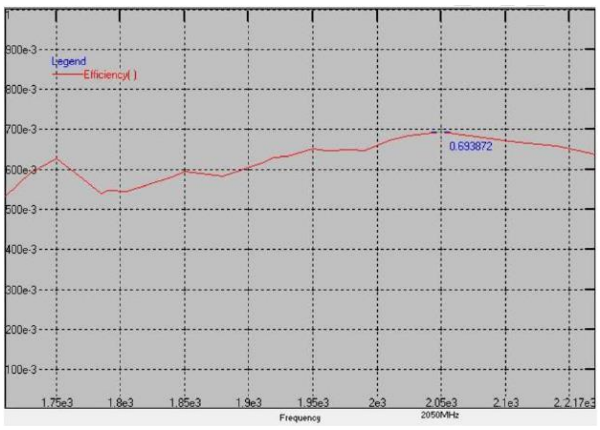


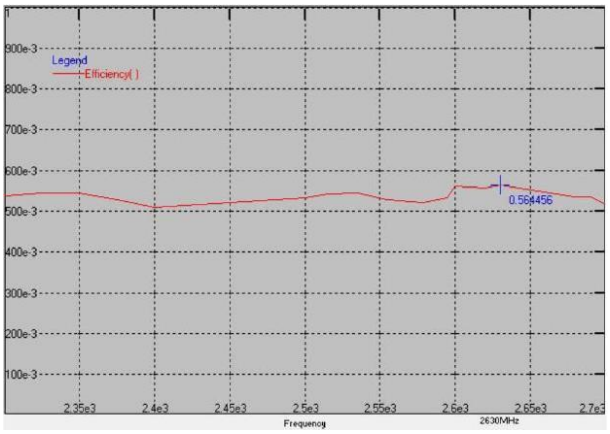


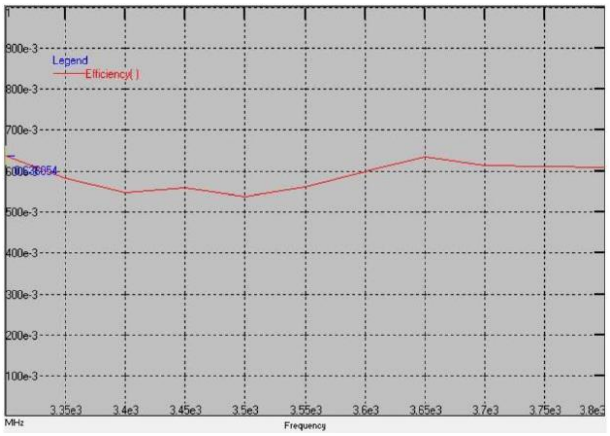


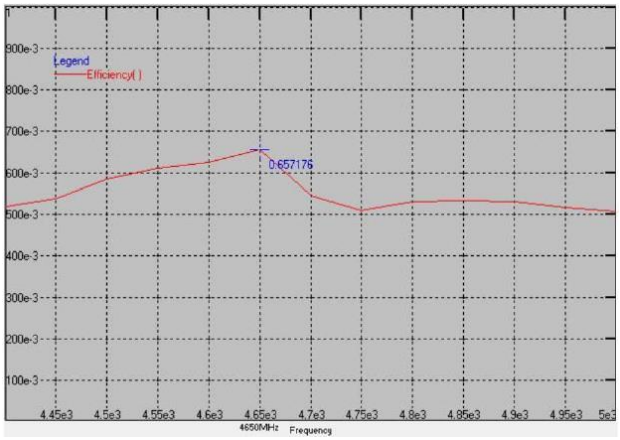


3D Efficiency









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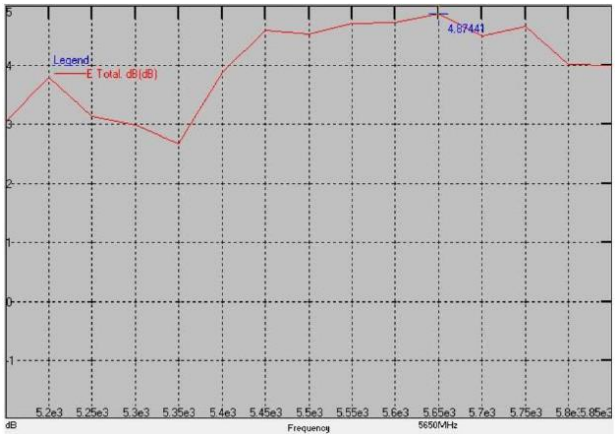
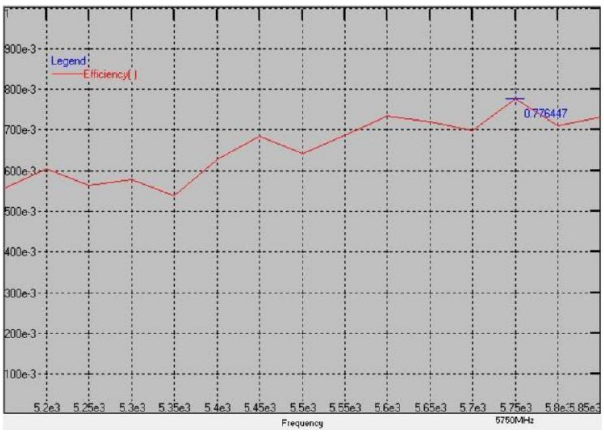
3D Peak Gain



3D Efficiency



Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)	Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
617	-1.14	41	2620	1.73	56
690	-0.30	43	2630	1.71	56
710	-0.39	45	2655	1.59	55
716	-0.38	47	2680	1.08	54
740	-0.36	47	2690	1.17	53
756	-0.19	47	2700	1.03	52
791	-0.09	48	3300	3.09	64
824	0.22	51	3350	3.14	58
836	0.48	53	3400	3.09	55
869	0.34	54	3450	3.39	56
880	0.12	51	3500	3.15	54
894	-0.02	50	3550	3.30	56
915	0.21	51	3600	3.52	60
920	0.36	50	3650	3.71	63
925	0.40	52	3700	3.67	61
940	0.45	53	3750	3.70	61
960	0.47	53	3800	3.50	61
1710	-1.27	53	4400	2.56	52
1750	0.79	63	4450	1.99	54
1785	1.95	54	4500	2.75	59
1805	2.44	55	4550	3.12	61
1840	3.62	58	4600	3.86	63
1880	3.50	58	4650	4.02	66
1910	2.82	62	4700	3.39	54
1930	2.60	63	4750	1.81	51
1950	2.25	65	4800	2.92	53
1980	2.20	65	4850	2.62	53
1990	2.28	65	4900	3.06	53
2010	2.73	67	4950	3.51	52
2025	2.87	69	5000	3.96	51
2050	3.03	69	5150	3.06	56
2110	3.21	67	5200	3.81	60
2140	3.43	66	5250	3.14	56
2170	3.54	64	5300	3.00	58
2300	3.51	54	5350	2.67	54
2325	3.30	55	5400	3.88	63
2350	3.03	54	5450	4.60	69
2375	2.99	53	5500	4.52	64
2400	2.72	51	5550	4.71	69
2500	2.23	53	5600	4.73	73
2515	2.34	54	5650	4.87	72
2535	2.21	54	5700	4.49	70
2555	2.12	53	5750	4.66	78
2579	1.99	52	5800	4.01	71
2595	1.83	53	5850	3.99	73

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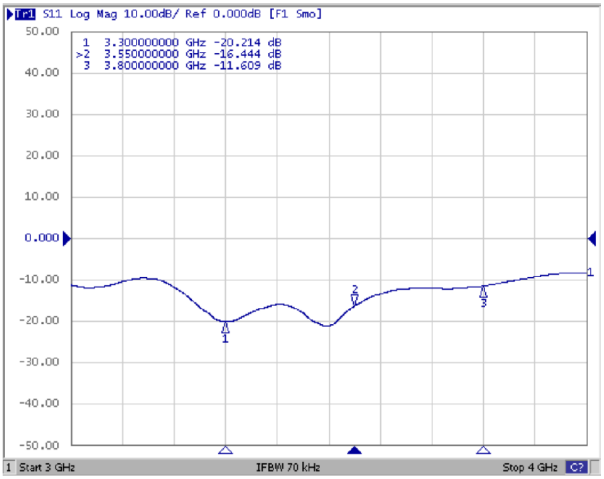
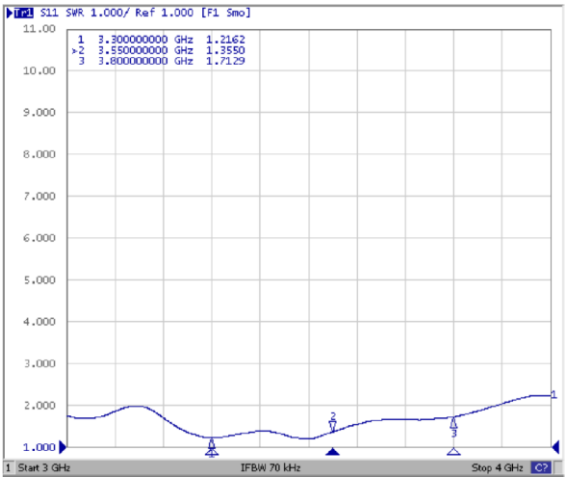
BTPA0012353G8C1A01

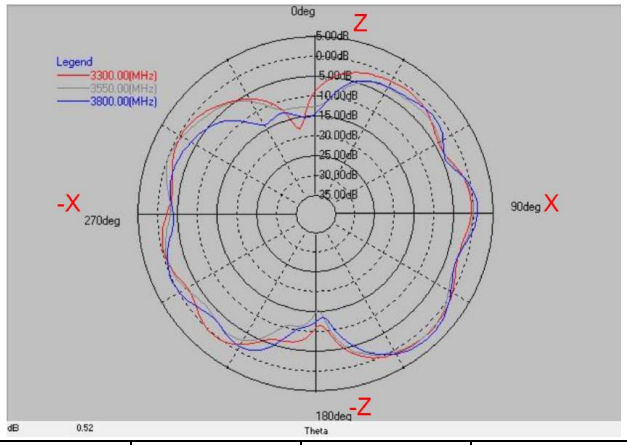
Return Loss S11



VSWR

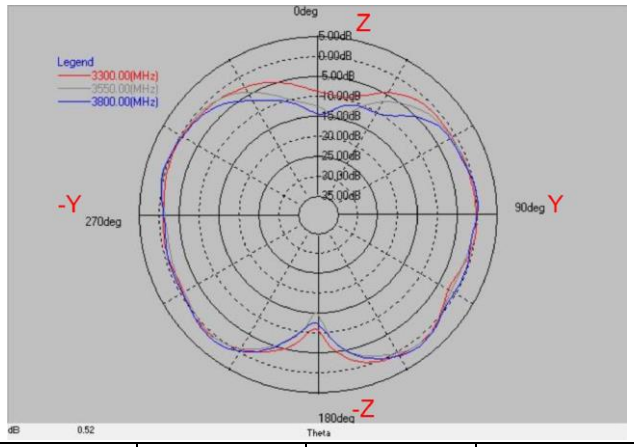


Frequency(MHz)：3300~3800. Pattern Field：Z-X plane



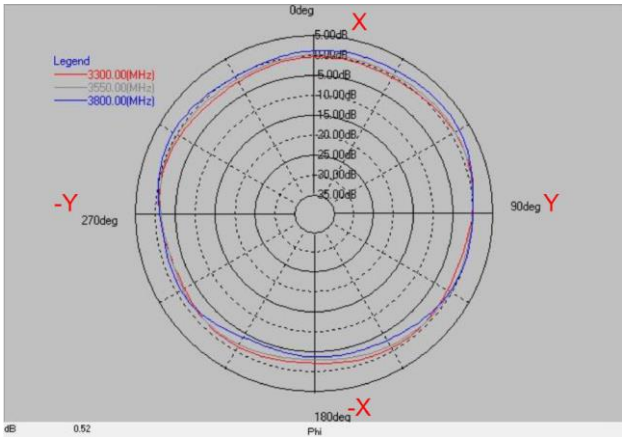
Layer	Max value	Min value	Average
3300(MHz)	1.64 dB	-18.30 dB	-2.05 dB
3550(MHz)	1.57 dB	-15.56 dB	-2.64 dB
3800(MHz)	2.53 dB	-15.60 dB	-2.45 dB

Frequency(MHz)：3300~3800. Pattern Field：Z-Y plane



Layer	Max value	Min value	Average
3300(MHz)	1.20 dB	-11.32 dB	-1.61 dB
3550(MHz)	1.32 dB	-15.16 dB	-1.97 dB
3800(MHz)	1.77 dB	-14.75 dB	-1.85 dB

Frequency(MHz)：3300~3800. Pattern Field：X-Y plane



Layer	Max value	Min value	Average
3300(MHz)	1.04 dB	-2.36 dB	-0.90 dB
3550(MHz)	1.14 dB	-3.17 dB	-0.72 dB
3800(MHz)	2.33 dB	-4.43 dB	-0.27 dB

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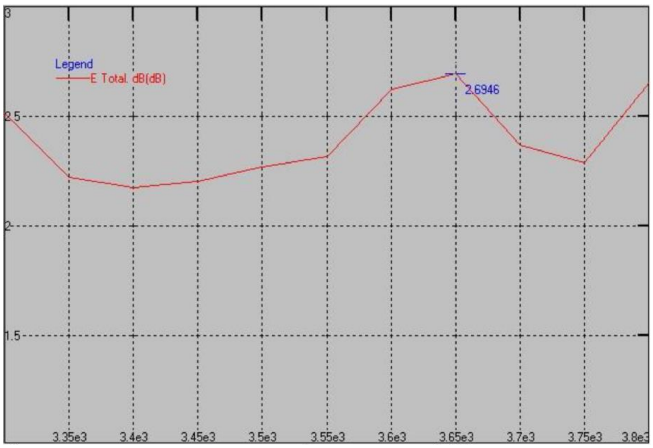
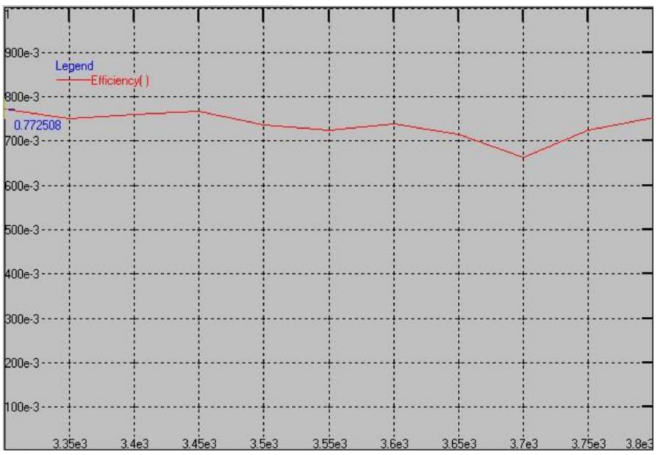
3D Peak Gain



3D Efficiency



Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)	Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
3300	2.51	77	3600	2.62	74
3350	2.22	75	3650	2.69	71
3400	2.17	76	3700	2.37	66
3450	2.20	77	3750	2.29	72
3500	2.27	74	3800	2.66	75
3550	2.31	72			

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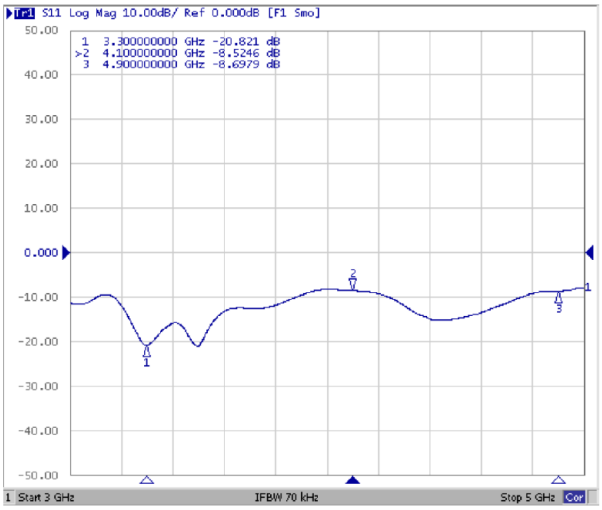
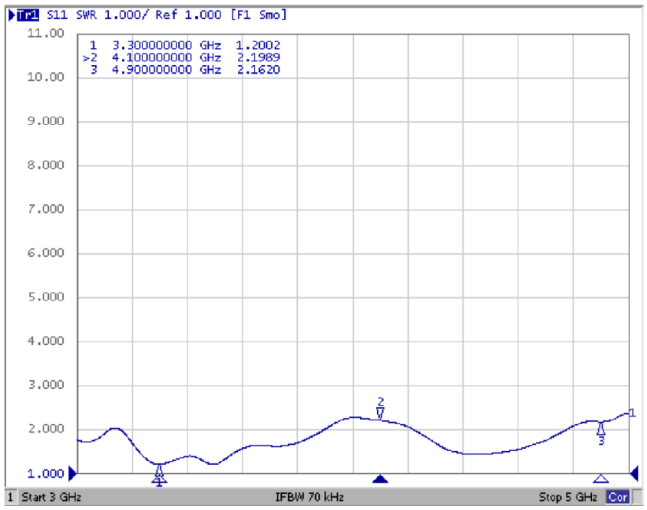
CHILISIN ELECTRONICS CORP.

BTPA0012353G9C1A01

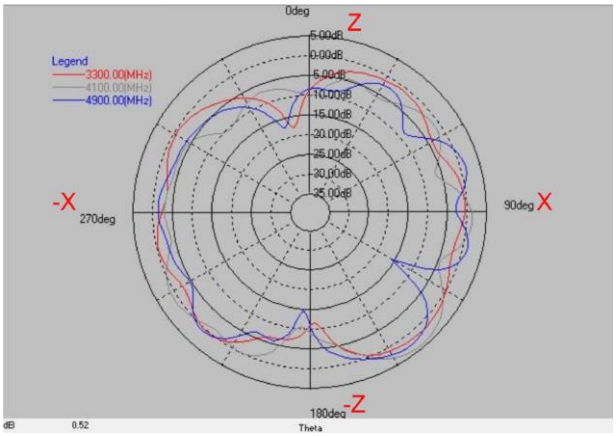
Return Loss S11



VSWR

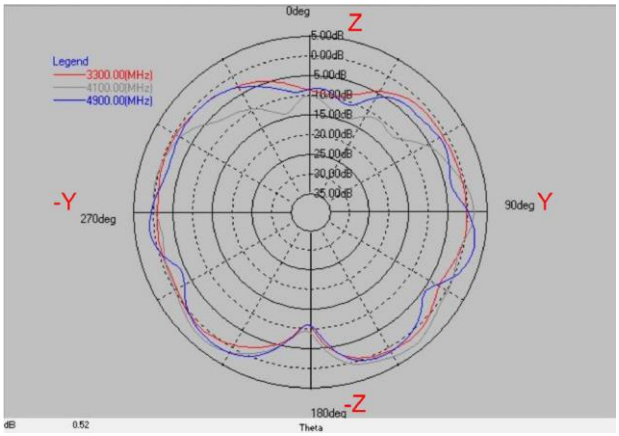


Frequency(MHz)：3300~4900. Pattern Field：Z-X plane



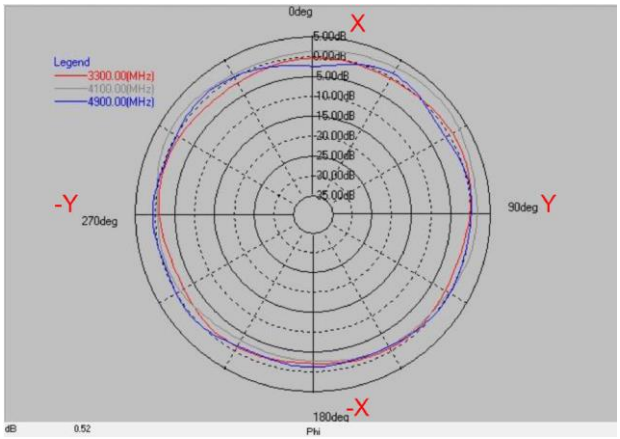
Layer	Max value	Min value	Average
3300(MHz)	1.64 dB	-18.30 dB	-2.05 dB
4100(MHz)	4.25 dB	-10.87 dB	-1.96 dB
4900(MHz)	2.55 dB	-17.75 dB	-2.61 dB

Frequency(MHz)：3300~4900. Pattern Field：Z-Y plane



Layer	Max value	Min value	Average
3300(MHz)	1.20 dB	-11.32 dB	-1.61 dB
4100(MHz)	3.09 dB	-14.42 dB	-1.47 dB
4900(MHz)	2.63 dB	-11.22 dB	-1.61 dB

Frequency(MHz)：3300~4900. Pattern Field：X-Y plane



Layer	Max value	Min value	Average
3300(MHz)	1.04 dB	-2.36 dB	-0.90 dB
4100(MHz)	3.30 dB	-3.22 dB	0.54 dB
4900(MHz)	0.90 dB	-2.60 dB	-0.39 dB

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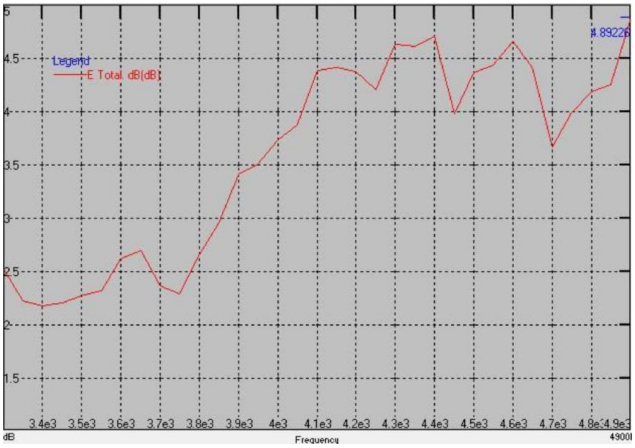
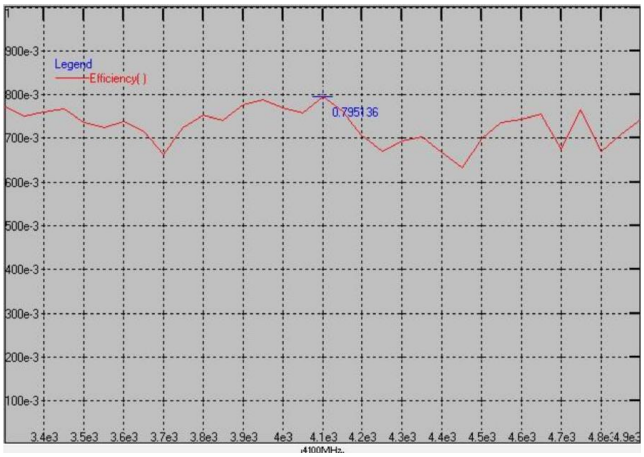
3D Peak Gain



3D Efficiency



Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)	Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
3300	2.51	77	4200	4.38	70
3400	2.17	76	4300	4.63	69
3500	2.27	74	4400	4.71	67
3600	2.62	74	4500	4.37	70
3700	2.37	66	4600	4.66	74
3800	2.66	75	4700	3.67	68
3900	3.42	78	4800	4.19	67
4000	3.74	77	4900	4.89	74
4100	4.39	80			

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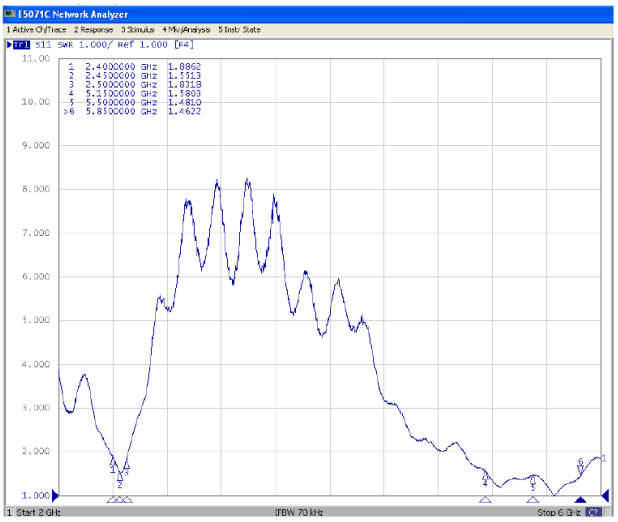
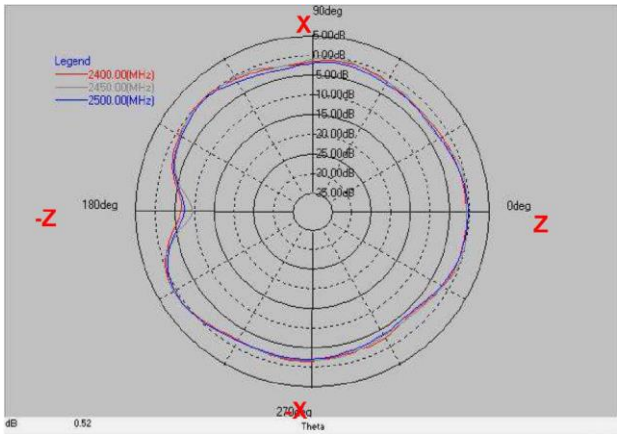
BTPA00221425GC1A09

VSWR S11

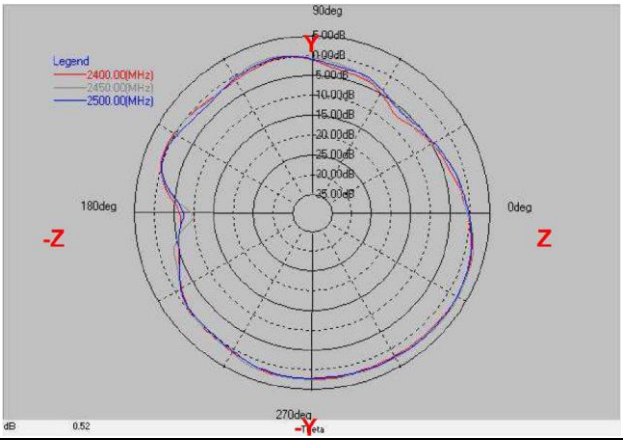


Frequency(MHz)：2400~2500. Pattern Field：Z-X plane



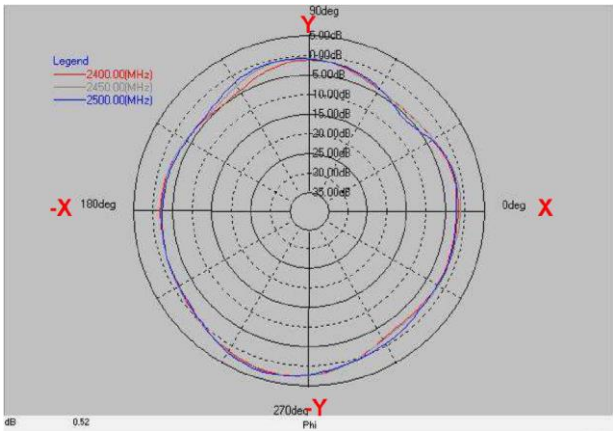
Layer	Max value	Min value	Average
2400(MHz)	0.74 dB	-6.70 dB	-1.60 dB
2450(MHz)	0.87 dB	-9.48 dB	-1.56 dB
2500(MHz)	0.53 dB	-7.47 dB	-1.94 dB

Frequency(MHz)：2400~2500. Pattern Field：Z-Y plane



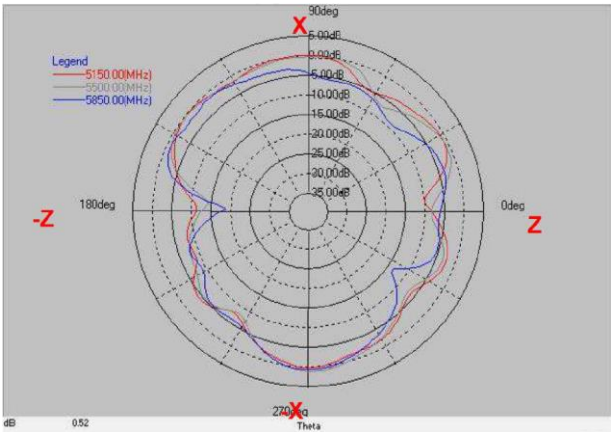
Layer	Max value	Min value	Average
2400(MHz)	2.49 dB	-7.36 dB	-0.29 dB
2450(MHz)	2.78 dB	-9.89 dB	0.00 dB
2500(MHz)	2.58 dB	-7.45 dB	-0.27 dB

Frequency(MHz)：2400~2500. Pattern Field：X-Y plane



Layer	Max value	Min value	Average
2400(MHz)	2.59 dB	-5.00 dB	-1.36 dB
2450(MHz)	2.75 dB	-4.41 dB	-1.11 dB
2500(MHz)	2.86 dB	-6.11 dB	-1.14 dB

Frequency(MHz)：5150~5850. Pattern Field：Z-X plane



Layer	Max value	Min value	Average
5150(MHz)	0.07 dB	-11.31 dB	-2.91 dB
5500(MHz)	1.03 dB	-14.22 dB	-2.85 dB
5850(MHz)	0.55 dB	-18.79 dB	-4.20 dB

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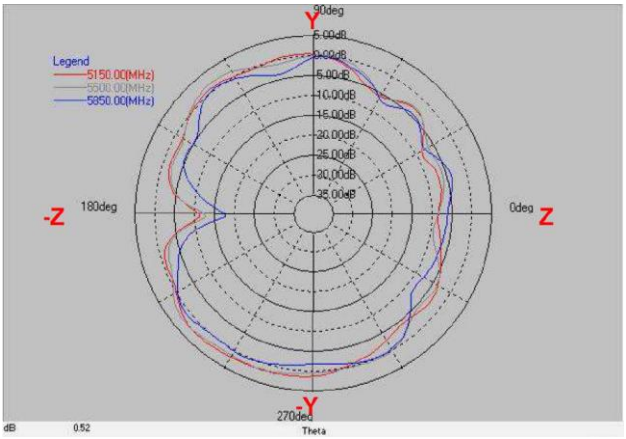
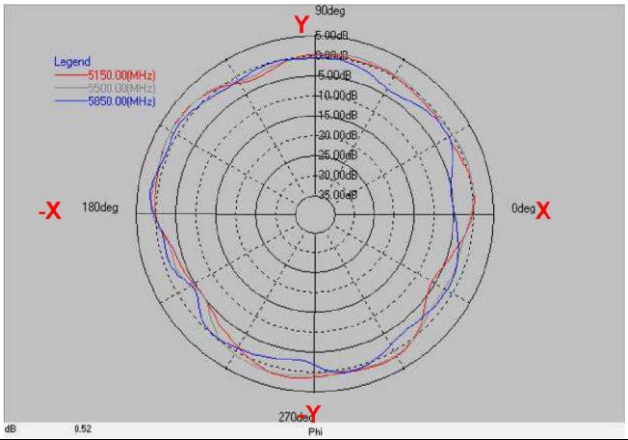
Frequency(MHz)：5150~5850. Pattern Field：Z-Y plane



Layer	Max value	Min value	Average
5150(MHz)	2.40 dB	-11.30 dB	-1.43 dB
5500(MHz)	2.53 dB	-12.84 dB	-1.28 dB
5850(MHz)	0.87 dB	-17.84 dB	-2.76 dB

Frequency(MHz)：5150~5850. Pattern Field：X-Y plane



Layer	Max value	Min value	Average
5150(MHz)	1.84 dB	-5.87 dB	-0.47 dB
5500(MHz)	1.80 dB	-5.26 dB	-0.09 dB
5850(MHz)	1.86 dB	-5.27 dB	-1.23 dB

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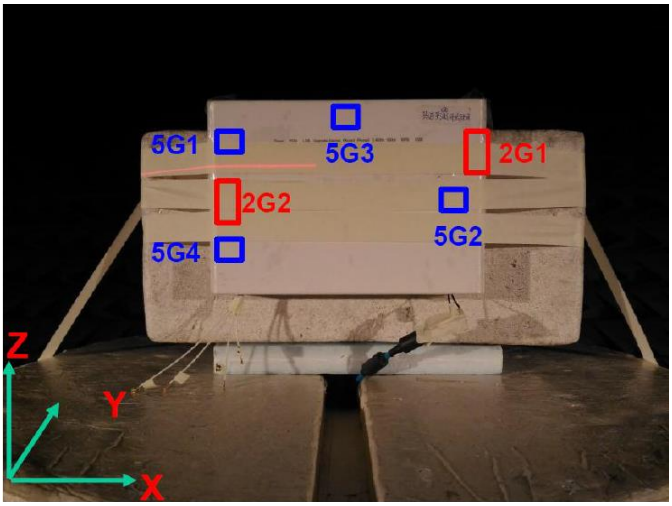
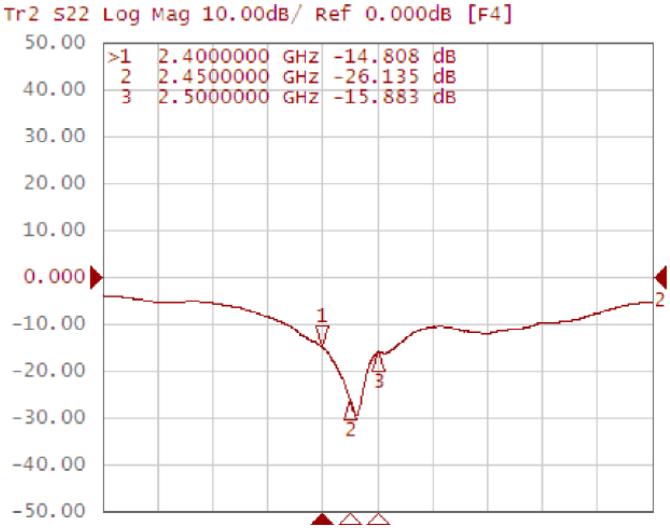
BTPA0030082G4C1A04

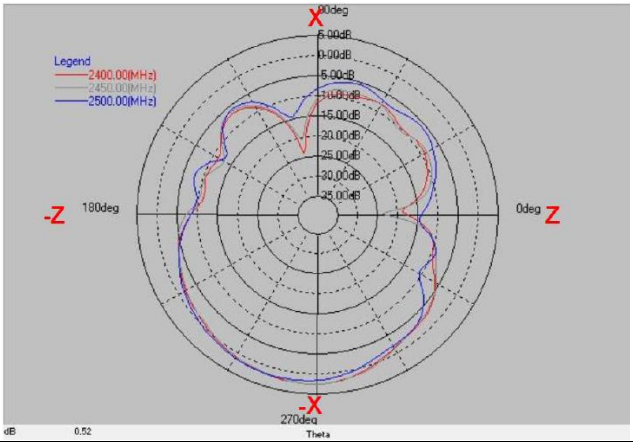
Experimental Setup



VSWR S22

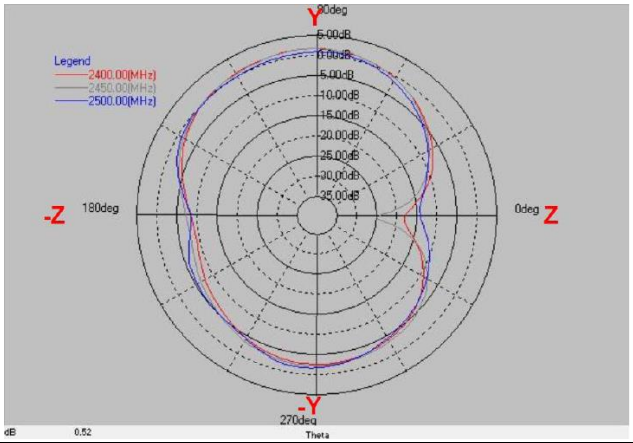


Frequency(MHz)：2400~2500. Pattern Field：Z-X plane



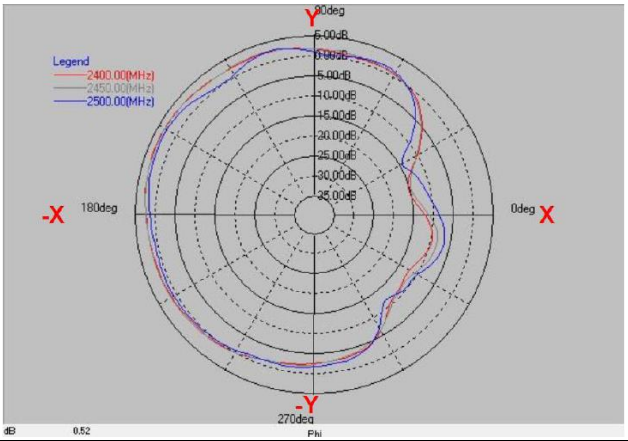
Layer	Max value	Min value	Average
2400(MHz)	2.37 dB	-24.24 dB	-3.61 dB
2450(MHz)	2.34 dB	-23.93 dB	-3.60 dB
2500(MHz)	1.81 dB	-14.70 dB	-3.64 dB

Frequency(MHz)：2400~2500. Pattern Field：Z-Y plane



Layer	Max value	Min value	Average
2400(MHz)	1.51 dB	-18.08 dB	-3.04 dB
2450(MHz)	1.53 dB	-25.15 dB	-2.83 dB
2500(MHz)	0.69 dB	-14.21 dB	-3.16 dB

Frequency(MHz)：2400~2500. Pattern Field：X-Y plane



Layer	Max value	Min value	Average
2400(MHz)	3.37 dB	-15.39 dB	-0.20 dB
2450(MHz)	3.25 dB	-14.73 dB	-0.14 dB
2500(MHz)	2.75 dB	-14.49 dB	-0.72 dB

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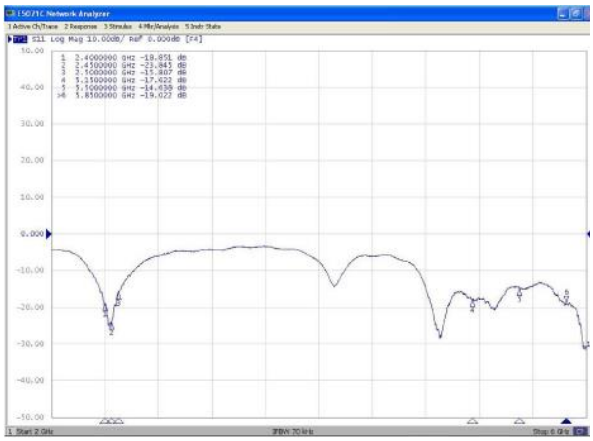
Pulse a YAGEO company

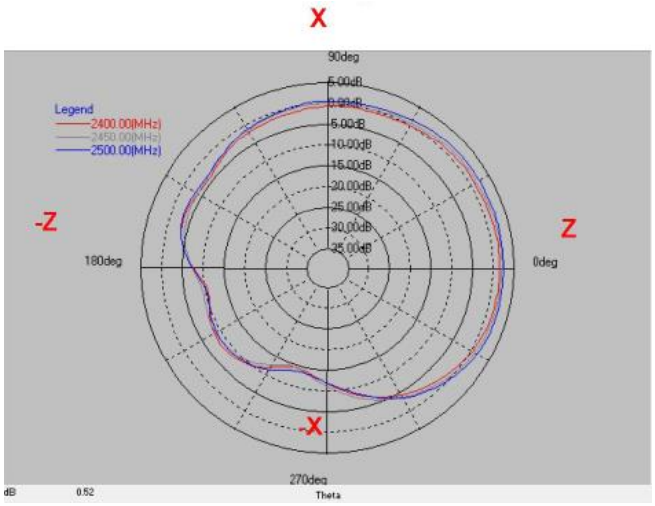
CHILISIN ELECTRONICS CORP.

BTPA00420725GC1A04

Return Loss

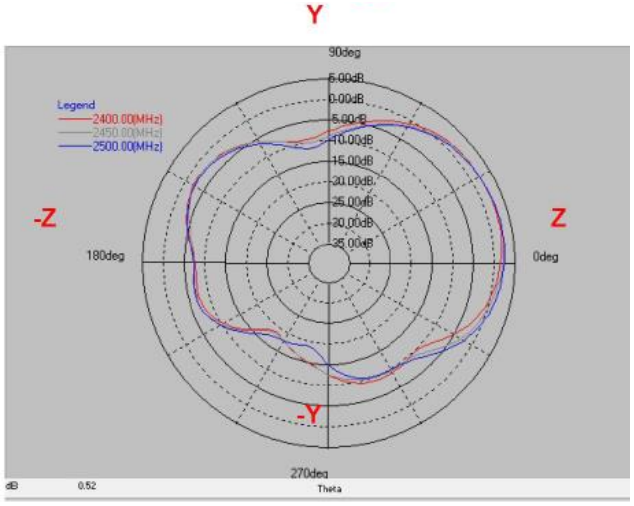


Frequency(MHz)：2400~2500. Pattern Field：Z-X plane



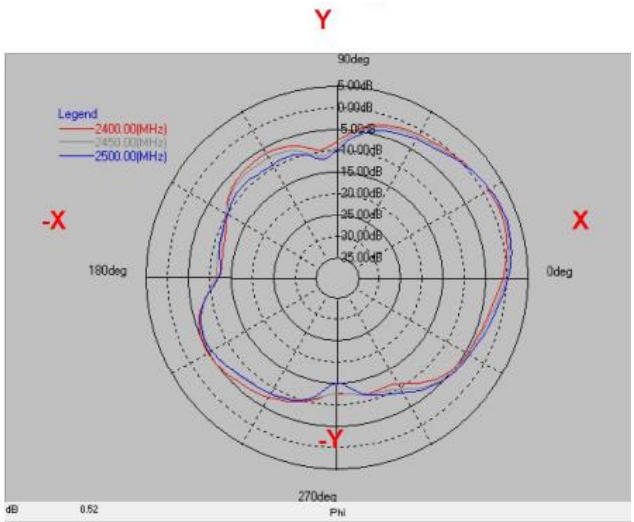
Layer	Max value	Min value	Average
2400(MHz)	1.66 dB	-14.74 dB	-2.07 dB
2450(MHz)	2.26 dB	-14.76 dB	-1.53 dB
2500(MHz)	2.58 dB	-14.02 dB	-1.02 dB

Frequency(MHz)：2400~2500. Pattern Field：Z-Y plane



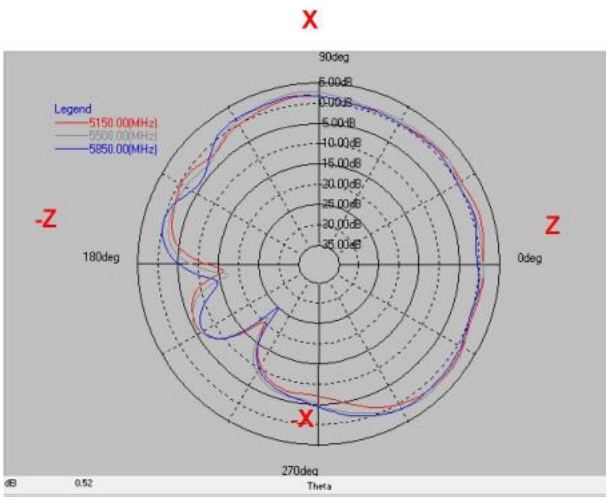
Layer	Max value	Min value	Average
2400(MHz)	2.42 dB	-18.93 dB	-3.22 dB
2450(MHz)	2.73 dB	-18.60 dB	-3.11 dB
2500(MHz)	2.82 dB	-19.18 dB	-3.03 dB

Frequency(MHz)：2400~2500. Pattern Field：X-Y plane



Layer	Max value	Min value	Average
2400(MHz)	1.64 dB	-12.87 dB	-4.24 dB
2450(MHz)	2.07 dB	-21.91 dB	-4.24 dB
2500(MHz)	2.28 dB	-15.30 dB	-4.22 dB

Frequency(MHz)：5150~5850. Pattern Field：Z-X plane



Layer	Max value	Min value	Average
5150(MHz)	1.95 dB	-19.79 dB	-0.87 dB
5500(MHz)	2.82 dB	-22.02 dB	-0.54 dB
5850(MHz)	1.93 dB	-25.20 dB	-0.86 dB

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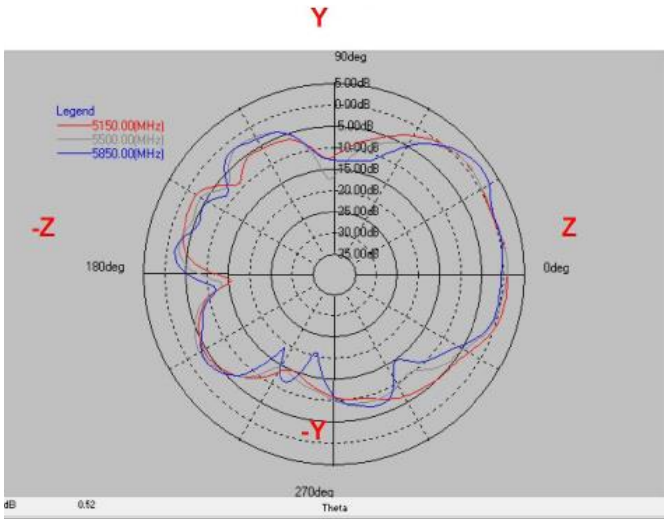
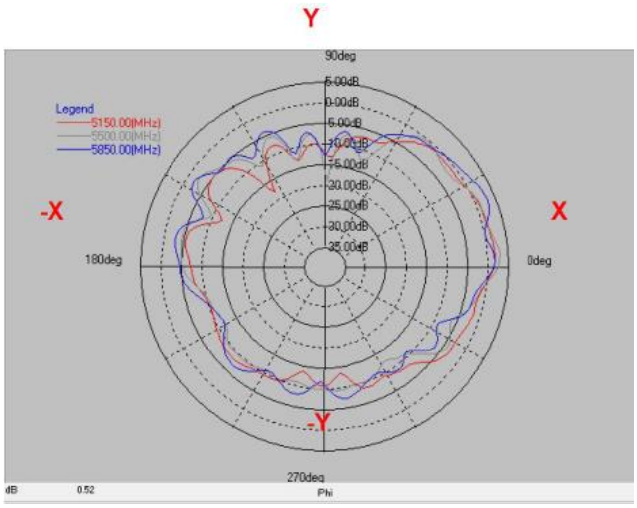
Frequency(MHz)：5150~5850. Pattern Field：Z-Y plane



Layer	Max value	Min value	Average
5150(MHz)	1.17 dB	-15.67 dB	-3.69 dB
5500(MHz)	1.07 dB	-17.54 dB	-3.84 dB
5850(MHz)	2.86 dB	-21.22 dB	-3.87 dB

Frequency(MHz)：5150~5850. Pattern Field：X-Y plane



Layer	Max value	Min value	Average
5150(MHz)	1.84 dB	-18.20 dB	-4.72 dB
5500(MHz)	3.11 dB	-19.19 dB	-4.54 dB
5850(MHz)	3.12 dB	-13.07 dB	-3.99 dB

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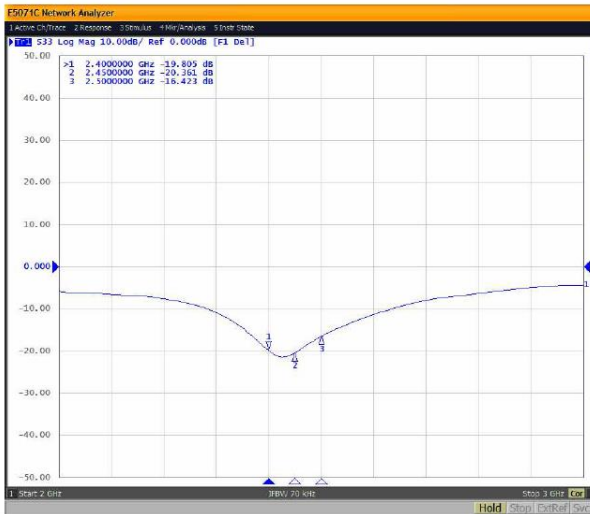
Pulse a YAGEO company

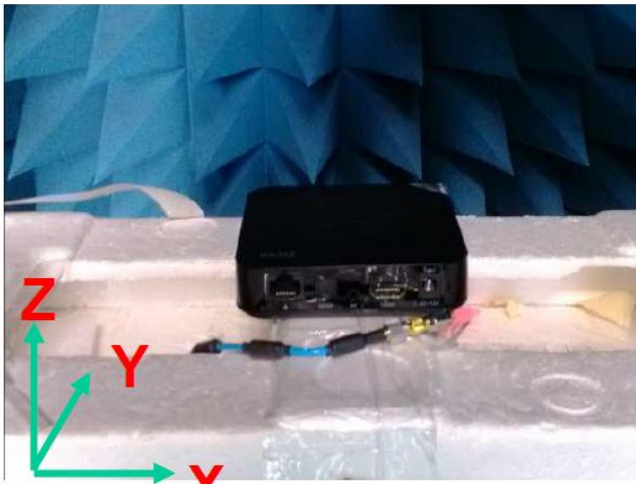
CHILISIN ELECTRONICS CORP.

BTPA0046062G4C1B03

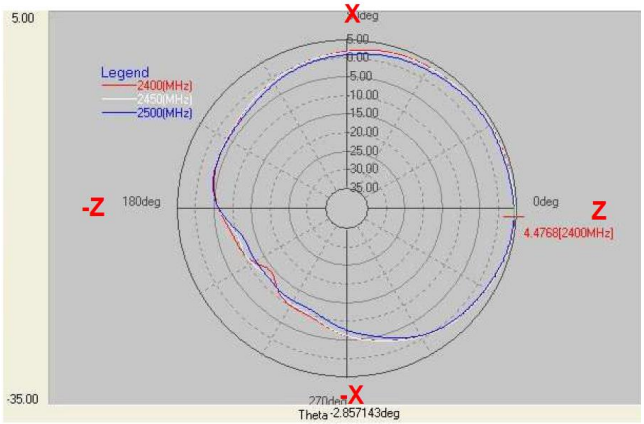
Return Loss



Experimental Setup

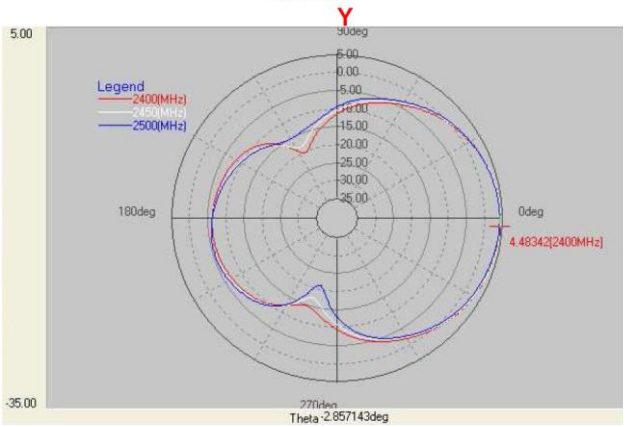


Frequency(MHz)：2400~2500. Pattern Field：X-Z plane



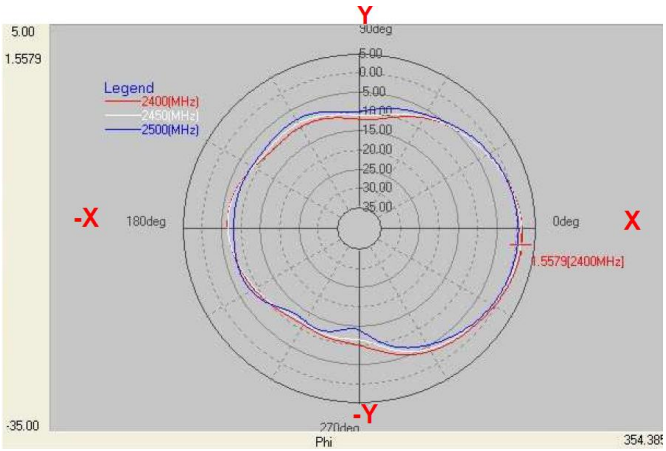
Layer	Max value	Average
2400(MHz)	4.48 dB	0.47 dB
2450(MHz)	4.61 dB	0.47 dB
2500(MHz)	4.35 dB	0.03 dB

Frequency(MHz)：2400~2500. Pattern Field：Y-Z plane



Layer	Max value	Average
2400(MHz)	4.48 dB	-1.74 dB
2450(MHz)	4.58 dB	-1.71 dB
2500(MHz)	4.28 dB	-1.89 dB

Frequency(MHz)：2400~2500. Pattern Field：X-Y plane



Layer	Max value	Average
2400(MHz)	1.56 dB	-4.52 dB
2450(MHz)	1.33 dB	-4.76 dB
2500(MHz)	0.58 dB	-4.93 dB

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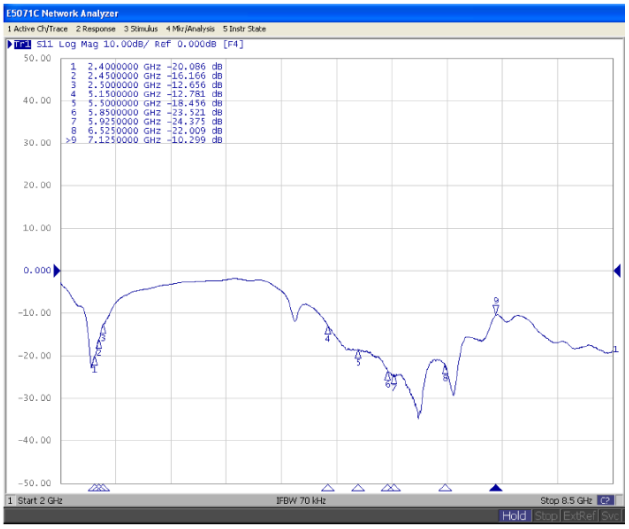
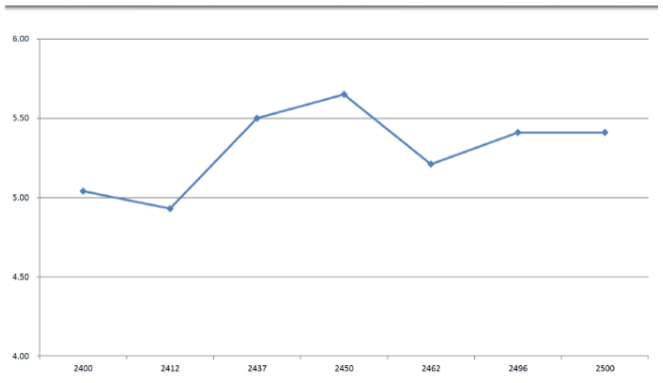
CHILISIN ELECTRONICS CORP.

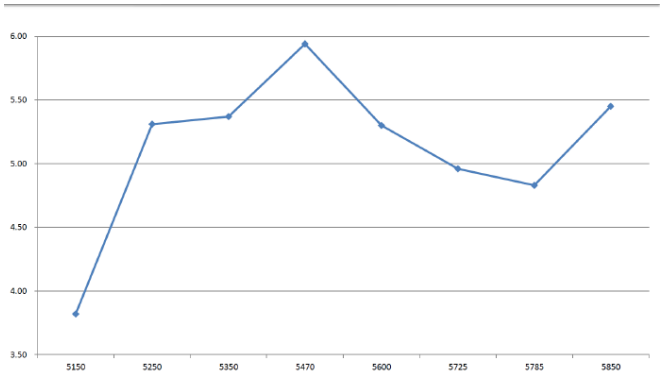
BTPA0052116G0C1A01

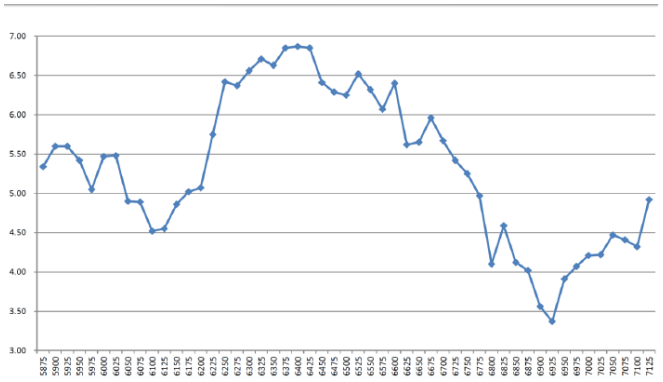
Return Loss



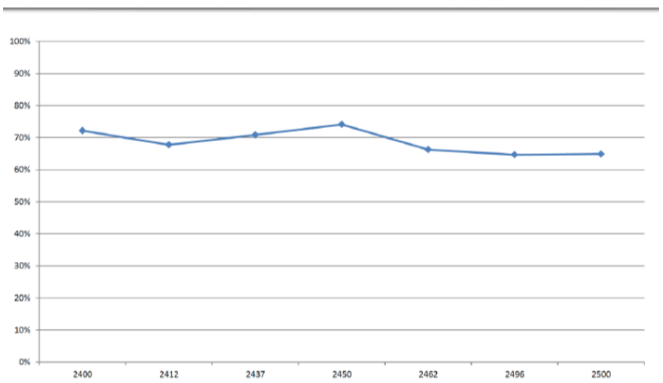
3D Peak Gain

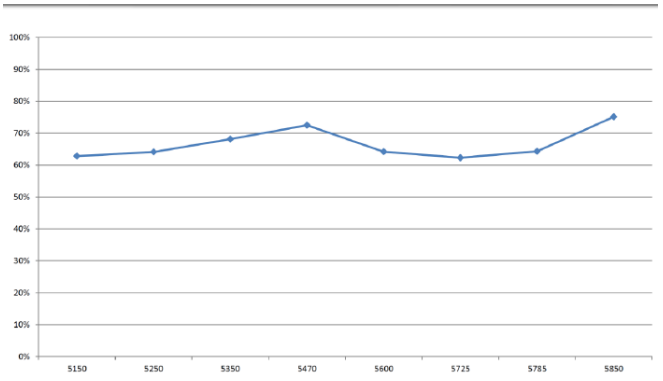


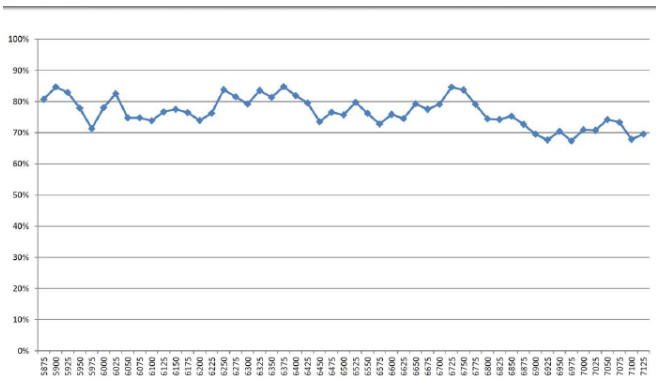




3D Efficiency







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CHILISIN ELECTRONICS CORP.

PCB Antenna BTPA Series

Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)	Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400	5.04	72	6325	6.71	84
2412	4.93	68	6350	6.63	81
2437	5.50	71	6375	6.85	85
2450	5.65	74	6400	6.87	82
2462	5.21	66	6425	6.85	80
2496	5.41	65	6450	6.41	74
2500	5.41	65	6475	6.29	77
5150	3.82	63	6500	6.25	76
5250	5.31	64	6525	6.52	80
5350	5.37	68	6550	6.32	76
5470	5.94	73	6575	6.07	73
5600	5.30	64	6600	6.40	76
5725	4.96	62	6625	5.62	75
5785	4.83	64	6650	5.65	79
5850	5.45	75	6675	5.96	78
5875	5.34	81	6700	5.67	79
5900	5.60	85	6725	5.42	85
5925	5.60	83	6750	5.25	84
5950	5.42	78	6775	4.97	79
5975	5.05	71	6800	4.10	74
6000	5.47	78	6825	4.59	74
6025	5.48	83	6850	4.12	75
6050	4.90	75	6875	4.02	73
6075	4.89	75	6900	3.56	70
6100	4.52	74	6925	3.37	68
6125	4.55	77	6950	3.91	70
6150	4.86	78	6975	4.07	67
6175	5.02	76	7000	4.21	71
6200	5.07	74	7025	4.22	71
6225	5.75	76	7050	4.47	74
6250	6.42	84	7075	4.41	73
6275	6.37	82	7100	4.32	68
6300	6.56	79	7125	4.92	70

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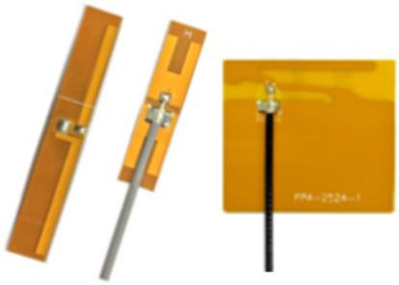
CHILISIN ELECTRONICS CORP.

BTFA Series



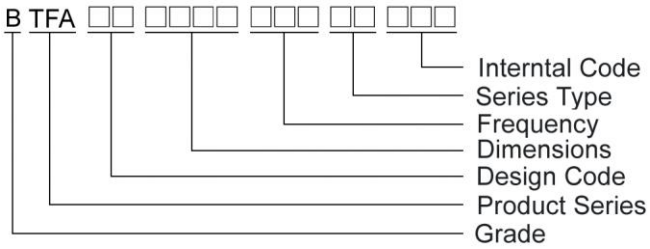
Features

- Small size low-profile, low cost and lightweight type
- Wide bandwidth and Omni-directional
- Supported with Dip-type, SMD, and Co-axial cable connecting
- Customized

Applications

- Bluetooth, Wireless Router, Set Top Box and Home digital
- ISM band, Lora, Sigfox, LTE, NB-IOT, GPS, WiFi and Car use.

Product Identification



Shapes and Dimensions

FIG 1

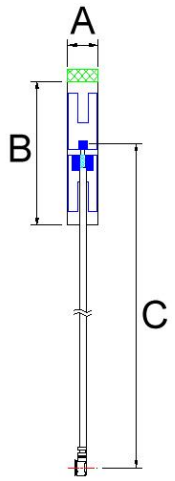


FIG 2

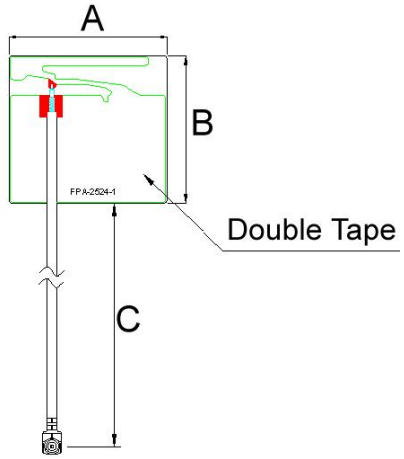
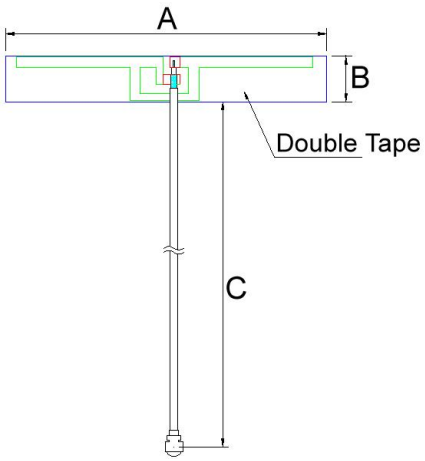


FIG 3



Dimensions in mm

TYPE	FIG	A	B	C
BTFA0024055G0C1A13	1	5.10	24.25	100±5
BTFA00252425GC1A01	2	25.3	23.6	120±5
BTFA0046062G4C1A03	3	46.5	6.65	150±5

Electrical Characteristics

Part Number	Frequency Range (GHz)	Impedance (Ω)	Return Loss dB(Max)	VSWR (Max)	Radiation	Peak Gain (dBi)	Polarization	Admitted Power (W)
BTFA0024055G0C1A13	5.15~5.85	50	-10	2	Omni-directional	4.90	Linear Vertical	1
BTFA00252425GC1A01	2.4~2.5 5.15~5.85	50	-10	2	Omni-directional	3.37 2.85	Linear Vertical	1
BTFA0046062G4C1A03	2.4~2.5	50	-10	2	Omni-directional	3.87	Linear Vertical	1

Physical Properties

Part Number	Antenna Material	Cable	Color	Connector	Double Tape
BTFA0024055G0C1A13	**FPC**	RF-113	Black	IPEX Compatible	3M 467
BTFA00252425GC1A01	FPC	RF-113	Black	TNOV	G9000
BTFA0046062G4C1A03	FPC	RF-113	Black	TNOV	G9000

- Operating temperature range - 20℃ ~ +65℃
- Storage temperature range - 30℃ ~ +75℃

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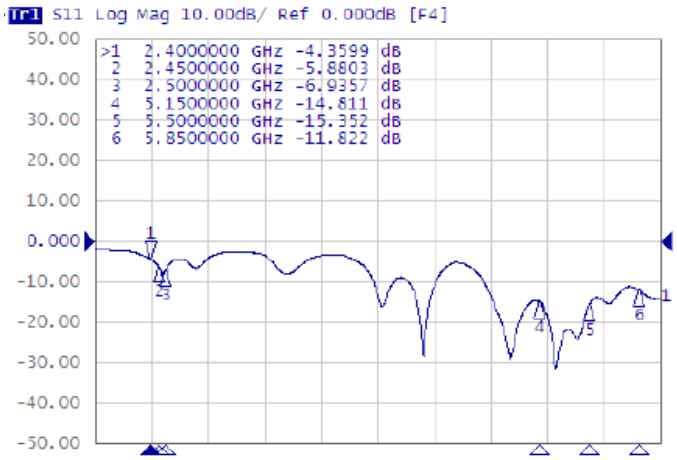
Pulse a YAGEO company

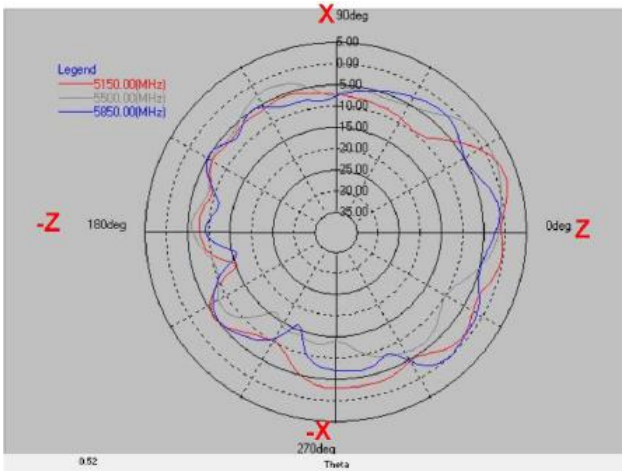
CHILISIN ELECTRONICS CORP.

BTFA0024055G0C1A13

Return Loss S11

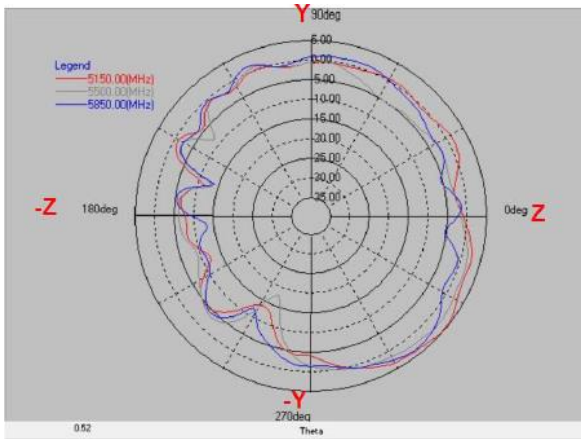


Frequency(MHz)：5150~5850. Pattern Field：Z-X plane



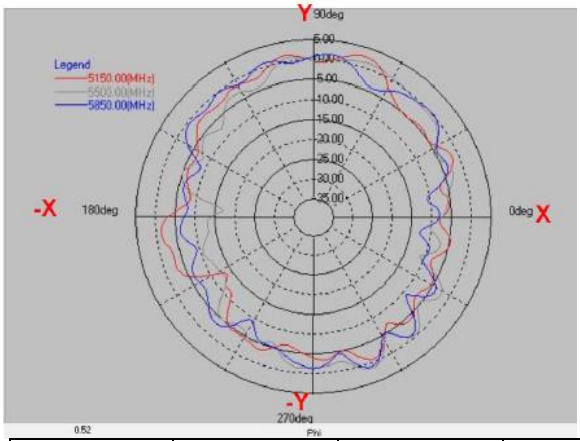
Layer	Max value	Min value	Average
5150(MHz)	2.25 dB	-15.19 dB	-4.15 dB
5500(MHz)	1.46 dB	-16.30 dB	-4.92 dB
5850(MHz)	-0.08 dB	-16.44 dB	-5.02 dB

Frequency(MHz)：5150~5850. Pattern Field：Z-Y plane



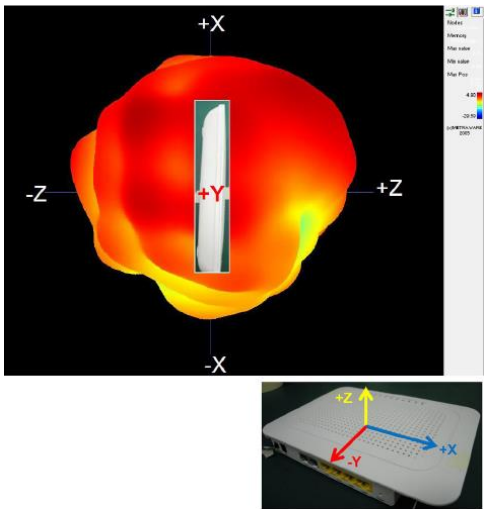
Layer	Max value	Min value	Average
5150(MHz)	4.87 dB	-14.03 dB	-0.64 dB
5500(MHz)	2.90 dB	-18.09 dB	-1.78 dB
5850(MHz)	3.56 dB	-13.87 dB	-1.49 dB

Frequency(MHz)：5150~5850. Pattern Field：X-Y plane

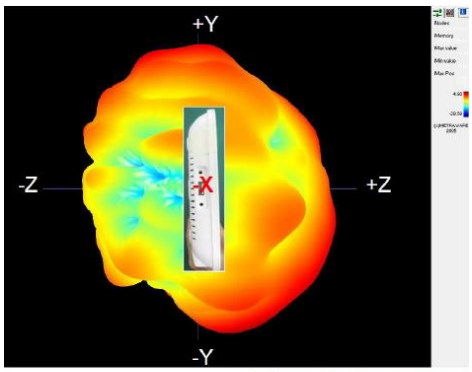


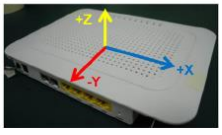
Layer	Max value	Min value	Average
5150(MHz)	2.51 dB	-13.78 dB	-3.22 dB
5500(MHz)	1.30 dB	-17.05 dB	-3.21 dB
5850(MHz)	1.30 dB	-12.85 dB	-3.06 dB

Frequency(MHz)：5150. Pattern Field：Z-X plane



Frequency(MHz)：5150. Pattern Field：Z-Y plane





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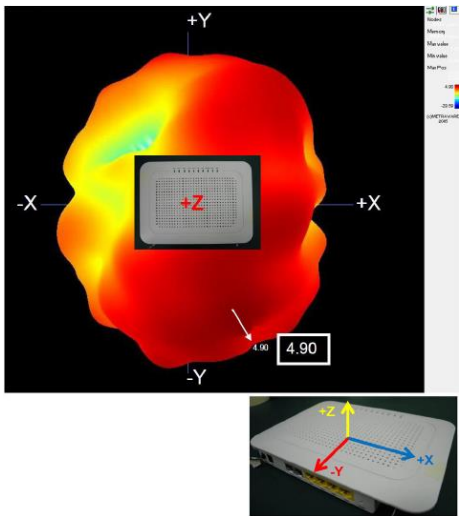
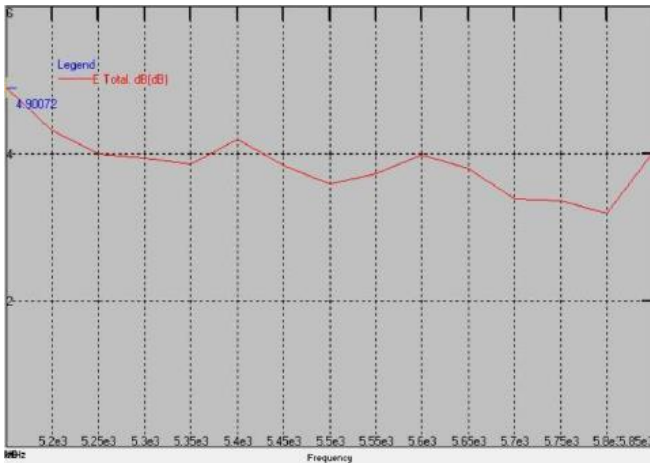
CHILISIN ELECTRONICS CORP.

Frequency(MHz)：5150. Pattern Field：X-Y plane



Peak Gain



Peak Gain：Max 2.90 dBi

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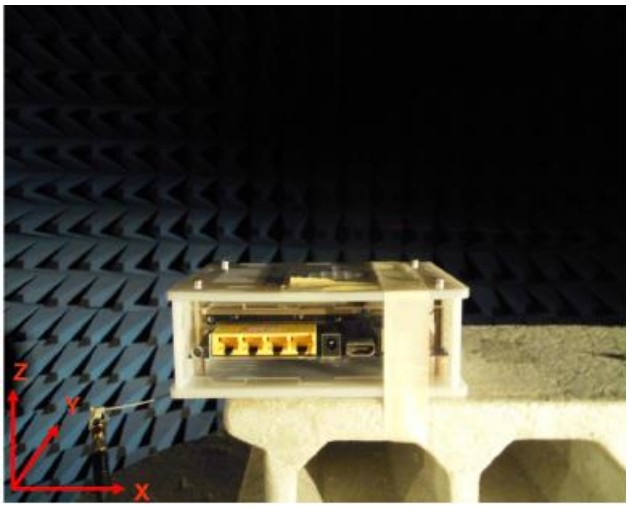
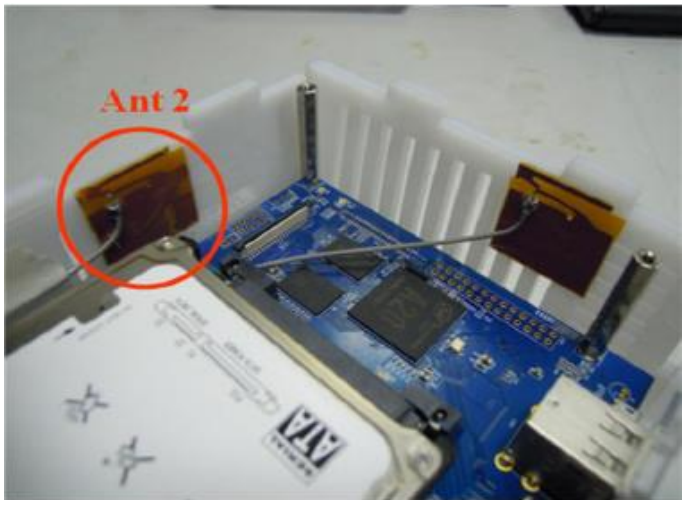
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

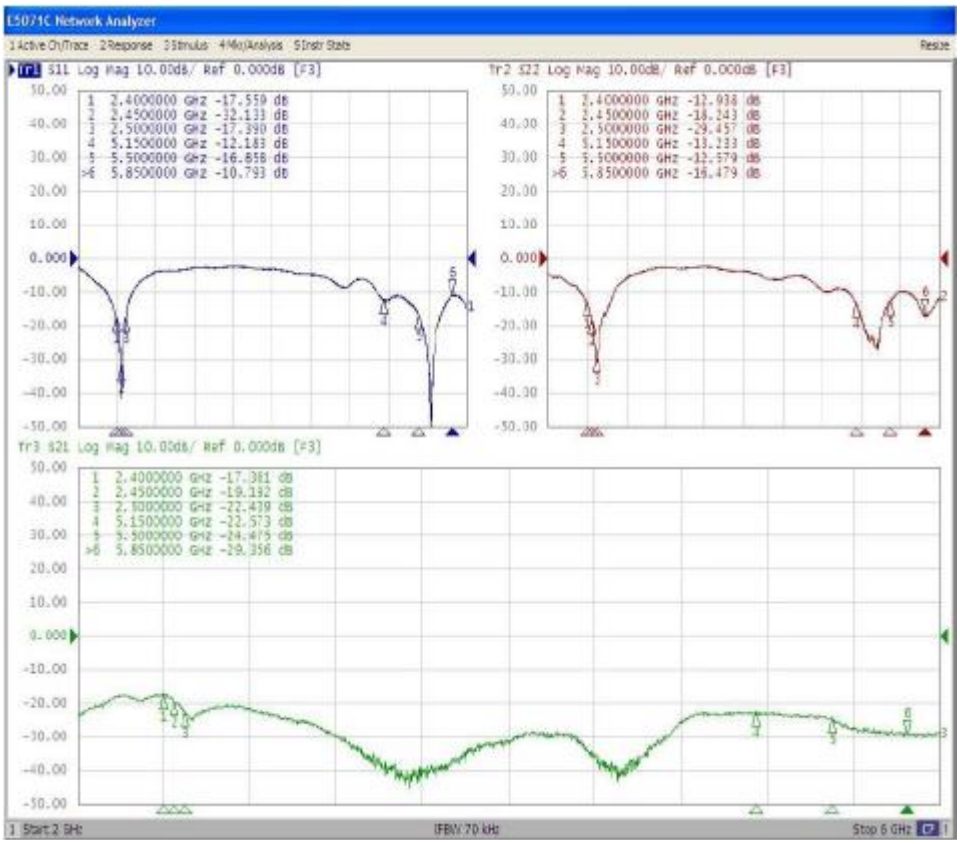
BTFA00252425GC1A01

Experimental Setup





Return Loss S11：Ant 1 / S22：Ant 2 / S21：Isolation



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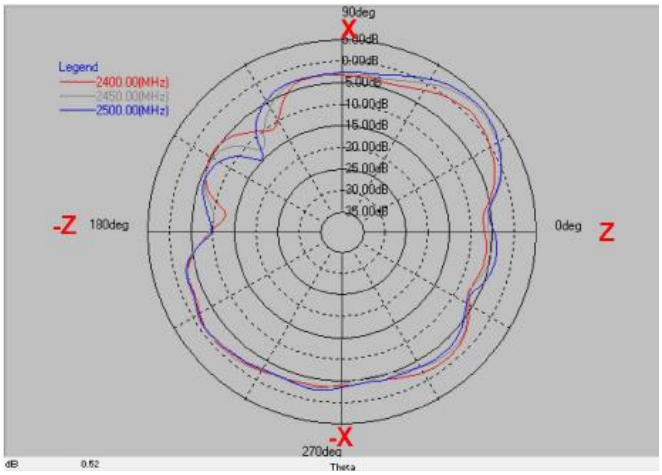
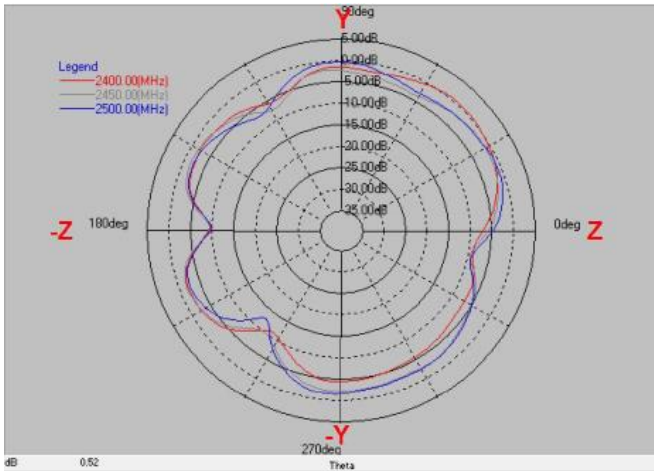
Frequency(MHz)：2400~2500. X-Z Plane



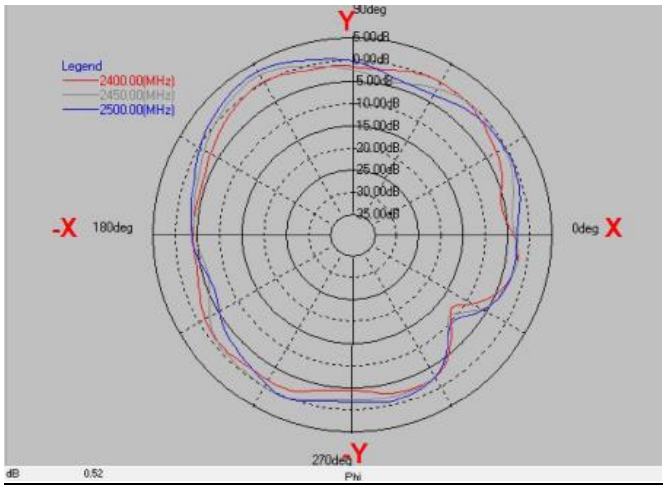
Layer	Max value	Min value	Average
2400(MHz)	0.91 dB	-12.85 dB	-3.42 dB
2450(MHz)	2.89 dB	-13.34 dB	-2.76 dB
2500(MHz)	3.37 dB	-14.94 dB	-2.46 dB

Frequency(MHz)：2400~2500. Y-Z Plane



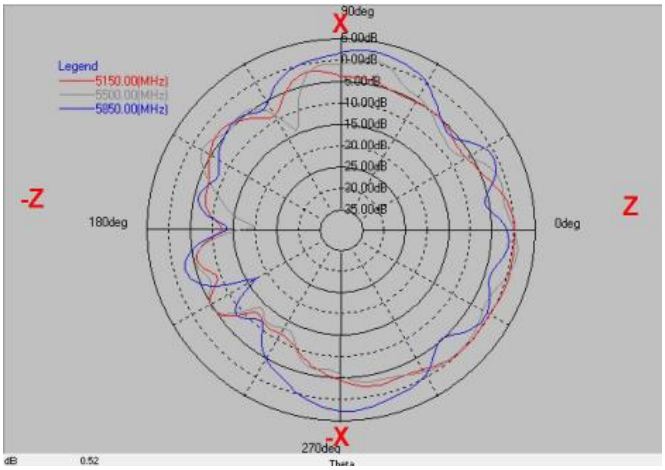
Layer	Max value	Min value	Average
2400(MHz)	0.42 dB	-11.32 dB	-3.63 dB
2450(MHz)	-1.19 dB	-10.21 dB	-3.66 dB
2500(MHz)	-0.46 dB	-12.89 dB	-3.34 dB

Frequency(MHz)：2400~2500. X-Y Plane



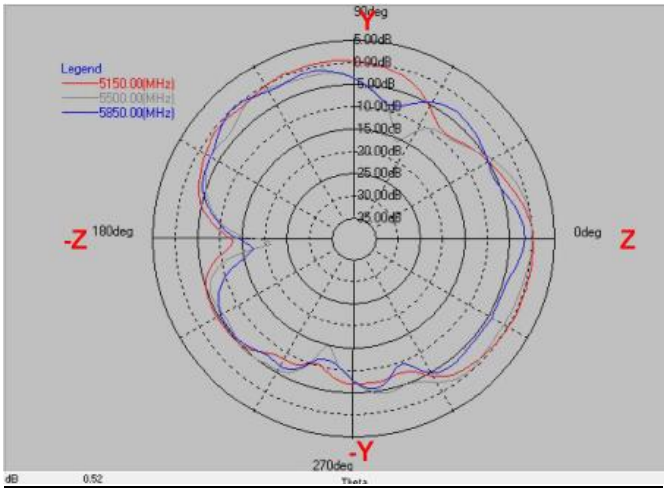
Layer	Max value	Min value	Average
2400(MHz)	0.10 dB	-12.12 dB	-2.49 dB
2450(MHz)	1.92 dB	-11.26 dB	-1.82 dB
2500(MHz)	2.81 dB	-9.85 dB	-1.50 dB

Frequency(MHz)：5150~5850. X-Z Plane



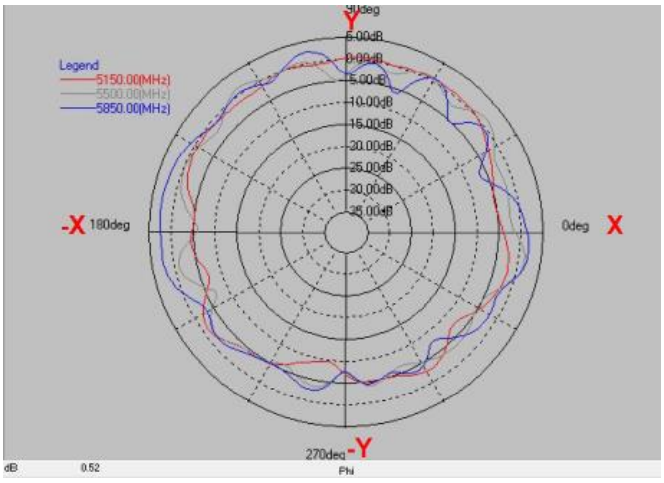
Layer	Max value	Min value	Average
5150(MHz)	0.54 dB	-12.50 dB	-3.69 dB
5500(MHz)	1.28 dB	-20.11 dB	-3.52 dB
5850(MHz)	2.60 dB	-17.20 dB	-1.90 dB

Frequency(MHz)：5150~5850. Y-Z Plane



Layer	Max value	Min value	Average
5150(MHz)	0.45 dB	-12.88 dB	-2.70 dB
5500(MHz)	0.18 dB	-21.21 dB	-3.68 dB
5850(MHz)	-0.12 dB	-17.40 dB	-4.46 dB

Frequency(MHz)：5150~5850. X-Y Plane



Layer	Max value	Min value	Average
5150(MHz)	0.59 dB	-9.84 dB	-2.47 dB
5500(MHz)	1.49 dB	-7.77 dB	-1.98 dB
5850(MHz)	2.85 dB	-8.05 dB	-0.94 dB

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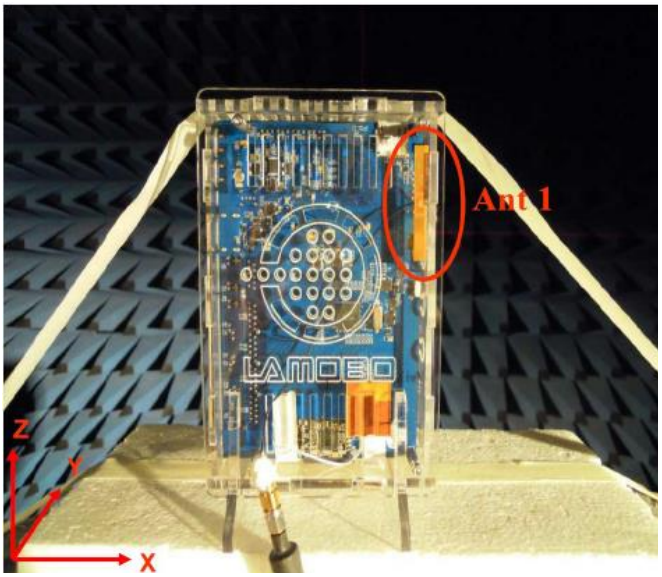
Pulse a YAGEO company

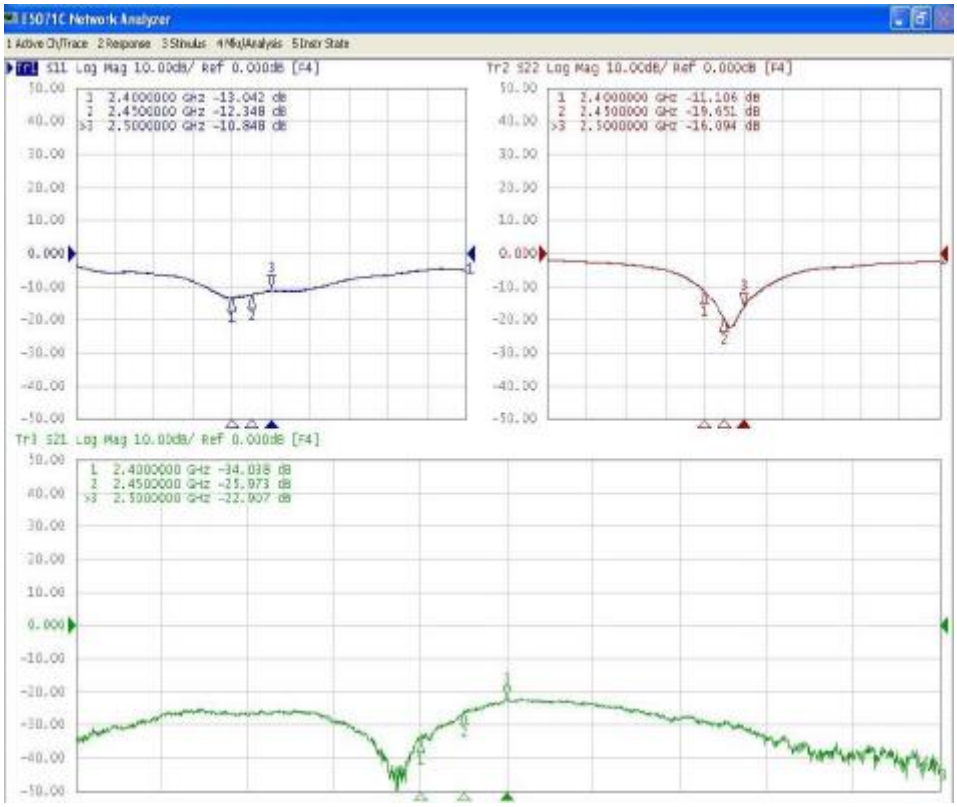
CHILISIN ELECTRONICS CORP.

BTFA0046062G4C1A03

Experimental Setup



Return Loss S11：Ant 1 / S22：Ant 2 / S21：Isolation



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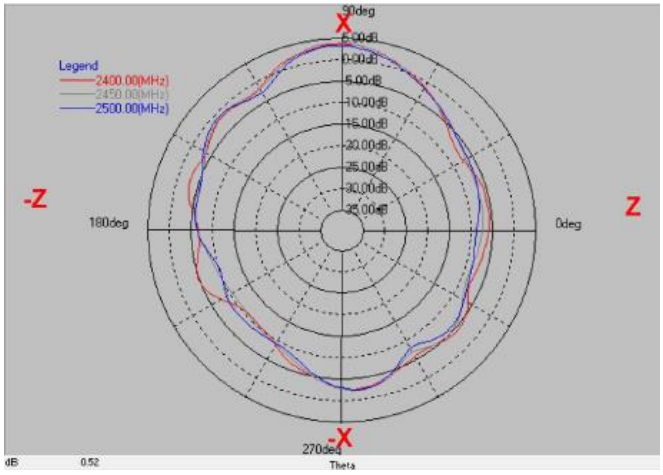
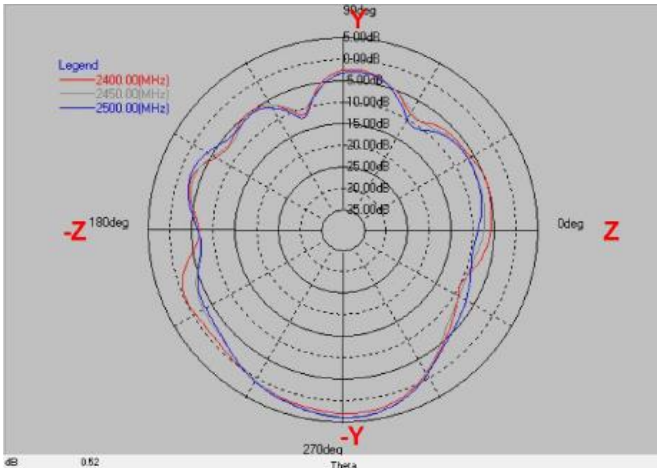
Frequency(MHz)：2400~2500. Z- X Plane



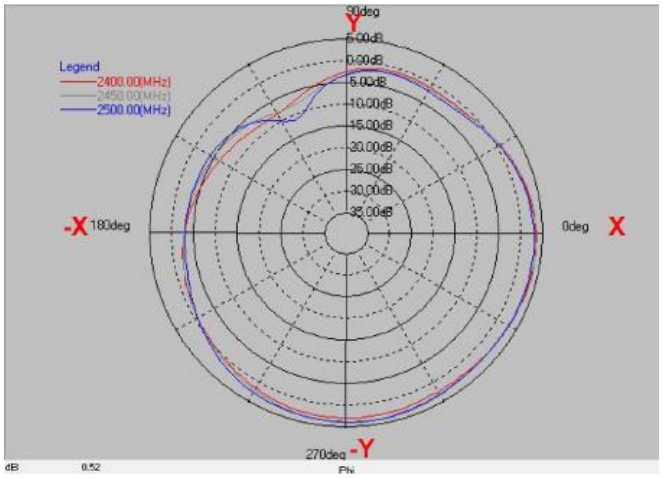
Layer	Max value	Min value	Average
2400(MHz)	3.48 dB	-10.84 dB	-2.85 dB
2450(MHz)	3.72 dB	-10.91 dB	-3.04 dB
2500(MHz)	3.12 dB	-10.28 dB	-3.40 dB

Frequency(MHz)：2400~2500. Z- Y Plane



Layer	Max value	Min value	Average
2400(MHz)	2.89 dB	-11.62 dB	-2.50 dB
2450(MHz)	3.86 dB	-10.53 dB	-2.62 dB
2500(MHz)	3.76 dB	-12.27 dB	-2.56 dB

Frequency(MHz)：2400~2500. X- Y Plane



Layer	Max value	Min value	Average
2400(MHz)	3.65 dB	-8.49 dB	0.50 dB
2450(MHz)	3.87 dB	-8.27 dB	0.87 dB
2500(MHz)	3.74 dB	-11.43 dB	0.72 dB

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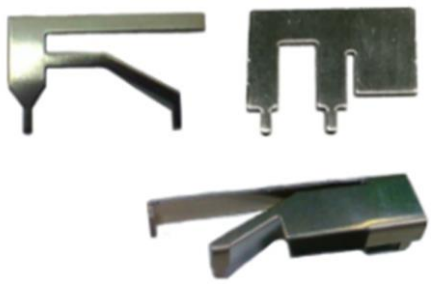
BTMA Series



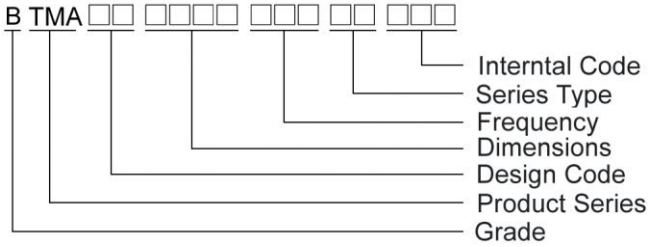
Features

- Small size low-profile, low cost and lightweight type
- Wide bandwidth and Omni-directional
- Supported with Dip-type, SMD, and Co-axial cable connecting
- Customized

Applications

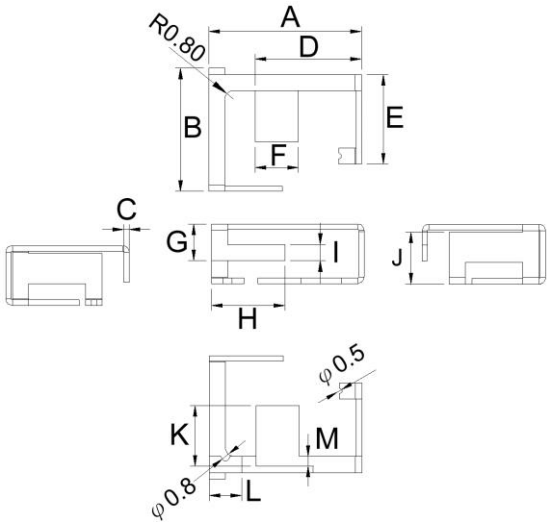
- Bluetooth, Wireless Router, Set Top Box and Home digital
- ISM band, Lora, Sigfox, LTE, NB-IOT, GPS, WiFi and Car use.

Product Identification

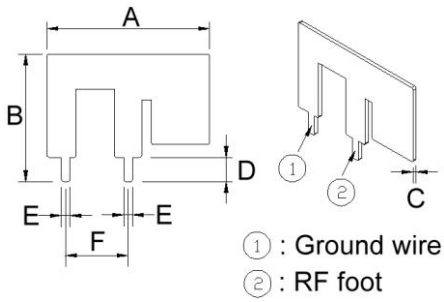


Shapes and Dimensions

BTMA0014082G4D1A01



BTMA0014115G0D1A01

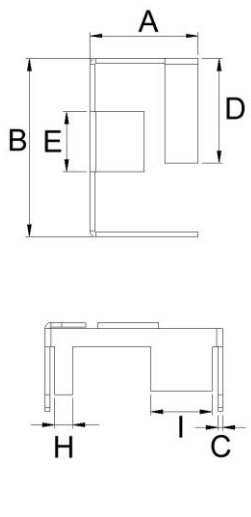


Dimensions in mm

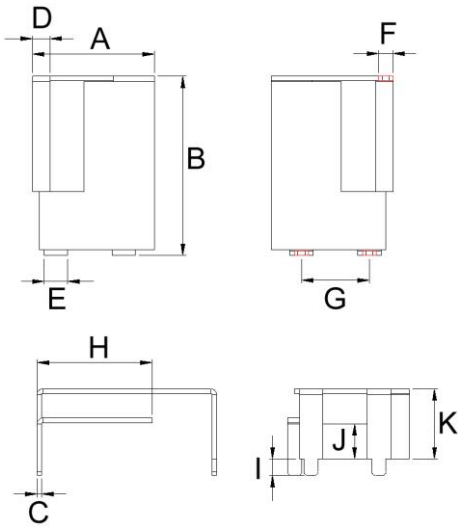
TYPE	A	B	C	D	E	F	G	H	I	J	K	L	M
BTMA0014082G4D1A01	14.10	11.4	0.5	9.8	8.3	4.0	3.4	6.8	1.5	4.8	5.6	3	0.9
BTMA0014115G0D1A01	14.85	11.6	0.4	2.2	0.8	5.7	-	-	-	-	-	-	-

Shapes and Dimensions

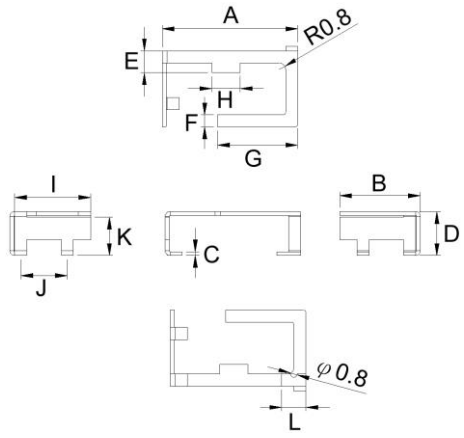
BTMA00150925GD1A01



BTMA00151025GD1A02



BTMA0017102G4D1A01



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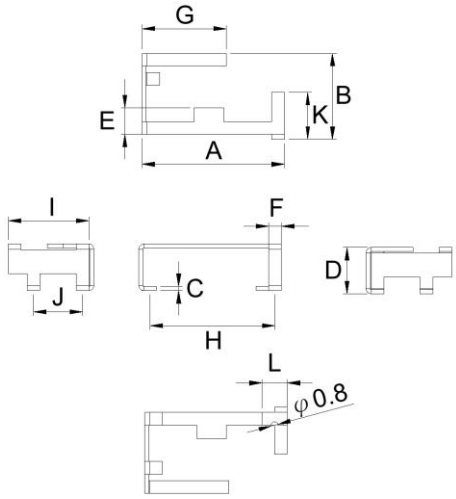
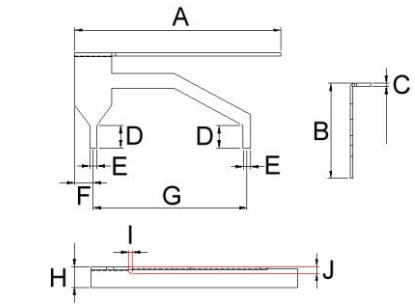
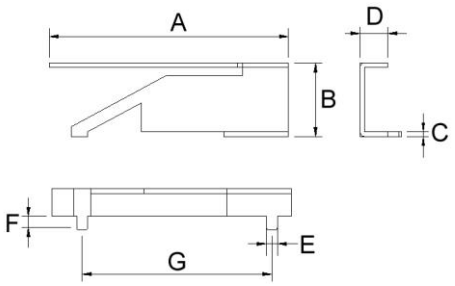


BTMA0027152G4C1A04



BTMA00290825GD1A02



Dimensions in mm

TYPE	A	B	C	D	E	F	G	H	I	J	K	L
BTMA00150925GD1A01	9.0	14.8	0.4	8.7	5	3-1.2	5.8	1.5	5.1	6.0	1.4	2.0
BTMA00151025GD1A02	10.4	15.35	0.4	1.5	2.0	3-1.2	5.8	9.85	1.4	3.0	6.0	-
BTMA0017102G4D1A01	16.9	10.05	0.5	5.5	2.7	1.5	10.0	3..5	9.45	5.8	4.8	3.0
BTMA0017102G4D1A02	16.9	10.15	0.5	5.5	3.1	1.5	10.0	14.8	9.55	5.8	5.55	3.0
BTMA0027152G4C1A04	27.7	12.76	0.4	3.0	1.0	2.5	20.61	2.76	0.5	0.85	-	-
BTMA00290825GD1A02	26.0	8.0	0.5	3.0	1.2	1.5	20.6	-	-	-	-	-

Metal Stamping Antenna BTMA Series

Electrical Characteristics

Part Number	Frequency Range (GHz)	Impedance (Ω)	Return Loss dB(Max)	Radiation	Peak Gain (dBi)	Polarization
BTMA0014082G4D1A01	2.4~2.5	50	-7	Omni-directional	0.29	Linear Vertical
BTMA0014115G0D1A01	5.15~5.85	50	-10	Omni-directional	2.90	Linear Vertical
BTMA00150925GD1A01	2.4~2.5 5.15~5.85	50	-7	Omni-directional	2.64 4.75	Linear Vertical
BTMA00151025GD1A02	2.4~2.5 5.15~5.85	50	-6	Omni-directional	2.64 4.23	Linear Vertical
BTMA0017102G4D1A01	2.4~2.5 5.15~5.85	50	-5	Omni-directional	2.88 3.17	Linear Vertical
BTMA0017102G4D1A02	2.4~2.5 5.15~5.85	50	-4	Omni-directional	4.14 3.43	Linear Vertical
BTMA0027152G4C1A04	2.4~2.5	50	-10	Directional	3.19	Linear Vertical
BTMA00290825GD1A02	2.4~2.5 5.15~5.85	50	-10	Omni-directional	2.71 3.02	Linear Vertical

Physical Properties

Part Number	Antenna Material	Operating temperature range	Storage temperature range
BTMA0014082G4D1A01	SUS430 (First nickel plating)	- 20℃ ~ +65℃	- 30℃ ~ +75℃
BTMA0014115G0D1A01	SUS430 (First nickel plating)	- 20℃ ~ +65℃	- 30℃ ~ +75℃
BTMA00150925GD1A01	SUS430 (Nickel plating-Sn)	- 20℃ ~ +65℃	- 30℃ ~ +75℃
BTMA00151025GD1A02	SUS430 (Nickel plating-Sn)	- 20℃ ~ +65℃	- 30℃ ~ +75℃
BTMA0017102G4D1A01	SUS430 (First nickel plating)	- 20℃ ~ +65℃	- 30℃ ~ +75℃
BTMA0017102G4D1A02	SUS430 (First nickel plating)	- 20℃ ~ +65℃	- 30℃ ~ +75℃
BTMA0027152G4C1A04	SUS430 (First nickel plating)	- 20℃ ~ +65℃	- 30℃ ~ +75℃
BTMA00290825GD1A02	SUS430 (First nickel plating)	- 20℃ ~ +65℃	- 30℃ ~ +75℃

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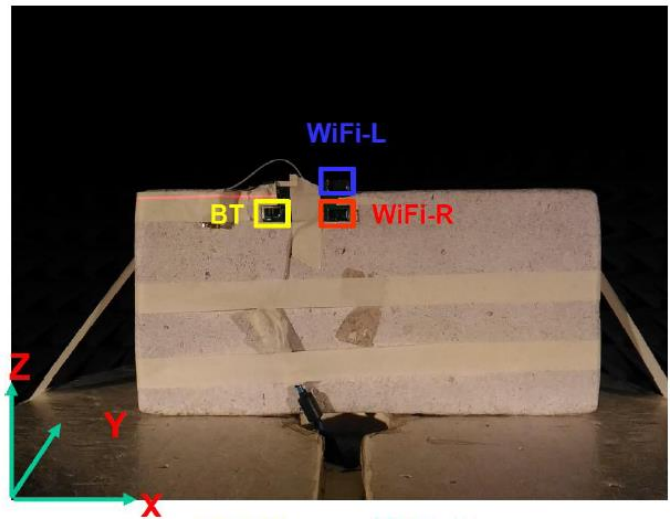
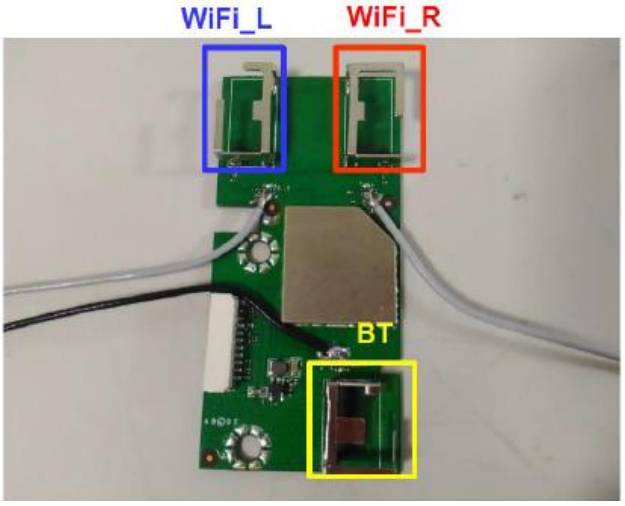
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

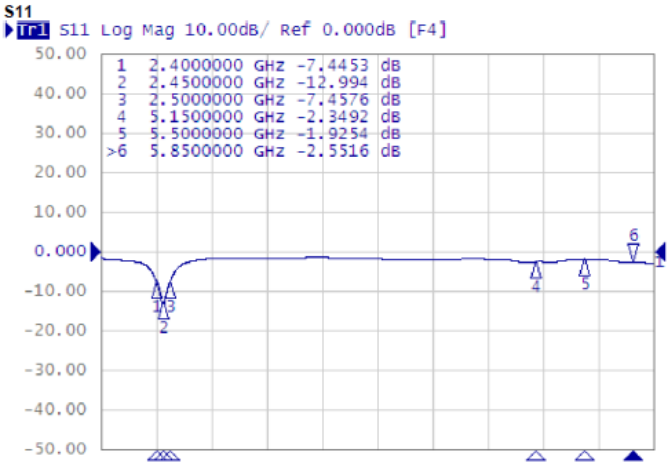
BTMA0014082G4D1A01

Experimental Setup

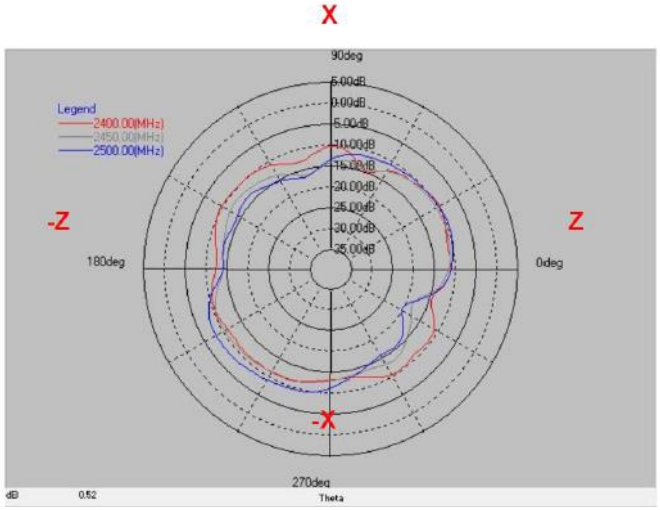




Return Loss S11

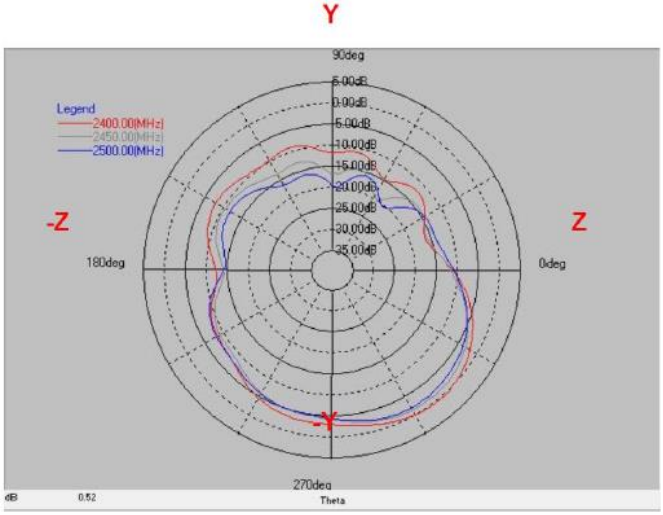


Frequency(MHz) : 2400~2500. Pattern Field : Z-X plane



Layer	Max value	Min value	Average
2400(MHz)	-9.68 dB	-15.14 dB	-11.46 dB
2450(MHz)	-10.37 dB	-18.50 dB	-12.67 dB
2500(MHz)	-8.17 dB	-20.24 dB	-11.79 dB

Frequency(MHz) : 2400~2500. Pattern Field : Z-Y plane



Layer	Max value	Min value	Average
2400(MHz)	0.30 dB	-16.47 dB	-5.83 dB
2450(MHz)	-1.28 dB	-20.09 dB	-7.28 dB
2500(MHz)	-1.98 dB	-20.67 dB	-7.65 dB

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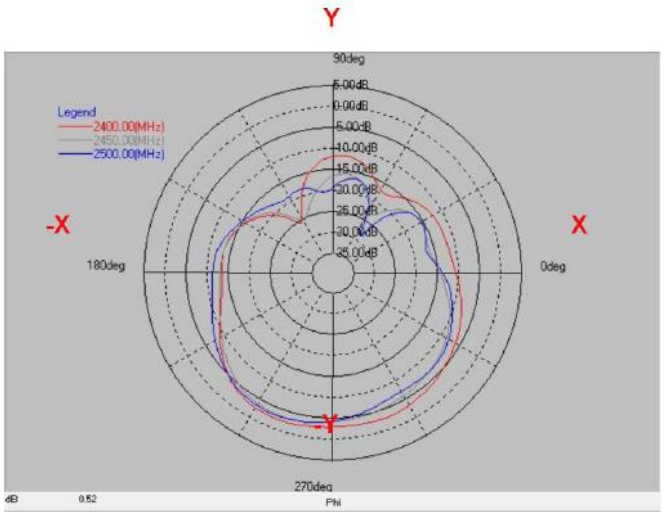
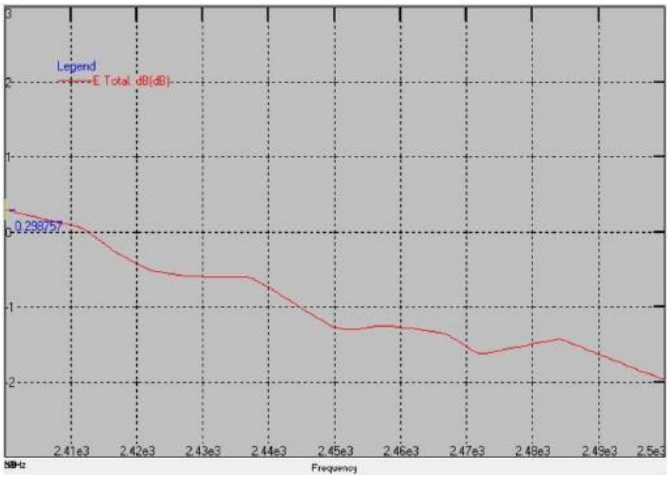
Frequency(MHz)：2400~2500. Pattern Field：X-Y plane



Layer	Max value	Min value	Average
2400(MHz)	-2.52 dB	-25.81 dB	-7.49 dB
2450(MHz)	-3.56 dB	-25.65 dB	-9.21 dB
2500(MHz)	-3.27 dB	-28.86 dB	-8.96 dB

Peak Gain



Peak Gain：Max 0.29 dBi

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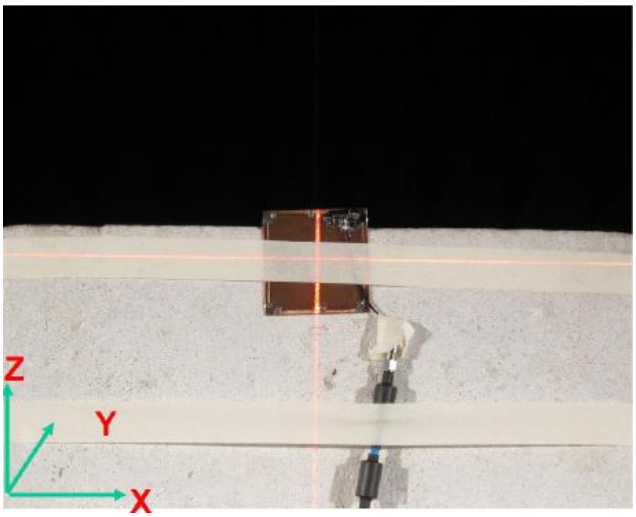
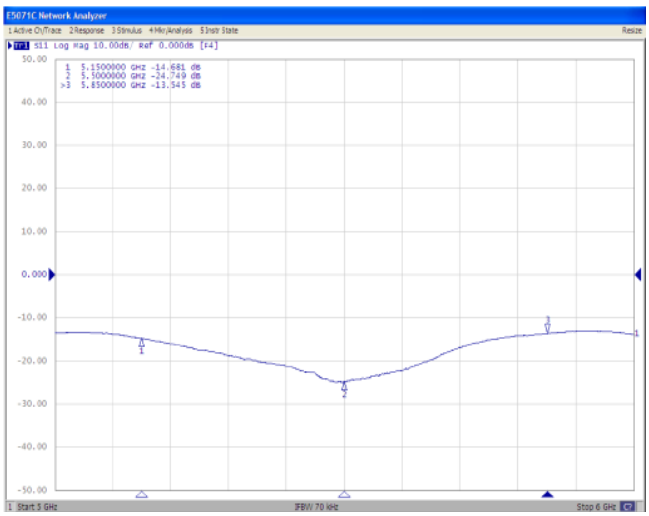
BTMA0014115G0D1A01

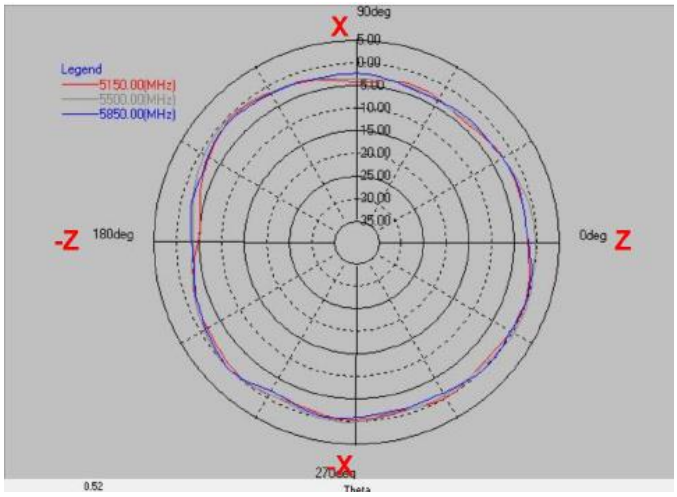
Experimental Setup



Return Loss S11

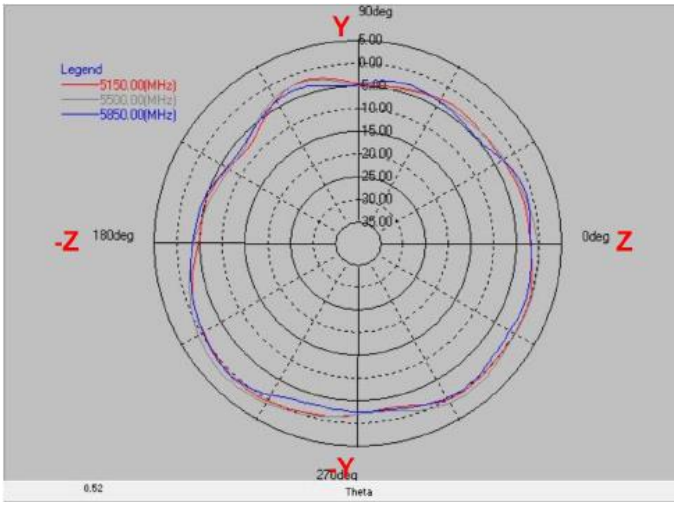


Frequency(MHz) : 5150~5850. Pattern Field : Z-X plane



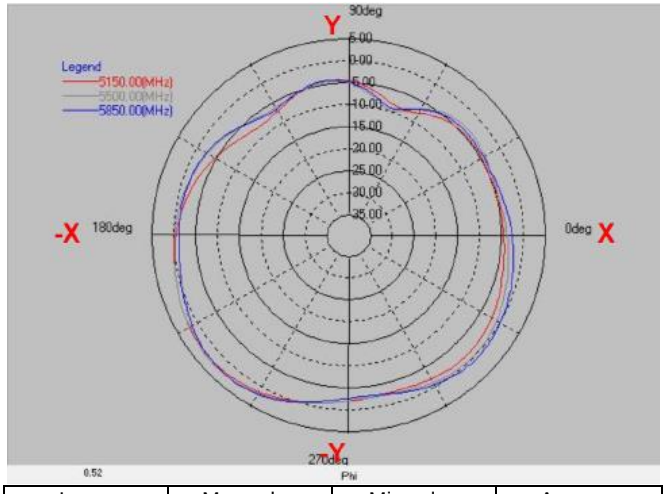
Layer	Max value	Min value	Average
5150(MHz)	-0.05 dB	-5.06 dB	-1.86 dB
5500(MHz)	0.51 dB	-3.81 dB	-1.34 dB
5850(MHz)	0.03 dB	-3.84 dB	-1.72 dB

Frequency(MHz) : 5150~5850. Pattern Field : Z-Y plane



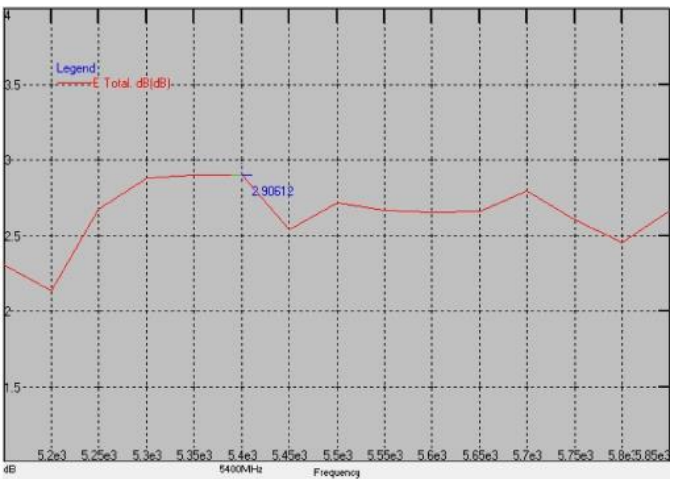
Layer	Max value	Min value	Average
5150(MHz)	0.61 dB	-7.89 dB	2.06 dB
5500(MHz)	1.60 dB	-7.46 dB	-1.51 dB
5850(MHz)	0.55 dB	-6.93 dB	-2.39 dB

Frequency(MHz) : 5150~5850. Pattern Field : X-Y plane



Layer	Max value	Min value	Average
5150(MHz)	2.31 dB	-8.83 dB	-2.14 dB
5500(MHz)	2.66 dB	-10.15 dB	-1.58 dB
5850(MHz)	2.51 dB	-9.38 dB	-1.60 dB

Peak Gain



Peak Gain : Max 2.90 dBi

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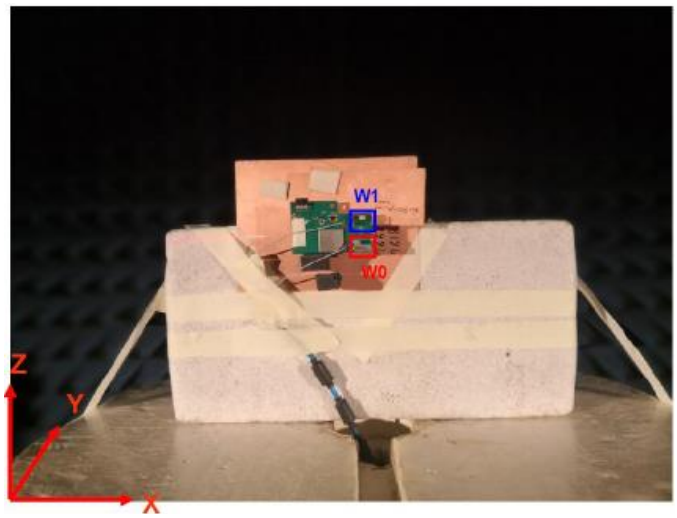
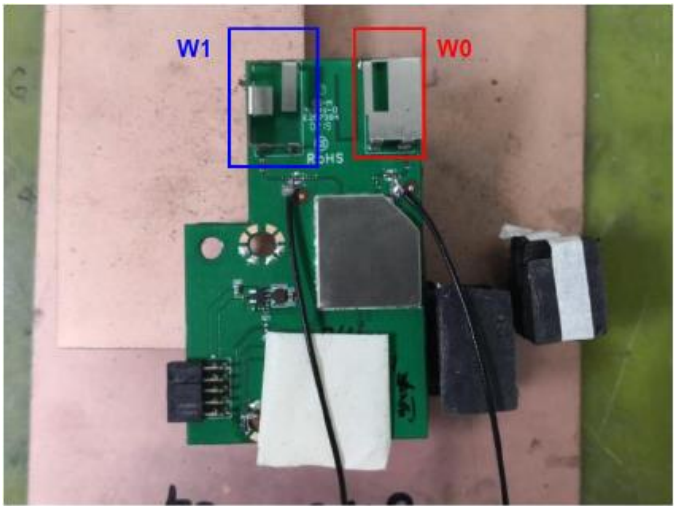
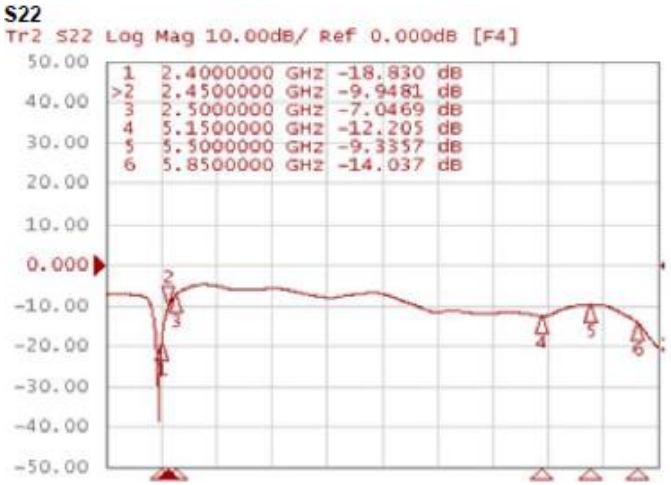
BTMA00150925GD1A01

Experimental Setup

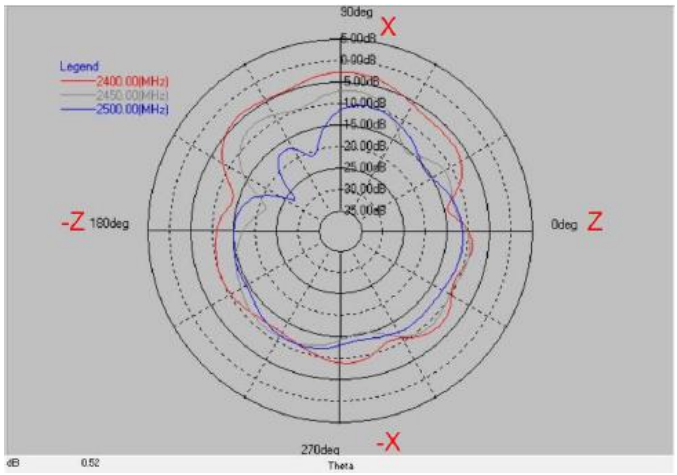




Return Loss S22

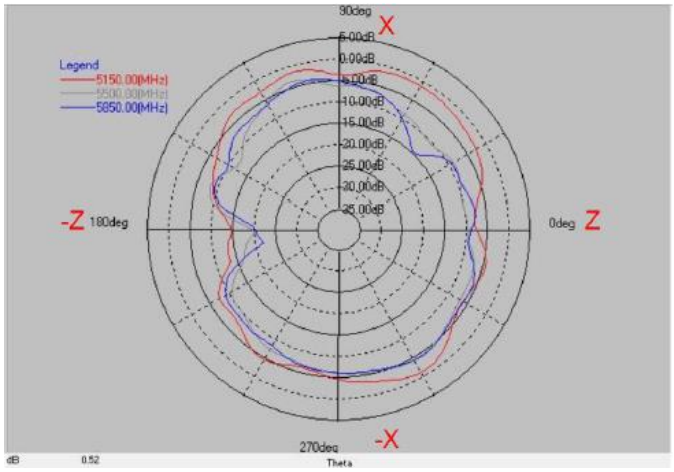


Frequency(MHz) : 2400~2500. Pattern Field : Z-X plane



Layer	Max value	Min value	Average
2400(MHz)	-2.86 dB	-14.14 dB	-7.63 dB
2450(MHz)	-7.05 dB	-21.75 dB	-11.17 dB
2400(MHz)	-10.20 dB	-27.18 dB	-13.38 dB

Frequency(MHz) : 5150~5850. Pattern Field : Z-X plane



Layer	Max value	Min value	Average
5150(MHz)	-1.19 dB	-14.72 dB	-4.27 dB
5500(MHz)	-3.75 dB	-20.07 dB	-7.69 dB
5850(MHz)	-4.43 dB	-21.96 dB	-7.58 dB

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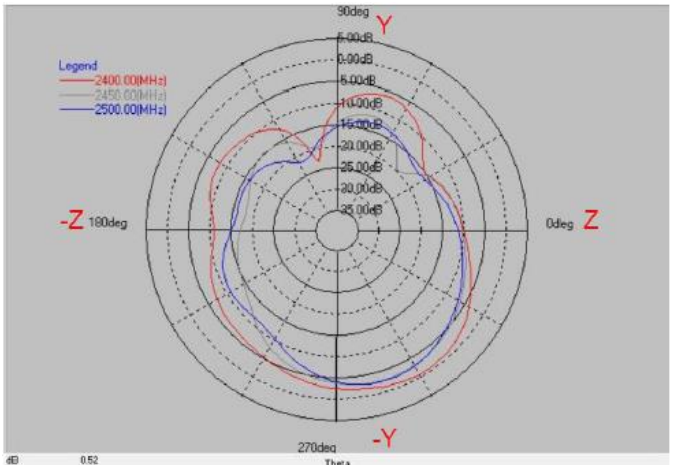
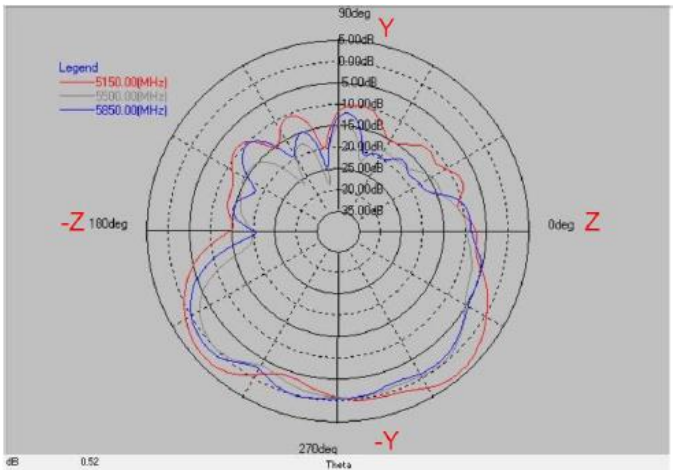
Metal Stamping Antenna BTMA Series

Frequency(MHz)：2400~2500. Pattern Field：Z-Y plane



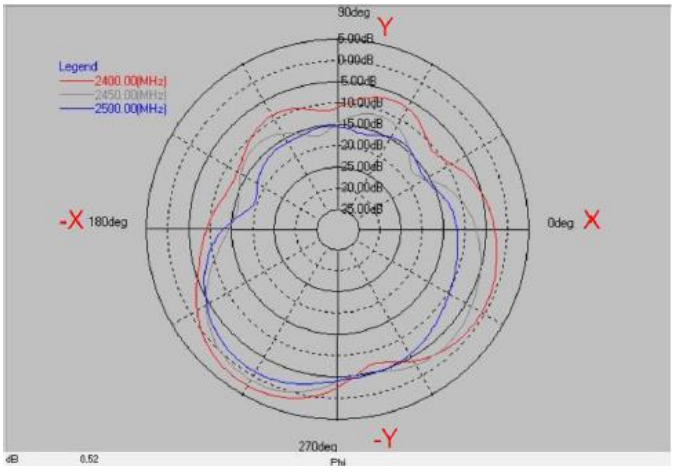
Layer	Max value	Min value	Average
2400(MHz)	-0.79 dB	-23.38 dB	-6.13 dB
2450(MHz)	-2.97 dB	-19.97 dB	-8.86 dB
2400(MHz)	-2.79 dB	-22.09 dB	-9.15 dB

Frequency(MHz)：5150~5850. Pattern Field：Z-Y plane



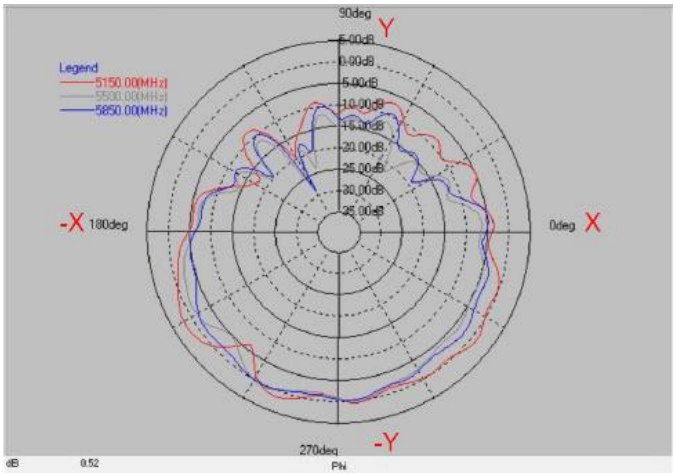
Layer	Max value	Min value	Average
5150(MHz)	3.91 dB	-20.30 dB	-2.51 dB
5500(MHz)	-0.15 dB	-28.99 dB	-5.54 dB
5850(MHz)	1.26 dB	-25.01 dB	-4.77 dB

Frequency(MHz)：2400~2500. Pattern Field：X-Y plane



Layer	Max value	Min value	Average
2400(MHz)	2.60 dB	-13.00 dB	-3.43dB
2450(MHz)	0.96 dB	-17.80 dB	-5.47 dB
2500(MHz)	-1.16 dB	-19.46 dB	-7.55 dB

Frequency(MHz)：5150~5850. Pattern Field：X-Y plane



Layer	Max value	Min value	Average
5150(MHz)	2.05 dB	-19.74 dB	-2.89 dB
5500(MHz)	0.31 dB	-26.05 dB	-5.10 dB
5850(MHz)	-0.01 dB	-29.00 dB	-4.68 dB

Peak Gain

2G

Frequency (MHz)	Peak Gain (dBi)
2400	2.64
2410	2.22
2420	1.84
2430	1.85
2440	1.39
2450	1.15
2460	0.60
2470	0.07
2480	-0.18
2490	-0.67
2500	-0.56

5G

Frequency (MHz)	Peak Gain (dBi)	Frequency (MHz)	Peak Gain (dBi)
5150	4.75	5700	1.02
5200	4.65	5750	1.21
5250	3.95	5800	1.76
5300	4.44	5850	1.47
5350	3.79		
5400	3.08		
5450	1.86		
5500	1.42		
5550	1.02		
5600	0.81		
5650	1.15		

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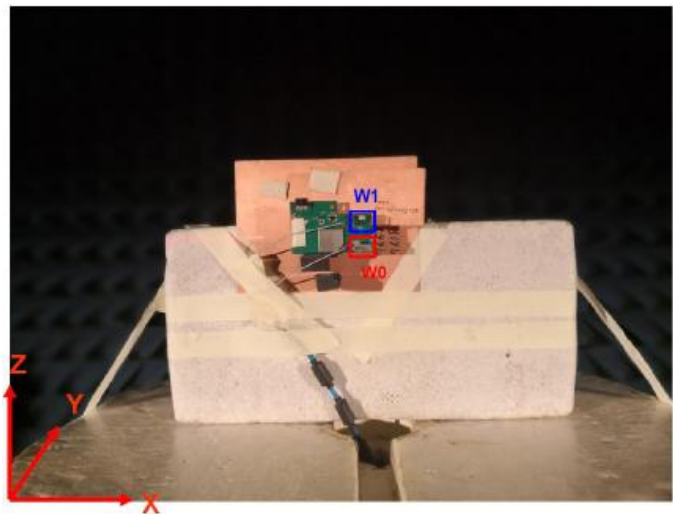
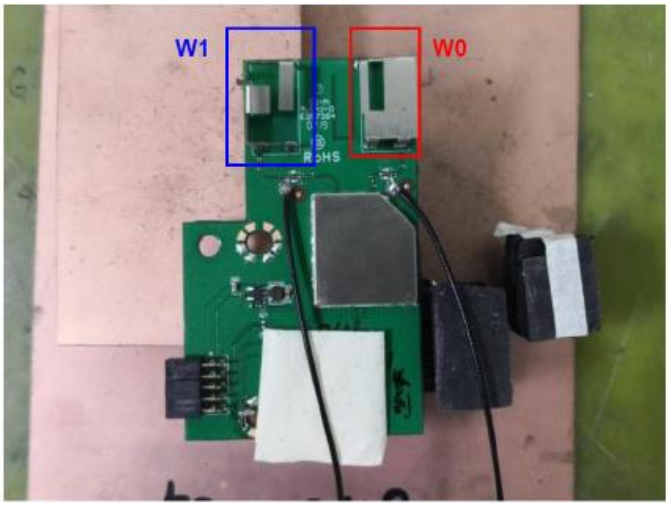
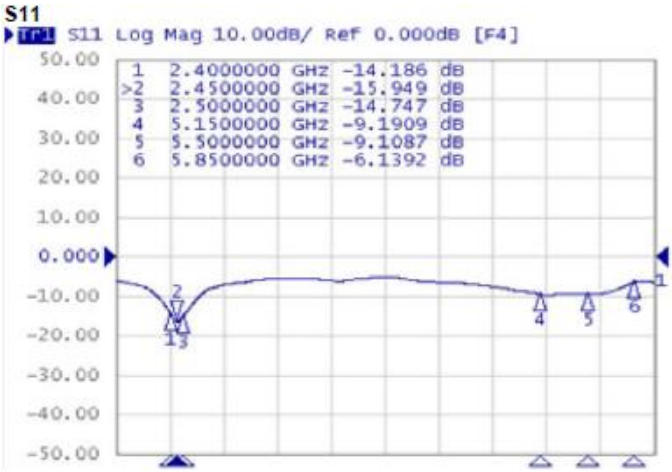
BTMA00151025GD1A02

Experimental Setup

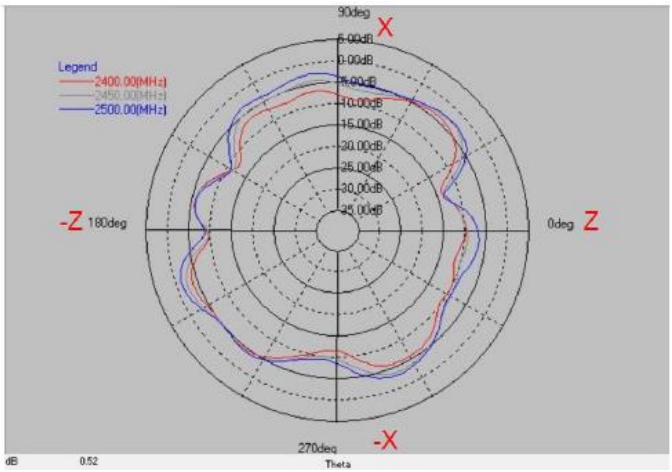




Return Loss S11

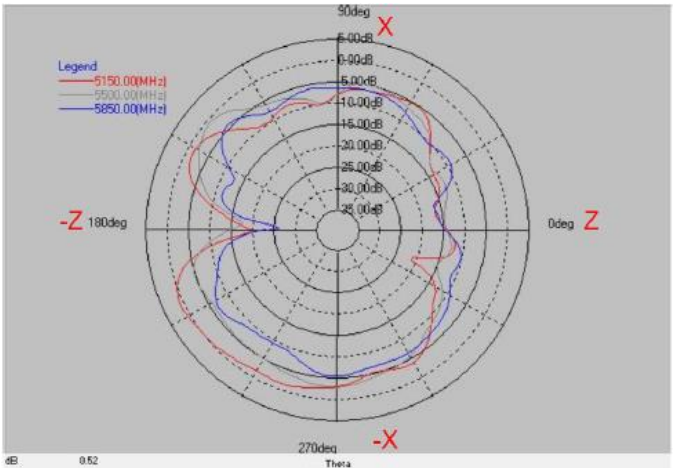


Frequency(MHz) : 2400~2500. Pattern Field : Z-X plane



Layer	Max value	Min value	Average
2400(MHz)	-3.84 dB	-13.97 dB	-7.26 dB
2450(MHz)	-2.47 dB	-13.35 dB	-6.04 dB
2400(MHz)	-1.35 dB	-13.67 dB	-5.24 dB

Frequency(MHz) : 5150~5850. Pattern Field : Z-X plane



Layer	Max value	Min value	Average
5150(MHz)	0.83 dB	-21.25 dB	-5.01 dB
5500(MHz)	-0.91 dB	-17.69 dB	-6.29 dB
5850(MHz)	-4.37 dB	-26.43 dB	-8.33 dB

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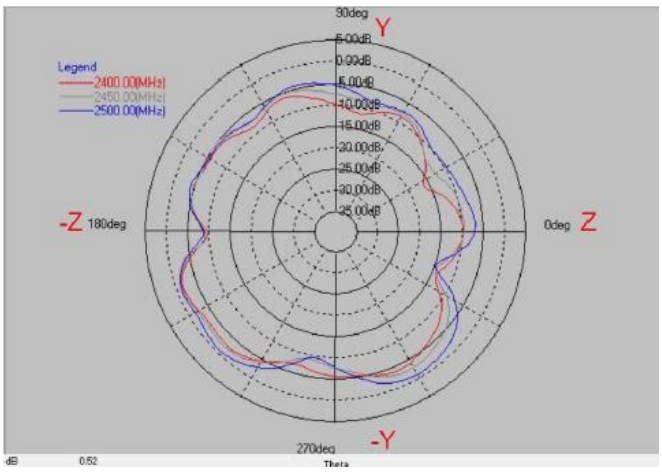
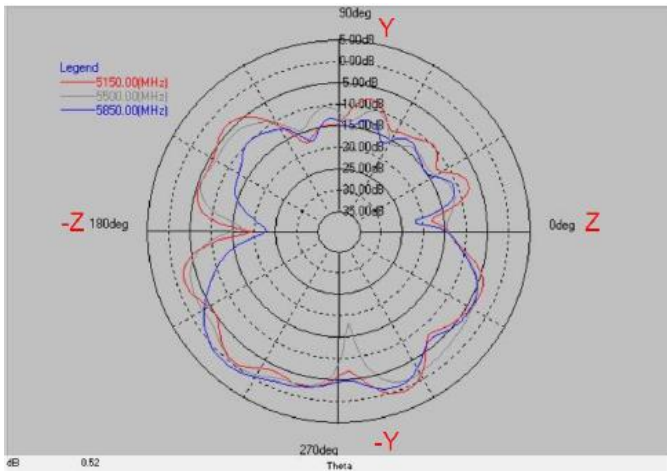
Metal Stamping Antenna BTMA Series

Frequency(MHz) : 2400~2500. Pattern Field : Z-Y plane



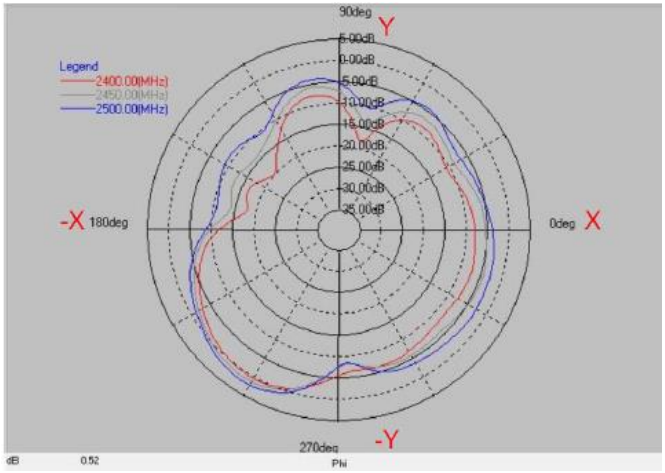
Layer	Max value	Min value	Average
2400(MHz)	-1.67 dB	-16.44 dB	-6.59 dB
2450(MHz)	-1.29 dB	-14.55 dB	-5.98 dB
2400(MHz)	-0.83 dB	-14.85 dB	-4.86 dB

Frequency(MHz) : 5150~5850. Pattern Field : Z-Y plane



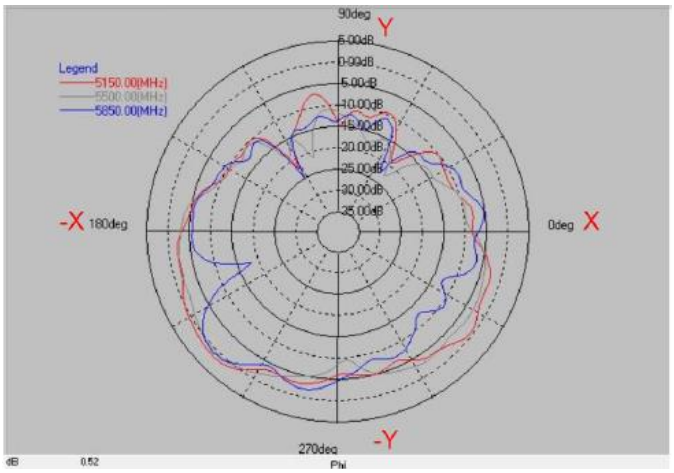
Layer	Max value	Min value	Average
5150(MHz)	0.52 dB	-19.78 dB	-5.44 dB
5500(MHz)	-0.30 dB	-18.34 dB	-5.76 dB
5850(MHz)	0.73 dB	-23.02 dB	-6.04 dB

Frequency(MHz) : 2400~2500. Pattern Field : X-Y plane



Layer	Max value	Min value	Average
2400(MHz)	0.29 dB	-20.04 dB	-6.33 dB
2450(MHz)	1.22 dB	-14.26 dB	-5.10 dB
2500(MHz)	2.17 dB	-10.99 dB	-3.75 dB

Frequency(MHz) : 5150~5850. Pattern Field : X-Y plane



Layer	Max value	Min value	Average
5150(MHz)	1.56 dB	-22.61 dB	-4.49 dB
5500(MHz)	0.53 dB	-22.96 dB	-5.27 dB
5850(MHz)	0.92 dB	-25.04 dB	-6.77 dB

Peak Gain

2G

Frequency (MHz)	Peak Gain (dBi)
2400	1.55
2410	1.60
2420	1.58
2430	2.01
2440	2.04
2450	2.05
2460	2.42
2470	2.61
2480	2.61
2490	2.63
2500	2.64

5G

Frequency (MHz)	Peak Gain (dBi)	Frequency (MHz)	Peak Gain (dBi)
5150	4.23	5700	2.13
5200	3.90	5750	1.89
5250	3.88	5800	1.52
5300	3.97	5850	1.44
5350	3.74		
5400	1.87		
5450	1.70		
5500	1.83		
5550	2.40		
5600	2.57		
5650	2.83		

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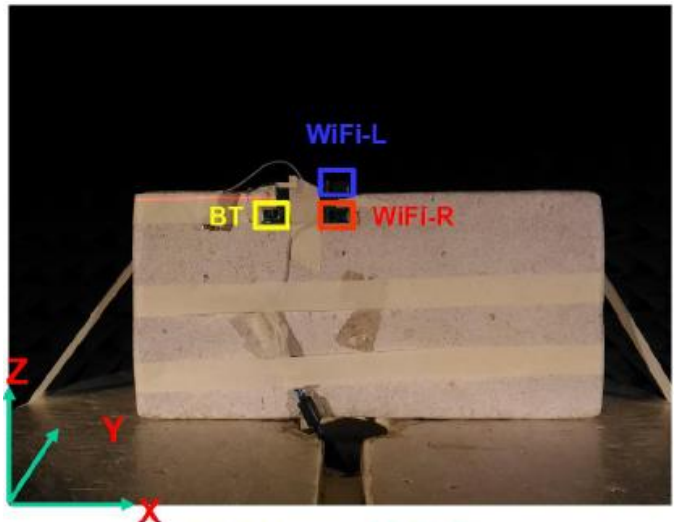
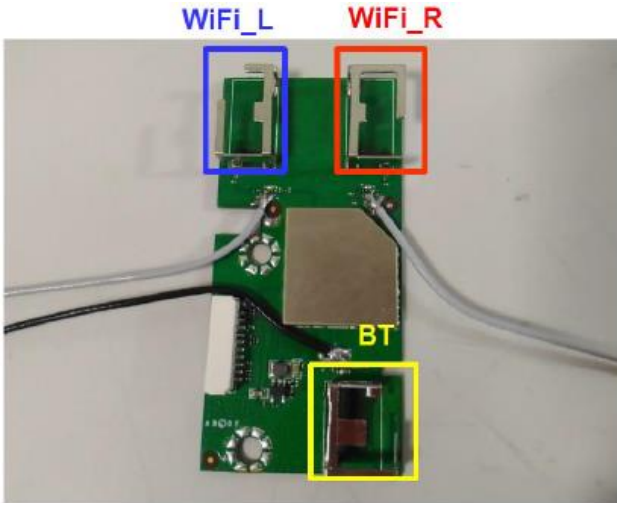
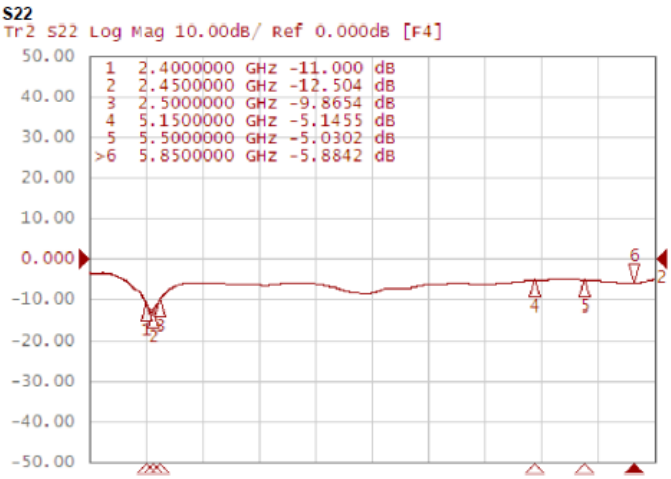
BTMA0017102G4D1A01

Experimental Setup

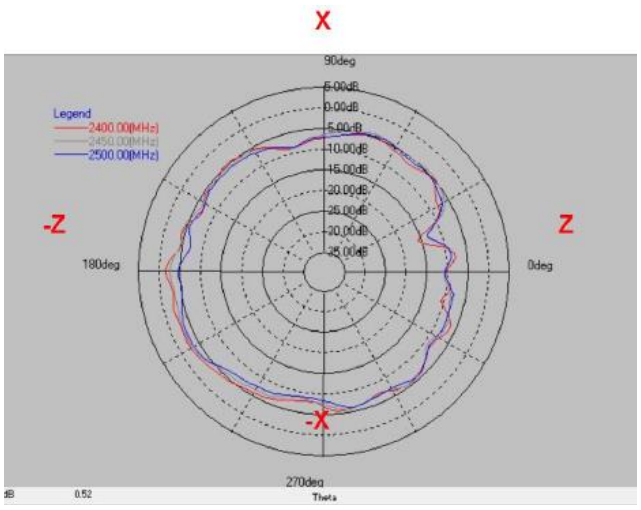




Return Loss S22

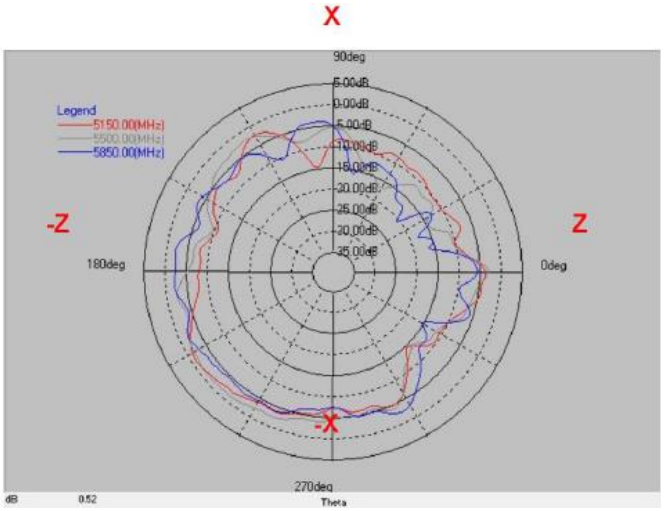


Frequency(MHz) : 2400~2500. Pattern Field : Z-X plane



Layer	Max value	Min value	Average
2400(MHz)	-1.36 dB	-15.89 dB	-5.81 dB
2450(MHz)	-2.52 dB	-13.39 dB	-5.91 dB
2400(MHz)	-3.50 dB	-13.23 dB	-6.54 dB

Frequency(MHz) : 5150~5850. Pattern Field : Z-X plane



Layer	Max value	Min value	Average
5150(MHz)	-1.08 dB	-14.89 dB	-6.26 dB
5500(MHz)	-1.40 dB	-16.84 dB	-5.41 dB
5850(MHz)	-2.02 dB	-20.60 dB	-6.03 dB

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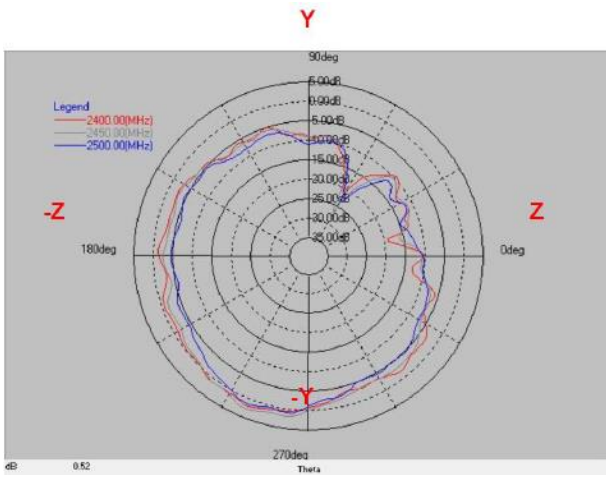
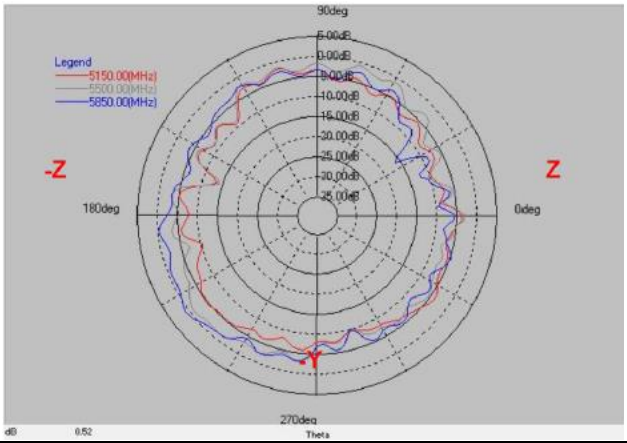
Frequency(MHz)：2400~2500. Pattern Field：Z-Y plane



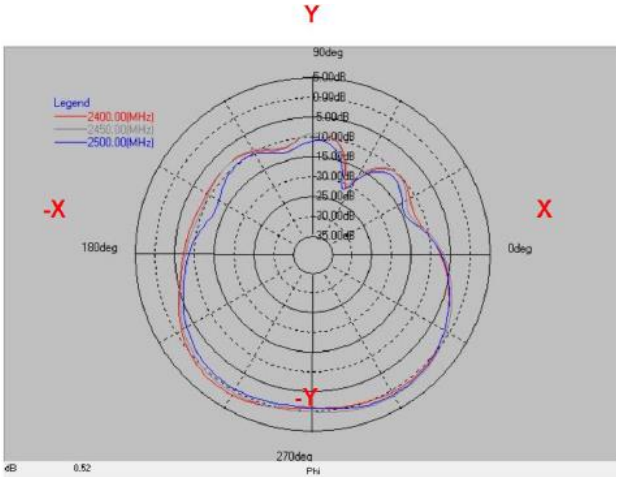
Layer	Max value	Min value	Average
2400(MHz)	1.74 dB	-20.97 dB	-3.49 dB
2450(MHz)	2.68 dB	-27.16 dB	-3.51 dB
2400(MHz)	1.21 dB	-23.67 dB	-4.97 dB

Frequency(MHz)：5150~5850. Pattern Field：Z-Y plane



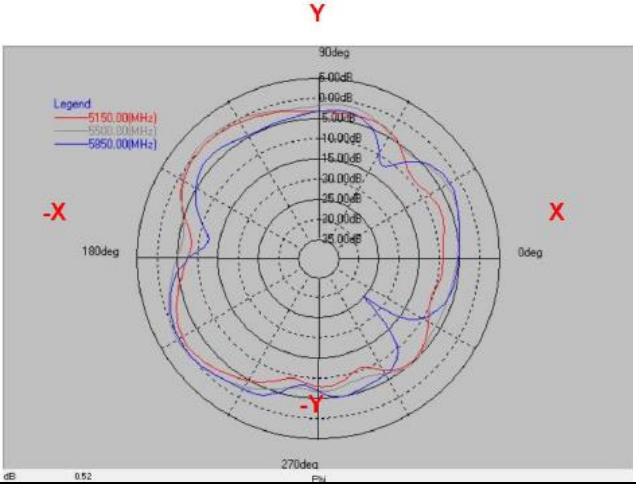
Layer	Max value	Min value	Average
5150(MHz)	-2.12 dB	-13.58 dB	-6.20 dB
5500(MHz)	-1.04 dB	-14.34 dB	-4.49 dB
5850(MHz)	0.77 dB	-16.24 dB	-4.18 dB

Frequency(MHz)：2400~2500. Pattern Field：X-Y plane



Layer	Max value	Min value	Average
2400(MHz)	1.19 dB	-21.06 dB	-3.46 dB
2450(MHz)	1.42 dB	-20.22 dB	-3.21 dB
2500(MHz)	1.14 dB	-21.85 dB	-4.01 dB

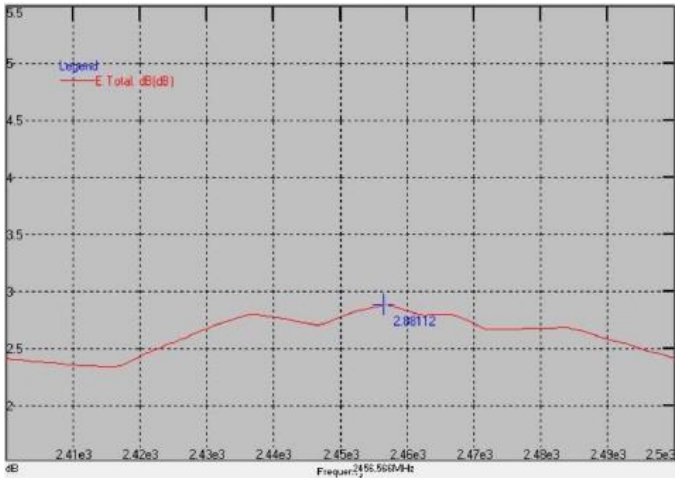
Frequency(MHz)：5150~5850. Pattern Field：X-Y plane



Layer	Max value	Min value	Average
5150(MHz)	-0.15 dB	-10.92 dB	-4.44 dB
5500(MHz)	0.60 dB	-8.28 dB	-2.98 dB
5850(MHz)	0.05 dB	-25.42 dB	-4.39 dB

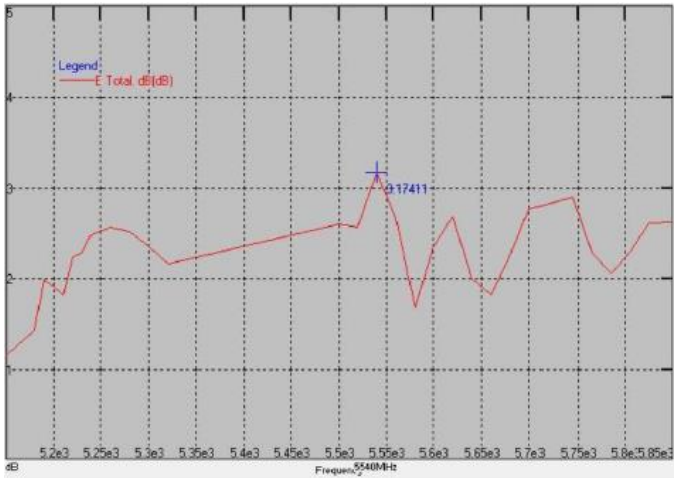
Peak Gain

2G



Peak Gain：Max 2.88 dBi

5G



Peak Gain：Max 3.17 dBi

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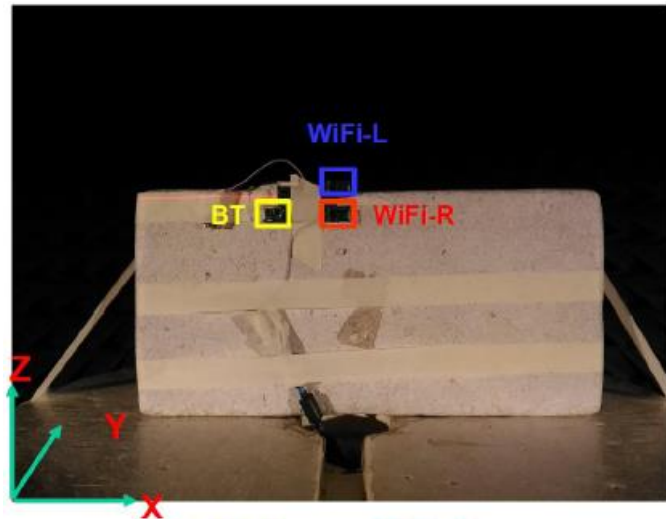
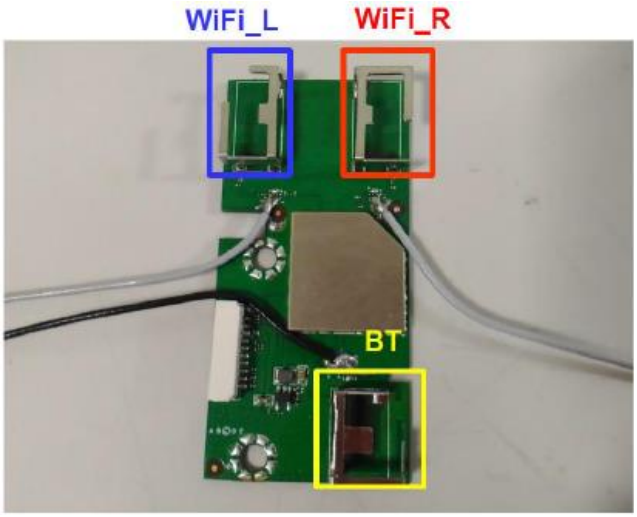
CHILISIN ELECTRONICS CORP.

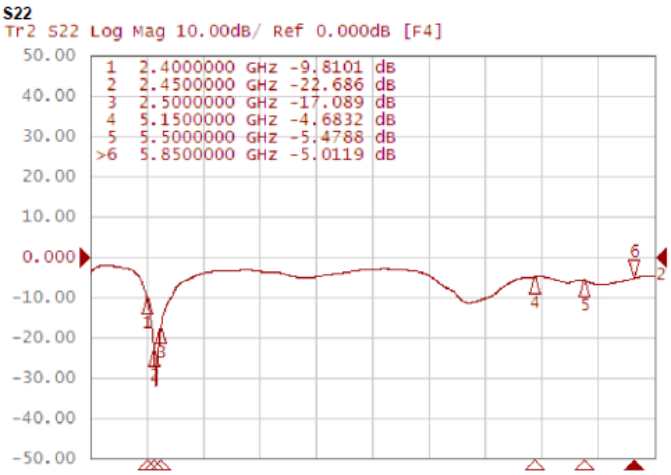
BTMA0017102G4D1A02

Experimental Setup

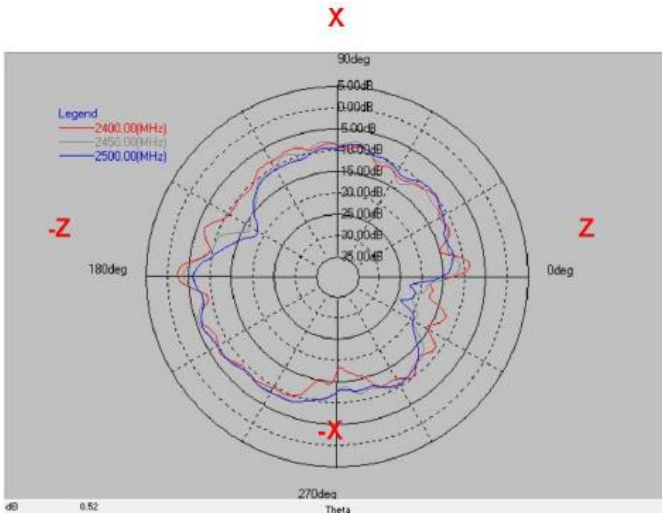




Return Loss S22

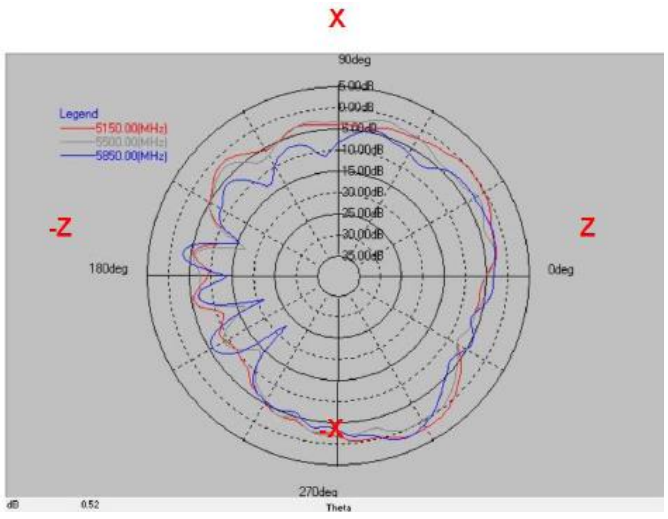


Frequency(MHz) : 2400~2500. Pattern Field : Z-X plane



Layer	Max value	Min value	Average
2400(MHz)	-2.23 dB	-18.66 dB	-9.68 dB
2450(MHz)	-3.51 dB	-21.67 dB	-9.99 dB
2400(MHz)	-6.01 dB	-24.11 dB	-10.54 dB

Frequency(MHz) : 5150~5850. Pattern Field : Z-X plane



Layer	Max value	Min value	Average
5150(MHz)	1.61 dB	-15.19 dB	-3.16 dB
5500(MHz)	-0.19 dB	-17.15 dB	-4.14 dB
5850(MHz)	1.72 dB	-22.93 dB	-4.75 dB

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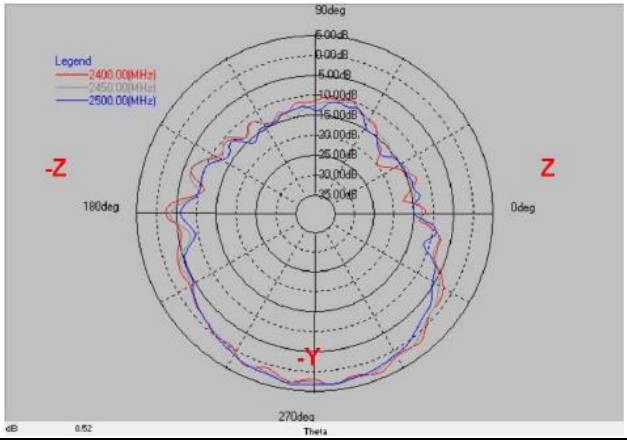
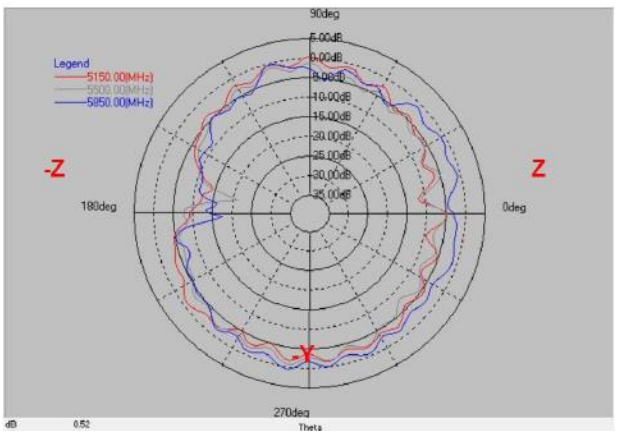
Frequency(MHz)：2400~2500. Pattern Field：Z-Y plane



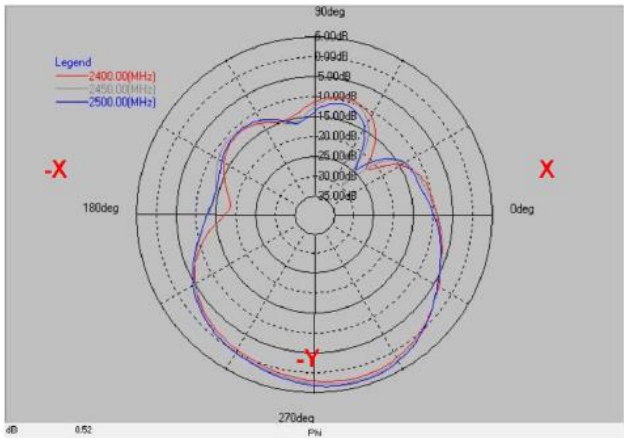
Layer	Max value	Min value	Average
2400(MHz)	3.36 dB	-20.21 dB	-2.86 dB
2450(MHz)	3.14 dB	-15.73 dB	-2.94 dB
2400(MHz)	3.39 dB	-17.57 dB	-3.19 dB

Frequency(MHz)：5150~5850. Pattern Field：Z-Y plane



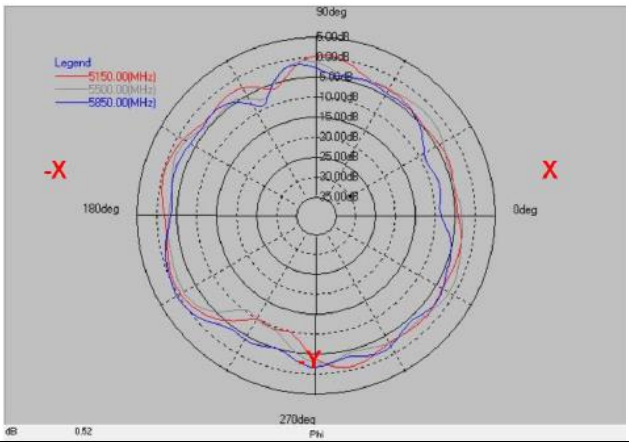
Layer	Max value	Min value	Average
5150(MHz)	0.09 dB	-14.59 dB	-4.02 dB
5500(MHz)	-0.76 dB	-21.21 dB	-4.87 dB
5850(MHz)	0.44 dB	-17.49 dB	-3.22 dB

Frequency(MHz)：2400~2500. Pattern Field：X-Y plane



Layer	Max value	Min value	Average
2400(MHz)	2.46 dB	-22.31 dB	-3.81 dB
2450(MHz)	3.20 dB	-29.93 dB	-3.30 dB
2500(MHz)	3.64 dB	-24.60 dB	-3.05 dB

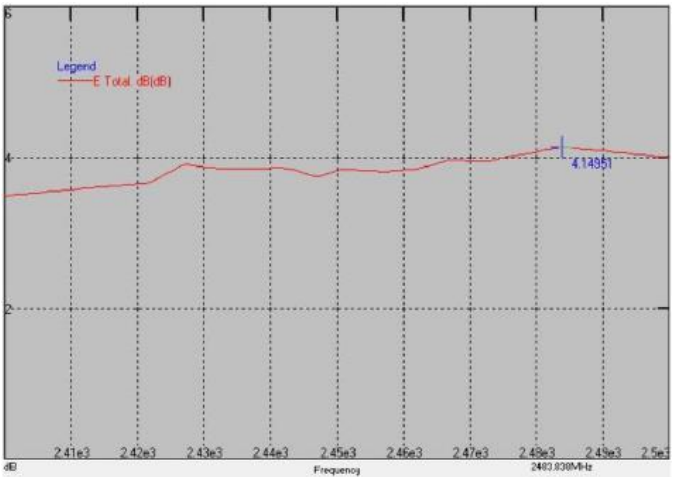
Frequency(MHz)：5150~5850. Pattern Field：X-Y plane



Layer	Max value	Min value	Average
5150(MHz)	0.31 dB	-10.17 dB	-2.80 dB
5500(MHz)	-0.96 dB	-10.79 dB	-3.36 dB
5850(MHz)	0.33 dB	-9.41 dB	-3.55 dB

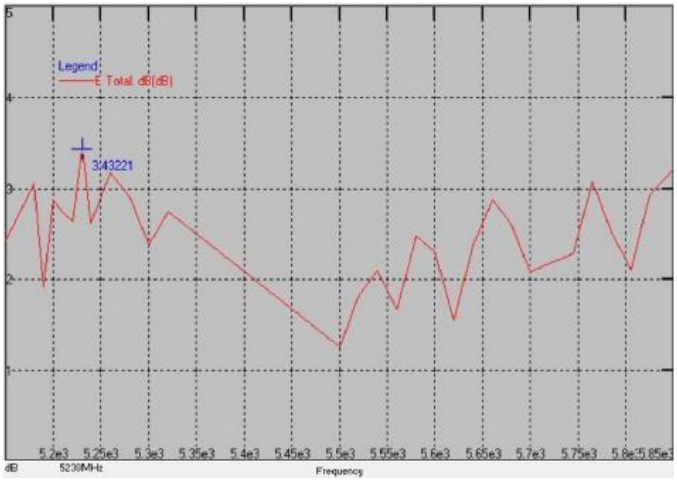
Peak Gain

2G



Peak Gain：Max 4.14 dBi

5G



Peak Gain：Max 3.43 dBi

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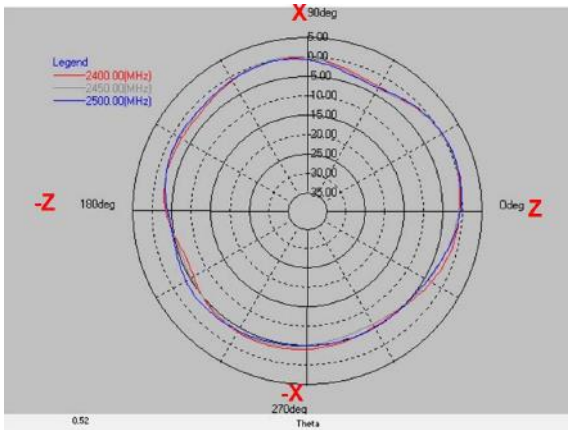
BTMA0027152G4C1A04

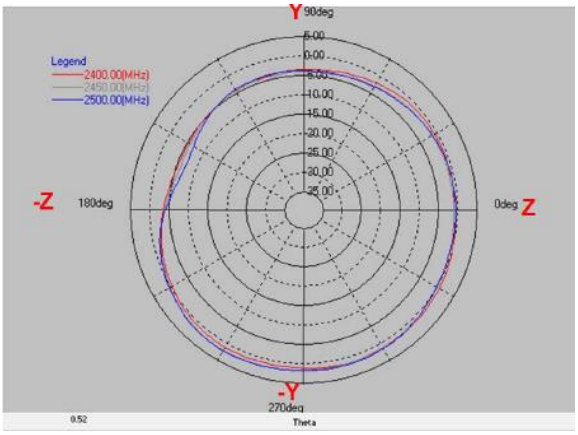
Return Loss S11：2G Ant 1 → 25G Ant 2

Frequency(MHz)：2400~2500. Z-X Plane



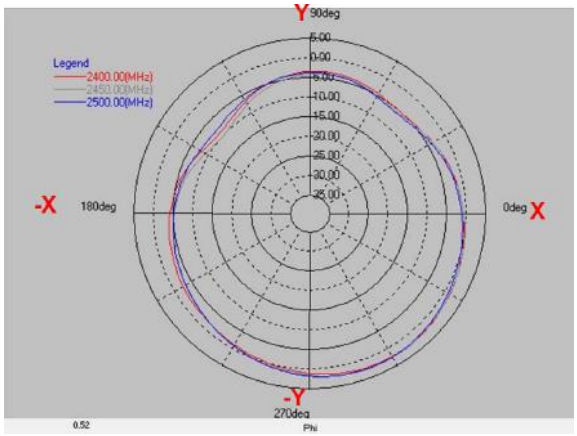
Layer	Max value	Min value	Average
2400(MHz)	0.31 dB	-6.50 dB	-2.43 dB
2450(MHz)	0.22 dB	-6.28 dB	-2.59 dB
2500(MHz)	0.48 dB	-5.27 dB	-2.44 dB

Frequency(MHz)：2400~2500. Z-Y Plane



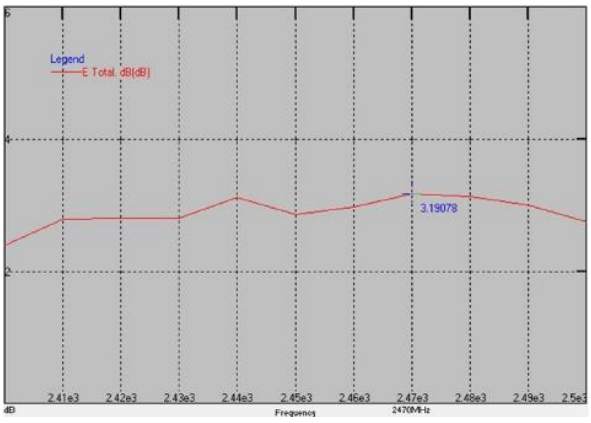
Layer	Max value	Min value	Average
2400(MHz)	1.34 dB	-5.51 dB	-0.89 dB
2450(MHz)	1.91 dB	-6.13 dB	-0.92 dB
2500(MHz)	2.07 dB	-7.38 dB	-0.80 dB

Frequency(MHz)：2400~2500. X-Y Plane



Layer	Max value	Min value	Average
2400(MHz)	2.27 dB	-9.20 dB	-1.54 dB
2450(MHz)	2.60 dB	-10.29 dB	-1.50 dB
2500(MHz)	2.40 dB	-8.04 dB	-1.62 dB

Peak Gain



Peak Gain：Max 3.1993.19 dBi

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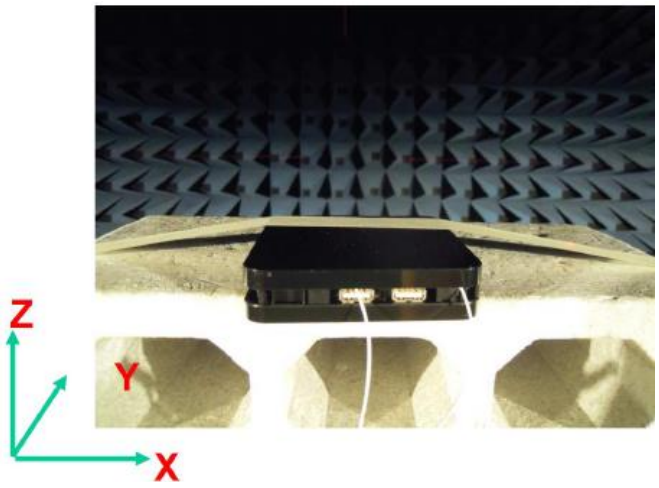
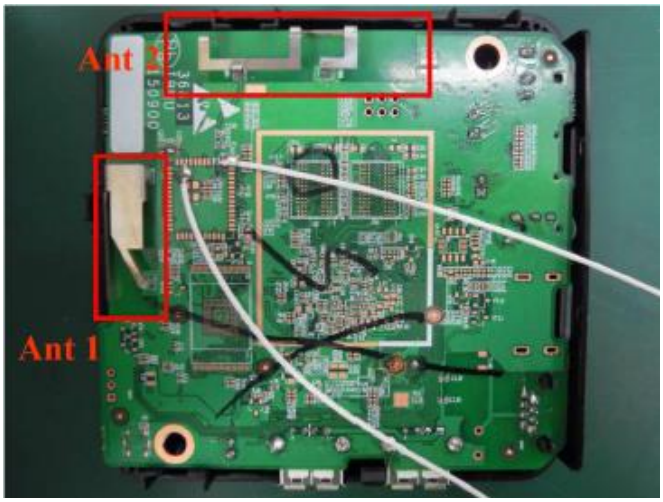
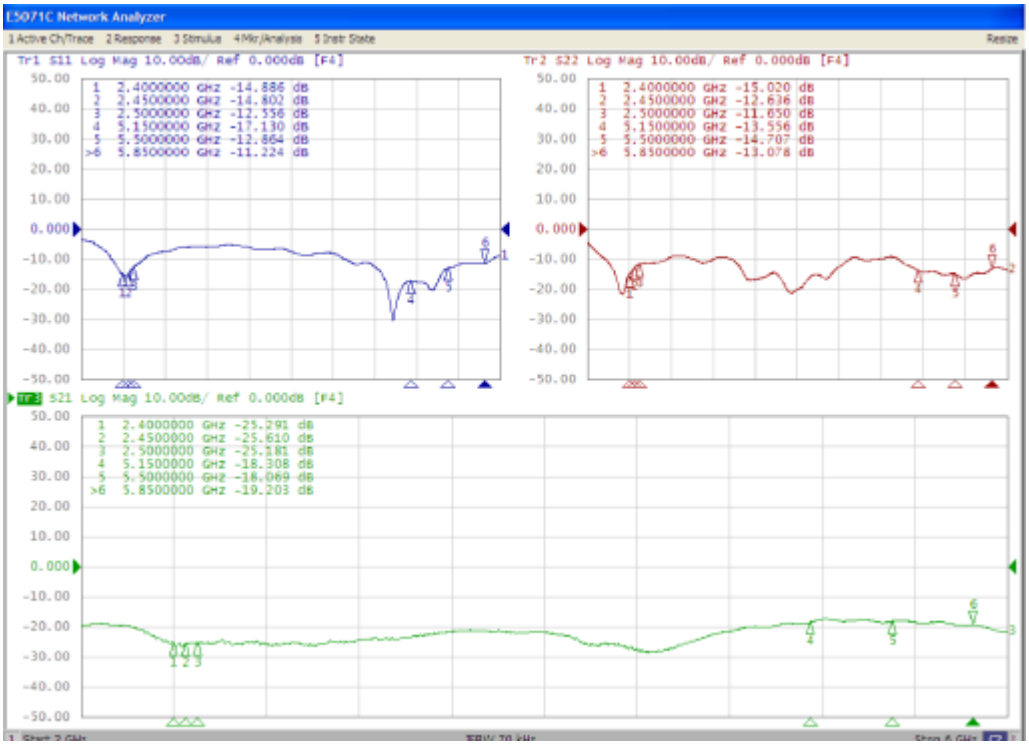
BTMA00290825GD1A02

Experimental Setup





Return Loss Ant 1 → Ant 2



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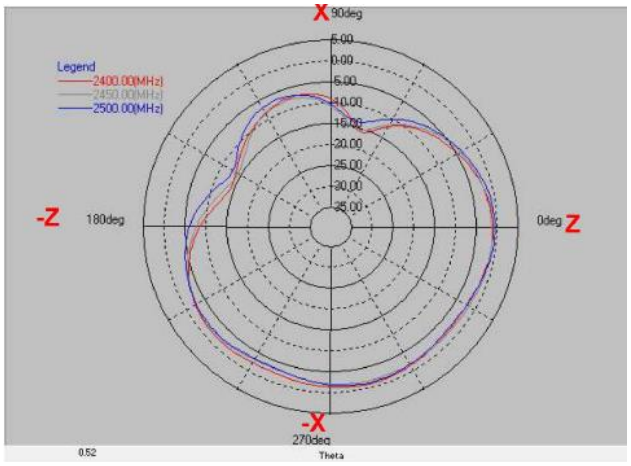
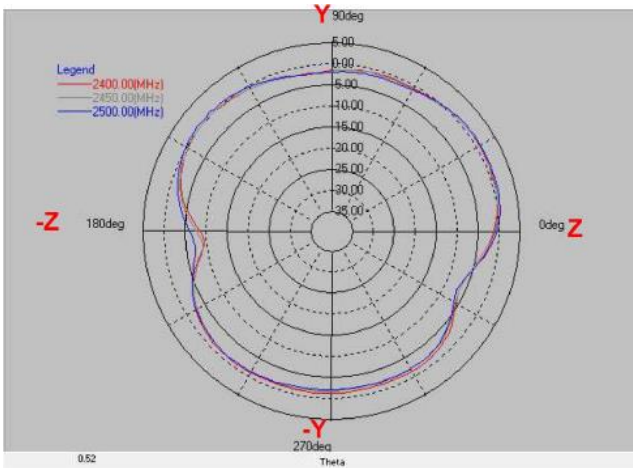
Metal Stamping Antenna BTMA Series

Frequency(MHz)：2400~2500. Pattern Field：X-Z plane



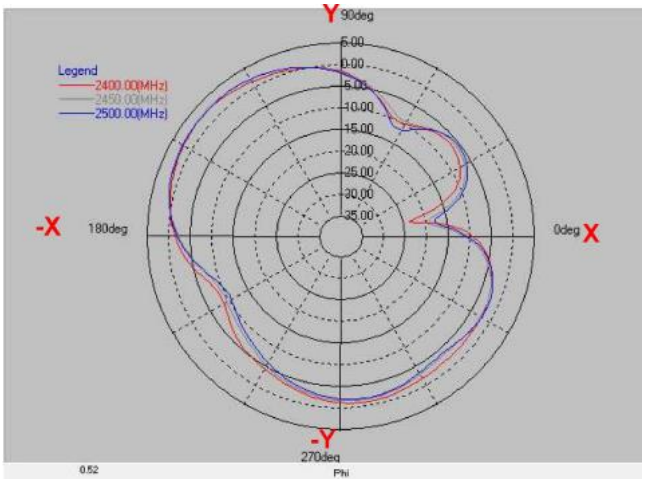
Layer	Max value	Min value	Average
2400(MHz)	-0.89 dB	-16.13 dB	-3.98 dB
2450(MHz)	-1.06 dB	-15.91 dB	-4.19 dB
2500(MHz)	-0.51 dB	-11.13 dB	-3.95 dB

Frequency(MHz)：2400~2500. Pattern Field：Y-Z plane



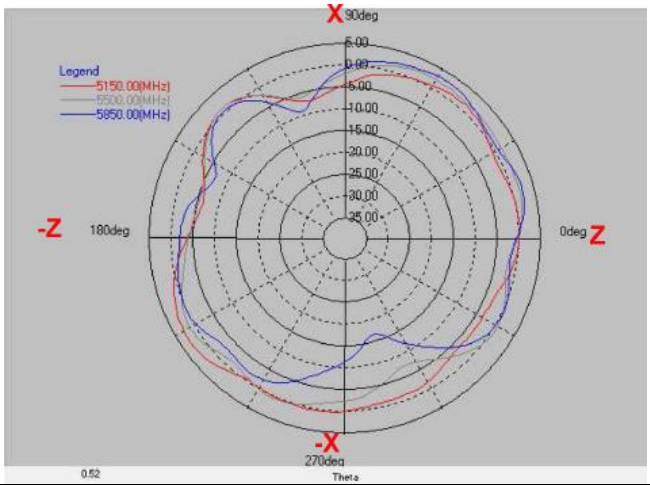
Layer	Max value	Min value	Average
2400(MHz)	0.76 dB	-9.47 dB	-1.56 dB
2450(MHz)	0.94 dB	-9.03 dB	-1.73 dB
2500(MHz)	1.04 dB	-7.20 dB	-1.56 dB

Frequency(MHz)：2400~2500. Pattern Field：X-Y plane



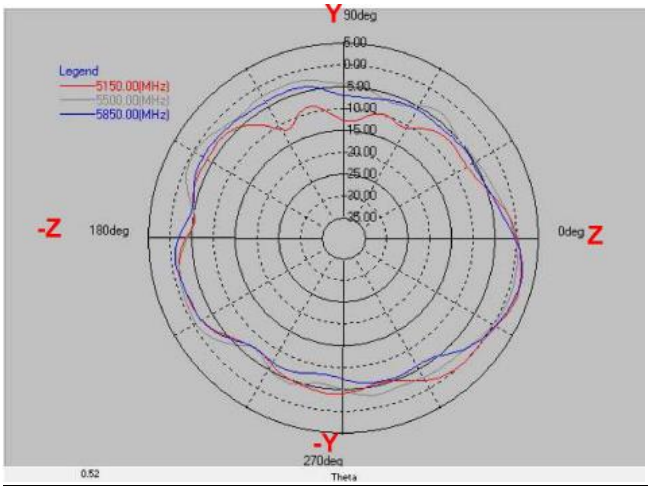
Layer	Max value	Min value	Average
2400(MHz)	2.47 dB	-23.81 dB	-2.21 dB
2450(MHz)	2.71 dB	-19.78 dB	-2.28 dB
2500(MHz)	2.55 dB	-17.95 dB	-2.40 dB

Frequency(MHz)：5150~5850. Pattern Field：Z-X plane



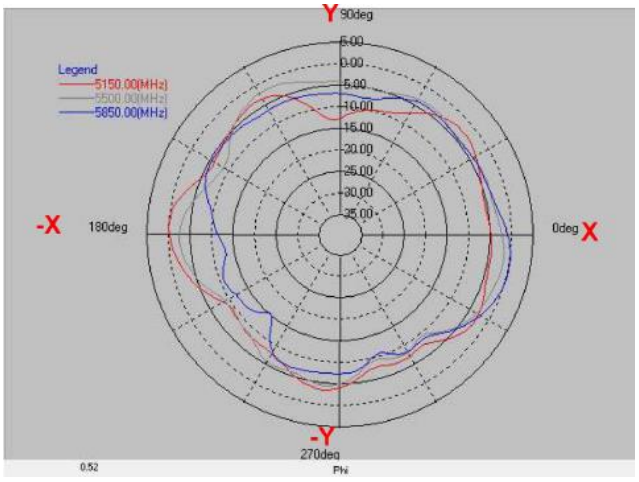
Layer	Max value	Min value	Average
5150(MHz)	2.83 dB	-7.47 dB	-0.79 dB
5500(MHz)	2.08 dB	-7.55 dB	-0.73 dB
5850(MHz)	3.02 dB	-16.98 dB	-1.22 dB

Frequency(MHz)：5150~5850. Pattern Field：Z-Y plane



Layer	Max value	Min value	Average
5150(MHz)	2.33 dB	-13.06 dB	-3.37 dB
5500(MHz)	0.82 dB	-7.57 dB	-2.62 dB
5850(MHz)	2.27 dB	-8.44 dB	-3.28 dB

Frequency(MHz)：5150~5850. Pattern Field：X-Y plane



Layer	Max value	Min value	Average
5150(MHz)	-0.04 dB	-13.16 dB	-4.88 dB
5500(MHz)	-1.42 dB	-9.61 dB	-4.62 dB
5850(MHz)	0.25 dB	-15.48 dB	-5.55 dB

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Pulse a YAGEO company

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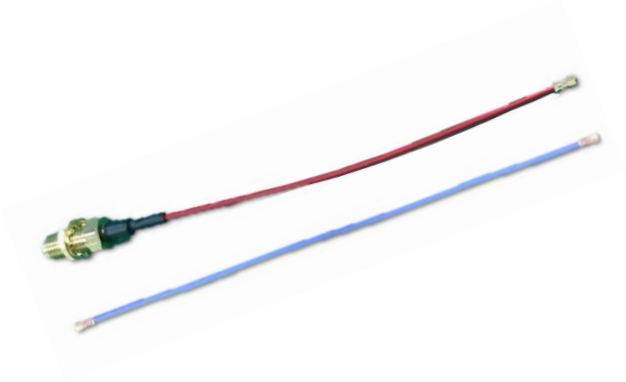
BTAA Series



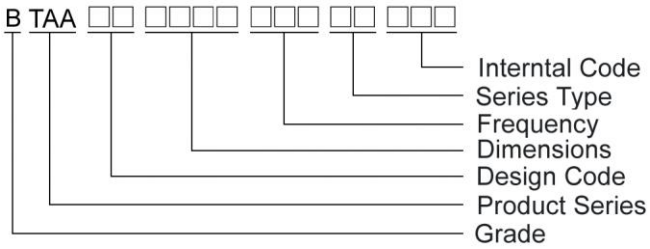
Features

- Frequency DC~6GHz
- Antenna connector, RF coaxial cable can be used with different connectors (SMA, IPEX ...)
- SMA Bulkhead can be adjusted according to your needs,The tooth length can be 11.4mm or 10mm,You can also add a waterproof O-ring.
- Customized

Applications

- Bluetooth, Wireless Router, Set Top Box and Home digital, LTE, NB-IOT, GPS, WiFi

Product Identification



Shapes and Dimensions

FIG 1

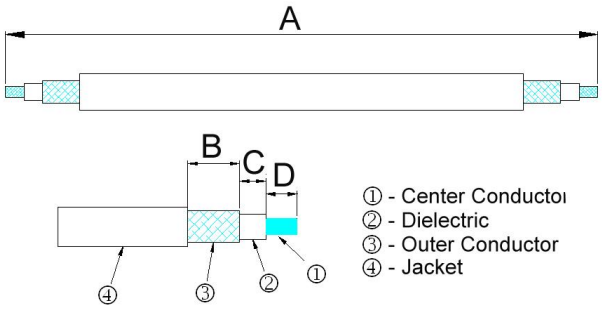
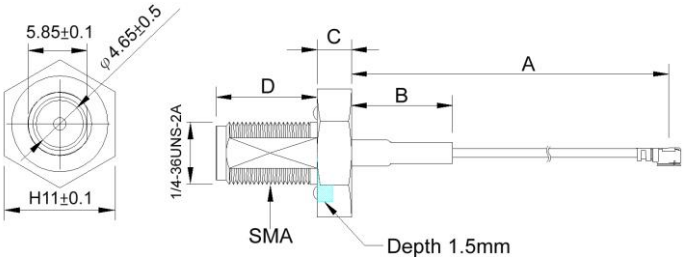


FIG 2



Dimensions in mm

TYPE	FIG	A	B	C	D	SMA
BTAA0000503G0C1A05	1	50^{+30}_{-0}	2	1	1	-
BTAA0000956G0C4A04	2	95±3	10±3	3.4±0.5	14.4±2	Jack

Connection Wire BTAA Series

Shapes and Dimensions

FIG 3

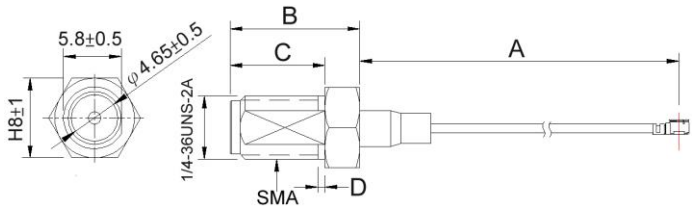


FIG 4

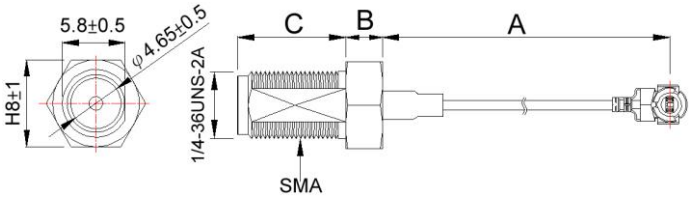


FIG 5

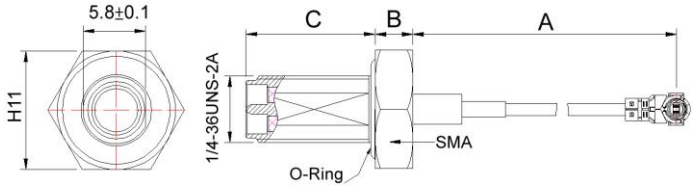
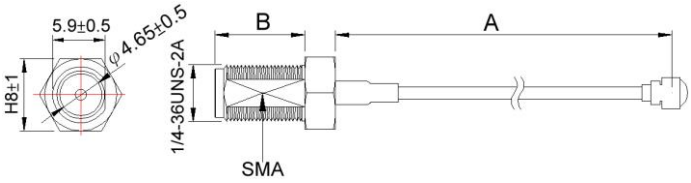


FIG 6



Dimensions in mm

TYPE	FIG	A	B	C	D	SMA
BTAA0001056G0C4A03	3	$105\pm5_0$	13	9.5±2	0.7	Straight Jack Reverse
BTAA0001106G0C1A10	4	110±5	3.4±0.5	10±2	-	Jack Reverse
BTAA0001506G0C4A24	5	150±5	3.5±0.1	12±0.2	-	RP- Straight Jack Reverse
BTAA0001606G0C4A10	3	160±5	13	9.5±2	0.7	Straight Jack Reverse
BTAA0002706G0C4A01	6	270+5-0	10±2	-	-	Jack Reverse

Connection wire BTAA Series

Electrical Characteristics

Part Number	Frequency Range (GHz)	Impedance (Ω)	Insertion Loss dB(Max)	VSWR (Max)	Cable Loss dB(Max)
BTAA0000503G0C1A05	DC~6GHz	50	1.5	2	0.17
BTAA0001056G0C4A03	DC~6GHz	50	-1.6	1.5	-
BTAA0001106G0C1A10	DC~6GHz	50	-2.0	2	-
BTAA0001606G0C4A10	DC~6GHz	50	-1.8	1.5	-
BTAA0002706G0C4A01	DC~6GHz	50	2	1.5	-

Physical Properties

Part Number	Connector Material	Cable	Color	Heat Shrink Tube	SMA	Connector
BTAA0000503G0C1A05	-	1.13	Gray	-	-	-
BTAA0001056G0C4A03	Brass;Gold Plated	1.37	Black	V	Straight Jack Reverse	IPEX-1
BTAA0001106G0C1A10	Brass;Gold Plated	1.13	Black	V	Jack Reverse	IPEX-1
BTAA0001606G0C4A10	Brass;Gold Plated	1.37	Black	V	Straight Jack Reverse	IPEX-1
BTAA0002706G0C4A01	Brass;Gold Plated	1.37	Black	V	Jack Reverse	IPEX-1

- Operating temperature range - 20℃ ~ + 65℃
- Storage temperature range - 30℃ ~ + 75℃

Electrical Characteristics

Part Number	Frequency Range (GHz)	Impedance (Ω)	Insertion Loss dB(Max)	VSWR (Max)
BTAA0001506G0C4A24	DC~6GHz	50	-2.0	2

Physical Properties

Part Number	Connector Material	Cable	Color	Heat Shrink Tube	SMA	Connector
BTAA0001506G0C4A24	Brass;Gold Plated	1.37	Black	V	PR Straight Jack	IPEX-1

- Operating temperature range - 40℃ ~ + 70℃
- Storage temperature range - 40℃ ~ + 80℃

Electrical Characteristics

Part Number	Frequency Range (GHz)	Impedance (Ω)	Insertion Loss dB(Max)	VSWR (Max)
BTAA0000956G0C4A04	DC~6GHz	50	-2.0	2

Physical Properties

Part Number	Connector Material	Cable	Color	Heat Shrink Tube	SMA	Connector
BTAA0000956G0C4A04	-	1.37	Black	V	Jack	IPEX-1

- Operating temperature range - 40℃ ~ + 85℃
- Storage temperature range - 40℃ ~ + 85℃

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

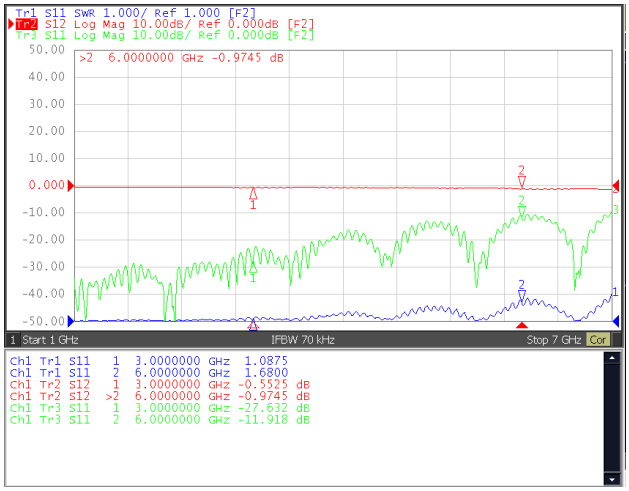
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Connection wire BTAA Series

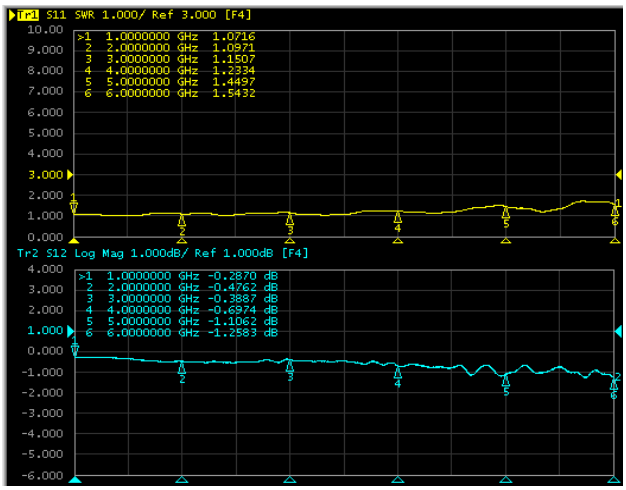
BTAA0000503G0C1A05

Insertion Loss



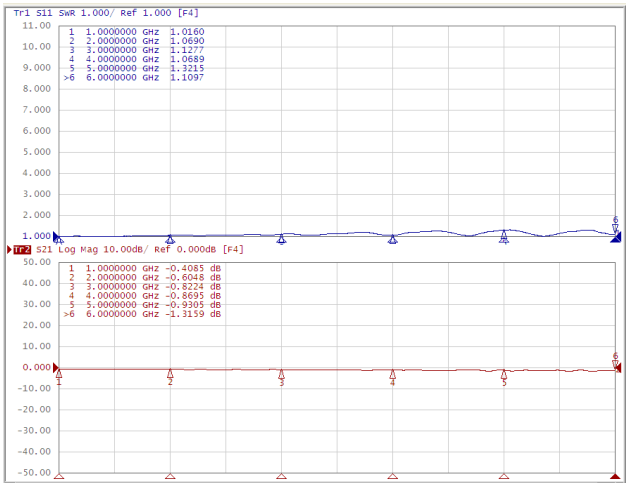
BTAA0000956G0C4A04

Insertion Loss / VSWR



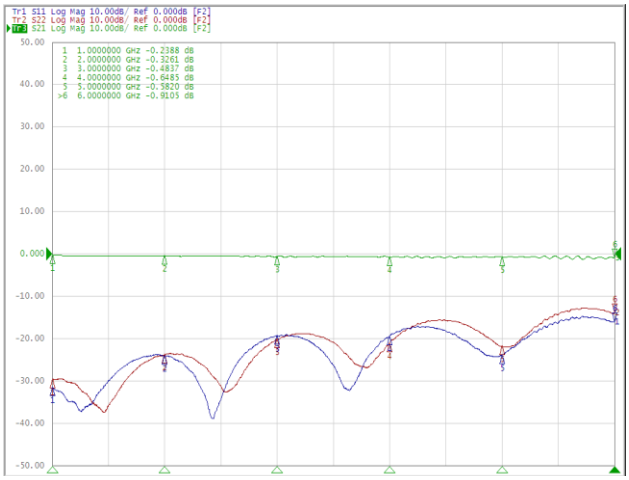
BTAA0001056G0C4A03

Insertion Loss / VSWR

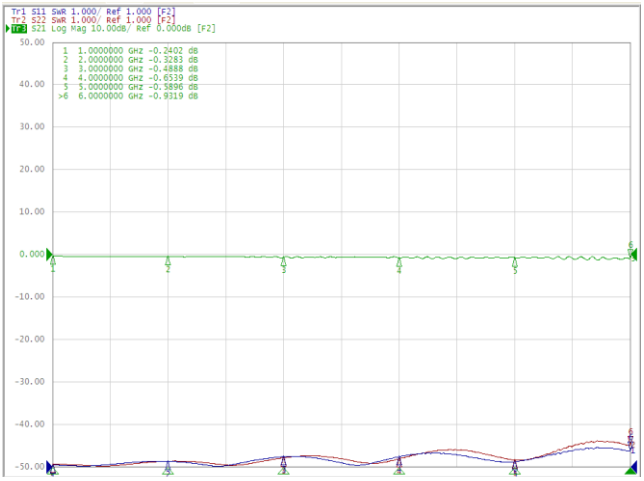


BTAA0001106G0C1A10

Insertion Loss



VSWR



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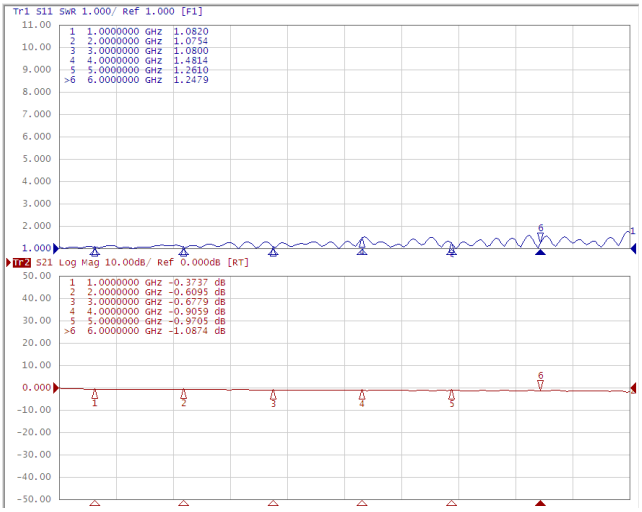
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Connection wire BTAA Series

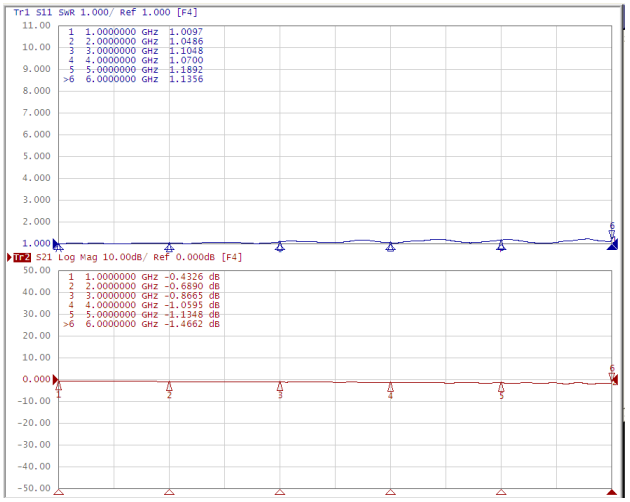
BTAA0001506G0C4A24

Insertion Loss



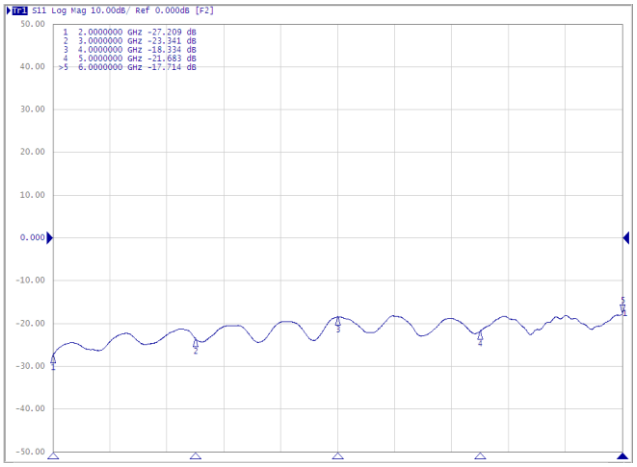
BTAA0001606G0C4A10

Insertion Loss / VSWR

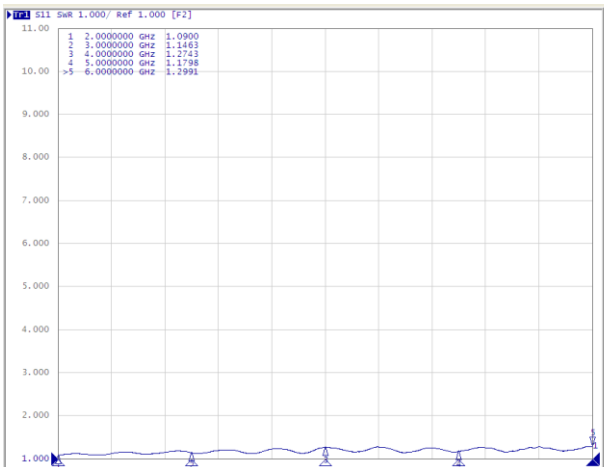


BTAA0002706G0C4A01

Insertion Loss



VSWR



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CHILISIN ELECTRONICS CORP.

BTLL Series

Chilisin offer multilayer devices of Low-Temperature Cofired Ceramics (LTCC) for applications in wireless communication as WLAN, Bluetooth etc. Our commitment is to meet your goals through extensive technological innovation, excellent quality, short lead time and high volume production capability.

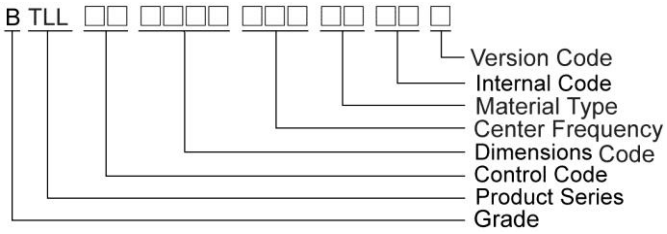
Features

- RoHS, Halogen Free and REACH Compliance
- Miniaturized.
- Low insertion loss, high attenuation.
- Eliminate noise over a wide frequency range. Idea for high frequency and space limited designs.

Applications

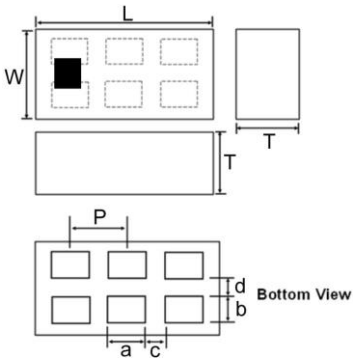
- WLAN ,Home RF, Bluetooth Module, WiMAX Modules, etc.

Product Identification



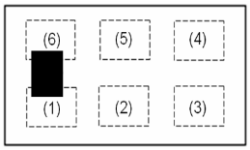
Shapes and Dimensions

FIG 1



Terminal Configuration

FIG 1.1



① NC ② GND ③ NC ④ OUT ⑤ GND ⑥ IN

FIG 2

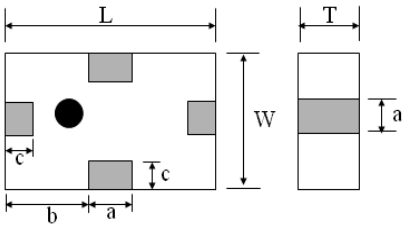
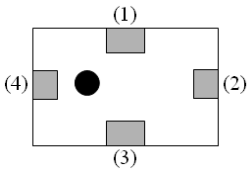


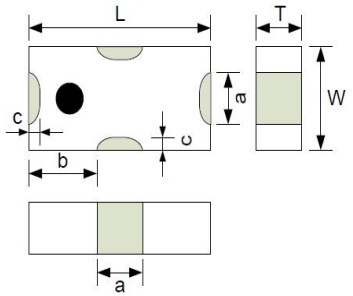
FIG 2.1



① GND ② OUT ③ GND ④ IN

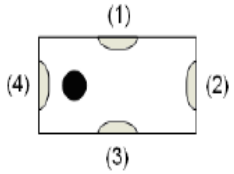
Shapes and Dimensions

FIG 3



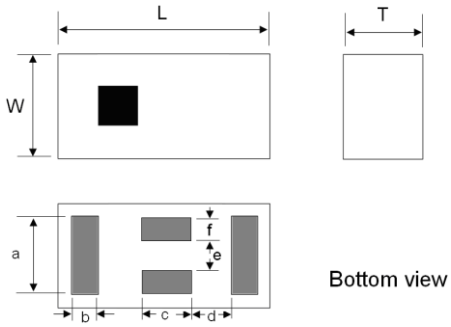
Terminal Configuration

FIG 3.1



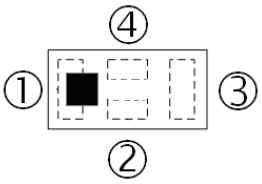
① GND ② OUT ③ GND ④ IN

FIG 4



Bottom view

FIG 4.1~2



- 4.1 ① I/O ② GND ③ I/O ④ GND
- 4.2 ① Input ② GND ③ Output ④ GND

FIG 5

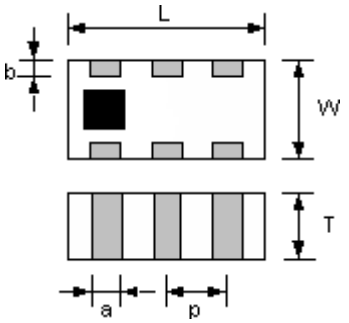
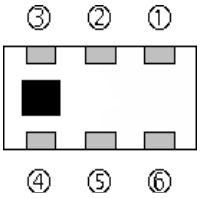


FIG 5.1~3



- 5.1 ① IN ② GND ③ OUT ④ GND ⑤ OUT ⑥ GND
- 5.2 ① GND ② IN ③ GND ④ GND ⑤ OUT ⑥ GND
- 5.3 ① IN ② GND ③ OUT ④ NC ⑤ GND ⑥ NC

FIG 6

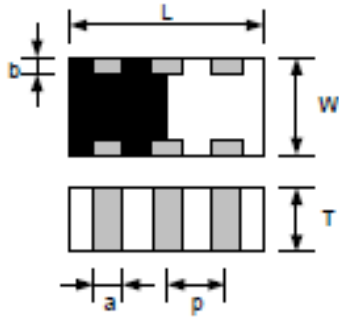
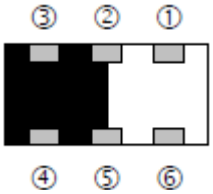


FIG 6.1



① GND ② IN ③ GND ④ GND ⑤ OUT ⑥ GND

FIG 7

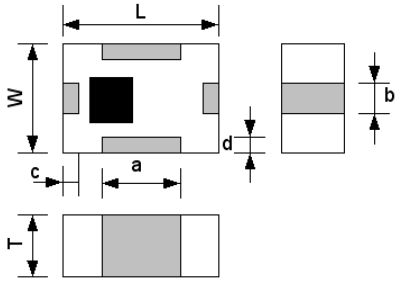
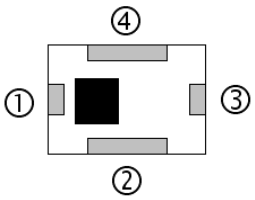


FIG 7.1



① IN ② GND ③ OUT ④ GND

Shapes and Dimensions

FIG 8

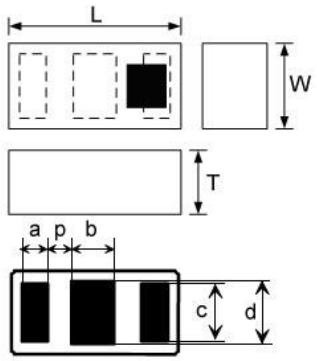


FIG 9

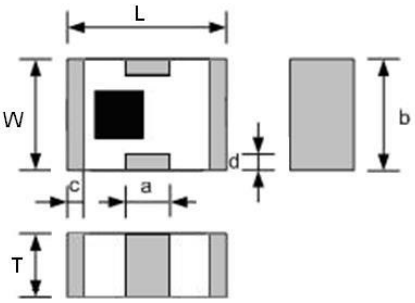


FIG 10

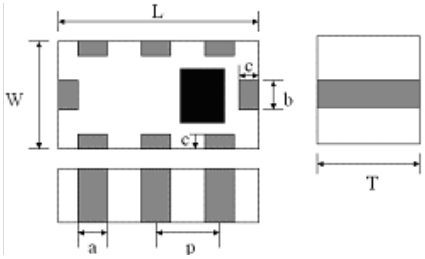
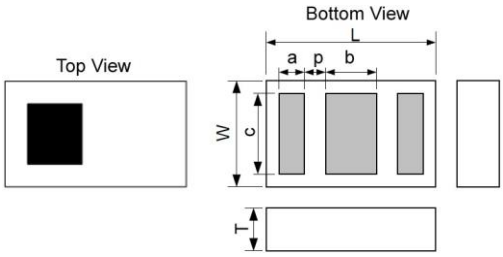
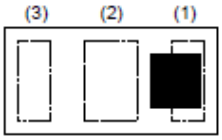


FIG 11



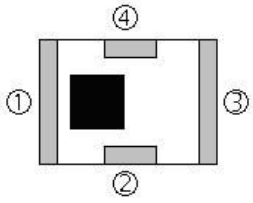
Terminal Configuration

FIG 8.1



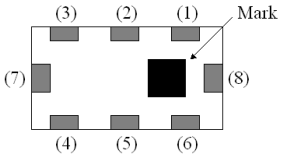
① IN ② GND ③ OUT

FIG 9.1



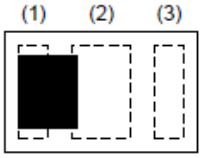
① IN ② GND ③ OUT ④ GND

FIG 10.1



① GND ② NC ③ GND ④ GND
⑤ NC GND ⑦ OUT ⑧ IN

FIG 11.1



① IN ② GND ③ OUT

Low Temperature Cofired Ceramic - BTLL Series

Dimension in mm

TYPE	FIG	L	W	T	a	b	c	d	P
BTLL0010050G9H6A30	1	1.0±0.05	0.5±0.05	0.4Max	0.18±0.05	0.125±0.05	0.18±0.05	0.15±0.05	0.36±0.05
BTLL0010051G7H6A10	1	1.0±0.05	0.5±0.05	0.4±0.1	0.18±0.05	0.125±0.05	0.18±0.05	0.15±0.05	0.36±0.05
BTLL001005EXVHBA10	1	1.0±0.05	0.5±0.05	0.38±0.05	0.18±0.05	0.125±0.05	0.18±0.05	0.15±0.05	0.36±0.05
BTLL001005EXVHBB10	1	1.0±0.05	0.5±0.05	0.38±0.05	0.18±0.05	0.125±0.05	0.18±0.05	0.15±0.05	0.36±0.05
BTLL0010052G4S1A30	2	1.0±0.05	0.5±0.05	0.4±0.05	0.3±0.1	0.35±0.1	0.15±0.05	-	-
BTLL0010052G4S1G20	3	1.0±0.05	0.5±0.05	0.4±0.05	0.3±0.1	0.35±0.1	0.15±0.05	-	-
BTLL0016080G8H6A30	5.1	1.6±0.1	0.8±0.1	0.6±0.1	0.2±0.1	0.15±0.1	$0.2^{+0.1}_{-0.15}$	-	0.5±0.05
BTLL0016082G4S1A10	6	1.6±0.15	0.8±0.1	0.65±0.1	0.3±0.1	$0.3^{+0.1}_{-0.2}$	-	-	0.55±0.1
BTLL0016082G4S1A30	7	1.6±0.1	0.8±0.1	0.6±0.1	0.7±0.15	$0.3^{+0.1}_{-0.15}$	0.15±0.1	0.15±0.1	-
BTLL0016082G4S1A50	5.2	1.6±0.15	0.8±0.1	0.6±0.1	0.3±0.1	$0.3^{+0.1}_{-0.2}$	-	-	0.55±0.1
BTLL0016082G4S1C10	5.2	1.6±0.15	0.8±0.1	0.65±0.1	0.3±0.1	$0.3^{+0.1}_{-0.2}$	-	-	0.55±0.1
BTLL0016082G4S1C20	5.3	1.6±0.1	0.8±0.1	0.6±0.1	0.2±0.1	$0.2^{+0.1}_{-0.15}$	0.15±0.1	-	0.5±0.05
BTLL0016082G5S1A20	5.2	1.6±0.15	0.8±0.1	0.65±0.1	0.3±0.1	$0.3^{+0.1}_{-0.2}$	-	-	0.55±0.1
BTLL0016082G7S1B10	8	1.6±0.1	0.8±0.1	0.65Max	0.25±0.1	0.4±0.1	0.55±0.1	0.6±0.1	0.23±0.05
BTLL0016083G5S1A20	5.1	1.6±0.1	0.8±0.1	0.6±0.1	0.3±0.1	$0.3^{+0.1}_{-0.2}$	0.1±0.1	-	0.55±0.1
BTLL0016083G6S1A10	5.2	1.6±0.15	0.8±0.1	0.65±0.1	0.3±0.1	$0.3^{+0.1}_{-0.2}$	-	-	0.55±0.1
BTLL0016085G5S1A20	9	1.6±0.1	0.8±0.1	0.6±0.1	0.5±0.1	0.8±0.1	0.2±0.1	0.2±0.1	-
BTLL0020120G9S1B20	10	2±0.1	1.25±0.1	0.85±0.1	0.3±0.1	0.3±0.1	$0.3^{+0.1}_{-0.2}$	-	0.65±0.1
BTLL0020122G0S1A20	11	1.6±0.1	0.8±0.1	0.65Max	0.25±0.1	0.4±0.1	0.55±0.1	-	0.6±0.1
BTLL0020125G5S1A20	10	2±0.2	1.25±0.2	0.9±0.1	$0.3^{+0.1}_{-0.15}$	$0.3^{+0.1}_{-0.15}$	0.2±0.15	-	0.65±0.15

TYPE		L	W	T	a	b	c	d	e	f
BTLL0016080G8H6A10	4.1	1.6±0.1	0.8±0.1	0.6±0.1	0.65±0.1	0.225±0.05	0.4±0.05	0.3±0.05	0.21±0.05	0.225±0.05
BTLL001608JXVSBA30	4.1	1.6±0.1	0.8±0.1	0.6±0.1	0.65±0.1	0.225±0.05	0.4±0.05	0.3±0.05	0.21±0.05	0.22±0.05
BTLL001608DXVHBB10	4.2	1.6±0.1	0.8±0.1	0.6±0.1	0.65±0.1	0.225±0.05	0.4±0.05	0.3±0.05	0.21±0.05	0.22±0.05

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

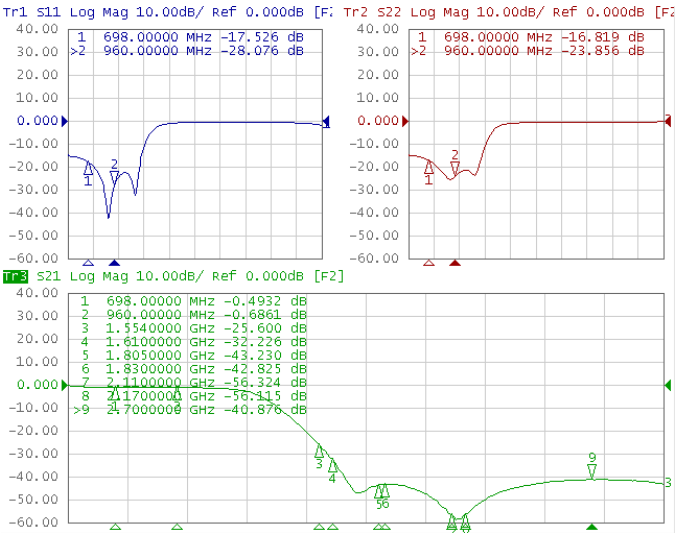
Electrical Characteristics

Part Number	Pass Band (MHz)	Insertion Loss (dB)Max	Return Loss (dB)Min	Attenuation	Application
BTLL0010050G9H6A30	698~960	0.9	10	13dB Min.@ 1554~1610 MHz 35dB Min.@ 1805~1830 MHz 35dB Min.@ 2110~2170 MHz 30dB Min.@ 1710~2700 MHz	GSM/WCDMA/LTE
BTLL0010051G7H6A10	1695~2180	0.6	10	20dB Min.@ 3350~4360 MHz 45dB Min.@ 5085~6540 MHz	GSM/WCDMA/LTE
BTLL0010052G4S1A30	2400~2500	0.45(25℃)	11.7	21dB Min.@ 4800~5000 MHz	WLAN/BT
		0.55(-40~85℃)	-	21dB Min.@ 7200~7500 MHz	
BTLL0010052G4S1G20	2400~2500	0.75(25℃)	12.7	30dB Min.@ 4800~5000 MHz	WLAN/BT
		0.9(-40~85℃)	10	35dB Min.@ 7200~7500 MHz	
BTLL001005EXVHBA10	1880~2025	1.4(25℃)	10	10dB Min.@ 2400~2500 MHz 25dB Min.@ 3760~4050 MHz 25dB Min.@ 5150~5850 MHz 25dB Min.@ 5640~6075MHz 25dB Min.@ 7520~8100 MHz 22dB Min.@ 9400~10125 MHz	GSM/WCDMA/LTE
		1.6(-40~85℃)			
BTLL001005EXVHBB10	1710~2025	1.4(25℃)	10	10dB Min.@ 2400~2500 MHz 25dB Min.@ 3420~4050 MHz 25dB Min.@ 5150~5850 MHz 25dB Min.@ 5130~6075 MHz 25dB Min.@ 6840~8100 MHz 22dB Min.@ 8550~10125 MHz	GSM/WCDMA/LTE
		1.6(-40~85℃)			

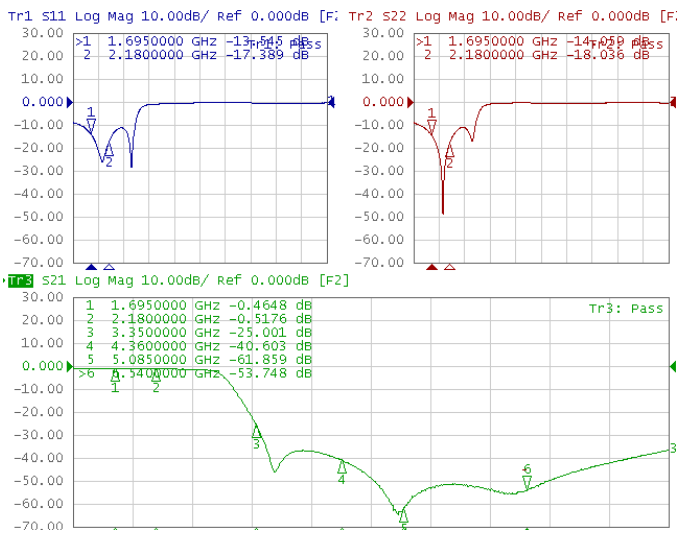
- Operating temperature range －40℃～85℃

Test Instruments：Agilent E5071C Network Analyzer

BTLL0010050G9H6A30



BTLL0010051G7H6A10



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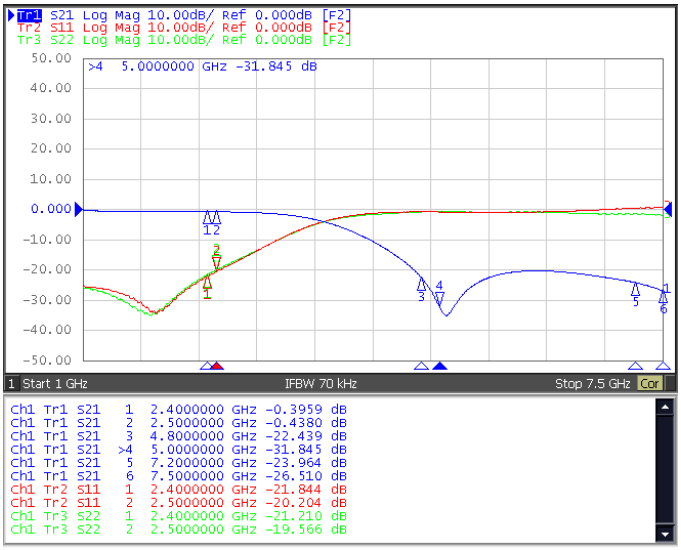
Test Instruments：Agilent E5071C Network Analyzer

BTLL0010052G4S1A30



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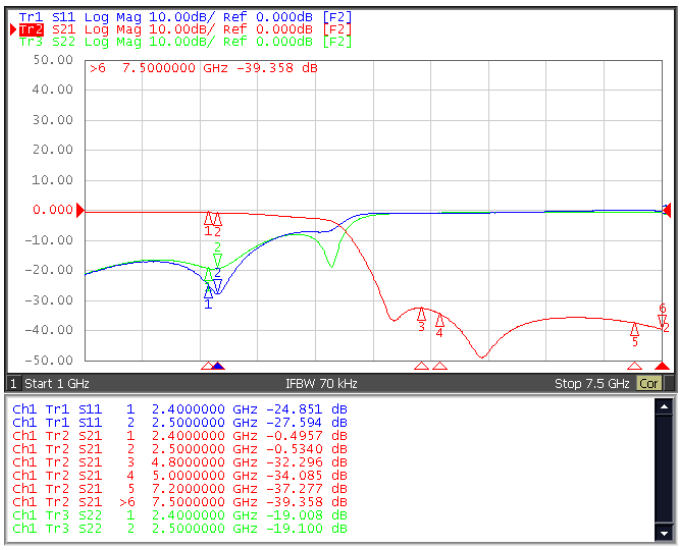

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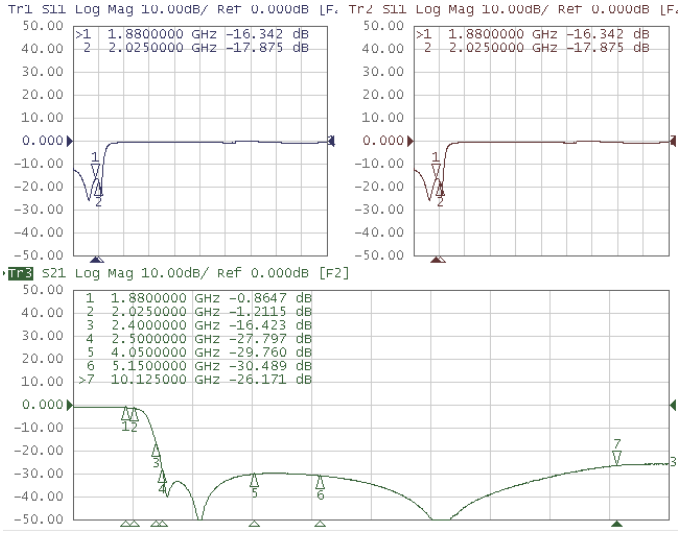

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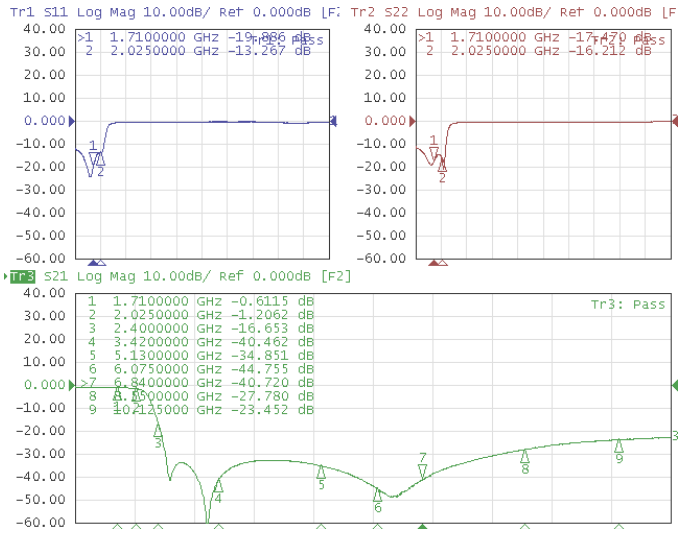

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Electrical Characteristics

Part Number	Pass Band (MHz)	Insertion Loss (dB)Max	Return Loss (dB)Min	Attenuation	Application
BTLL0016080G8H6A10	690~960	0.9(25℃) 1.1(-40~85℃)	10	20dB Min.@ 1350~1920 MHz 48dB Min.@ 2070~2880 MHz	GSM/WCDMA/LTE
BTLL0016080G8H6A30	699~787 787~960	0.6 0.7	10	30dB Min.@ 1427~1920 MHz 30dB Min.@ 2097~2880 MHz	GSM/WCDMA/LTE
BTLL0016082G4S1A10	2400~2500	0.55	10	25dB Min.@ 4800~5000 MHz 20dB Min.@ 7200~7500 MHz	WLAN/BT
BTLL0016082G4S1A30	2300~2690	0.8	10	25dB Min.@ 4600~5400 MHz 25dB Min.@ 6900~8070 MHz	WLAN/BT
BTLL0016082G4S1A50	2400~2500	1	10	15dB Min.@ 3200 MHz 20dB Min.@ 3600 MHz 25dB Min.@ 4800~5000 MHz 20dB Min.@ 7200~7500 MHz	WLAN/BT
BTLL0016082G4S1C10	2400~2500	0.48	14	35dB Min.@ 4800~5000 MHz 27dB Min.@ 7200~7500 MHz	WLAN/BT
BTLL0016082G4S1C20	2400~2500	0.5	10	27dB Min.@ 4800~5000 MHz 30dB Min.@ 7200~7500 MHz	WLAN/BT
BTLL0016082G5S1A20	2400~2700	0.45	10	30dB Min.@ 4800~5400 MHz 23dB Min.@ 7200~8100 MHz	WLAN/BT
BTLL0016082G7S1B10	673~2690	0.5(25℃) 0.7(-40~85℃)	10	35dB Min.@ 4950~6000 MHz 37dB Min.@ 6000~7500 MHz 23dB Min.@ 7500~8100 MHz 20dB Min.@ 8100~12500 MHz	LTE
BTLL0016083G5S1A20	3300~3800	0.5	10	17dB Min.@ 6600~7600 MHz 20dB Min.@ 9900~11400 MHz	WiMAX
BTLL0016083G6S1A10	3300~3800	0.55	10	35dB Min.@ 6600~7600 MHz 25dB Min.@ 9900~11400 MHz	WiMAX
BTLL0016085G5S1A20	4900~5950	0.7	10	20dB Min.@ 9800 MHz 30dB Min.@ 11900 MHz	WLAN
BTLL001608JXVSBA30	699~2690	0.18(0.15Typ)	15	23dB Min./ 25.7dB Typ.@ 5150~5960 MHz	LTE/WLAN/BT

- Operating temperature range －40℃～85℃

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Pass Band (MHz)	Insertion Loss (dB)Max	Return Loss (dB)Min	Attenuation	Application
BTLL001608DXVHBB10	450~698	0.5(0.23Typ)	10(16Typ)	30dB Min./ 35dB Typ.@ 1574~1605 MHz 30dB Min./ 51dB Typ.@ 1648~1698 MHz 30dB Min./ 47dB Typ.@ 1760~1830 MHz 25dB Min./ 29dB Typ.@ 2472~2494 MHz 13dB Min./ 28dB Typ.@ 2495~2547 MHz 30dB Min./ 34dB Typ.@ 5280~5490 MHz 25dB Min./ 29dB Typ.@ 5768~5943 MHz 20dB Min./ 26dB Typ.@ 6160~6405 MHz 18dB Min./ 24dB Typ.@ 6592~6792 MHz 17dB Min./ 21dB Typ.@ 7040~7320 MHz	GSM/WCDMA/LTE
	698~960	0.6(0.48Typ)	16(21Typ)	18dB Min./ 28dB Typ.@ 2640~2745 MHz 16dB Min./ 30dB Typ.@ 3296~3396 MHz 21dB Min./ 31dB Typ.@ 3520~3660 MHz 28dB Min./ 37dB Typ.@ 4120~4245 MHz 32dB Min./ 42dB Typ.@ 4400~4575 MHz 33dB Min./ 39dB Typ.@ 4944~5094 MHz 14dB Min./ 20dB Typ.@ 7416~7614 MHz 4dB Min./ 16dB Typ.@ 7902~8235 MHz	

- Operating temperature range －40℃～85℃

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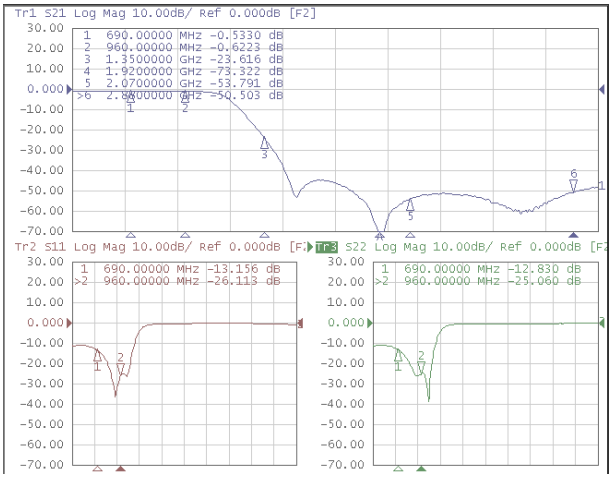
CHILISIN ELECTRONICS CORP.

Test Instruments：Agilent E5071A Network Analyzer

BTLL0016080G8H6A10



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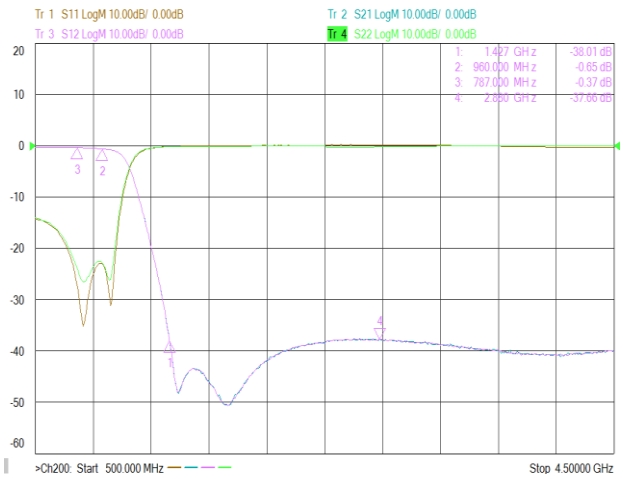

Test Instruments：Agilent E5071A Network Analyzer

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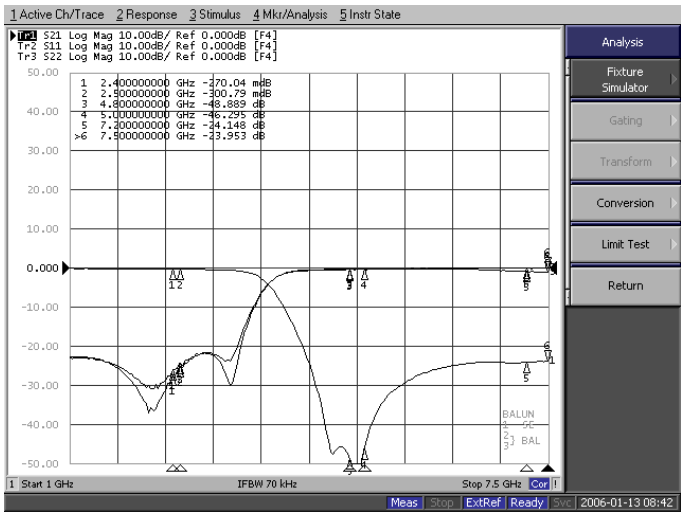
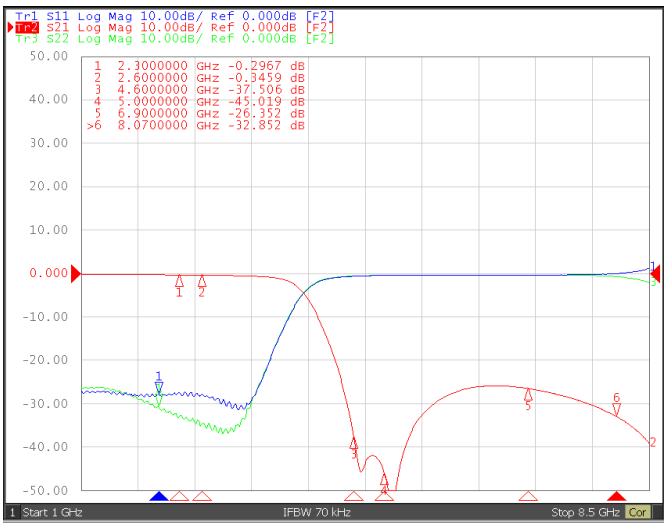


BTLL0016082G4S1A30



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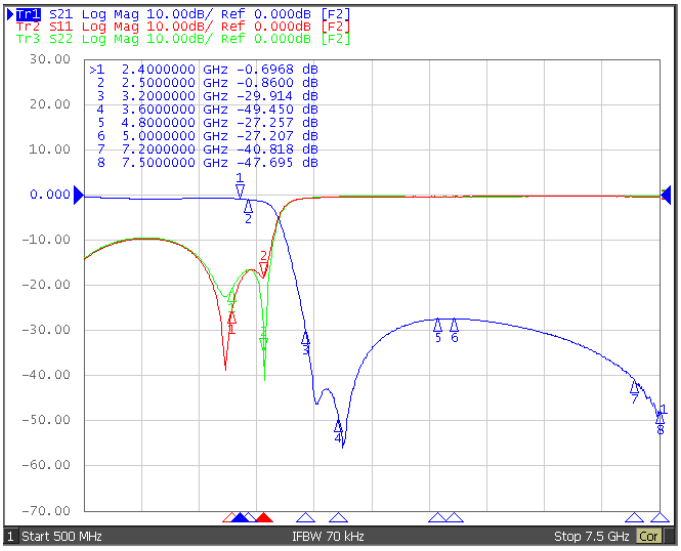

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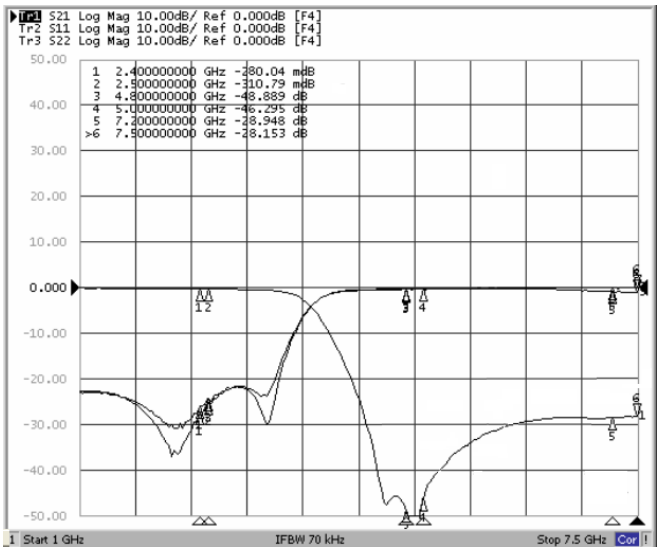

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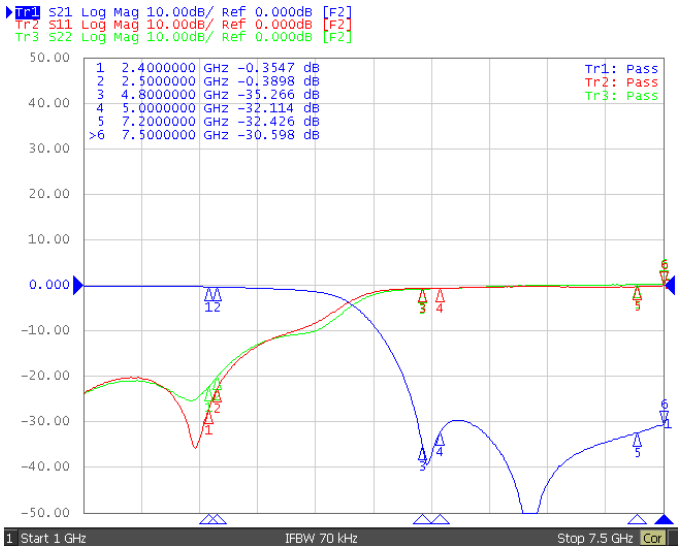
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Test Instruments：Agilent E5071A Network Analyzer

BTLL0016082G4S1C20



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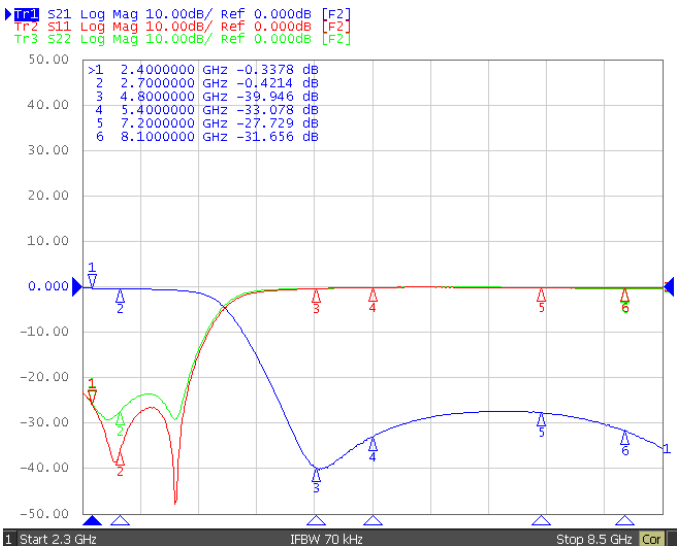

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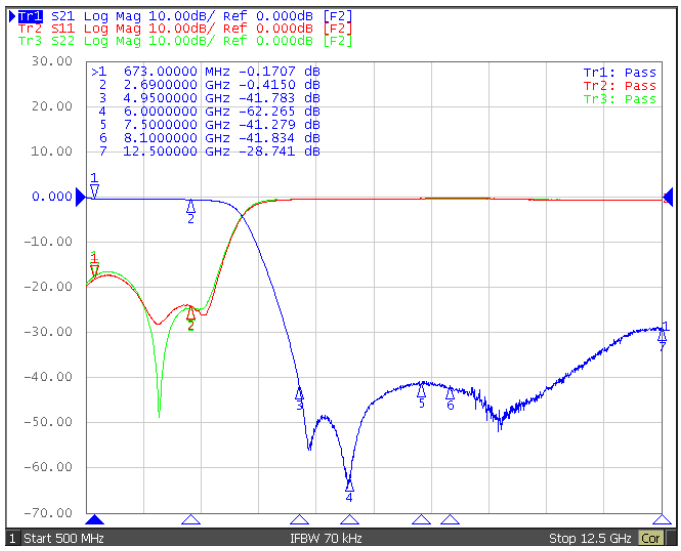

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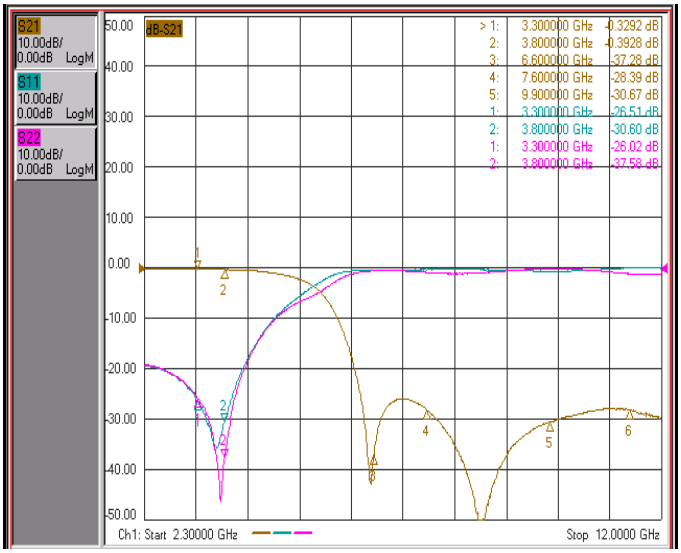

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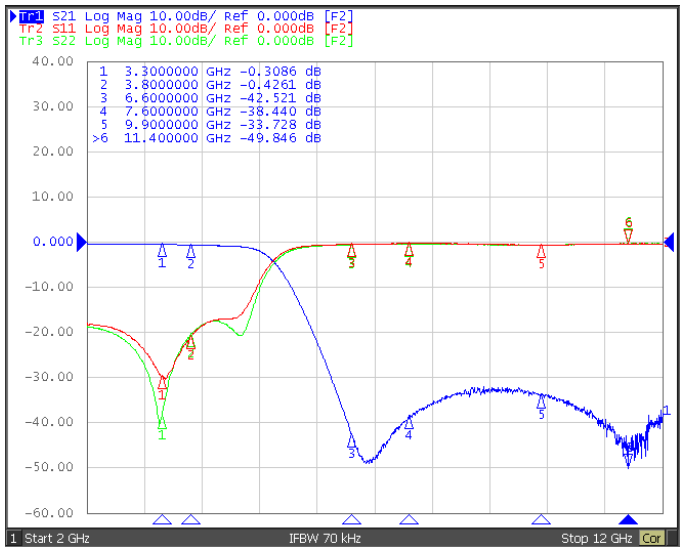

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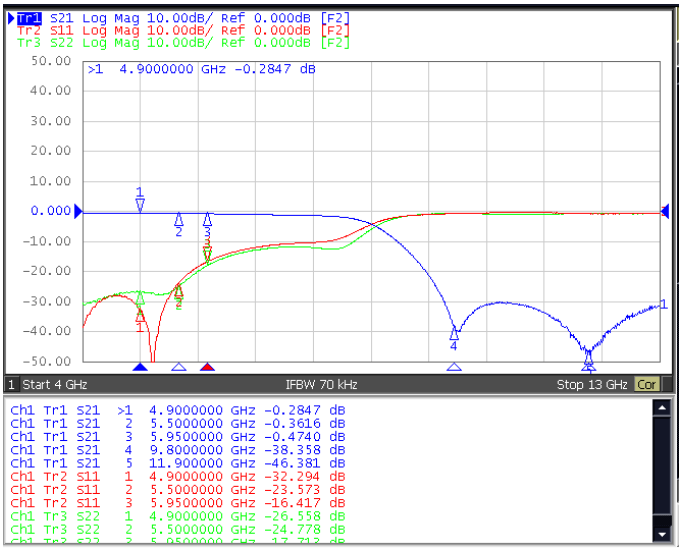

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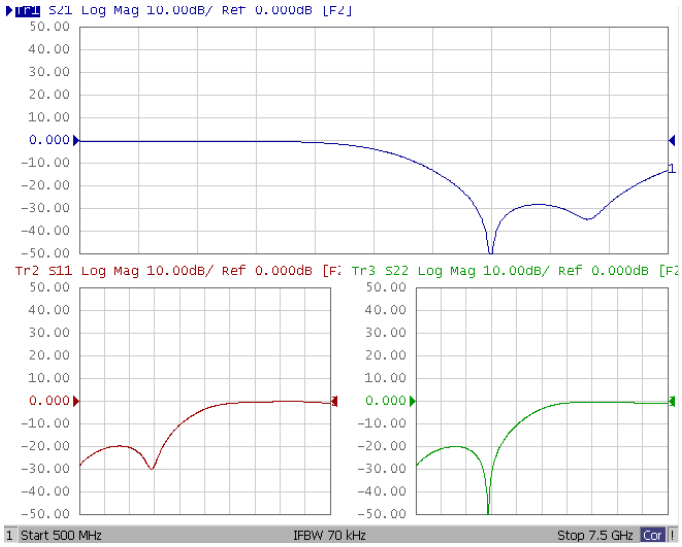
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Test Instruments：Agilent E5071A Network Analyzer

BTLL001608JXVSBA30



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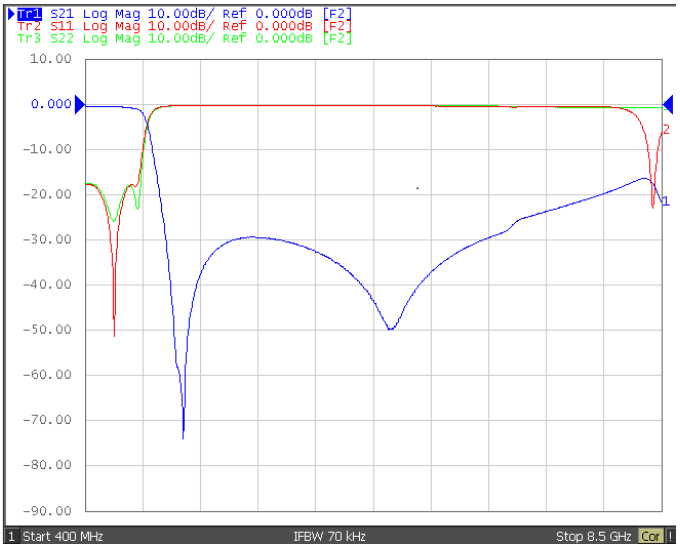

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Electrical Characteristics

Part Number	Pass Band (MHz)	Insertion Loss (dB)Max	Return Loss (dB)Min	Attenuation	Application
BTLL0020120G9S1B20	902~928	0.65	10	25dB Min.@ 2 x f0 25dB Min.@ 3 x f0	zigbee
BTLL0020122G0S1A20	1880~2025	1.4	10	30dB Min.@ 2400~2500 MHz 25dB Min.@ 4020~4045 MHz 30dB Min.@ 6030~6075 MHz	LTE
BTLL0020125G5S1A20	5149~5875	0.7	10	30dB Min.@ 2 x(f0±363)MHz 20dB Min.@ 3 x(f0±363)MHz	WLAN

- Operating temperature range －40℃～85℃

Test Instruments：Agilent E5071A Network Analyzer

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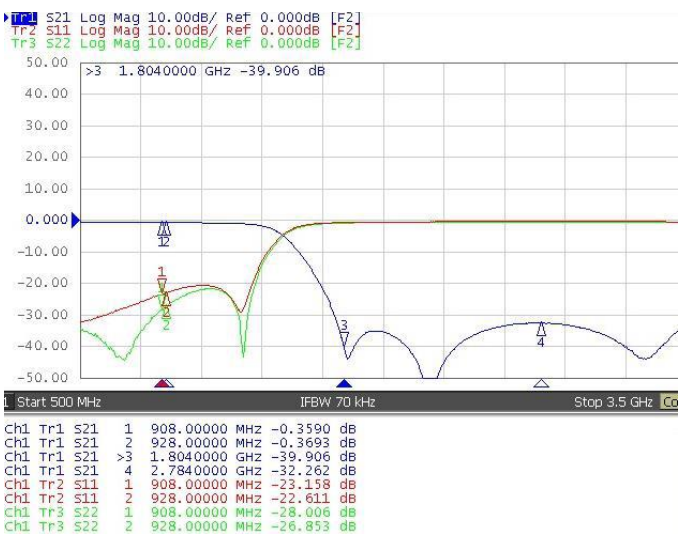

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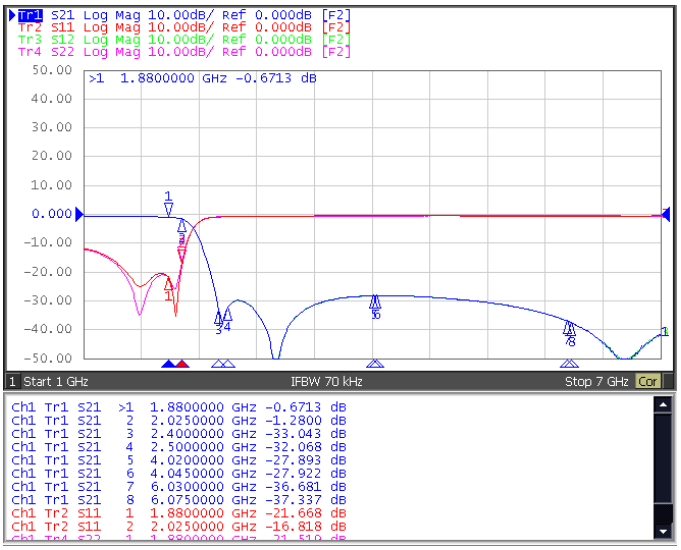

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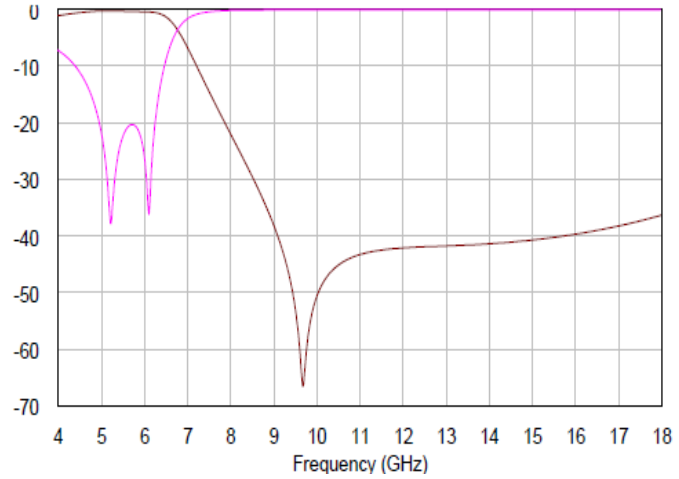

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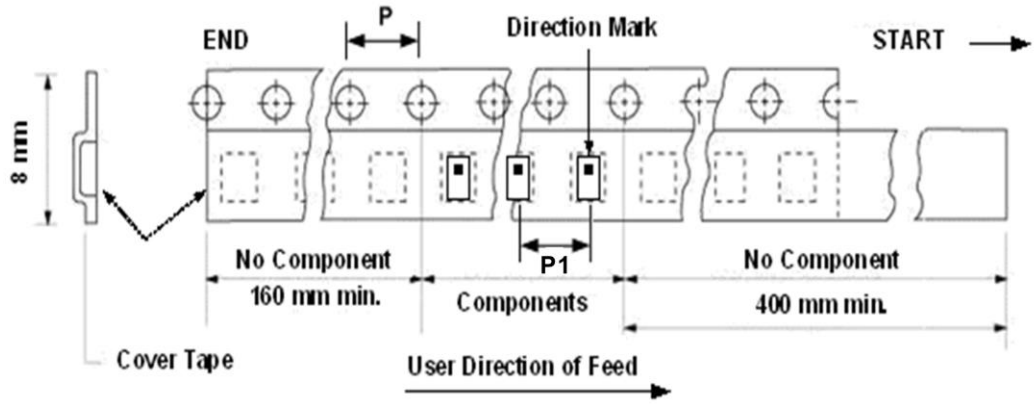
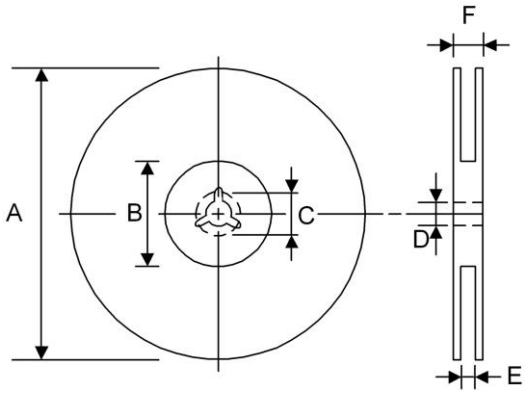
Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions		Reel Dimensions						Quantity
	P	P1	A	B	C	D	E	F	PCS / REEL
BTLL001005	4	2	178	60	-	13	9	12	10000
BTLL001608	4	4	178	60	-	13	9	12	4000
BTLL002012	4	4	178	60	-	13	9	12	4000

BTLB Series

Chilisin offer multilayer devices of Low-Temperature Cofired Ceramics (LTCC) for applications in wireless communication as WLAN, Bluetooth etc. Our commitment is to meet your goals through extensive technological innovation, excellent quality, short lead time and high volume production capability.

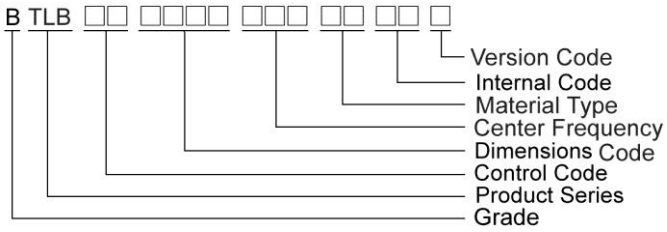
Features

- RoHS, Halogen Free and REACH Compliance
- Miniaturized.
- Low insertion loss, high attenuation.
- Eliminate noise over a wide frequency range. Idea for high frequency and space limited designs.

Applications

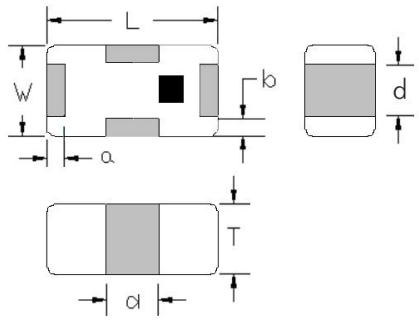
- WLAN ,Home RF, Bluetooth Module, WiMAX Modules, etc.

Product Identification

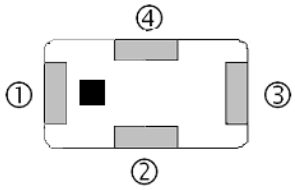


Shapes and Dimensions

FIG 1

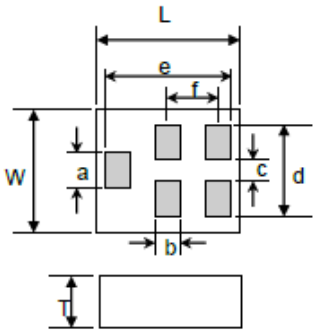


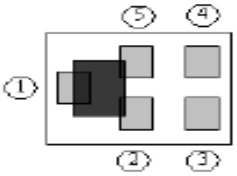
Terminal Configuration



① IN ② GND ③ OUT ④ GND

FIG 2





① IN ② GND ③ GND ④ OUT ⑤ GND

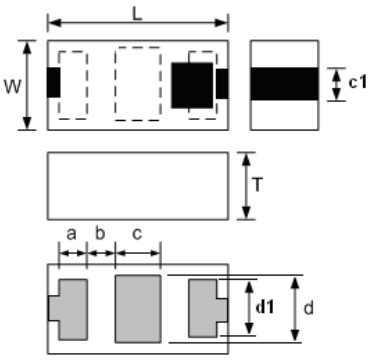
Dimension in mm

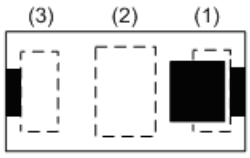
TYPE	FIG	L	W	T	a	b	c	d
BTLB0010052G4H6A40	1	1.0±0.1	0.5±0.1	0.4±0.1	0.1±0.05	0.1±0.05	0.3±0.1	0.3±0.1
BTLB0010052G4H6B60	1	1.0±0.1	0.5±0.1	0.4±0.1	0.1±0.05	0.1±0.05	0.3±0.1	0.3±0.1

TYPE	FIG	L	W	T	a	b	c	d	e	f
BTLB0014112G4H6A30	2	1.4±0.1	1.2±0.1	0.5±0.05	0.325±0.05	0.25±0.05	0.25±0.05	0.9±0.1	1.25±0.1	0.5±0.05

Shapes and Dimensions **Terminal Configuration**

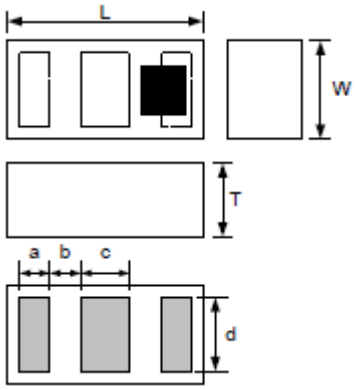
FIG 3

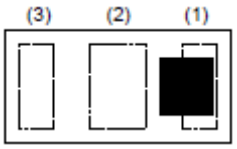




① IN ② GND ③ OUT

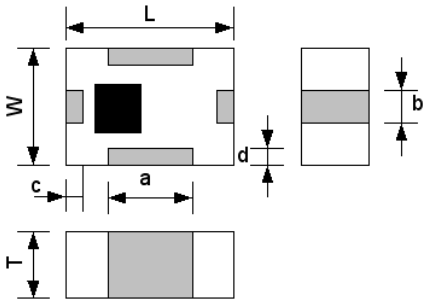
FIG 4

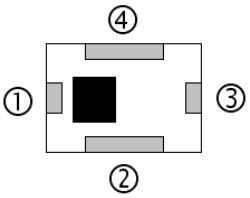




① IN ② GND ③ OUT

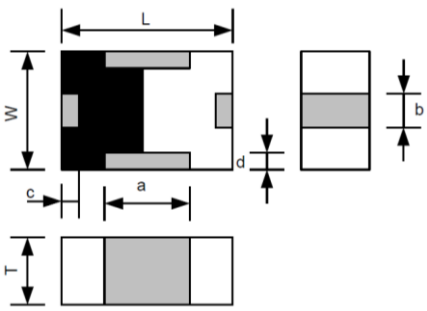
FIG 5

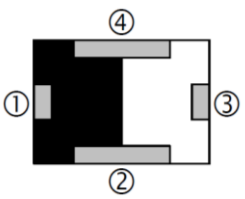




① IN ② GND ③ OUT ④ GND

FIG 6

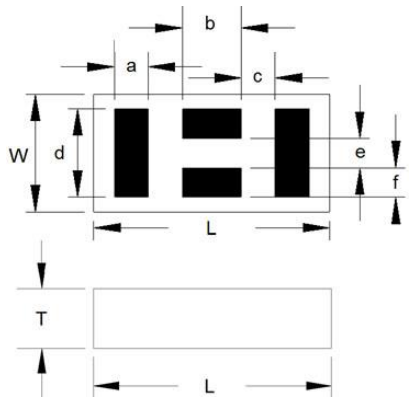


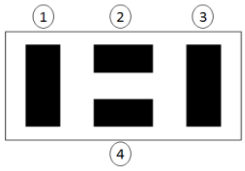


① IN ② GND ③ OUT ④ GND

Shapes and Dimensions **Terminal Configuration**

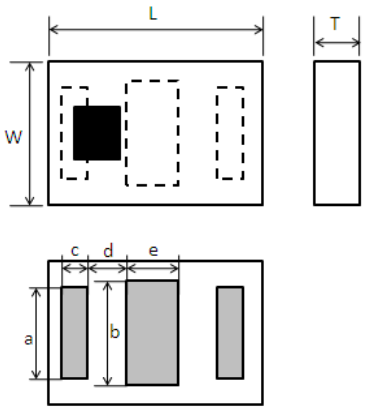
FIG 7

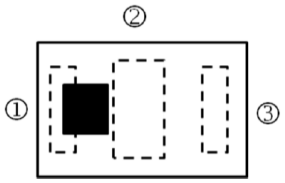




- 7.1 ① I/O ② GND ③ I/O ④ GND
- 7.2 ① IN ② GND ③ OUT ④ GND

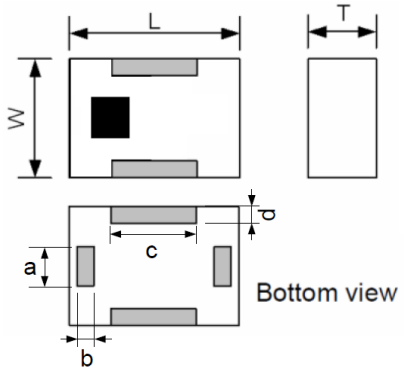
FIG 8

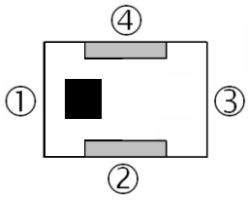




- 8.1 ① IN ② GND ③ OUT
- 8.2 ① I/O ② GND ③ I/O

FIG 9





① IN ② GND ③ OUT ④ GND

Dimension in mm

TYPE	FIG	L	W	T	a	b	c	c1	d	d1
BTLB0016082G4H6BU0	3	1.6±0.1	0.8±0.1	0.6±0.05	0.25±0.1	0.23±0.1	0.4±0.1	0.3±0.15	0.6±0.1	0.55±0.
TYPE	**FIG**	**L**	**W**	**T**	**a**	**b**	**c**	**d**	**e**	**f**
BTLB0016082G4H6DN0	4	1.6±0.1	0.8±0.1	0.6±0.1	0.25±0.1	0.25±0.1	0.5±0.1	0.6±0.1	-	-
BTLB0016082G4H6DQ0	5	1.6±0.1	0.8±0.1	0.6±0.1	0.7±0.15	$0.3^{+0.1}_{-0.15}$	0.15±0.1	0.15±0.1	-	-
BTLB0016082G4H6H10	5	1.6±0.1	0.8±0.1	0.6±0.1	0.7±0.15	$0.3^{+0.1}_{-0.15}$	0.15±0.1	0.15±0.1	-	-
BTLB0016082G4S1A10	6	1.6±0.1	0.8±0.1	0.6±0.1	0.7±0.15	$0.3^{+0.1}_{-0.15}$	0.15±0.1	0.15±0.1	-	-
BTLB001608HXVHBA10	7.1	1.6±0.1	0.8±0.1	0.7±0.05	0.23±0.5	0.4±0.1	0.23±0.1	0.6±0.1	0.2±0.05	0.2±0.0
BTLB001608HXVHBA20	7.2	1.6±0.15	0.8±0.15	0.7±0.05	0.25±0.5	0.4±0.1	0.23±0.1	0.55±0.1	0.21±0.05	0.2±0.0
BTLB0016083G6H6C10	6	1.6±0.1	0.8±0.1	0.6±0.1	0.7±0.15	$0.3^{+0.1}_{-0.15}$	0.15±0.1	0.15±0.1	-	-
BTLB0016085G5H6A00	5	1.6±0.1	0.8±0.1	0.6±0.1	0.7±0.15	$0.3^{+0.1}_{-0.15}$	0.15±0.1	0.15±0.1	-	-
BTLB0016085G5H6A80	8	1.6±0.1	0.8±0.1	0.6±0.1	0.55±0.1	0.6±0.1	0.25±0.1	0.23±0.1	0.4±0.1	
BTLB0016085G5H6A90	8	1.6±0.1	0.8±0.1	0.6Max	0.55±0.1	0.6±0.1	0.25±0.1	0.23±0.1	0.4±0.1	
BTLB0016085G5H6F90	8	1.6±0.1	0.8±0.1	0.6±0.1	0.55±0.1	0.6±0.1	0.25±0.1	0.23±0.1	0.4±0.1	
BTLB001608LXVKBA10	8	1.6±0.15	0.8±0.15	0.6±0.1	0.55±0.1	0.6±0.1	0.25±0.1	0.23±0.05	0.4±0.1	-
BTLB001608LXVKBA20	8	1.6±0.1	0.8±0.1	0.65Max	0.55±0.1	0.6±0.1	0.25±0.1	0.23±0.1	0.4±0.1	-
BTLB001608LXVKBB20	8	1.6±0.1	0.8±0.1	0.65Max	0.55±0.1	0.6±0.1	0.25±0.1	0.23±0.1	0.4±0.1	-
BTLB001608LXVKBA30	4	1.6±0.15	0.8±0.1	0.65Max	0.25±0.1	0.23±0.1	0.4±0.1	0.55±0.1	-	-
BTLB0016085G5S1B10	9	1.6±0.1	0.8±0.1	0.6±0.1	0.3±0.1	0.15±0.05	0.7±0.15	0.15±0.1	-	-
BTLB001608OXVHBA10	8.2	1.6±0.1	0.8±0.1	0.35Max	0.55±0.05	0.6±0.05	0.25±0.05	0.23±0.05	0.4±0.05	-
BTLB001608NXVHBA10	8.2	1.6±0.1	0.8±0.1	0.35Max	0.55±0.05	0.6±0.05	0.25±0.05	0.23±0.05	0.4±0.05	-

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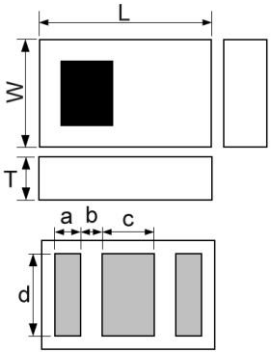
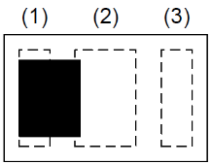
Shapes and Dimensions **Terminal Configuration**

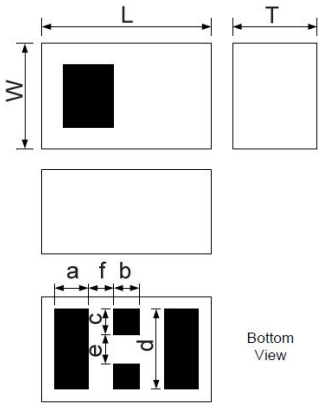
FIG 10

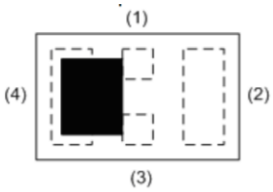




① IN ② GND ③ OUT

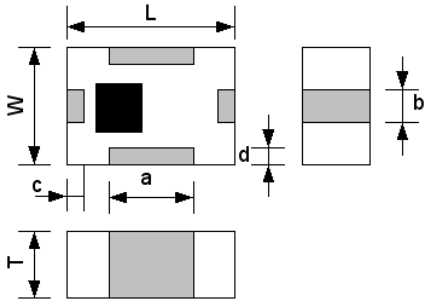
FIG 11

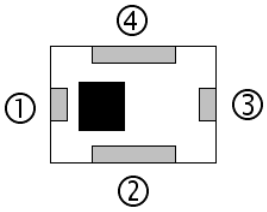




① IN ② GND ③ OUT ④ GND

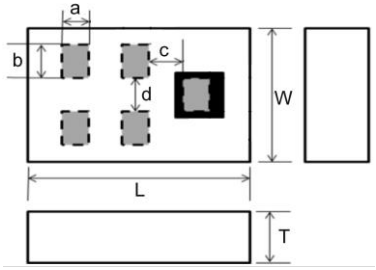
FIG 5

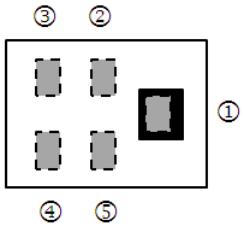




① IN ② GND ③ OUT ④ GND

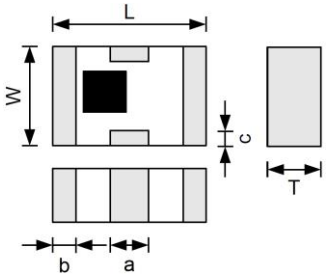
FIG 12

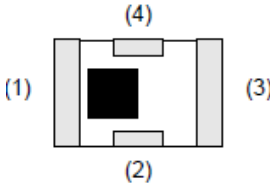




① IN ② GND ③ GND ④ OUT ⑤ GND

FIG 13





① GND ② IN ③ GND ④ OUT

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Dimension in mm

TYPE	FIG	L	W	T	a1	a2	a3	e1
BTLB0020122G4H6A00	10	2±0.15	1.25±0.1	0.45±0.05	0.275±0.1	0.6±0.1	0.95±0.1	0.25±0.05
BTLB0020122G4H6BD0	10	2±0.15	1.25±0.1	0.8±0.05	0.275±0.1	0.6±0.1	0.95±0.1	0.25±0.05
BTLB0020122G4H6C00	10	2±0.15	1.25±0.1	0.45±0.05	0.275±0.1	0.6±0.1	0.95±0.1	0.25±0.05

TYPE	FIG	L	W	T	a	b	c	d	e	f
BTLB0020122G4H6A80	11	2±0.15	1.25±0.1	0.9±0.1	0.4	0.3	0.3	0.95	0.35	0.3
BTLB0020122G4H6A90	5	2±0.15	1.25±0.15	0.95±0.1	$1.6^{+0.1}_{-0.15}$	$0.3^{+0.1}_{-0.15}$	0.3±0.2	0.3±0.2	-	-
BTLB0020122G4H6AH0	5	2±0.15	1.25±0.15	0.95±0.1	$1.6^{+0.1}_{-0.15}$	$0.3^{+0.1}_{-0.15}$	0.3±0.2	0.3±0.2	-	-
BTLB0020122G4H6AS0	12	2±0.15	1.25±0.1	1.0Max	0.175±0.1	0.275±0.1	0.25±0.05	0.25±0.05	-	-
BTLB0020122G4H6AR0	12	2±0.2	1.25±0.2	0.6Max	0.25±0.05	0.325±0.05	0.25±0.05	0.25±0.05		-
BTLB0020122G4H6B50	13	2±0.15	1.25±0.1	0.55±0.1	0.4±0.2	0.3±0.2	0.3±0.2	-	-	-
BTLB0020122G4H6B90	5	2±0.15	1.25±0.15	0.95±0.1	$1.6^{+0.1}_{-0.15}$	$0.3^{+0.1}_{-0.15}$	0.3±0.2	0.3±0.2	-	-
BTLB0020122G4H6D30	5	2±0.15	1.25±0.15	0.95±0.1	$1.6^{+0.1}_{-0.15}$	$0.3^{+0.1}_{-0.15}$	0.3±0.2	0.3±0.2	-	-
BTLB0020122G4S1A10	5	2±0.15	1.25±0.15	0.95±0.1	$1.6^{+0.1}_{-0.15}$	$0.3^{+0.1}_{-0.15}$	0.3±0.2	0.3±0.2	-	-
BTLB0020125G5H6A80	5	2±0.15	1.25±0.15	0.95±0.1	$1.6^{+0.1}_{-0.15}$	$0.3^{+0.1}_{-0.15}$	0.3±0.2	0.3±0.2	-	-
BTLB0020125G5H6B30	5	2±0.15	1.25±0.15	0.95±0.1	$1.6^{+0.1}_{-0.15}$	$0.3^{+0.1}_{-0.15}$	0.3±0.2	0.3±0.2	-	-
BTLB0020125G5H6C50	5	2±0.15	1.25±0.15	0.95±0.1	$1.6^{+0.1}_{-0.15}$	$0.3^{+0.1}_{-0.15}$	0.3±0.2	0.3±0.2	-	-
BTLB0020125G5H6C80	5	2±0.15	1.25±0.15	0.95±0.1	$1.6^{+0.1}_{-0.15}$	$0.3^{+0.1}_{-0.15}$	0.3±0.2	0.3±0.2	-	-
BTLB0020125G5H6D10	5	2±0.15	1.25±0.15	0.95±0.1	$1.6^{+0.1}_{-0.15}$	$0.3^{+0.1}_{-0.15}$	$0.3^{+0.1}_{-0.15}$	0.3±0.2	-	-
BTLB0020125G5H6D80	5	2±0.15	1.25±0.15	0.95±0.1	$1.6^{+0.1}_{-0.15}$	$0.3^{+0.1}_{-0.15}$	0.3±0.2	0.3±0.2	-	-
BTLB0020125G5H6E80	5	2±0.15	1.25±0.15	0.95±0.1	$1.6^{+0.1}_{-0.15}$	$0.3^{+0.1}_{-0.15}$	0.3±0.2	0.3±0.2	-	-

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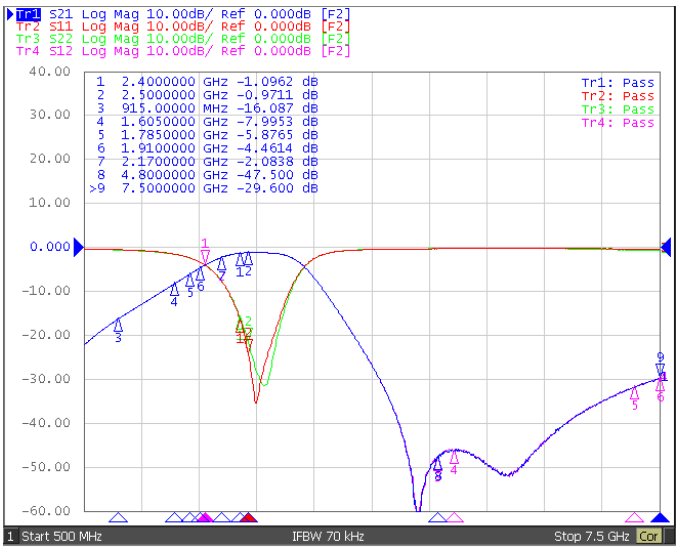
Electrical Characteristics

Part Number	Pass Band (MHz)	Insertion Loss (dB)Max	Return Loss (dB)Min	Attenuation	Application
BTLB0010052G4H6A40	2400~2500	1.5	9	13dB Min.@ 824~915 MHz 5dB Min.@ 15451605 MHz 3.5dB Min.@ 1710~1785 MHz 2dB Min.@ 1850~1910 MHz 1.5dB Min.@ 1920~1980 MHz 0.5dB Min.@ 2110~2170 MHz 34dB Min.@ 4800~5000 MHz 27dB Min.@ 7200~7500 MHz	WLAN/BT
BTLB0010052G4H6B60	2400~2500	2.5	10	25dB Min.@ 824~960 MHz 20dB Min.@ 1710~1910 MHz 30dB Min.@ 4800~5000 MHz 18dB Min.@ 7200~7500 MHz	WLAN/BT

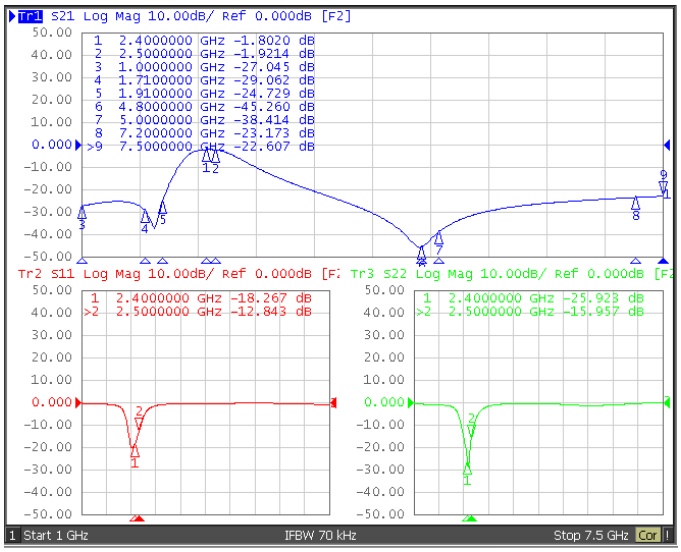
- Operating temperature range －40℃～85℃

Test Instruments：Agilent E5071C Network Analyzer

BTLB0010052G4H6A40



BTLB0010052G4 H6B60



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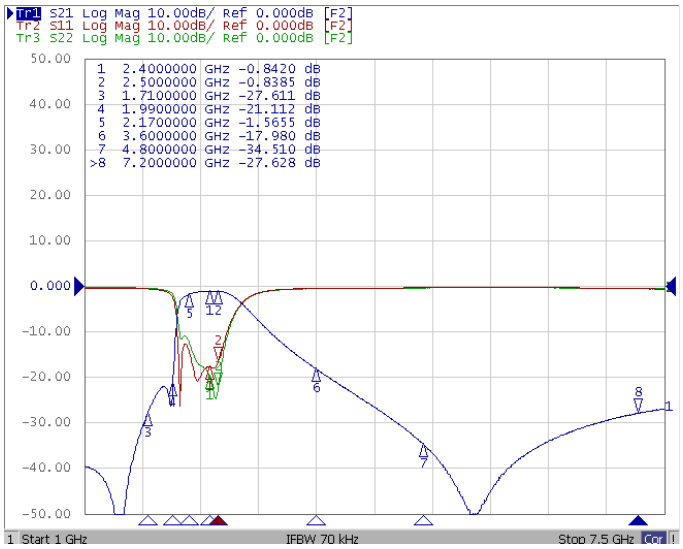
Electrical Characteristics

Part Number	Pass Band (MHz)	Insertion Loss (dB)Max	Return Loss (dB)Min	Attenuation	Application
BTLB0014112G4H6A30	2400~2500	1.1	14	20dB Min.@ 50~960 MHz 10dB Min.@ 1710~1990 MHz 15dB Min.@ 3600 MHz 25dB Min.@ 4800~7200 MHz	WLAN/BT

- Operating temperature range －40℃～85℃

Test Instruments：Agilent E5071C Network Analyzer

BTLB0014112G4H6A30



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Electrical Characteristics

Part Number	Pass Band (MHz)	Insertion Loss (dB)Max	Return Loss (dB)Min	Ripple (dB)Max	Attenuation	Application
BTLB0016082G4H6BU0	2400~2500	25℃ 0.95 -40~85℃ 1.35	10	0.5	20dB Min.@ 500~960 MHz 23dB Min.@ 3200 MHz 30dB Min.@ 4800~5000 MHz 32dB Min.@ 7200~7500 MHz	WLAN/BT
BTLB0016082G4H6DN0	2400~2500	1.3	10	-	25dB Min.@ 500~960 MHz 18dB Min.@ 3200 MHz 30dB Min.@ 4800~5000 MHz 23dB Min.@ 7200~7500 MHz	WLAN/BT
BTLB0016082G4H6DQ0	2400~2500	1.5	10.03	-	30dB Min.@ 800~960 MHz 34dB Min.@ 4800~5000 MHz 34dB Min.@ 7200~7500 MHz	WLAN/BT
BTLB0016082G4H6H10	2400~2500	1.8	10	-	35dB Min.@ 860~910 MHz 20dB Min.@ 1710~1910 MHz 25dB Min.@ 4800~5000 MHz 34dB Min.@ 7200~7500 MHz	WLAN/BT
BTLB0016082G4S1A10	2400~2500	3	10	-	25dB Min.@ 695~800 MHz 20dB Min.@ 1710~1910 MHz 35dB Min.@ 3200 MHz 20dB Min.@ 4800~5000 MHz	WLAN/BT
BTLB001608HXVHBA10	1880~2025	1.9(1.8Typ)	10(21.2Typ)	-	20dB Min./28.5dB Typ.@ 1545~1610 MHz 25dB Min./27.6dB Typ.@ 2400~2500 MHz 25B Min./32.6dB Typ.@ 5150~5850 MHz	GSM WCDMA LTE
BTLB001608HXVHBA20	1805~2025	2.1	10	-	30dB Min.@ 700~950 MHz 15dB Min.@ 950~1050 MHz 35dB Min.@ 2400~2500 MHz 35dB Min.@ 2700~5150 MHz 35dB Min.@ 5150~5850 MHz 32dB Min.@ 5850~12750 MHz	GSM WCDMA LTE
BTLB0016083G6H6C10	3300~3900	2	10	-	30dB Min.@ 806~915 MHz 30dB Min.@ 1710~1980 MHz 25dB Min.@ 2400~2500 MHz 7dB Min.@ 4900~5900 MHz	WiMAX
BTLB0016085G5H6A00	4900~5840	25℃ 1.5 -40~8℃ 1.7	10	-	33dB Min.@ 100~2170 MHz 29dB Min.@ 2170~2500 MHz 32dB Min.@ 9800~12000 MHz	WLAN
BTLB0016085G5H6A80	4900~5950	1.3	11	-	38dB Min.@ 30~2700 MHz 16dB Min.@ 3453~3547 MHz 33dB Min.@ 3667~3883 MHz 9dB Min.@ 6900~7093 MHz 32dB Min.@ 7333~7750 MHz 40dB Min.@ 10600~11650 MHz 18dB Min.@ 15540~17760 MHz	WLAN

- Operating temperature range －40℃～85℃

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Electrical Characteristics

Part Number	Pass Band (MHz)	Insertion Loss (dB)Max	Return Loss (dB)Min	Attenuation	Application
BTLB0016085G5H6A90	5150~5950	0.8	10	40dB Min.@ 30~2700 MHz 45dB Min.@ 3400~3800 MHz 12dB Min.@ 7250~7800 MHz 30dB Min.@ 10300~11700 MHz	WLAN
BTLB0016085G5H6F90	4900~5950	1	10	38dB Min.@ 30~2700 MHz 16dB Min.@ 3453~3547 MHz 33dB Min.@ 3667~3883 MHz 9dB Min.@ 6900~7093 MHz 20dB Min.@ 7333~7750 MHz 38dB Min.@ 10600~11650 MHz 18dB Min.@ 15540~17760 MHz	WLAN
BTLB0016085G5S1B10	4900~5850	1.7	10	42.5dB Min.@ 824~960 MHz 19.5dB Min.@ 1570~1580 MHz 43.5dB Min.@ 1710~1910 MHz 30.5dB Min.@ 1920~1990 MHz 21.5dB Min.@ 2110~2170 MHz 40dB Min.@ 2400~2500 MHz 25dB Min.@ 9800~11700 MHz 10dB Min.@ 14700~17550 MHz	WLAN
BTLB001608LXVKBA10	5150~5950	0.6(0.36Typ)	13(17.8Typ)	35dB Min./39dB Typ.@ 2400~2500 MHz 30dB Min./ 45dB Typ.@ 1.03~1.19 GHz 25dB Min./ 27dB Typ.@ 1.545~1.785 GHz	WLAN
BTLB001608LXVKBB20	5150~5950	0.7	12(17.7Typ)	35dB Min./ 44.1dB Typ.@ 700~2690 MHz 30dB Min./ 36.7dB Typ.@ 3300~3800 MHz 12dB Min./ 30.2dB Typ.@ 7250~7800 MHz 20dB Min./ 36.7dB Typ.@ 1.03~1.17 GHz	WLAN
BTLB001608LXVKBA20	5150~5925	25℃ 0.85(0.66Typ) -40~85℃ 1.0(0.66Typ)	12(17.7Typ)	33dB Min./ 43dB Typ.@ 100~960 MHz 33dB Min./ 41.5dB Typ.@ 1166~1249 MHz 33dB Min./ 40.6dB Typ.@ 1427~1610 MHz 33dB Min./ 39.7dB Typ.@ 1695~2200 MHz 33dB Min./ 39.7dB Typ.@ 2300~2370 MHz 33dB Min./ 40dB Typ.@ 2400~2484 MHz 33dB Min./ 40.2dB Typ.@ 2496~2690 MHz 30dB Min./ 36.7dB Typ.@ 3400~3800 MHz 30dB Min./ 30.7dB Typ.@ 7250~7800 MHz 25dB Min./ 35.9dB Typ.@ 1.03~1.185 GHz 25dB Min./ 28.3dB Typ.@ 1.545~1.7775 GHz	WLAN

- Operating temperature range －40℃～85℃

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Pass Band (MHz)	Insertion Loss (dB)Max		Return Loss (dB)Min	Attenuation	Application
BTLB001608LXVKBA30				10(17.1Typ)	40dB Min./ 46.5dB Typ.@ 100~960 MHz 40dB Min./ 45.2dB Typ.@ 1166~1249 MHz 40dB Min./ 44.5dB Typ.@ 1427~1610 MHz	Wi-Fi 6E
	5150~5710	25℃ -40~85℃	0.9(0.7Typ) 1.2		40dB Min./ 44.4dB Typ.@ 1695~2200 MHz 40dB Min./ 48.4dB Typ.@ 2300~2370 MHz	
	5710~5925	25℃ -40~85℃	0.8(0.55Typ) 1.1		40dB Min./ 49.9dB Typ.@ 2400~2483 MHz 40dB Min./ 52.8dB Typ.@ 2496~2690 MHz	
	5925~6425	25℃ -40~85℃	0.9(0.50Typ) 1.2		30dB Min./ 35.1dB Typ.@ 3300~3800 MHz 7dB Min./ 22.8dB Typ.@ 3800~4200 MHz	
	6425~7125	25℃ -40~85℃	1.5(0.75Typ) 1.8		3dB Min./ 4dB Typ.@ 7600~8400 MHz 25dB Min./ 32.9dB Typ.@ 9000~9200 MHz	
					25dB Min./ 28.6dB Typ.@ 9600~9800 MHz 25dB Min./ 27.8dB Typ.@ 1.03~1.185 GHz 25dB Min./ 31.6dB Typ.@ 1.185~1.425 GHz	
BTLB001608NXVHBA10	3300~4200	-40~85℃	2.5	10(18.22Typ)	10dB Min./ 37.2dB Typ.@ 100~2570 MHz 25dB Min./ 27.7dB Typ.@ 2620~2690 MHz 15dB Min./ 24.8dB Typ.@ 5150~5925 MHz 25dB Min./ 43.5dB Typ.@ 6600~8400 MHz 25dB Min./ 28.3dB Typ.@ ref 0.99~1.26 GHz	LTE/5G
BTLB001608OXVHBA10	4400~5000	-40~85℃	1.9	10(19.73Typ)	35dB Min./ 46.5dB Typ.@ 400~915 MHz 30dB Min./ 45.6dB Typ.@ 925~2485 MHz 20dB Min./ 32.3dB Typ.@ 2485~3600 MHz 7dB Min./ 19.6dB Typ.@ 5850~6100 MHz 15dB Min./ 24.7dB Typ.@ 6100~6890 MHz 25dB Min./ 33.8dB Typ.@ 0.88~1 GHz 20dB Min./ 29.8dB Typ.@ ref 1.32~1.5 GHz	LTE/5G

- Operating temperature range －40℃～85℃

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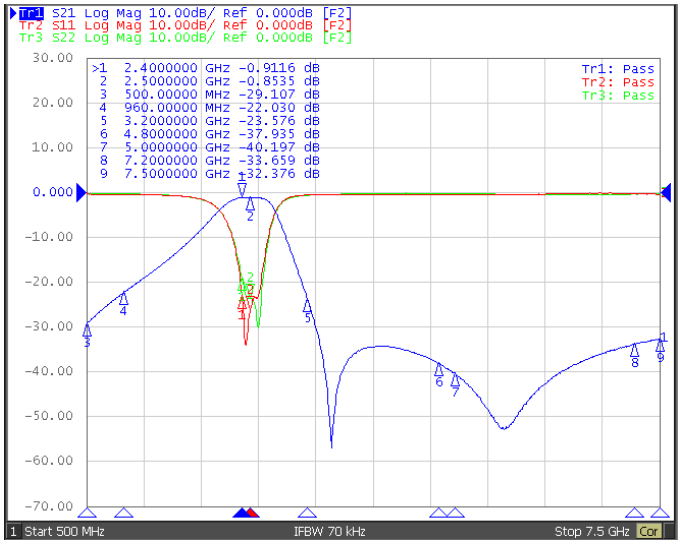
CHILISIN ELECTRONICS CORP.

Test Instruments：Agilent E5071 Network Analyzer

BTLB0016082G4H6BU0



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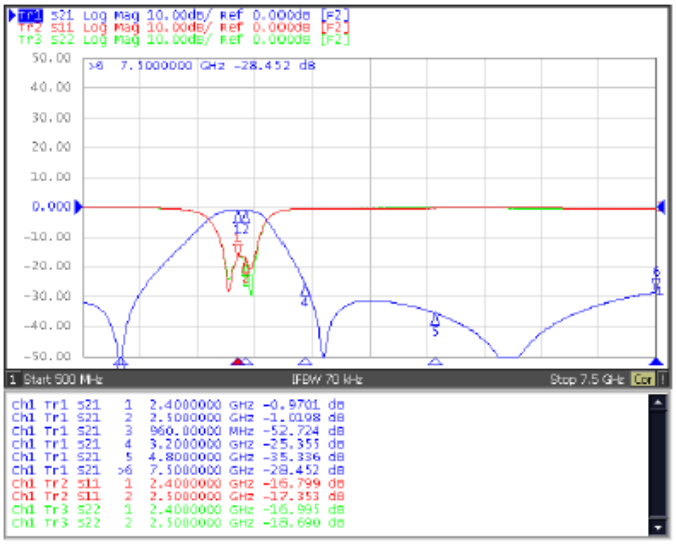

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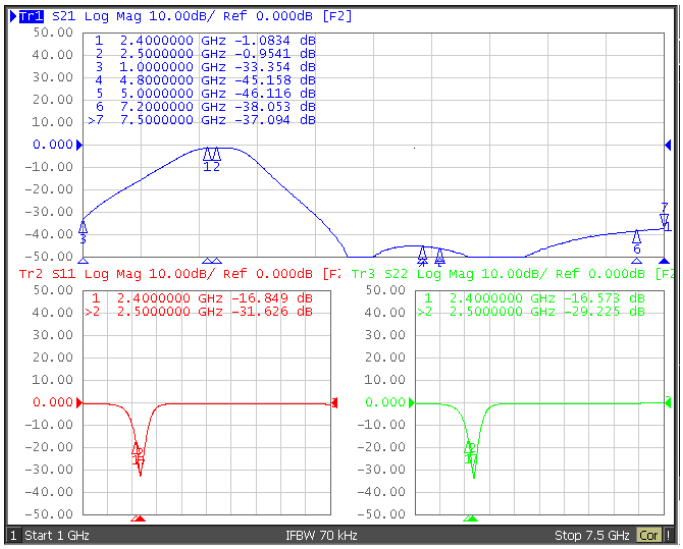

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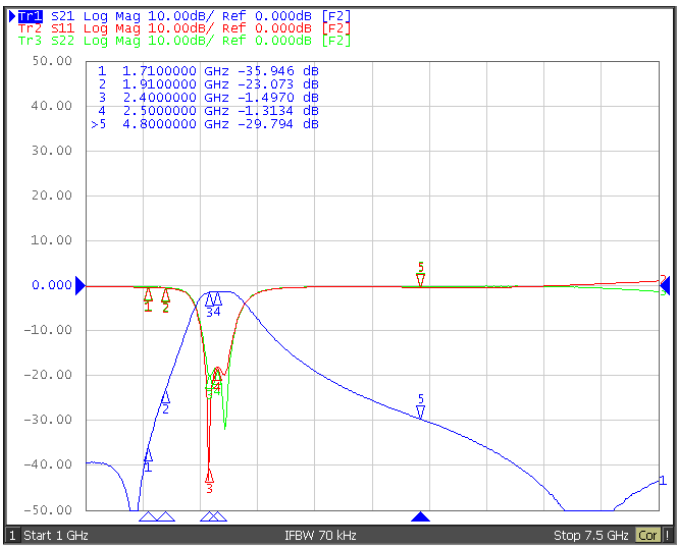

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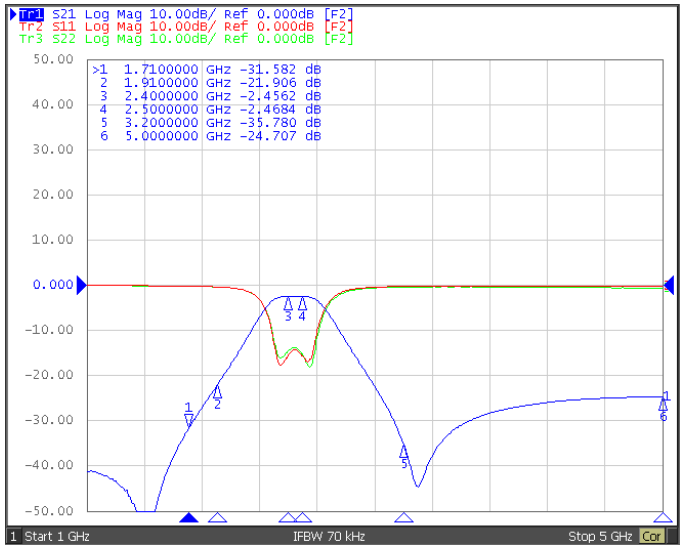

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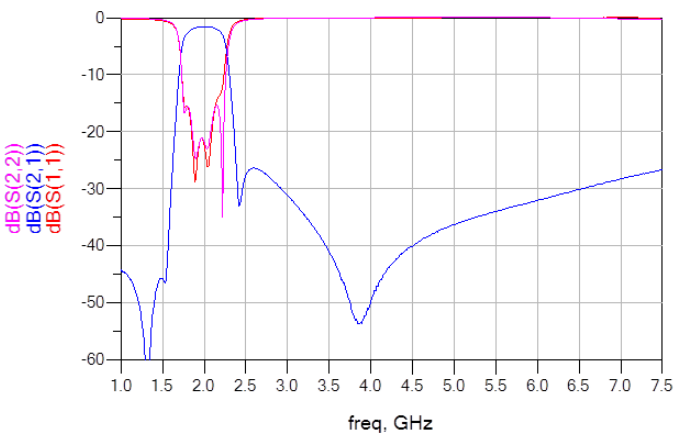

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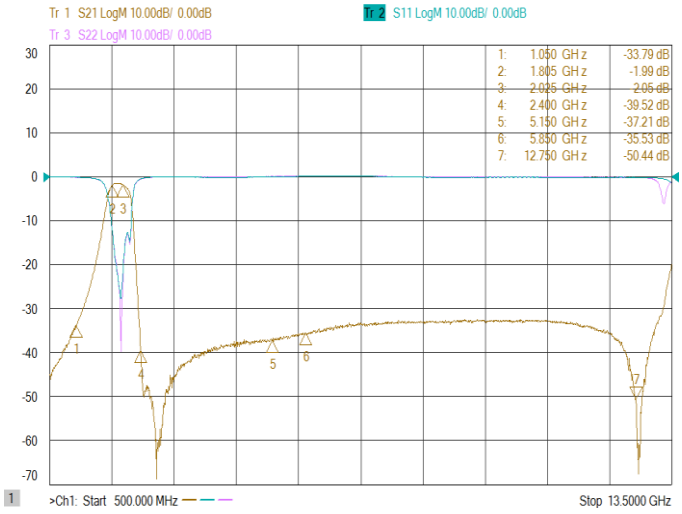
Test Instruments：Agilent E5071 Network Analyzer

BTLB001608HXVHBA20



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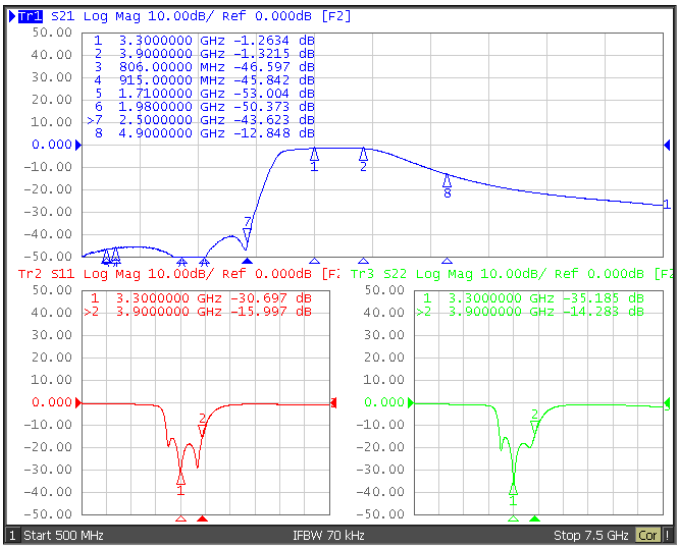

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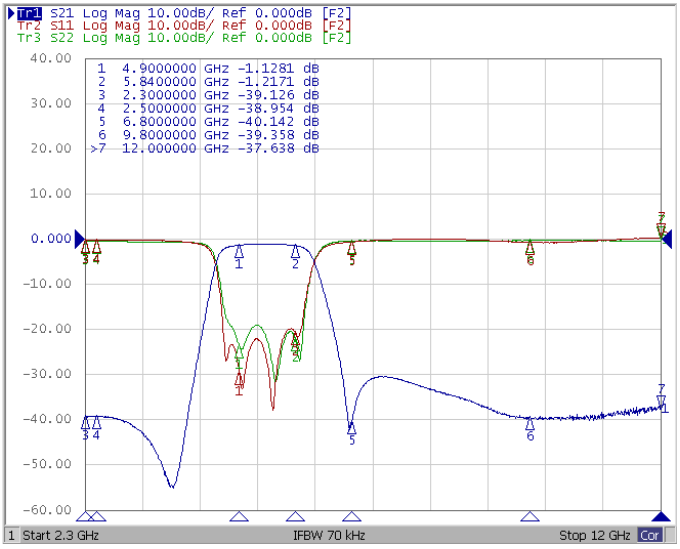

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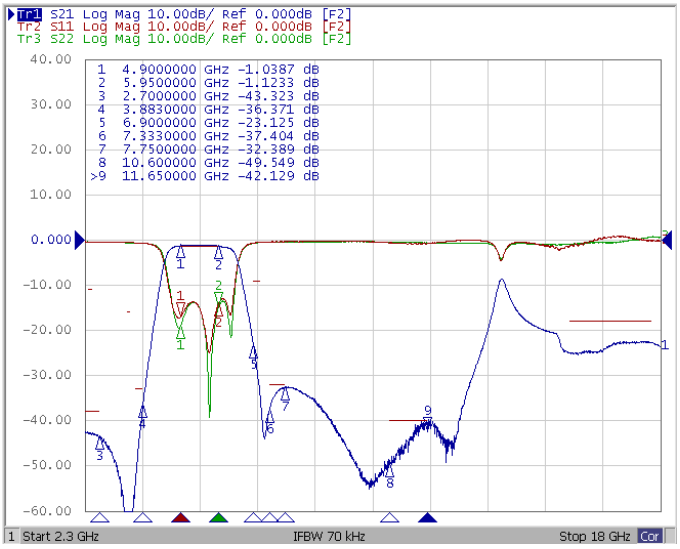

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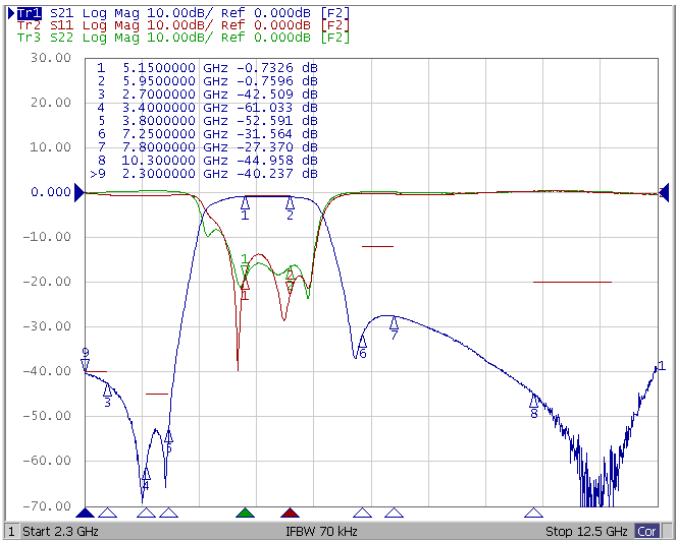

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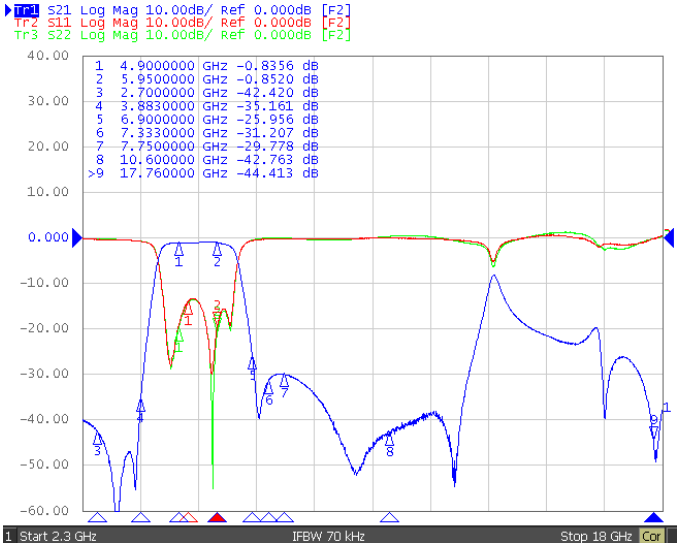

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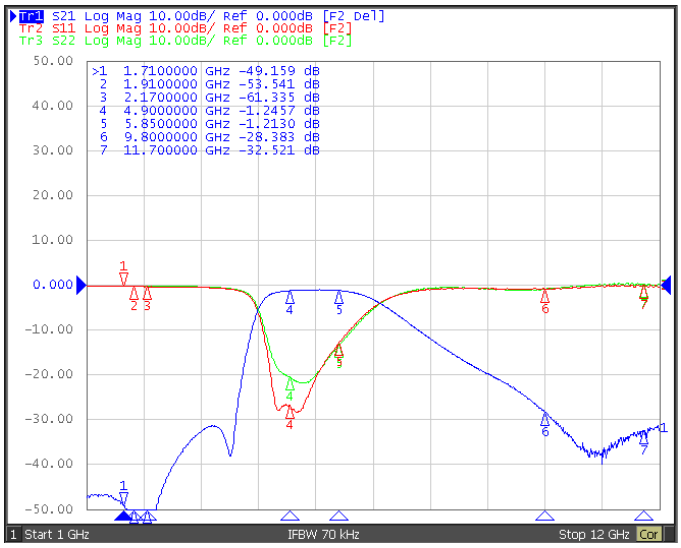
CHILISIN ELECTRONICS CORP.

Test Instruments：Agilent E5071 Network Analyzer

BTLB0016085G5S1B10



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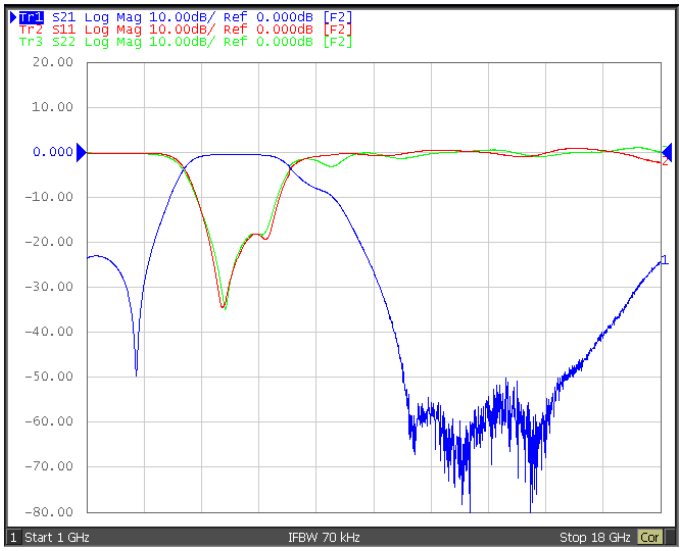

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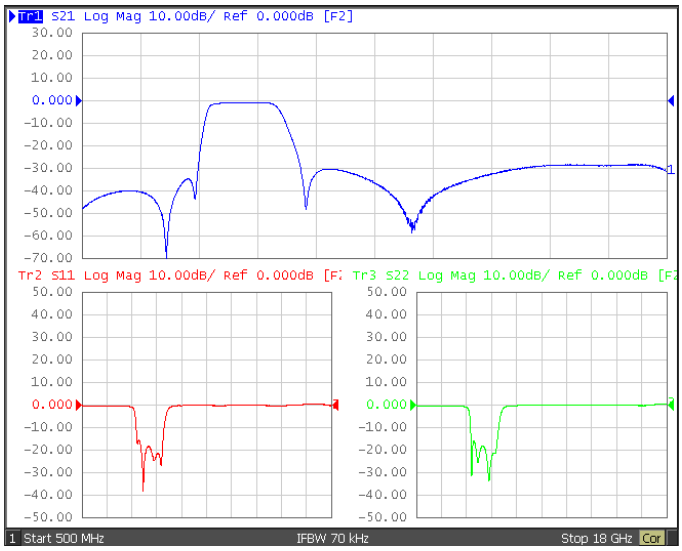

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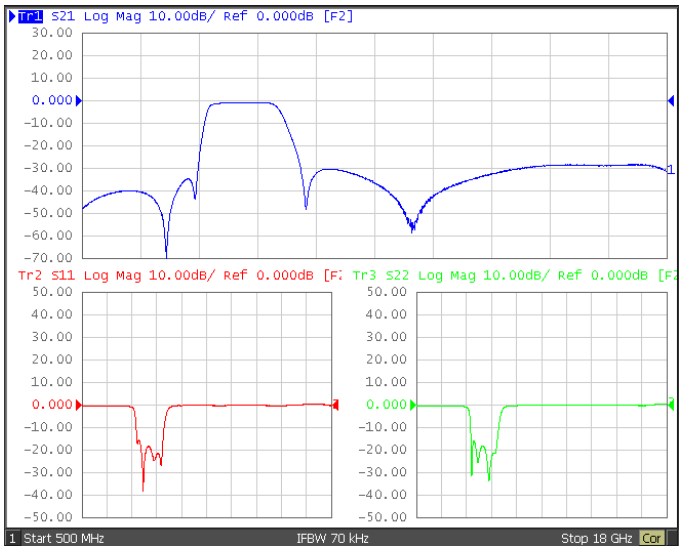

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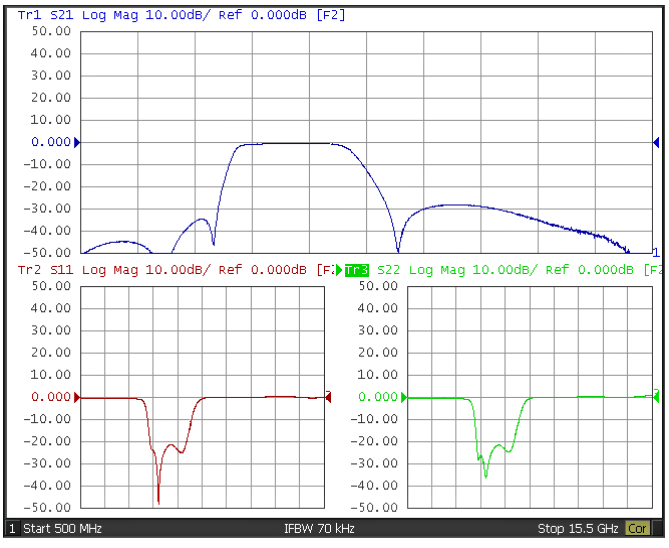

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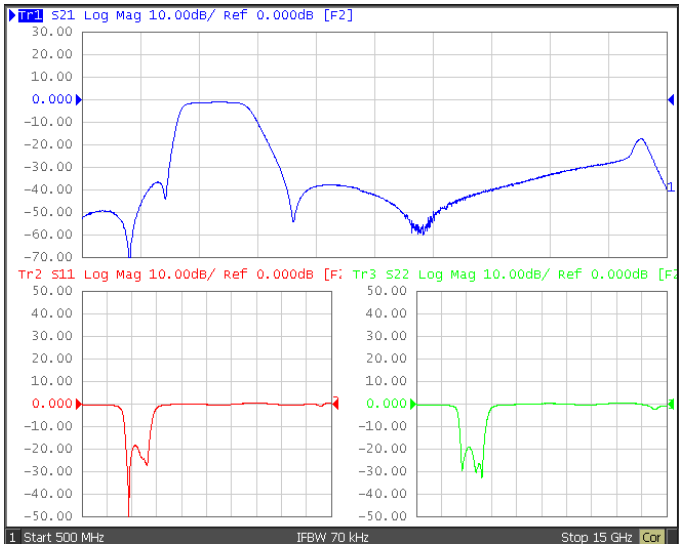

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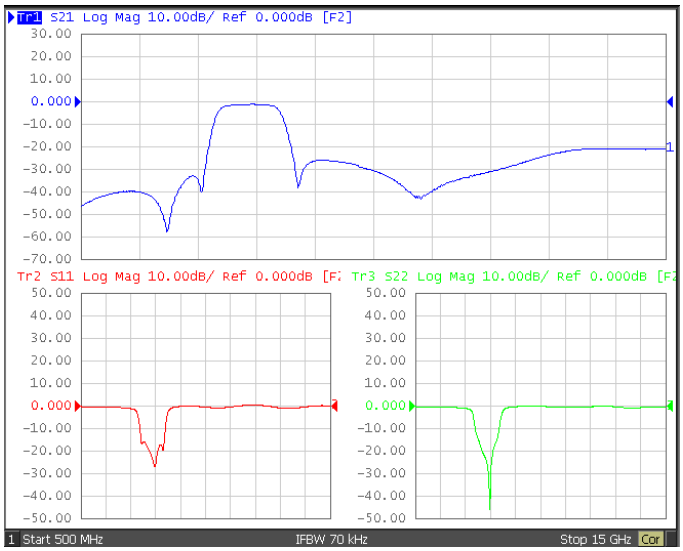
Test Instruments：Agilent E5071 Network Analyzer

BTLB001608OXVHBA10



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Electrical Characteristics

Part Number	Pass Band (MHz)	Insertion Loss (dB)Max	Return Loss (dB)Min	Ripple (dB)Max	Attenuation	Application
BTLB0020122G4H6A00	2400~2500	25℃ 2.5 -40~85℃ 2.8	10	-	30dB Min.@ 824~849 MHz 30dB Min.@ 880~915 MHz 30dB Min.@ 1545~1605 MHz 30dB Min.@ 1565~1585 MHz 35dB Min.@ 1710~1785 MHz 40dB Min.@ 1850~1910 MHz 32dB Min.@ 1920~1980 MHz 7dB Min.@ 3168~4752 MHz 11dB Min.@ 3300~3800 MHz 35dB Min.@ 4800~4967 MHz 26dB Min.@ 5150~6000 MHz 23dB Min.@ 7200~7450.5 MHz	WLAN/BT
BTLB0020122G4H6A80	2400~2500	1.2	10	-	28dB Min.@ 824~960 MHz 28dB Min.@ 1570~1580 MHz 23dB Min.@ 1710~1910 MHz 17dB Min.@ 1920~1990 MHz 25dB Min.@ 4800~5000 MHz 25dB Min.@ 7200~7500 MHz	WLAN/BT
BTLB0020122G4H6A90	2400~2500	2.6	10	-	40dB Min.@ 824~894 MHz 40dB Min.@ 880~960 MHz 38dB Min.@ 1710~1990 MHz 25dB Min.@ 2100~2170 MHz 30dB Min.@ 4800~5000 MHz 25dB Min.@ 7200~7500 MHz	WLAN/BT
BTLB0020122G4H6AH0	2400~2500	1.2	10	0.5	15dB Min.@ 1600 MHz 20dB Min.@ 3200 MHz 40dB Min.@ 4800~5000 MHz	WLAN/BT
BTLB0020122G4H6AR0	2400~2500	1.3	10	-	38dB Min.@ 50~960 MHz 17dB Min.@ 1710~1990 MHz 5dB Min.@ 3200~3300 MHz 30dB Min.@ 4800~5000 MHz 25dB Min.@ 7200~7500 MHz	WLAN/BT
BTLB0020122G4H6AS0	2400~2500	1.1(0.8Typ)	10	-	30dB Min./ 43dB Typ. @ 500~960MHz 26dB Min./ 33dB Typ.@ 1500~1650 MHz 22dB Min./ 32dB Typ.@ 3200~3300 MHz 35dB Min./ 44dB Typ.@ 4800~5000 MHz 20dB Min. / 28dB Typ.@ 7200~7500 MHz	WLAN/BT

- Operating temperature range －40℃～85℃

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Electrical Characteristics

Part Number	Pass Band (MHz)	Insertion Loss (dB)Max	Return Loss (dB)Min	Ripple (dB)Max	Attenuation	Application
BTLB0020122G4H6B50	2400~2500	2.5	10	-	35dB Min.@ 824~960 MHz 38dB Min.@ 1710~1910 MHz 25dB Min.@ 4800~5000 MHz 20dB Min.@ 7200~7500 MHz	WLAN/BT
BTLB0020122G4H6B90	2400~2500	25℃ 2.5 -40~85℃ 2.8	10	-	40dB Min.@ 880~960 MHz 38dB Min.@ 1710~1990 MHz 16dB Min.@ 2100~2170 MHz 30dB Min.@ 4800~5000 MHz 25dB Min.@ 7200~7500 MHz	WLAN/BT
BTLB0020122G4H6BD0	2400~2500	25℃ 1.8 -40~85℃ 2	10	-	30dB Min.@ 824~915 MHz 30dB Min.@ 1545~1605 MHz 35dB Min.@ 1710~1990 MHz 30dB Min.@ 2170 MHz 30dB Min.@ 4800~4967 MHz 25dB Min.@ 5150~6000 MHz 20dB Min.@ 7200~7450.5 MHz	WLAN/BT
BTLB0020122G4H6C00	2400~2500	25℃2.5 -40~85℃ 2.8	10	-	30dB Min.@ 824~849 MHz 30dB Min.@ 880~915 MHz 30dB Min.@ 1545~1605 MHz 30dB Min.@ 1565~1585 MHz 35dB Min.@ 1710~1785 MHz 40dB Min.@ 1850~1910 MHz 32dB Min.@ 1920~1980 MHz 16dB Min.@ 2110~2170 MHz 7dB Min.@ 3168~4752 MHz 11dB Min.@ 3300~3800 MHz 30dB Min.@ 4800~4967 MHz 26dB Min.@ 5150~6000 MHz 23dB Min.@ 7200~7450.5 MHz	WLAN/BT
BTLB0020122G4H6D30	2400~2500	1.4	10	-	30dB Min.@ 880~915 MHz 25dB Min.@ 1710~1910 MHz 6dB Min.@ 2110~2170 MHz 23dB Min.@ 4800~5000 MHz	WLAN/BT
BTLB0020122G4S1A10	2400~2500	2.5	10	-	35dB Min.@ 880~915 MHz 15dB Min.@ 1710~1910 MHz 35dB Min.@ 3200 MHz 22dB Min.@ 4800~5000 MHz 22dB Min.@ 7200~7500 MHz	WLAN/BT
BTLB0020125G5H6A80	4900~5920	1.5	10	-	30dB Min.@ 3500 MHz	WLAN
BTLB0020125G5H6B30	5150~5850	2	10	-	30dB Min.@ 2400~3800 MHz 18dB Min.@ 10300~11700 MHz	WLAN

- Operating temperature range －40℃～85℃

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CHILISIN ELECTRONICS CORP.

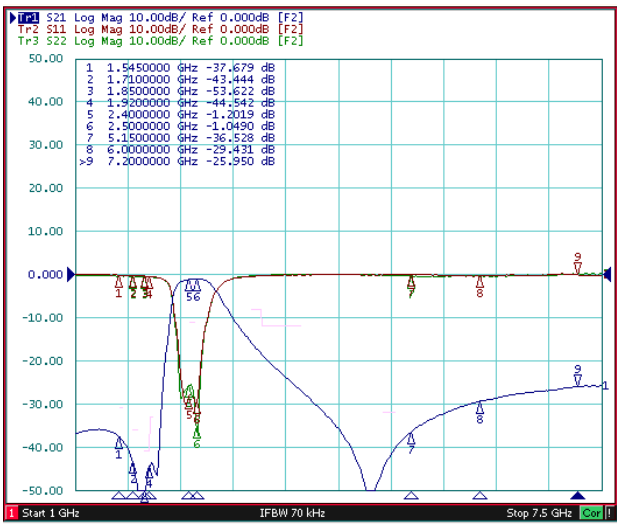
Electrical Characteristics

Part Number	Pass Band (MHz)	Insertion Loss (dB)Max	Return Loss (dB)Min	Ripple (dB)Max	Attenuation	Application
BTLB0020125G5H6C50	5150~5850	3.5	7.36	-	30dB Min.@ 4000 MHz 35dB Min.@ 4200 MHz 42dB Min.@ 4600 MHz	WLAN
BTLB0020125G5H6C80	4900~5950	1.5	10	-	35dB Min.@ 500~1900 MHz 30dB Min.@ 2140~3300 MHz 30dB Min.@ 3450 MHz 17dB Min.@ 9800~11900 MHz	WLAN
BTLB0020125G5H6D10	4900~5850	2.2	8	-	30dB Min.@ 340~1195 MHz 15dB Min.@ 2140~3580 MHz 25dB Min.@ 68555~7150 MHz 20dB Min.@ 8570~8930 MHz	WLAN
BTLB0020125G5H6D80	4900~5950	25℃1.8 -40~85℃ 2	10	1.5	33dB Min.@ 1280~3300 MHz 30dB Min.@ 3300~4000 MHz 15dB Min.@ 4375~4465 MHz 7dB Min.@ 7300~8930 MHz 20dB Min.@ 9800~11900 MHz	WLAN
BTLB0020125G5H6E80	4900~5875	2	8.52	-	30dB Min.@ 500~4000 MHz 30dB Min.@ 4200 MHz 15dB Min.@ 9800~11750 MHz	WLAN

- Operating temperature range －40℃～85℃

Test Instruments：Agilent E5071 Network Analyzer

BTLB0020122G4H6A00



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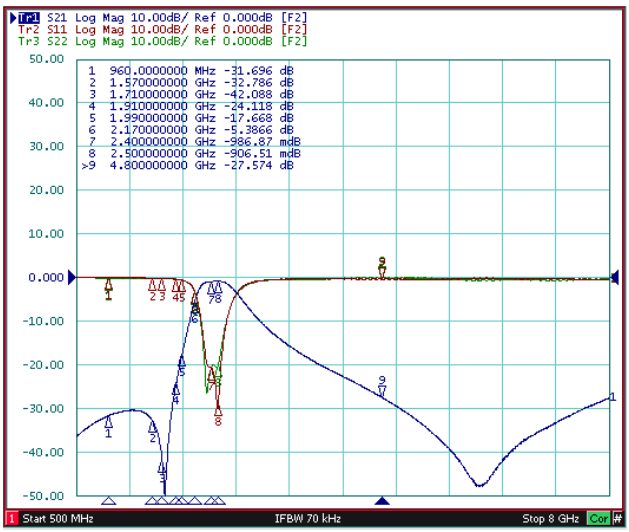

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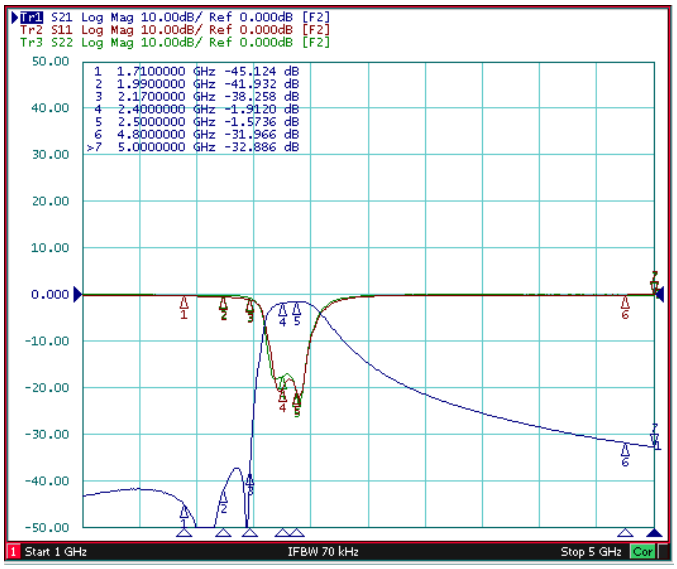
Test Instruments：Agilent E5071 Network Analyzer

BTLB0020122G4H6A90



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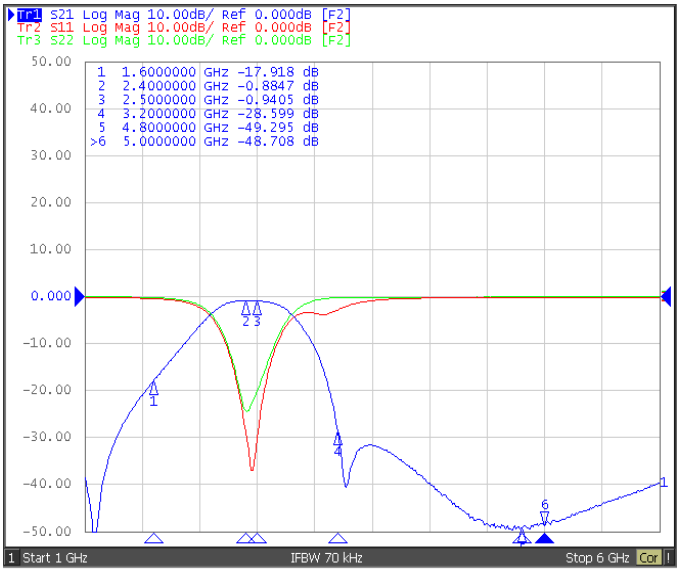

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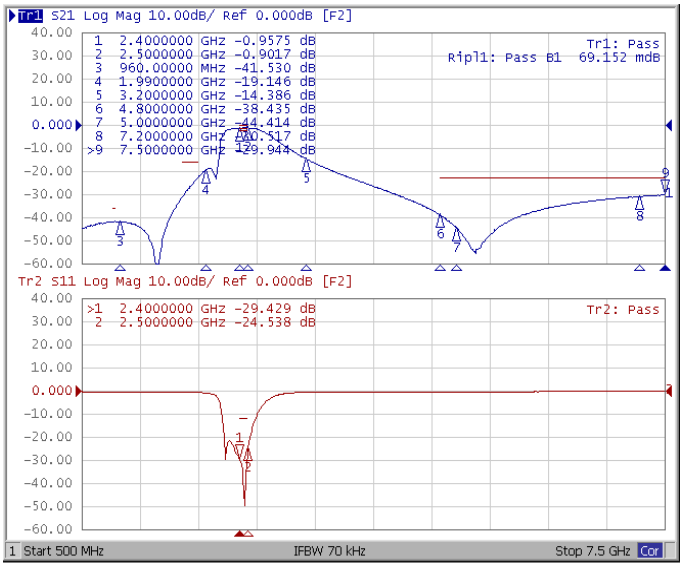

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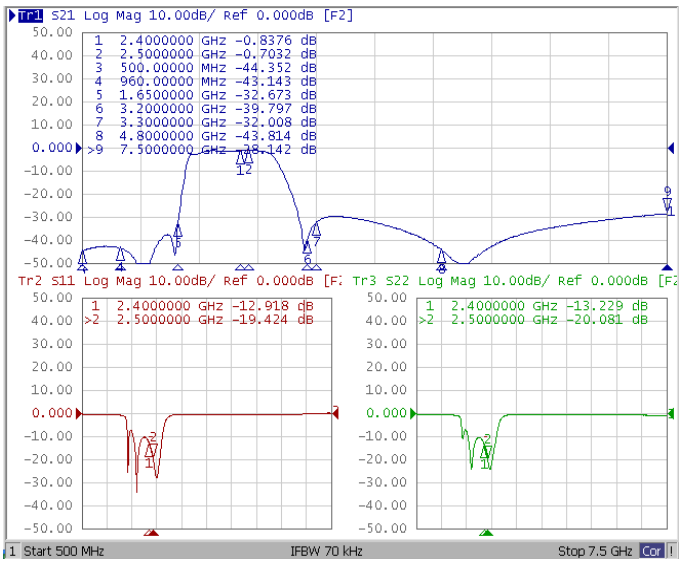

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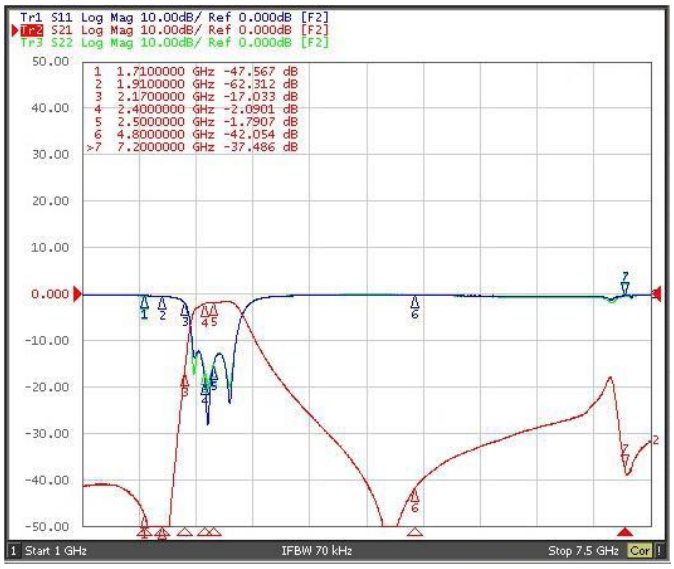

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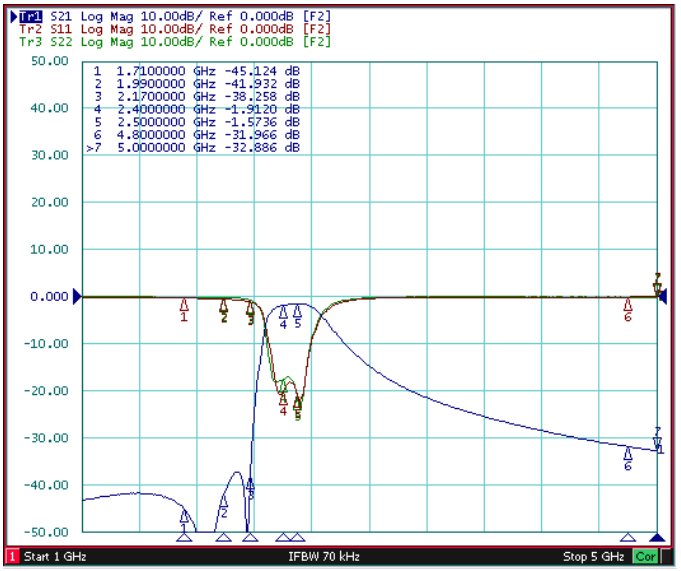

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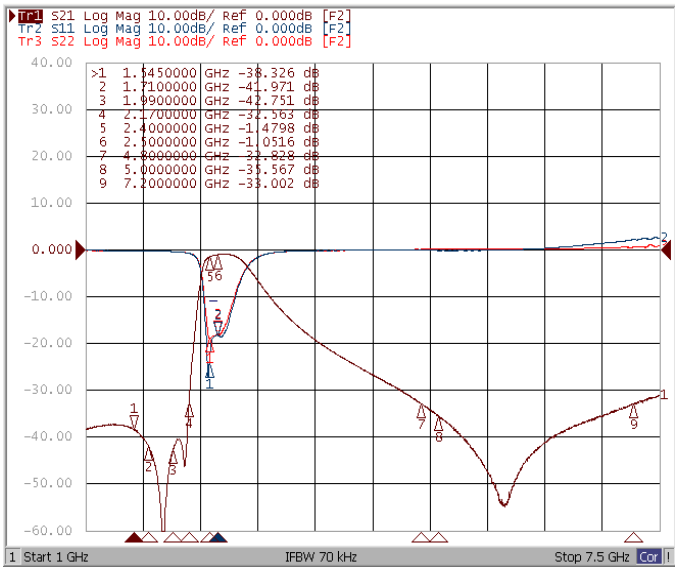
Test Instruments：Agilent E5071 Network Analyzer

BTLB0020122G4H6BD0



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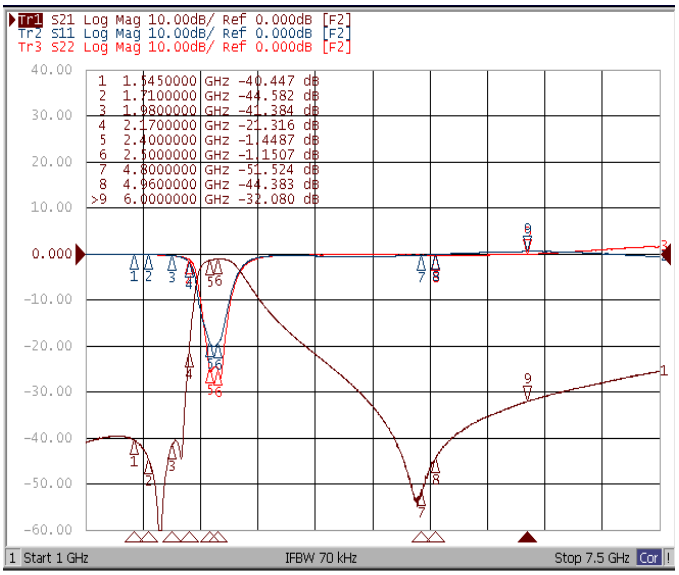

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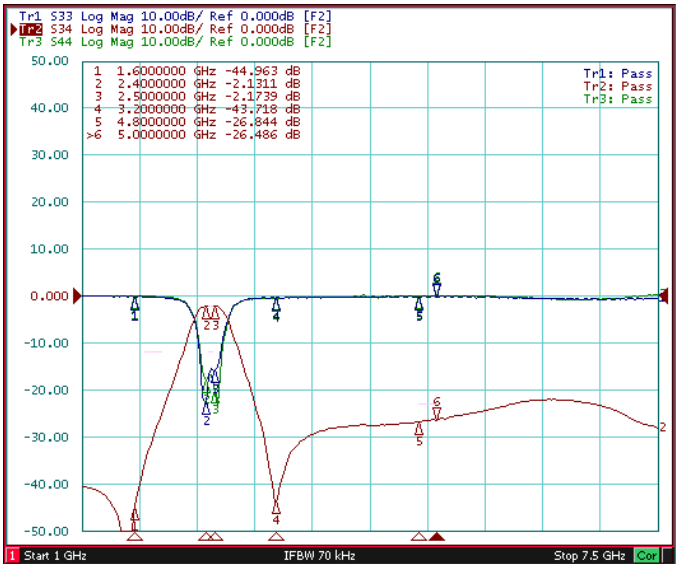

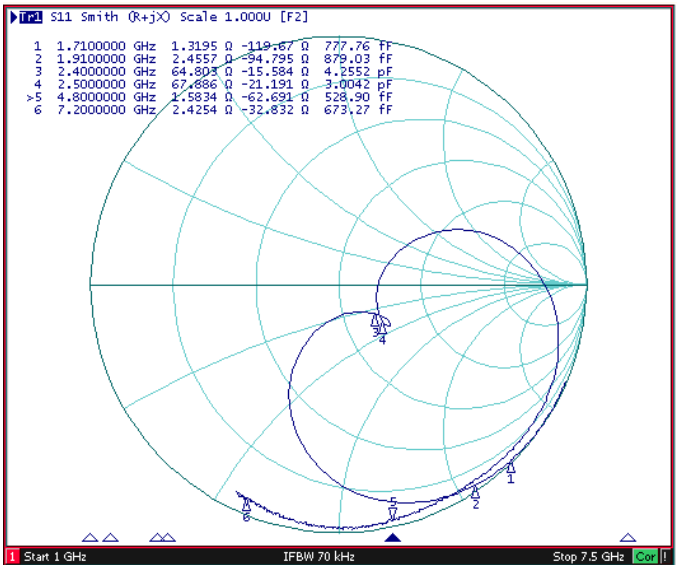

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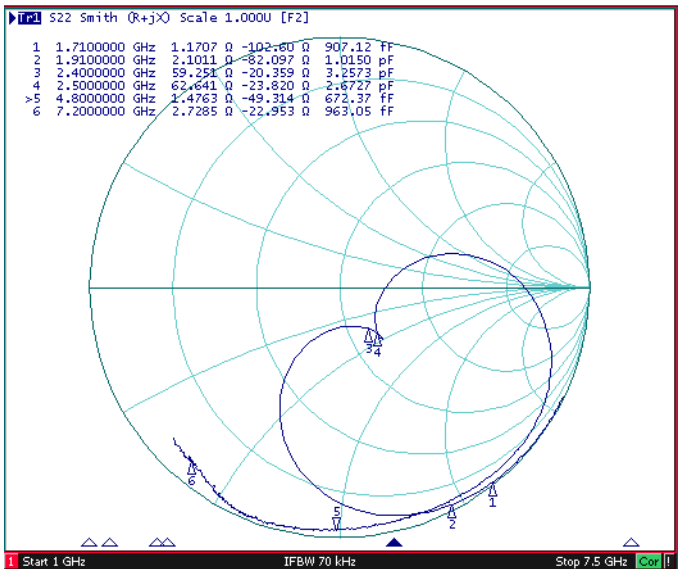

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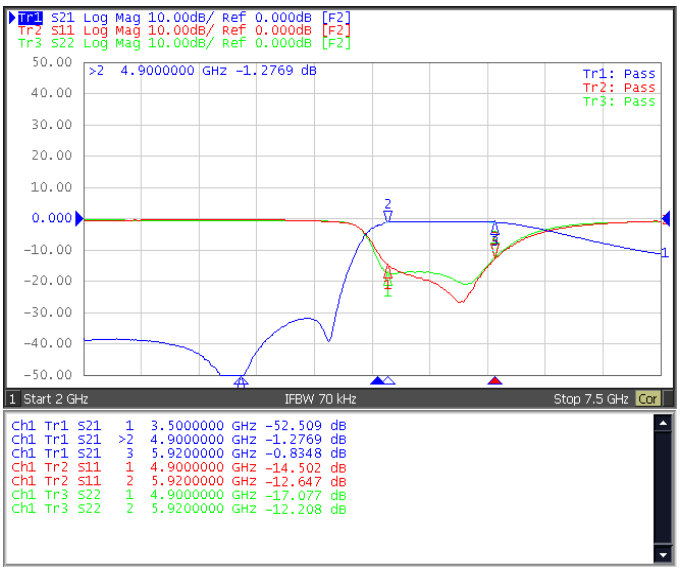

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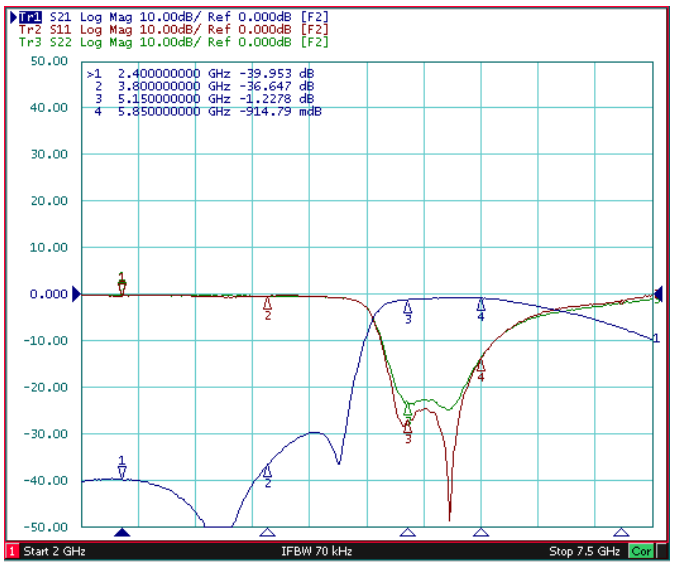
CHILISIN ELECTRONICS CORP.

Test Instruments：Agilent E5071 Network Analyzer

BTLB0020125G5H6B30



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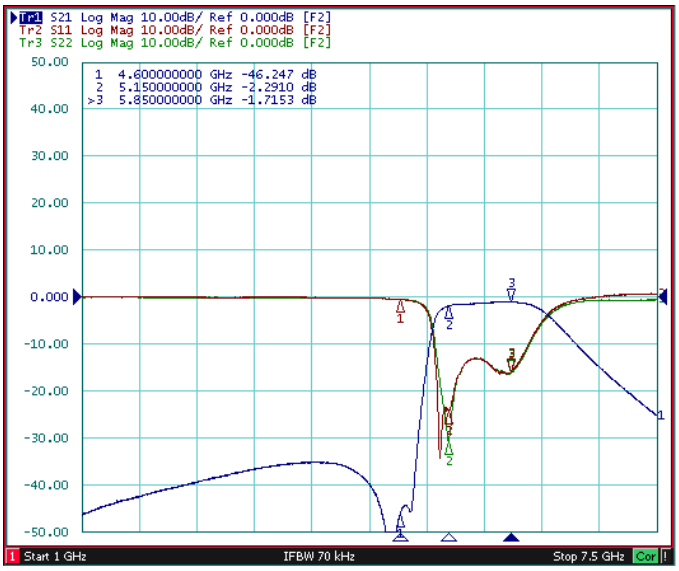

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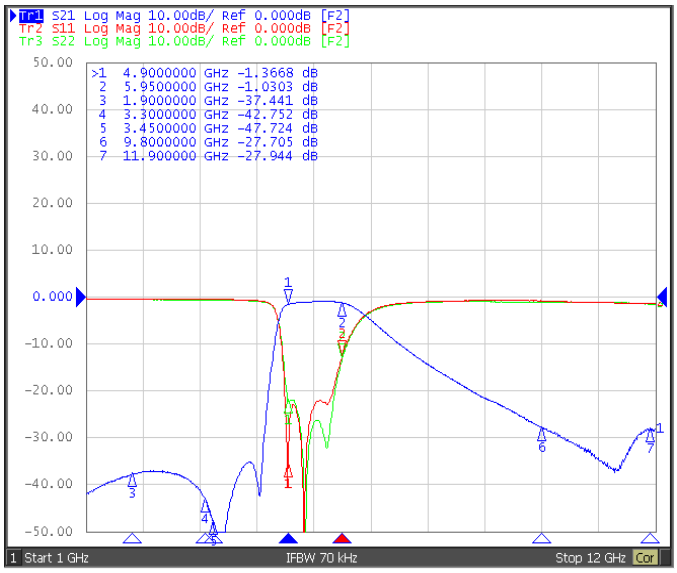

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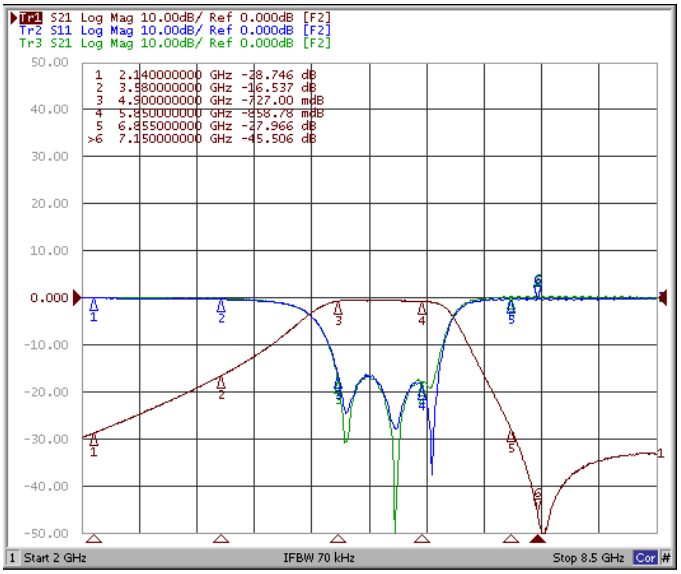

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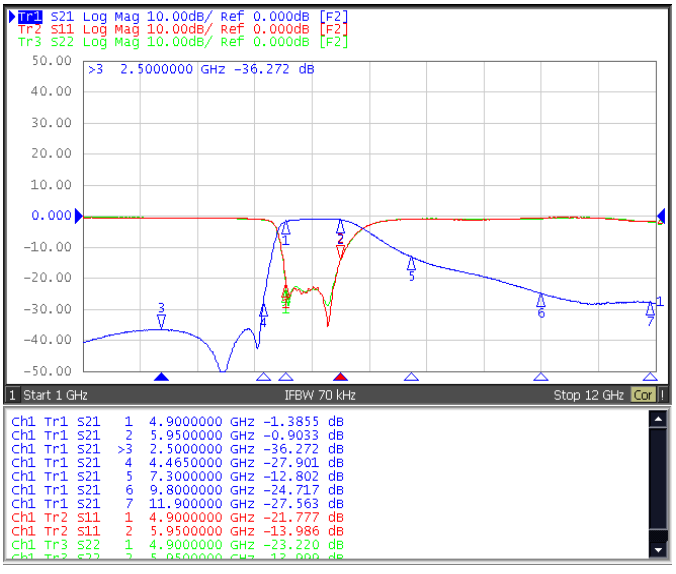

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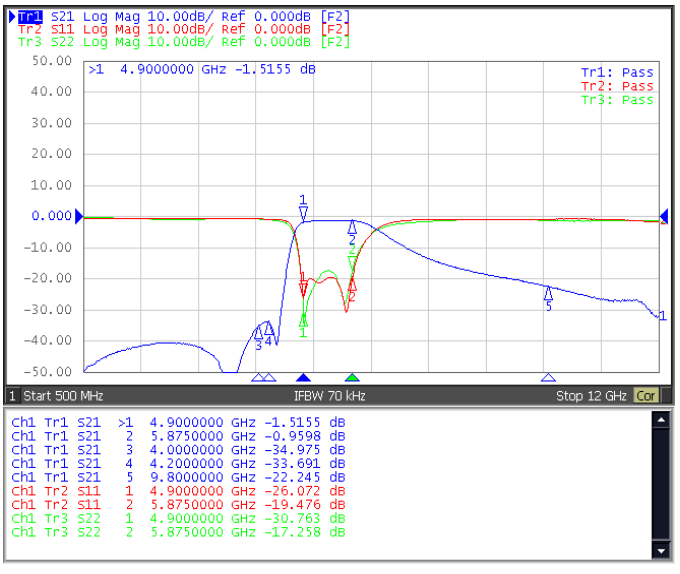

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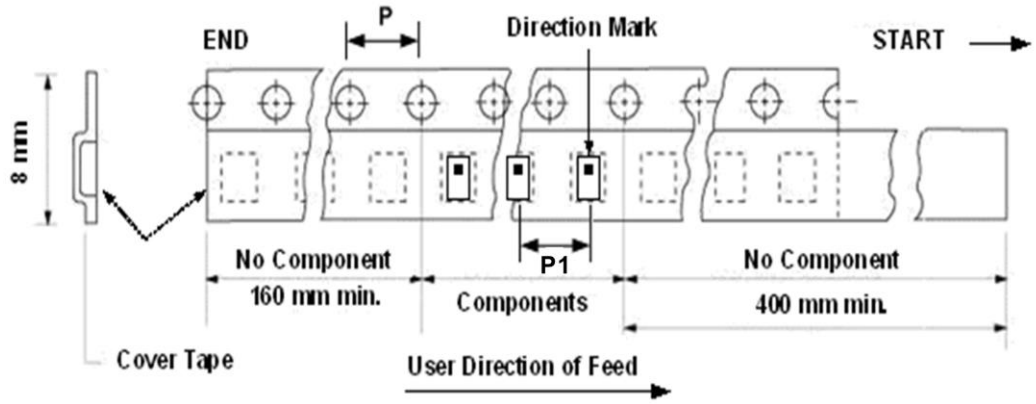
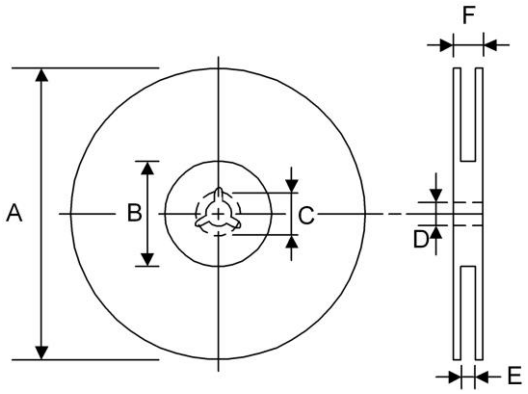
Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions		Reel Dimensions						Quantity
	P	P1	A	B	C	D	E	F	PCS / REEL
BTLB001005	4	2	178	60	-	13	9	12	10000
BTLB001411	4	2	178	60	-	13	9	12	10000
BTLB001608	4	4	178	60	-	13	9	12	4000
BTLB002012	4	4	178	60	-	13	9	12	4000

BTLD Series

Chilisin offer multilayer devices of Low-Temperature Cofired Ceramics (LTCC) for applications in wireless communication as WLAN, Bluetooth etc. Our commitment is to meet your goals through extensive technological innovation, excellent quality, short lead time and high volume production capability.

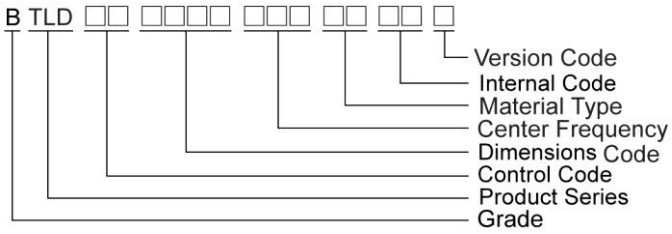
Features

- RoHS, Halogen Free and REACH Compliance
- Miniaturized.
- Low insertion loss, high attenuation.
- Eliminate noise over a wide frequency range. Idea for high frequency and space limited designs.

Applications

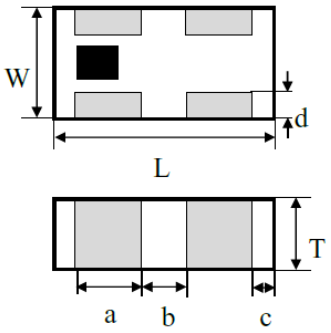
- WLAN ,Home RF, Bluetooth Module, WiFi 6E, etc.

Product Identification

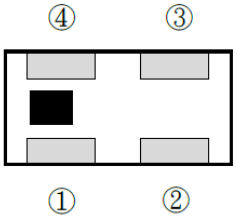


Shapes and Dimensions

FIG 1

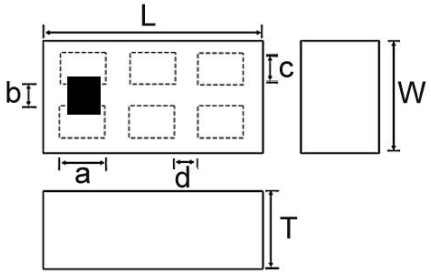


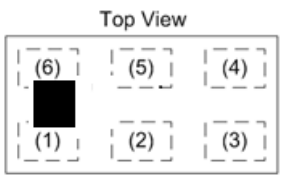
Terminal Configuration



① Common ② GND ③ High Band ④ Low Band

FIG 2

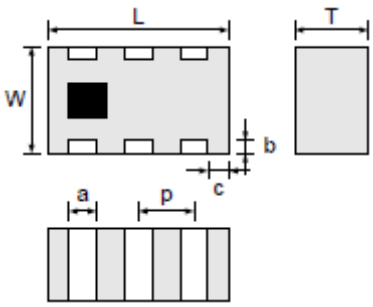




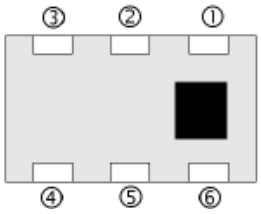
① ③ ⑤ GND ② Common ④ Low Freq. ⑥ High Freq.

Shapes and Dimensions

FIG 3

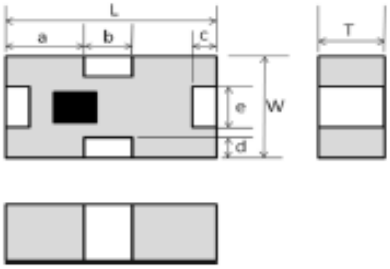


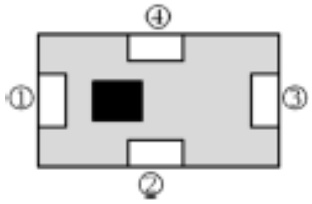
Terminal Configuration



Type	Port			GND
	High Freq.	Low Freq.	Common	
BTLD0016080G9S3A10	④	⑥	②	①③⑤
BTLD0016082G4S1A70	①	③	⑤	②④⑥
BTLD0016082G4S3YE0	①	③	⑤	②④⑥
BTLD0016082G4S3YF0	③	①	⑤	②④⑥
BTLD0016082G4S3WF0	③	①	⑤	②④⑥
BTLD001608MKXSMA10	④	⑥	②	①③⑤
BTLD001608KLXJMA10	④	⑥	②	①③⑤
BTLD001608MKXSPA10	⑥	④	②	①③⑤
BTLD001608KLXJPA10	⑥	④	②	①③⑤
BTLD001608KLXKPA90	⑥	④	②	①③⑤
BTLD001608KLXKMA90	④	⑥	②	①③⑤
BTLD001608KLXKND60	①	③	⑤	②④⑥
BTLD001608KLXKQD60	③	①	⑤	②④⑥
BTLD0020122G4S1B50	⑥	④	②	①③⑤
BTLD0020122G4S1B60	④	⑥	②	①③⑤
BTLD0020122G4S1D20	①	③	⑤	②④⑥
BTLD0020122G4S3A70	④	⑥	②	①③⑤
BTLD0020122G4S3A80	⑥	④	②	①③⑤
BTLD0020122G4S3E80	⑥	④	②	①③⑤

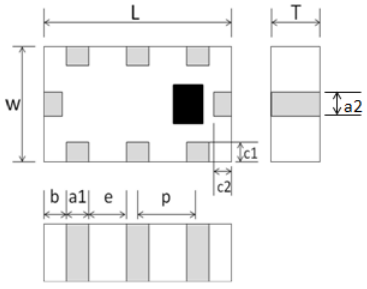
FIG 4

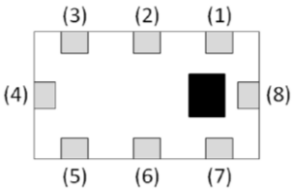




① Low Freq. ② Common ③ High Freq. ④ GND

FIG 5



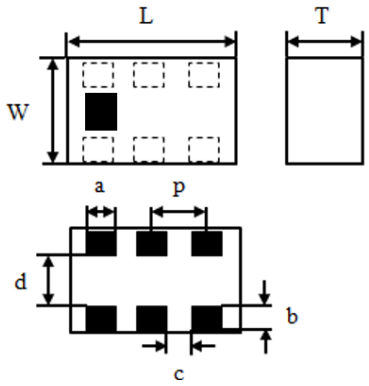


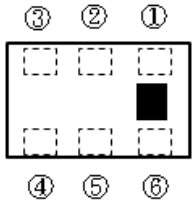
Type	Port			GND	NC
	High Freq.	Low Freq.	Common		
BTLD001608KLXKNA20	①	③	⑥	②⑤⑦	④⑧
BTLD001608KLXKQA20	③	①	⑥	②⑤⑦	④⑧
BTLD0020122G4S1A40	④	⑧	②	①③⑤⑥⑦	-

Shapes and Dimensions

Terminal Configuration

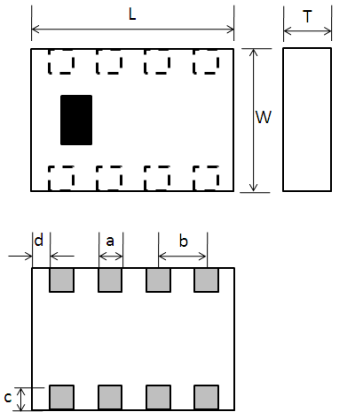
FIG 6

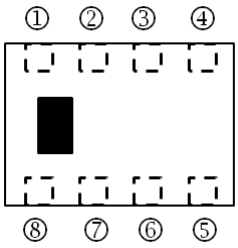




Type	Port			GND
	High Freq.	Low Freq.	Common	
BTLD002012DLXJVA10	①	③	⑤	②④⑥
BTLD002012JOXKSA10	④	⑥	②	①③⑤

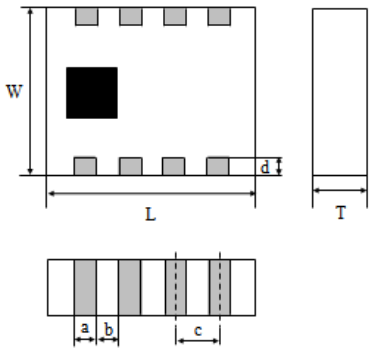
FIG 7

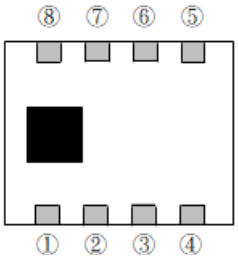




① TRXA ② ⑤ ⑥ ⑧ GND ③ RXG ④ TXG

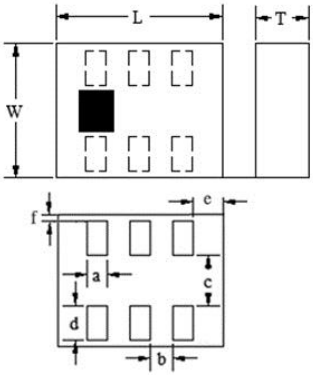
FIG 8

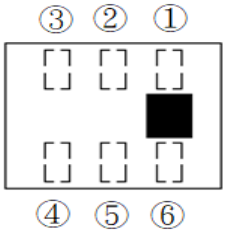




① ② ④ ⑥ ⑦ GND ③ Common
⑤ High Bend ⑧ Low Bend

FIG 9

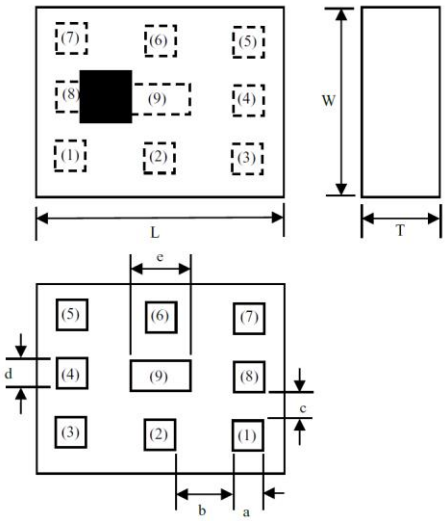




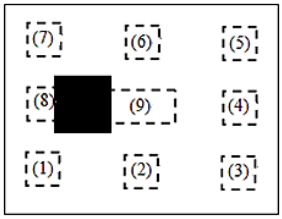
① High Frequency ② ④ ⑥ GND ③ Low Frequency ⑤ Common

Shapes and Dimensions

FIG 10



Terminal Configuration



① ③ ④ ⑥ ⑧ ⑨ GND ② Common ⑤ High Bend ⑦ Low Bend

Dimension in mm

TYPE	FIG	L	W	T	a	b	c	d
BTLD001005KLXKMA10	1	1.0±0.1	0.5±0.1	0.33Max	0.3±0.1	0.2±0.1	0.1±0.1	0.55±0.1
BTLD001608DFXJUA10	2	1.6±0.1	0.8±0.1	0.6±0.1	0.35±0.1	0.2±0.1	0.22±0.05	0.22±0.05
BTLD0020152G4S3A10	7	2.0±0.1	1.5±0.1	0.65±0.1	$0.25^{+0.1}_{-0.05}$	0.5±0.05	$0.25^{+0.1}_{-0.15}$	0.125±0.1
BTLD002520DHXKMA10	8	2.5±0.15	2.0±0.15	0.65Max	0.25±0.15	0.25±0.15	0.5±0.15	0.2±0.15
BTLD002520DHXKMB10	8	2.5±0.15	2.0±15	0.65Max	0.25±0.15	0.25±0.15	0.5±0.15	0.2±0.15
TYPE	**FIG**	**L**	**W**	**T**	**a**	**b**	**c**	**p**
BTLD0016080G9S3A10	3	1.6±0.15	0.8±0.1	0.6±0.1	0.3±0.1	$0.3^{+0.1}_{-0.2}$	0.1±0.1	0.55±0.1
BTLD0016082G4S1A70	3	1.6±0.15	0.8±0.1	0.6±0.1	0.3±0.1	$0.3^{+0.1}_{-0.2}$	0.1±0.1	0.55±0.1
BTLD0016082G4S3C00	3	1.6±0.15	0.8±0.1	0.5±0.1	0.3±0.1	$0.3^{+0.1}_{-0.2}$	0.1±0.1	0.55±0.1
BTLD0016082G4S3YE0	3	1.6±0.15	0.8±0.1	0.5±0.1	0.3±0.1	$0.3^{+0.1}_{-0.2}$	0.1±0.1	0.55±0.1
BTLD0016082G4S3YF0	3	1.6±0.15	0.8±0.1	0.5±0.1	0.3±0.1	$0.3^{+0.1}_{-0.2}$	0.1±0.1	0.55±0.1
BTLD0016082G4S3WF0	3	1.6±0.15	0.8±0.1	0.5±0.1	0.3±0.1	$0.3^{+0.1}_{-0.2}$	0.1±0.1	0.55±0.1
BTLD001608MKXSMA10	3	1.6±0.15	0.8±0.1	0.6±0.1	0.2±0.1	0.15±0.1	0.2±0.15	0.5±0.05
BTLD001608MKXSPA10	3	1.6±0.15	0.8±0.1	0.6±0.1	0.2±0.1	0.15±0.1	0.2±0.15	0.5±0.05
BTLD001608KLXJMA10	3	1.6±0.15	0.8±0.1	0.6±0.1	0.2±0.1	0.15±0.1	0.2±0.15	0.5±0.05
BTLD001608KLXJPA10	3	1.6±0.15	0.8±0.1	0.6±0.1	0.2±0.1	0.15±0.1	0.2±0.15	0.5±0.05
BTLD001608KLXKPA90	3	1.6±0.15	0.8±0.1	0.6±0.1	0.2±0.1	0.15±0.1	0.2±0.1	0.5±0.05
BTLD001608KLXKMA90	3	1.6±0.15	0.8±0.1	0.6±0.1	0.2±0.1	0.15±0.1	0.2±0.1	0.5±0.05
BTLD001608KLXKND60	3	1.6±0.15	0.8±0.1	0.7±0.1	0.2±0.1	0.15±0.1	0.2±0.15	0.5±0.05
BTLD001608KLXKQD60	3	1.6±0.15	0.8±0.1	0.7±0.1	0.2±0.1	0.15±0.1	0.2±0.15	0.5±0.05
BTLD0020120G9S3A10	3	2.0±0.15	1.25±0.1	0.9±0.1	0.3±0.15	0.2±0.1	0.2±0.15	0.65±0.15
BTLD0020122G4S1B50	3	2.0±0.15	1.25±0.15	0.5±0.1	0.3±0.2	0.3±0.2	0.2±0.2	0.65±0.2
BTLD0020122G4S1B60	3	2.0±0.15	1.25±0.15	0.5±0.1	0.3±0.2	0.3±0.2	0.2±0.2	0.65±0.2
BTLD0020122G4S1D20	3	2.0±0.15	1.25±0.15	0.95±0.1	$0.3^{+0.1}_{-0.15}$	$0.3^{+0.1}_{-0.2}$	0.2±0.2	0.65±0.2
BTLD0020122G4S3A70	3	2.0±0.15	1.25±0.15	0.5±0.1	0.3±0.2	0.3±0.2	0.2±0.2	0.65±0.2
BTLD0020122G4S3A80	3	2.0±0.15	1.25±0.15	0.5±0.1	0.3±0.2	0.3±0.2	0.2±0.2	0.65±0.2
BTLD0020122G4S3E80	3	2.0±0.15	1.25±0.15	0.5±0.1	0.3±0.2	0.3±0.2	0.2±0.2	0.65±0.2

Dimension in mm

TYPE	FIG	L	W	T	a	b	c	d	e
BTLD0016082G4S3AL0	4	1.6±0.15	$0.8^{+0.2}_{-0.1}$	$0.6^{+0.05}_{-0.1}$	0.65±0.15	$0.3^{+0.1}_{-0.15}$	0.15±0.1	0.15±0.1	$0.3^{+0.1}_{-0.15}$
BTLD002520JOXKSA10	10	2.5±0.15	2±0.15	0.65Max	0.4±0.1	0.55±0.1	0.3±0.1	0.4±0.1	0.9±0.15

TYPE	FIG	L	W	T	a	b	c	d	p
BTLD002012DLXJVA10	6	2.0±0.1	1.25±0.1	0.9±0.1	0.35±0.1	0.275±0.1	0.3±0.1	0.6±0.1	0.65±0.05
BTLD002012JOXKSA10	6	2.0±0.1	1.25±0.1	0.6Max	0.35±0.1	0.275±0.1	0.3±0.1	0.6±0.1	0.65±0.1

TYPE	FIG	L	W	T	a	b	c	d	e	f
BTLD002520EIXSTA10	9	2.5±0.1	2±0.1	0.8±0.1	0.3±0.1	0.35±0.1	0.75±0.1	0.525±0.1	0.45±0.1	0.1±0.1

TYPE	FIG	L	W	T	a1	a2	b	c1	c2	e	p
BTLD001608KLXKNA20	5	1.6±0.1	0.8±0.1	0.7Max	0.2±0.1	0.2±0.1	0.2±0.15	0.15±0.1	0.15±0.1	0.3±0.1	0.5±0.05
BTLD001608KLXKQA20	5	1.6±0.1	0.8±0.1	0.7Max	0.2±0.1	0.2±0.1	0.2±0.15	0.15±0.1	0.15±0.1	0.3±0.1	0.5±0.05
BTLD0020122G4S1A30	5	2.0±0.15	1.25±0.1	0.95±0.1	$0.3^{+0.1}_{-0.15}$	$0.3^{+0.1}_{-0.15}$	0.2±0.15	$0.3^{+0.1}_{-0.2}$	$0.3^{+0.1}_{-0.2}$	0.35±0.1	0.65±0.2
BTLD0020122G4S1A40	5	2.0±0.15	1.25±0.1	0.95±0.1	$0.3^{+0.1}_{-0.15}$	$0.3^{+0.1}_{-0.15}$	0.2±0.15	$0.3^{+0.1}_{-0.2}$	$0.3^{+0.1}_{-0.2}$	0.35±0.1	0.65±0.2

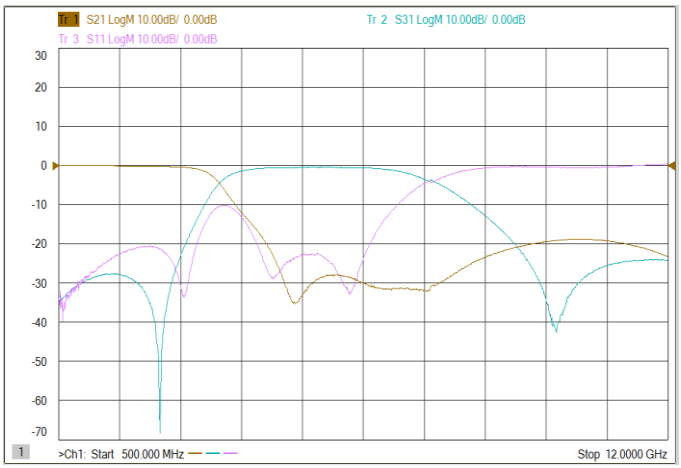
Electrical Characteristics

Part Number	Pass Band (MHz)	Insertion Loss (dB)Max		Return Loss (dB)Min	Attenuation	Application
BTLD001005KLXKMA10	2400~2500	25℃	0.5	12(20Typ)	23dB Min./ 27.8dB Typ.@ 4800~6000 MHz	WiFi
		-40~85℃	0.6		23dB Min./ 27.2dB Typ.@ 7200~7500 MHz	
	4900~5950	25℃	0.8	10(18.5Typ)	25dB Min./ 27.5dB Typ.@ 30~2400 MHz 32dB Min./ 38.8dB Typ.@ 2400~2500 MHz 23dB Min./ 27.1dB Typ.@ 2500~2690 MHz 20dB Min./ 25dB Typ.@ 9800~11900 MHz	
		-40~85℃	1			

- Operating temperature range －40℃～85℃

Test Instruments：Agilent E5071C Network Analyzer

BTLD001005KLXKMA10



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Electrical Characteristics

Part Number	Pass Band (MHz)	Insertion Loss (dB)Max	Return Loss (dB)Min	Attenuation	Application
BTLD001608DFXJUA10	698~960	0.9(0.75Typ)	10(18.5Typ)	25dB Min./ 30dB Typ.@ 1710~2700 MHz	GPS WCDMA LTE
	1710~2700	0.8(0.65Typ)	10(17Typ)	20dB Min./ 26.5dB Typ.@ 698~960 MHz 20dB Min./ 22dB Typ.@ 5150~5850 MHz	
BTLD0016080G9S3A10	704~960	0.5	14	15dB Min.@ 1710~2170 MHz 10dB Min.@ 2170~2690 MHz	LTE
	1710~1800	0.7	11.8	20dB Min.@ 704~960 MHz	
	1800~1990	0.6			
	1990~2170	0.55			
	2170~2690	1.4	6.5		
BTLD0016082G4S1A70	2400~2500	0.6	10	20dB Min.@ 4800~6000 MHz 20dB Min.@ 7200~7500 MHz	WLAN
	5100~5900	1.4	10	35dB Min.@ 2400~2500 MHz 18dB Min.@ 3300~3900 MHz 12dB Min.@ 9800~11900 MHz	
BTLD0016082G4S3AL0	2400~2500	0.4	12.74	20dB Min.@ 4900~5850 MHz	WLAN
	4900~5850	0.6	10.16	20dB Min.@ 2400~2500 MHz	
BTLD0016082G4S3YE0	2400~2500	0.45	12.74	21dB Min.@ 4800~5000 MHz 23dB Min.@ 5000~6000 MHz 25dB Min.@ 7200~7500 MHz	WLAN
	4900~5950	0.75	11.73	27dB Min.@ 824~2170 MHz 32dB Min.@ 2400~2500 MHz 23dB Min.@ 9800~11900 MHz	
BTLD0016082G4S3YF0	2400~2500	0.45	12.74	21dB Min.@ 4800~5000 MHz 23dB Min.@ 5000~6000 MHz 25dB Min.@ 7200~7500 MHz	WLAN
	4900~5950	0.75	11.73	27dB Min.@ 824~2170 MHz 32dB Min.@ 2400~2500 MHz 23dB Min.@ 9800~11900 MHz	

- Operating temperature range －40℃～85℃

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Electrical Characteristics

Part Number	Pass Band (MHz)	Insertion Loss (dB)Max	Return Loss (dB)Min	Attenuation	Application
BTLD001608KLXKPA90 BTLD001608KLXKMA90	2400~2500	0.6(0.51Typ)	12(19Typ)	2dB Min./ 4.7dB Typ.@ 3300~4800 MHz 33dB Min./ 33.6dB Typ.@ 4800~5000 MHz 28dB Min./ 37dB Typ.@ 5170~7125 MHz 30dB Min./ 43.8dB Typ.@ 7200~7500 MHz 24dB Min./ 28.8dB Typ.@ 9600~10000 MHz 17dB Min./ 22.4dB Typ.@ 12000~12500 MHz	WiFi 6E
	5170~7125	0.9(0.74Typ)	10(15.8Typ)	35dB Min./ TBDdB Typ.@ 70~108 MHz 35dB Min./ 41dB Typ.@ 700~915 MHz 35dB Min./ 41.4dB Typ. @ 915~960 MHz 35dB Min./ 44.8dB Typ.@ 1425~1470 MHz 35dB Min./ 44.9dB Typ.@ 1470~1557 MHz 35dB Min./ 46.9dB Typ.@ 1557~1607 MHz 35dB Min./ 53.7dB Typ.@ 1710~1785 MHz 35dB Min./ 69.6dB Typ.@ 1805~1850 MHz 35dB Min./ 54.5dB Typ.@ 1850~1910 MHz 35dB Min./ 47.6dB Typ.@ 1910~2020 MHz 30dB Min./ 40.8dB Typ.@ 2110~2200 MHz 26dB Min./ 35dB Typ.@ 2300~2400 MHz 25dB Min./ 32.5dB Typ.@ 2400~2500 MHz 20dB Min./ 28.9dB Typ.@ 2500~2690 MHz 10dB Min./ 20.1dB Typ.@ 3400~3800 MHz 25dB Min./ 27.3dB Typ.@ 10340~14250 MHz 20dB Min./ 25.2dB Typ.@ 15510~19500 MHz TBDdB Min./ Typ. @ 19500~21375 MHz	

- Operating temperature range －40℃～85℃

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Electrical Characteristics

Part Number	Pass Band (MHz)	Insertion Loss (dB) Max(Typ)	Return Loss (dB) Min(Typ)	Isolation (dB) Min(Typ)	Attenuation	Application
BTLD0016082G4S3WF0	2400~2500	0.5	10	30	21dB Min.@ 4800~5000 MHz 23dB Min.@ 5000~6000 MHz 25dB Min.@ 7200~7500 MHz	WLAN
	4900~5950	0.75	10	20	26dB Min.@ 824~1990 MHz 30dB Min.@ 2170~2500 MHz 10dB Min.@ 8100~8800 MHz 15dB Min.@ 8820~9800 MHz 23dB Min.@ 9800~11900 MHz	
BTLD001608KLXKNA20 BTLD001608KLXKQA20	2400~2500	25℃ 0.35(0.3) -40~85℃ 0.45(0.3)	10.88	-	20dB Min./ 26dB Typ.@ 4800~5000 MHz 22dB Min./ 25.5dB Typ.@ 5000~5950 MHz 20dB Min./ 26dB Typ.@ 7200~7500 MHz	WLAN
	4900~5950	25℃ 0.50(0.4) -40~85℃ 0.60(0.4)			26dB Min./ 27dB Typ.@ 824~2170 MHz 30dB Min./ 40dB Typ.@ 2400~2500 MHz 25dB Min./ 27.5dB Typ.@ 9800~11900 MHz 15dB Min./ 25dB Typ.@ 15000~18000 MHz	
BTLD001608MKXSMA10 BTLD001608MKXSPA10	1550~1580	0.6	10	20	12dB Min.@ 2400~2500 MHz 12dB Min.@ 4900~6000 MHz	GPS/WLAN
	1594~1610	0.7				
	2400~2500	0.7		12	20dB Min.@ 1550~1610 MHz	
	4900~6000	0.6				
BTLD001608KLXJPA10 BTLD001608KLXJMA10	2400~2500	25℃ 0.6 -40~105℃ 0.8	10(24.1)	38(43.3)	30dB Min./ 37.2dB Typ.@ 4800~5000 MHz 30dB Min./ 38.1dB Typ.@ 5000~5950 MHz 30dB Min./ 38.3dB Typ.@ 7200~7500 MHz	WLAN
	4900~5950	25℃ 0.78 -40~105℃ 0.98	10(15.2)	38(39.3)	26dB Min./ 31.9dB Typ.@ 824~2170 MHz 30dB Min./ 43.2dB Typ.@ 2400~2500 MHz 25dB Min./ 28.8dB Typ.@ 9800~11900 MHz 15dB Min./ 18.5dB Typ.@ 14700~17850 MHz	
BTLD001608KLXKND60	2400~2500	25℃ 0.85(0.74) -40~105℃ 0.95	13(18.8)	40(43)	9dB Min./ 11.5dB Typ.@ 100~1000 MHz 30dB Min./ 34dB Typ.@ 4800~7125 MHz 30dB Min./ 33.5dB Typ.@ 7200~7500 MHz 20dB Min./ 34dB Typ.@ 7500~12000 MHz	WiFi 6E
	5170~5875	25℃ 1.05(0.78) -40~105℃ 1.25	11(15.4)	25(32.5)	35dB Min./ 42.5dB Typ.@ 100~1000 MHz 30dB Min./ 35.5dB Typ.@ 1000~2400 MHz 40dB Min./ 42.5dB Typ.@ 2400~2500 MHz 10dB Min./ 13.5dB Typ.@ 2500~3500 MHz	
	5875~7125	25℃ 1.05(0.76) -40~105℃ 1.25			25dB Min./ 28.5dB Typ.@ 10340~14250 MHz 25dB Min./ 38.5dB Typ.@ 15510~17625 MHz TBDdB Min./ Typ.@ 17625~21375 MHz	
BTLD001608KLXKQD60	2400~2500	TBD(0.75)	10(18.8)	TBD(42)	TBDdB Min./ 11.5dB Typ.@ 100~1000 MHz TBDdB Min./ 34dB Typ.@ 4800~7125 MHz TBDdB Min./ 33.5dB Typ.@ 7200~7500 MHz TBDdB Min./ 34dB Typ.@ 7500~12000 MHz	WiFi 6E
	5170~5875	TBD(0.78)	10(15.4)	TBD (32.5)	TBDdB Min./ 42.5dB Typ.@ 100~1000 MHz TBDdB Min./ 35.5dB Typ.@ 1000~2400 MHz TBDdB Min./ 41.5dB Typ.@ 2400~2500 MHz TBDdB Min./ 13dB Typ.@ 2500~3500 MHz	
	5875~7125	TBD(0.76)			TBDdB Min./ 28.5dB Typ.@ 10340~14250 MHz TBDdB Min./ 38.5dB Typ.@ 15510~17625 MHz TBDdB Min./ Typ.@ 17625~21375 MHz	

- Operating temperature range －40℃～85℃

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Test Instruments：Agilent E5071C Network Analyzer

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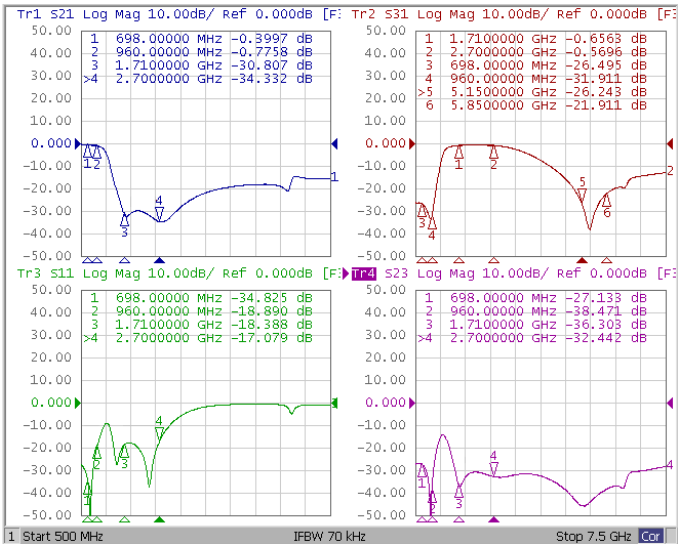

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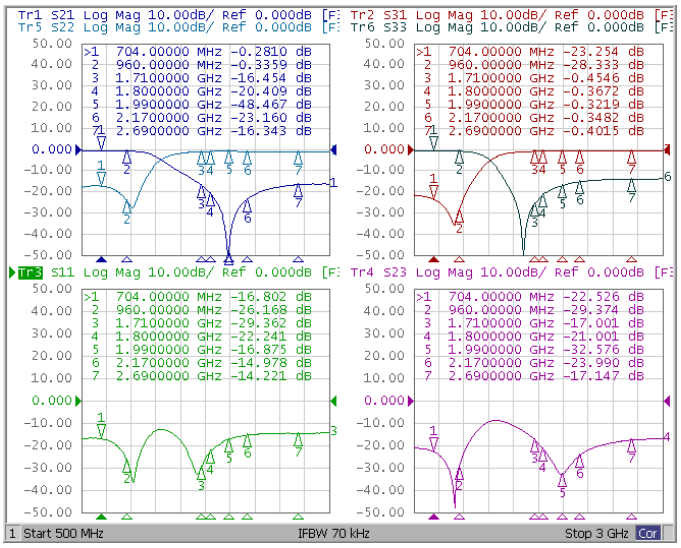

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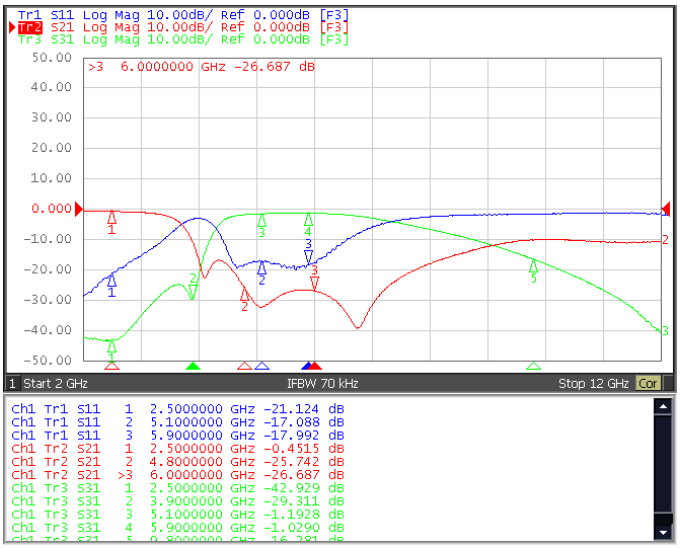

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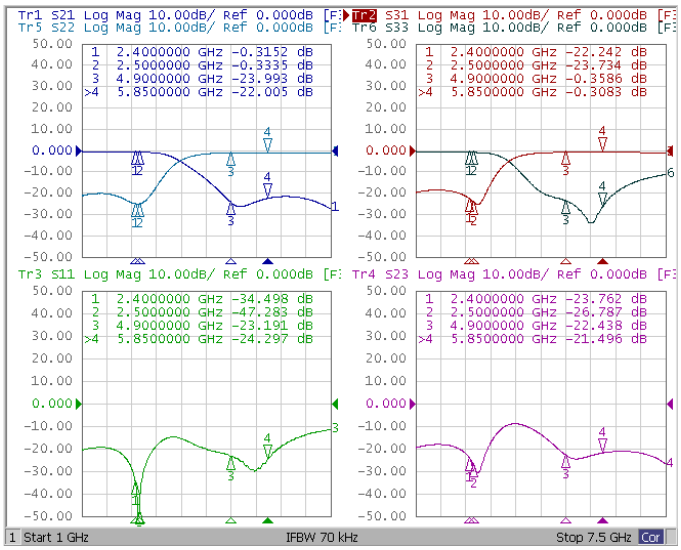

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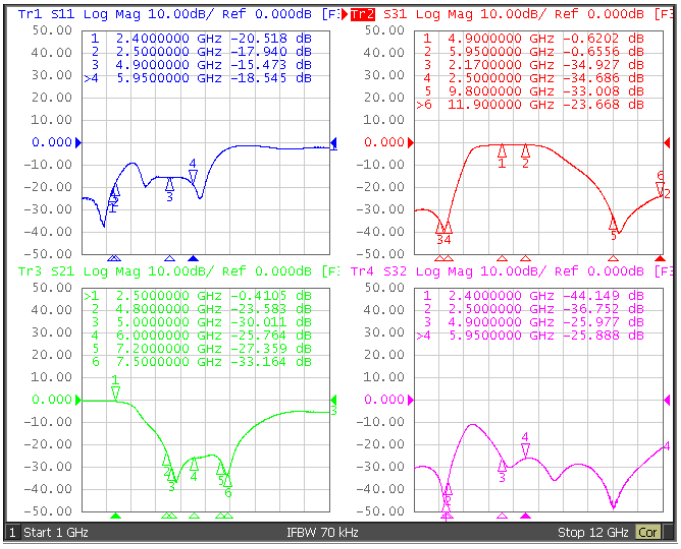

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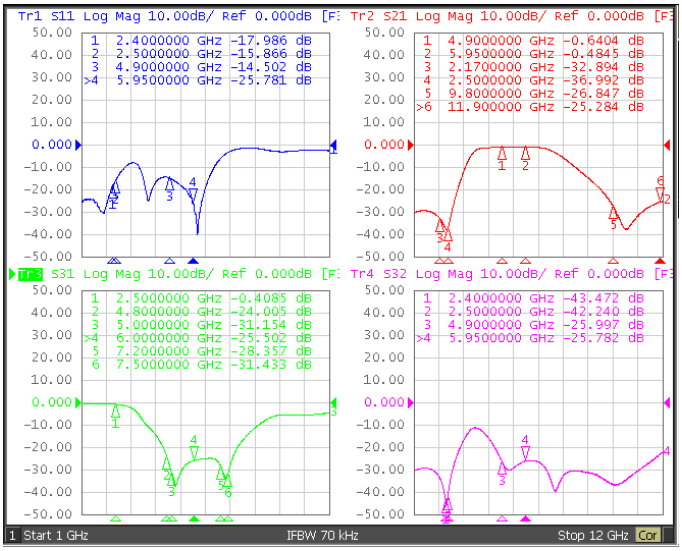

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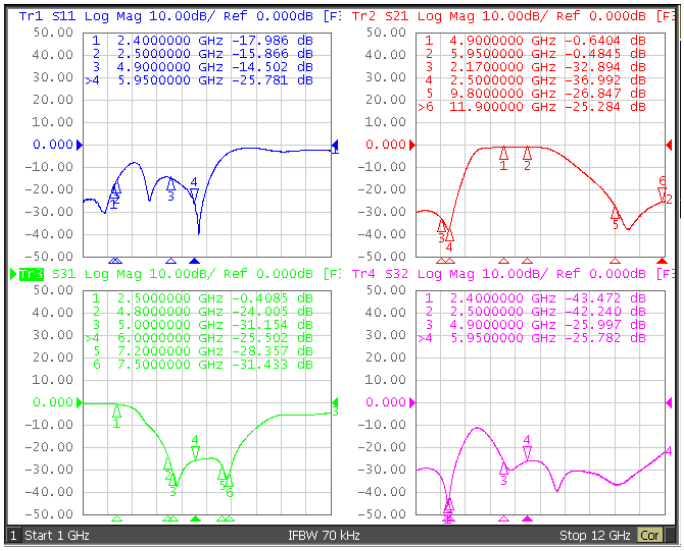
Test Instruments：Agilent E5071C Network Analyzer

BTLD0016082G4S3WF0



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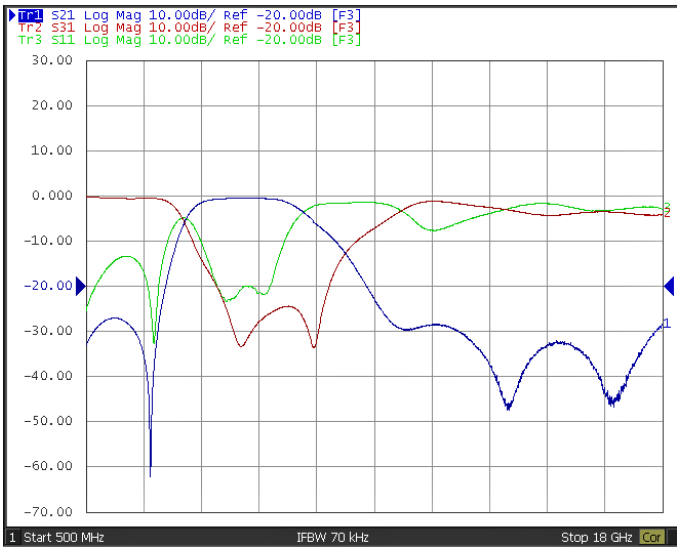

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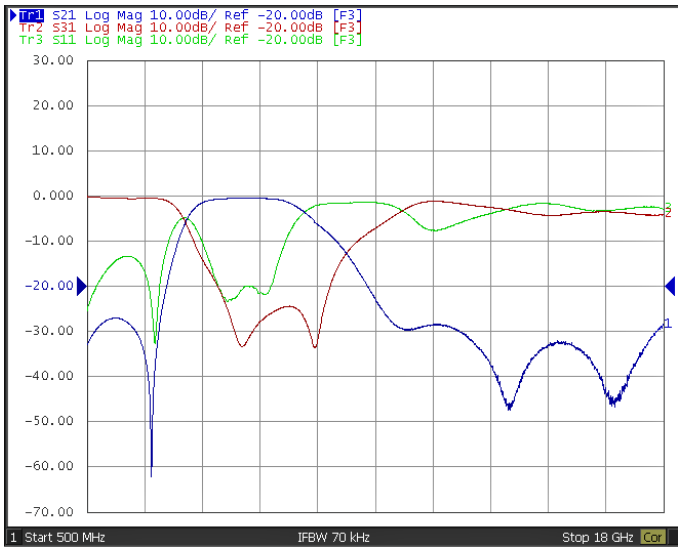

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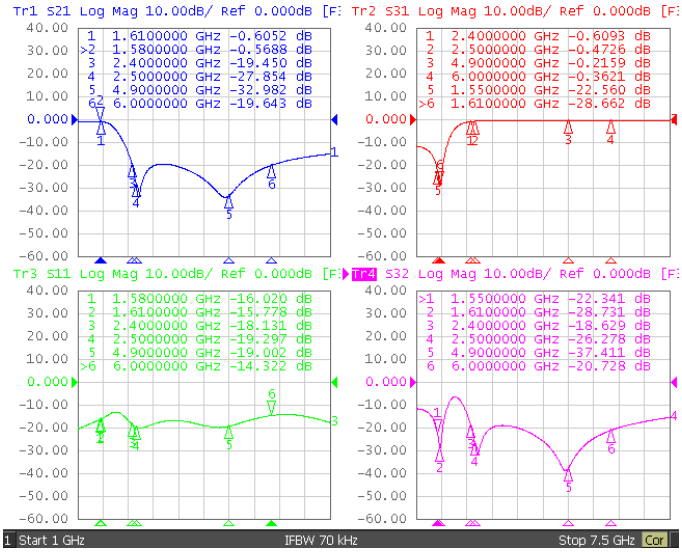

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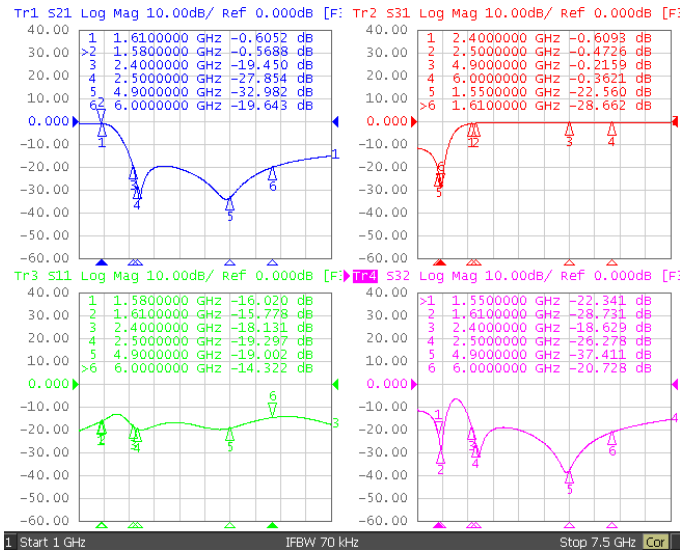

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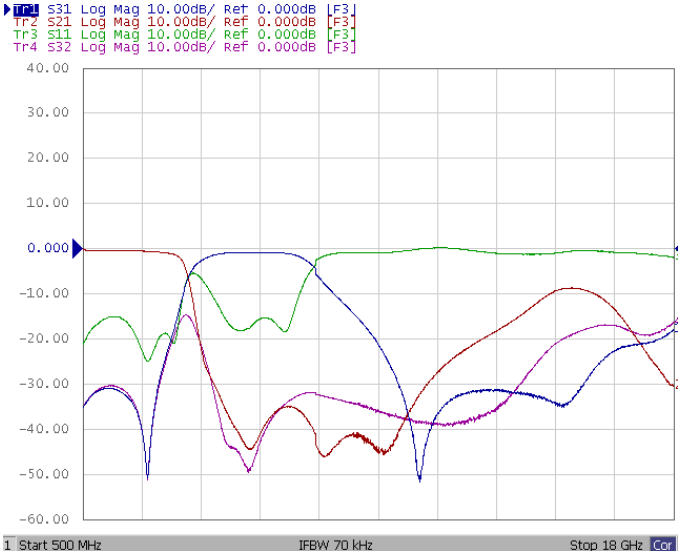

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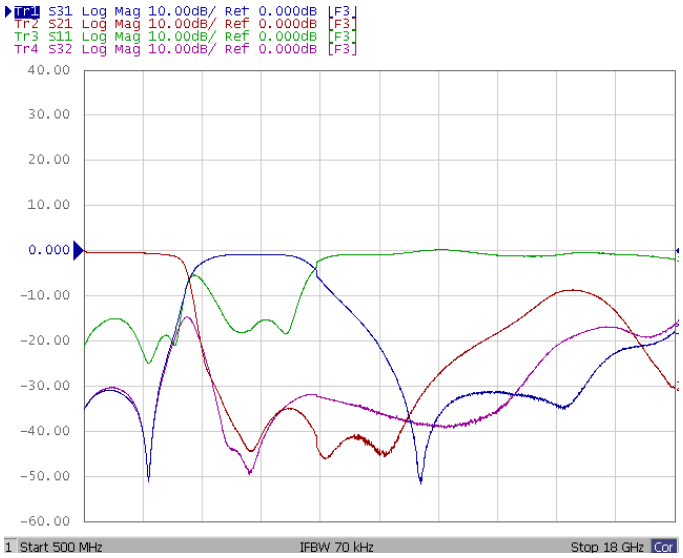
Test Instruments：Agilent E5071C Network Analyzer

BTLD001608KLXJMA10



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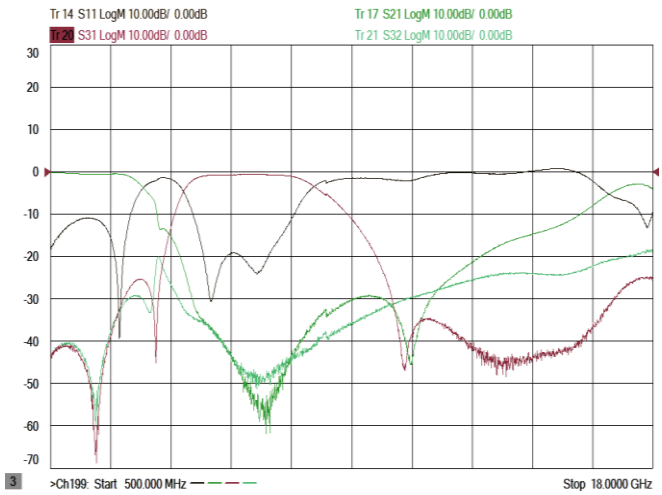

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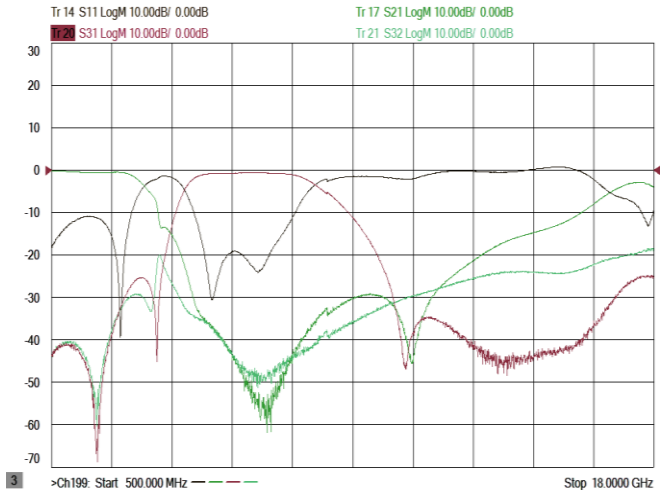

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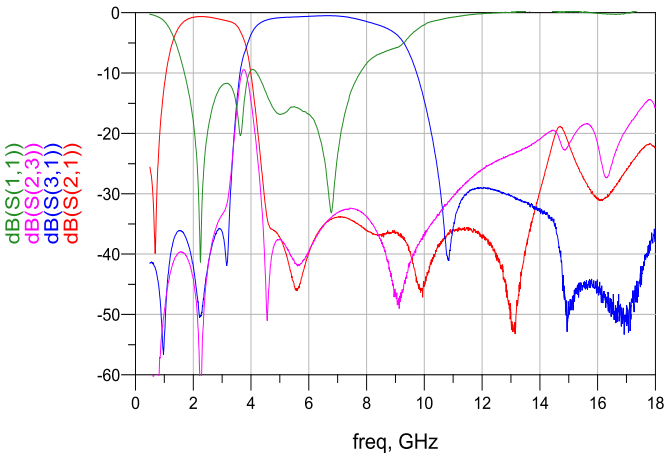

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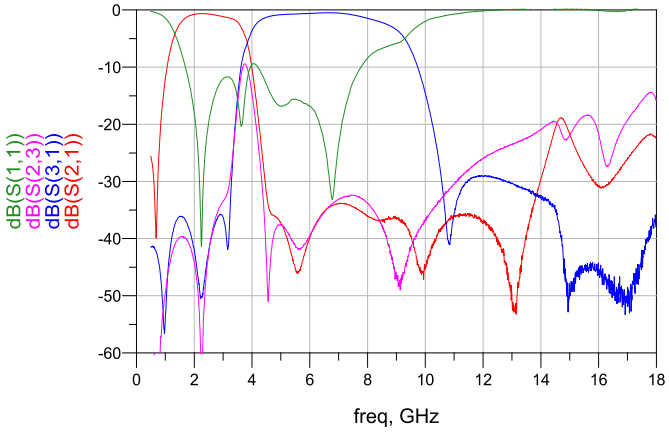

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Electrical Characteristics

Part Number	Pass Band (MHz)	Insertion Loss (dB)Max	Return Loss (dB)Min	Attenuation	Isolation (dB)Min	Application
BTLD002012DLXJVA10	699~960	0.9	10	25dB Min.@ 1427~1511 MHz 30dB Min.@ 1559~1610 MHz 35dB Min.@ 1805~2170 MHz 30dB Min.@ 2400~2700 MHz 20dB Min.@ 3400~3800 MHz 20dB Min.@ 5150~5850 MHz	25	GSM WCDMA LTE
	1427~2200	0.9	10	25dB Min.@ 699~960 MHz	25	
	3400~3800	0.7	10		-	
	5150~5925	0.9	10		-	
BTLD002012JOXKSA10	617~960	0.35(0.2Typ)	12(17.5Typ)	17dB Min./ 20dB Typ.@ 3300~3400 MHz 23dB Min./ 26dB Typ.@ 3400~4200 MHz 23dB Min./ 26.9dB Typ.@ 4400~5000 MHz 28dB Min./ 33.2dB Typ.@ 5150~5925 MHz	30	GSM WCDMA LTE NR WiFi
	1427~1511	0.45(0.3Typ)			30	
	1710~2170	0.55(0.45Typ)			23	
	2300~2496	0.75(0.6Typ)				
	2496~2690	0.95(0.75Typ)				
	3300~3400	1.4(1.15Typ)	12(19Typ)	30dB Min./ 36.8dB Typ.@ 617~960 MHz 30dB Min./ 35.5dB Typ.@ 1427~1511 MHz 25dB Min./ 27.3dB Typ.@ 1710~2170 MHz 22dB Min./ 27dB Typ.@ 2170~2690 MHz 22dB Min./ 27dB Typ.@ 2170~2690 MHz 10dB Min./ 23.5dB Typ.@ 1.545~1.7775 GHz	18	
	3400~4200	1.1(0.95Typ)			23	
	4400~5000	0.7(0.5Typ)			23	
	5150~5925	0.55(0.4Typ)			28	
BTLD0020122G4S1A40	2400~2500	0.7	11.73	20dB Min.@ 4800~6000 MHz	-	WLAN
	4900~5850	0.9	10.88	20dB Min.@ 2400~2500 MHz		
BTLD0020122G4S1B50	2400~2500	25℃ 0.5	10	20dB Min.@ 4800~5000 MHz 20dB Min.@ 7200~7500 MHz	-	WLAN
		-40~85℃ 0.65				
	4900~5950	25℃ 1	10	20dB Min.@ 2400~2500 MHz 15dB Min.@ 9800~11900 MHz		
		-40~85℃ 1.15				
BTLD0020122G4S1B60	2400~2500	25℃ 0.5	10	20dB Min.@ 4800~5000 MHz 20dB Min.@ 7200~7500 MHz	-	WLAN
		-40~85℃ 0.7				
	4900~5950	25℃ 1	10	20dB Min.@ 1800~2500 MHz 15dB Min.@ 9800~11900 MHz		
		-40~85℃ 1.2				
BTLD0020122G4S1D20	2400~2500	0.7	10	20dB Min.@ 4800~6000 MHz 15dB Min.@ 7200~7500 MHz	-	WLAN
	4900~5950	1	10	20dB Min.@ 1800~2500 MHz 25dB Min.@ 9800~11900 MHz 15dB ref.@ 14700~17850 MHz		

- Operating temperature range －40℃～85℃

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Electrical Characteristics

Part Number	Pass Band (MHz)	Insertion Loss (dB)Max	Return Loss (dB)Min	Attenuation	Isolation (dB)Min	Application
BTLD0020122G4S3A70	2400~2500	0.5	10	20dB Min.@ 4800~6000 MHz 22dB Min.@ 7200~7500 MHz	-	WLAN
	4900~5950	0.65	10	22dB Min.@ 824~915 MHz 22dB Min.@ 1800~2500 MHz 15dB Min.@ 9800~11900 MHz		
BTLD0020122G4S3A80	2400~2500	0.5	10	20dB Min.@ 4800~6000 MHz 22dB Min.@ 7200~7500 MHz	-	WLAN
	4900~5950	0.65	10	22dB Min.@ 824~915 MHz 22dB Min.@ 1800~2500 MHz 15dB Min.@ 9800~11900 MHz		
BTLD0020122G4S3E80	2400~2500	0.5	10	20dB Min.@ 4800~6000 MHz 22dB Min.@ 7200~7500 MHz	-	WLAN
	4900~5950	0.65	10	22dB Min.@ 824~915 MHz 25dB Min.@ 1800~2500 MHz 20dB Min.@ 9800~11900 MHz		

- Operating temperature range －40℃～85℃

Electrical Characteristics

Part Number	Pass Band (MHz)	Impedance(Ω)		Insertion Loss (dB)Max	Return Loss (dB)Min	Attenuation	Isolation (dB)Min	Application
		ANT Port	RX/TX Port					
BTLD0020152G4S3A10	2400~2500	50	RX: Conj. match to MT7668	25℃ 2.2 105℃ 2.5	10	21dB Min.@ 4800~5000 MHz 23dB Min.@ 5000~5950 MHz 20dB Min.@ 7200~7500 MHz	30dB Min @ 4900~5950 MHz	WLAN/BT
	2400~2500	50	TX: Conj. match to MT7668	25℃ 1.5 105℃ 1.8	10	27dB Min.@ 4800~5000 MHz 23dB Min.@ 5000~5950 MHz 20dB Min.@ 7200~7500 MHz		
	4900~5950	50	50	25℃ 1.3 105℃ 1.6	10	30dB Min.@ 2400~2500 MHz 10dB Min.@ 8100~8800 MHz 15dB Min.@ 8820~9800 MHz 23dB Min.@ 9800~11900 MHz	25dB Min @ 2400~2500 MHz	

- Operating temperature range －40℃～85℃

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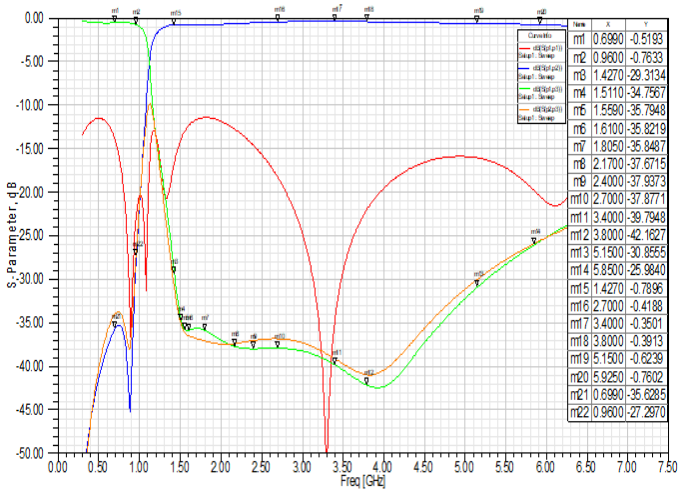
CHILISIN ELECTRONICS CORP.

Test Instruments：Agilent E5071C Network Analyzer

BTLD002012DLXJVA10



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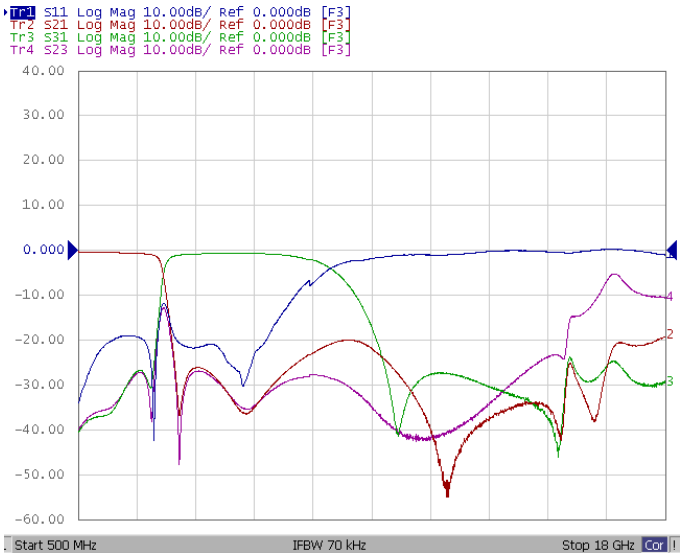

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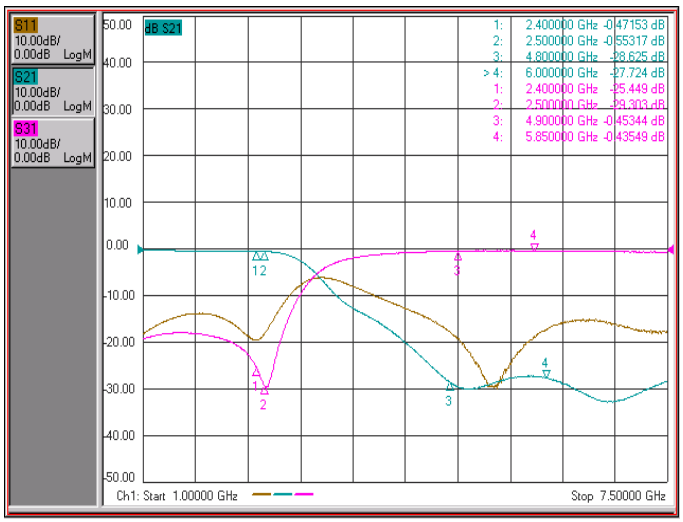

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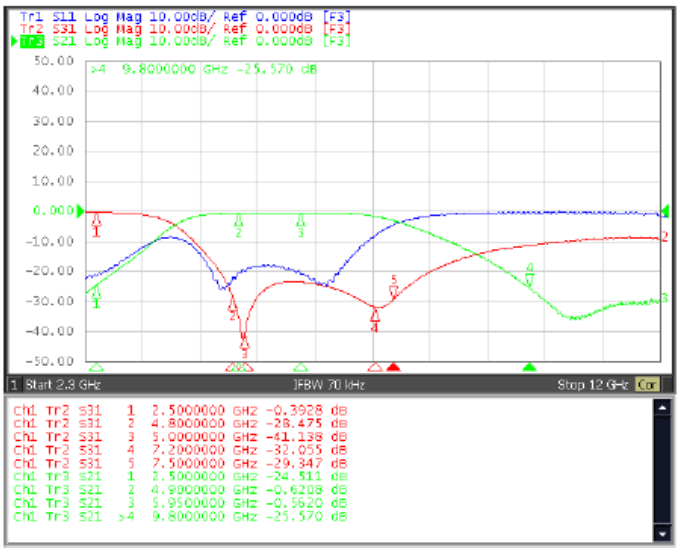
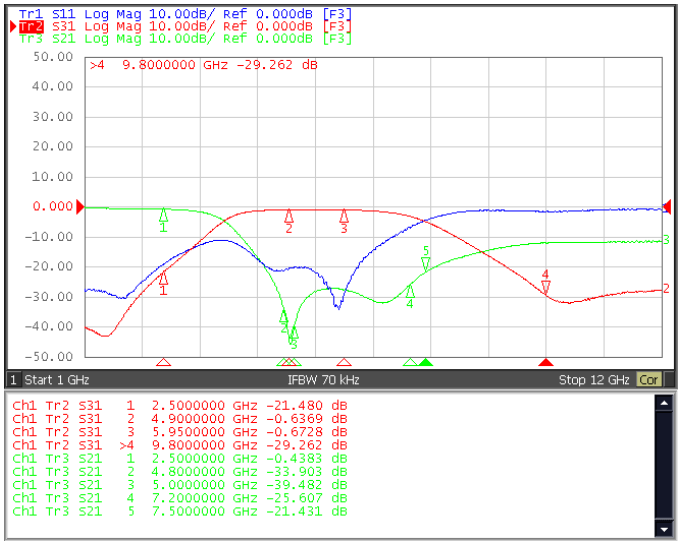


BTLD0020122G4S1B60



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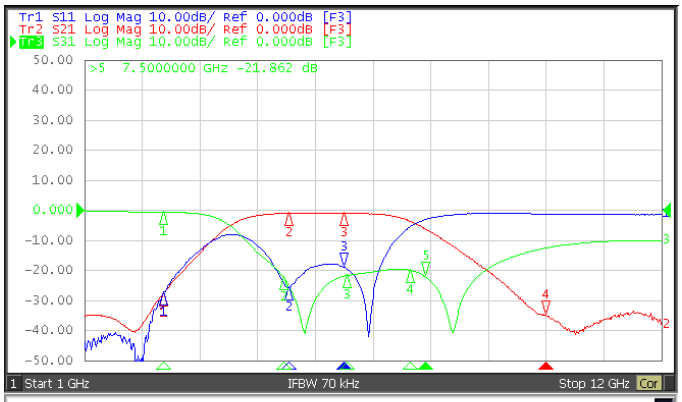
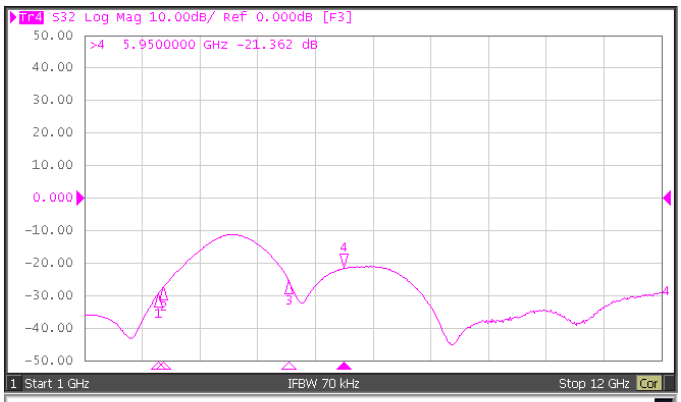
CHILISIN ELECTRONICS CORP.

Test Instruments：Agilent E5071C Network Analyzer

BTLD0020122G4S1D20

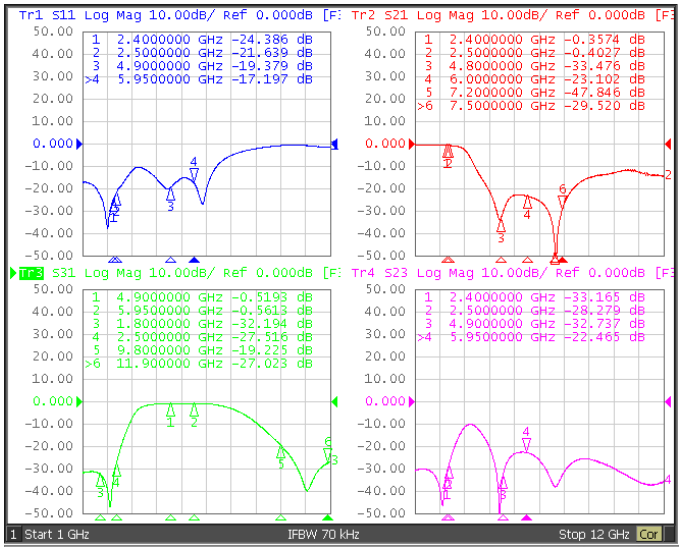


Ch1 Tr1 S11	1	2.5000000 GHz	-27.040 dB
Ch1 Tr1 S11	2	4.9000000 GHz	-25.450 dB
Ch1 Tr1 S11	3	5.9500000 GHz	-18.759 dB
Ch1 Tr2 S21	1	2.5000000 GHz	-27.386 dB
Ch1 Tr2 S21	2	4.9000000 GHz	-0.7207 dB
Ch1 Tr2 S21	3	5.9500000 GHz	-0.7802 dB
Ch1 Tr2 S21	4	9.8000000 GHz	-34.651 dB
Ch1 Tr3 S31	1	2.5000000 GHz	-0.2728 dB
Ch1 Tr3 S31	2	4.8000000 GHz	-22.161 dB
Ch1 Tr3 S31	3	6.0000000 GHz	-21.368 dB



Ch1 Tr4 S32	1	2.4000000 GHz	-29.351 dB
Ch1 Tr4 S32	2	2.5000000 GHz	-27.186 dB
Ch1 Tr4 S32	3	4.9000000 GHz	-25.343 dB
Ch1 Tr4 S32	>4	5.9500000 GHz	-21.362 dB

BTLD0020122G4S3A70



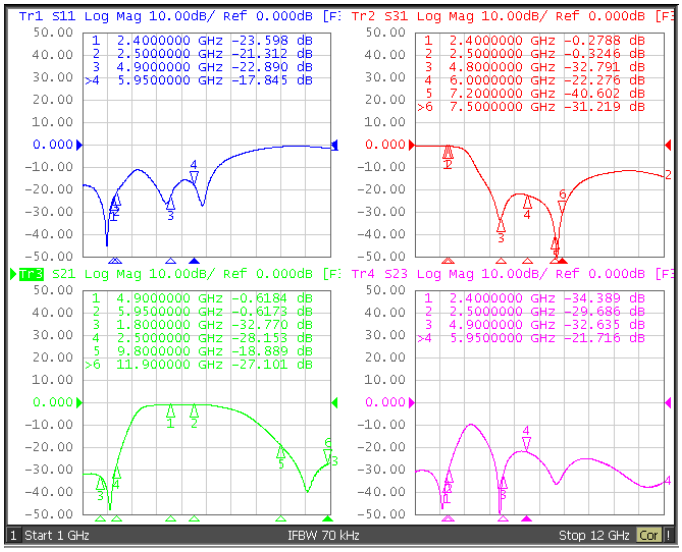
1	2.4000000 GHz	-24.386 dB	
2	2.5000000 GHz	-21.639 dB	
3	4.9000000 GHz	-19.379 dB	
>4	5.9500000 GHz	-17.197 dB	

1	2.4000000 GHz	-0.3574 dB	
2	2.5000000 GHz	-0.4027 dB	
3	4.8000000 GHz	-33.476 dB	
4	6.0000000 GHz	-23.102 dB	
5	7.2000000 GHz	-47.846 dB	
>6	7.5000000 GHz	-29.520 dB	

1	4.9000000 GHz	-0.5193 dB	
2	5.9500000 GHz	-0.5613 dB	
3	1.8000000 GHz	-32.194 dB	
4	2.5000000 GHz	-27.516 dB	
5	9.8000000 GHz	-19.225 dB	
>6	11.900000 GHz	-27.023 dB	

1	2.4000000 GHz	-33.165 dB	
2	2.5000000 GHz	-28.279 dB	
3	4.9000000 GHz	-32.737 dB	
>4	5.9500000 GHz	-22.465 dB	

BTLD0020122G4S3A80



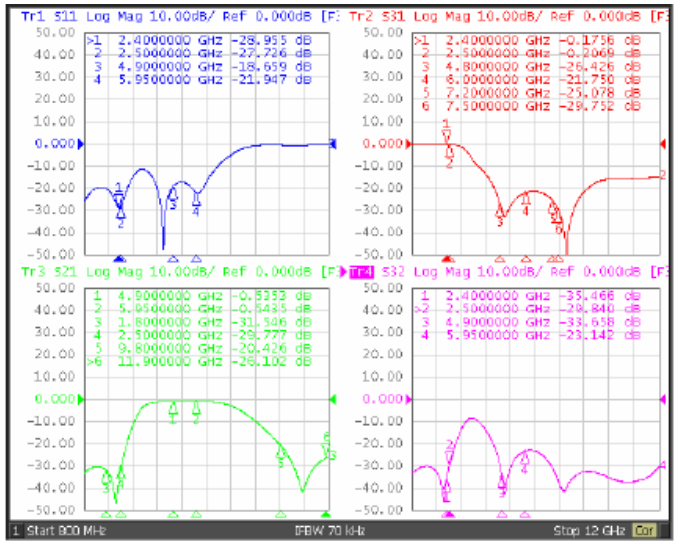
1	2.4000000 GHz	-23.598 dB	
2	2.5000000 GHz	-21.312 dB	
3	4.9000000 GHz	-22.890 dB	
>4	5.9500000 GHz	-17.845 dB	

1	2.4000000 GHz	-0.2788 dB	
2	2.5000000 GHz	-0.3246 dB	
3	4.8000000 GHz	-32.791 dB	
4	6.0000000 GHz	-22.276 dB	
5	7.2000000 GHz	-40.602 dB	
>6	7.5000000 GHz	-31.219 dB	

1	4.9000000 GHz	-0.6184 dB	
2	5.9500000 GHz	-0.6173 dB	
3	1.8000000 GHz	-32.770 dB	
4	2.5000000 GHz	-28.153 dB	
5	9.8000000 GHz	-18.889 dB	
>6	11.900000 GHz	-27.101 dB	

1	2.4000000 GHz	-34.389 dB	
2	2.5000000 GHz	-29.686 dB	
3	4.9000000 GHz	-32.635 dB	
>4	5.9500000 GHz	-21.716 dB	

BTLD0020122G4S3E80



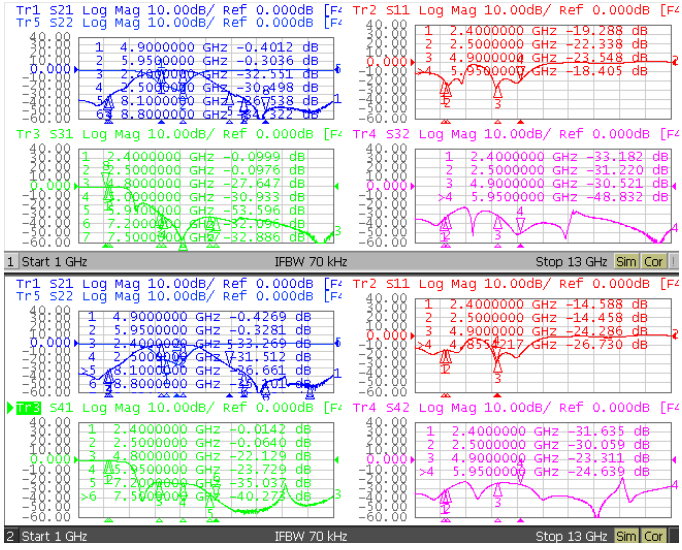
>1	2.4000000 GHz	-28.955 dB	
2	2.5000000 GHz	-27.726 dB	
3	4.9000000 GHz	-18.659 dB	
4	5.9500000 GHz	-21.947 dB	

>1	2.4000000 GHz	-0.1756 dB	
2	2.5000000 GHz	-0.2069 dB	
3	4.8000000 GHz	-26.426 dB	
4	6.0000000 GHz	-21.750 dB	
5	7.2000000 GHz	-25.078 dB	
6	7.5000000 GHz	-29.752 dB	

1	4.9000000 GHz	-0.5353 dB	
2	5.9500000 GHz	-0.5435 dB	
3	1.8000000 GHz	-31.506 dB	
4	2.5000000 GHz	-25.777 dB	
5	9.8000000 GHz	-20.426 dB	
>6	11.900000 GHz	-28.102 dB	

>1	2.4000000 GHz	-35.466 dB	
>2	2.5000000 GHz	-29.840 dB	
3	4.9000000 GHz	-33.658 dB	
4	5.9500000 GHz	-23.142 dB	

BTLD0020152G4S3A10



1	4.9000000 GHz	-0.4012 dB	
2	5.9500000 GHz	-0.3036 dB	
3	2.4000000 GHz	-32.551 dB	
4	2.5000000 GHz	-30.498 dB	
5	8.1000000 GHz	-26.538 dB	
6	8.8000000 GHz	-24.322 dB	

1	2.4000000 GHz	-19.288 dB	
2	2.5000000 GHz	-22.338 dB	
3	4.9000000 GHz	-23.548 dB	
>4	5.9500000 GHz	-18.405 dB	

1	2.4000000 GHz	-0.0999 dB	
2	2.5000000 GHz	-0.0976 dB	
3	4.8000000 GHz	-27.647 dB	
4	6.0000000 GHz	-30.933 dB	
5	5.9500000 GHz	-53.596 dB	
6	7.2000000 GHz	-32.096 dB	
7	7.5000000 GHz	-32.886 dB	

1	2.4000000 GHz	-33.182 dB	
2	2.5000000 GHz	-31.220 dB	
3	4.9000000 GHz	-30.521 dB	
>4	5.9500000 GHz	-48.832 dB	

1	4.9000000 GHz	-0.4269 dB	
2	5.9500000 GHz	-0.3281 dB	
3	3.4000000 GHz	-33.269 dB	
4	2.5000000 GHz	-31.512 dB	
>5	8.1000000 GHz	-26.661 dB	
6	8.8000000 GHz	-24.401 dB	

1	2.4000000 GHz	-14.588 dB	
2	2.5000000 GHz	-14.458 dB	
3	4.9000000 GHz	-24.286 dB	
>4	5.9550217 GHz	-26.730 dB	

1	2.4000000 GHz	+0.0142 dB	
2	2.5000000 GHz	+0.0640 dB	
3	4.8000000 GHz	+22.129 dB	
4	5.9500000 GHz	+23.729 dB	
5	7.2000000 GHz	+35.037 dB	
>6	7.5000000 GHz	+40.277 dB	

1	2.4000000 GHz	-31.635 dB	
2	2.5000000 GHz	-30.059 dB	
3	4.9000000 GHz	-23.311 dB	
>4	5.9500000 GHz	-24.639 dB	

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Electrical Characteristics

Part Number	Pass Band (MHz)	Insertion Loss (dB)Max 25℃	Insertion Loss (dB)Max -40~85℃	Return Loss (dB)Min	Attenuation	Isolation (dB)Min	Application
BTLD002520DHXKMA10 BTLD002520DHXKMB10	617~960	0.6	0.7	12(20Typ)	18dB Min./ 27dB Typ.@ 1427~1463 MHz 23dB Min./ 30dB Typ.@ 1452~1496 MHz 23dB Min./ 30dB Typ.@ 1463~1496 MHz 23dB Min./ 30dB Typ.@ 1496~1511 MHz 20dB Min./ 25dB Typ.@ 1554~1605 MHz 20dB Min./ 24dB Typ.@ 1695~1710 MHz 20dB Min./ 24dB Typ.@ 1710~1850 MHz 20dB Min./ 24dB Typ.@ 1760~1850 MHz 20dB Min./ 24dB Typ.@ 1850~2108 MHz 23dB Min./ 27dB Typ.@ 2109~2200 MHz 25dB Min./ 30dB Typ.@ 2300~2400 MHz 25dB Min./ 31dB Typ.@ 2401~2496 MHz 25dB Min./ 33dB Typ.@ 2496~2586 MHz 28dB Min./ 35dB Typ.@ 2620~2745 MHz 30dB Min./ 39dB Typ.@ 3300~4200 MHz 30dB Min./ 38dB Typ.@ 4400~5000 MHz 20dB Min./ 25dB Typ.@ 5150~5925 MHz 5dB Typ.@ 5925~12750 MHz	23	GSM/LTE WCDMA
	1452~1496	0.7	0.8	12(20Typ)	23dB Min./ 26dB Typ.@ 617~915 MHz 24dB Min./ 27dB Typ.@ 915~960 MHz 10dB Typ.@ 3300~3400 MHz	23	
	1710~1995	0.6	0.7		15dB Min./ 18dB Typ.@ 3400~3600 MHz 15dB Min./ 18dB Typ.@ 3600~3800 MHz	20	
	2010~2690	0.7	0.8		15dB Min./ 18dB Typ.@ 3800~5130 MHz 28dB Min./ 35dB Typ.@ 5130~5925 MHz 7.5dB Typ.@ 5925~12750 MHz	20	
BTLD002520EIXSTA10	699~960	0.6	0.7	10(15.7Typ)	5dB Min./ 10.1dB Typ.@ 2300~2350 MHz 10dB Min./ 15.5dB Typ.@ 2350~2500 MHz 15dB Min./ 22.4dB Typ.@ 2500~2690 MHz	12	LTE/NR
	960~1427	0.75	0.85			11	
	1427~1710	0.85	0.95			11	
	1710~1990	1	1.15			10	
	1990~2110	1.5	1.65			12	
	2110~2170	2.5	2.7			5	
	2300~2350	2.65	2.85	10(12.8Typ)	12dB Min./ 14.8dB Typ.@ 699~960 MHz 12dB Min./ 13.7dB Typ.@ 960~1427 MHz 12dB Min./ 13.7dB Typ.@ 1427~1710 MHz 10dB Min./ 14.2dB Typ.@ 1710~1990 MHz 12dB Min./ 17.6dB Typ.@ 1990~2110 MHz	5	
	2350~2500	1.5	1.65			10	
	2500~2690	0.7	0.85			15	
	3300~3600	0.7	0.85	9(11.5Typ)	5dB Min./ 10.7dB Typ.@ 2110~2170 MHz	-	

- Operating temperature range －40℃～85℃

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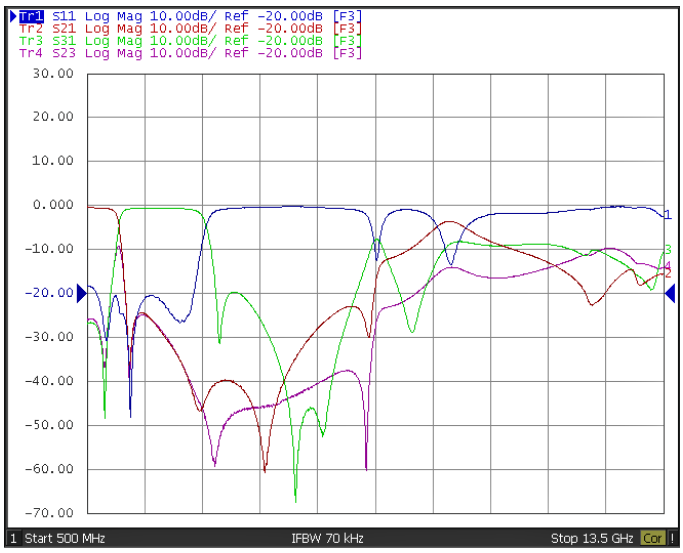
Electrical Characteristics

Part Number	Pass Band (MHz)	Insertion Loss (dB)Max	Return Loss (dB)Min	Attenuation	Isolation (dB)Min	Application
BTLD002520JOXKSA10 .	617~960	0.3(0.1Typ)	10(18.5Typ)	15dB Min./ 21.1dB Typ.@ 3300~3400 MHz 23dB Min./ 27dB Typ.@ 3400~3800 MHz 28dB Min./ 30.9dB Typ.@ 5150~5925 MHz	30	LTE/NR
	1427~1661	0.45(0.18Typ)			27	
	1710~2170	0.45(0.26Typ)			23	
	2300~2496	0.60(0.41Typ)			23	
	2496~2690	0.75(0.63Typ)			23	
	3300~3400	1.4(0.93Typ)	10(14.4Typ)	30dB Min./ 38.7dB Typ.@ 617~960 MHz 30dB Min./ 39dB Typ.@ 1427~1511 MHz 23dB Min./ 29.8dB Typ.@ 1710~2690 MHz 20dB Min./ 39.6dB Typ.@ 1.03~1.17 GHz 5dB Min./ 20.1dB Typ.@ 1.545~1.755 GHz	15	LTE/NR
	3400~3600	0.85(0.73Typ)			23	
	3600~3800	0.7(0.59Typ)			23	
	5150~5925	0.7(0.58Typ)			28	

- Operating temperature range －40℃～85℃

Test Instruments：Agilent E5071C Network Analyzer

BTLD002520DHXKMA10



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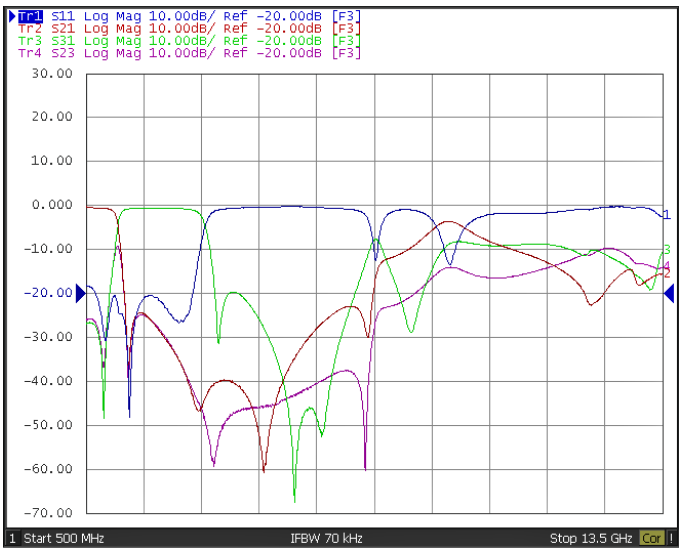
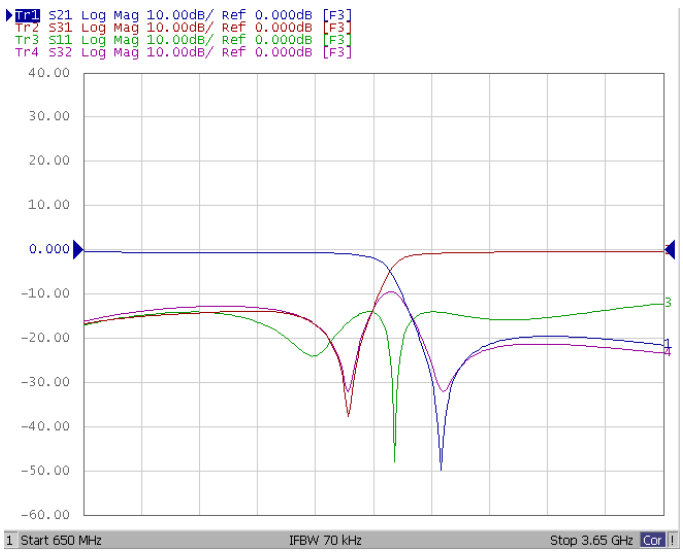


BTLD002520EIXSTA10



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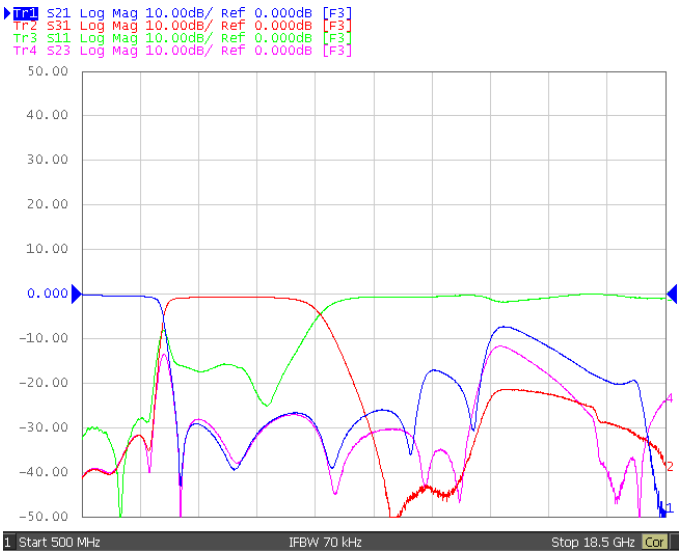

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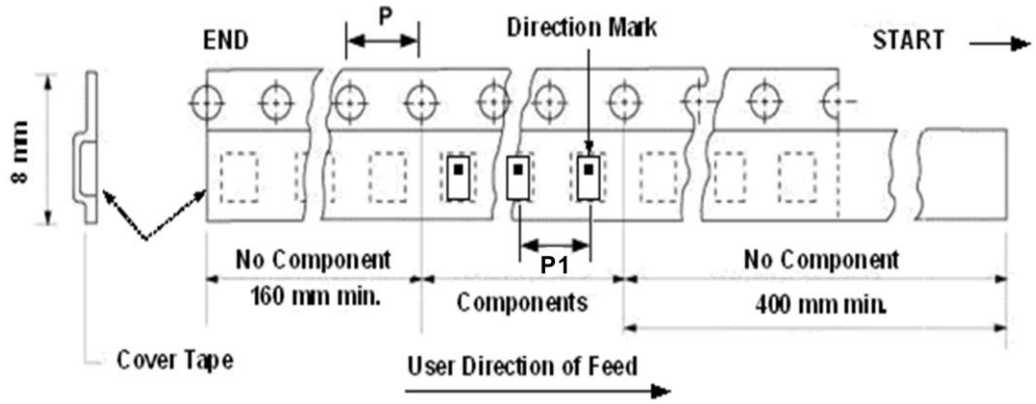
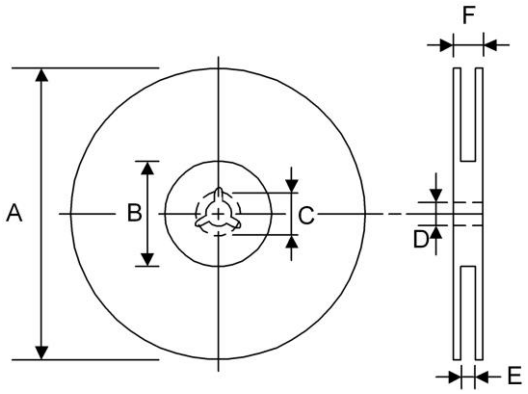
Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions		Reel Dimensions						Quantity
	P	P1	A	B	C	D	E	F	PCS / REEL
BTLD001005	4	2	178	60	-	13	9	12	10000
BTLD001608	4	4	178	60	-	13	9	12	4000
BTLD002012	4	4	178	60	-	13	9	12	4000
BTLD002520	4	4	178	60	-	13	9	12	3000

BTLU Series

Chilisin offer multilayer devices of Low-Temperature Cofired Ceramics (LTCC) for applications in wireless communication as WLAN, Bluetooth etc. Our commitment is to meet your goals through extensive technological innovation, excellent quality, short lead time and high volume production capability.

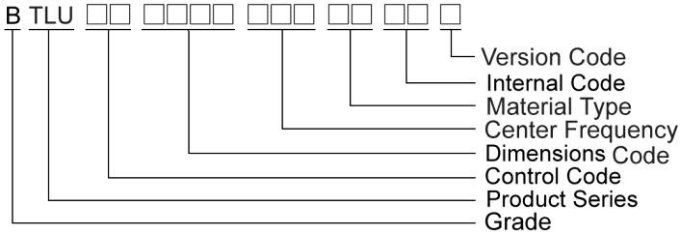
Features

- RoHS, Halogen Free and REACH Compliance
- Miniaturized.
- Low insertion loss
- Eliminate noise over a wide frequency range. Idea for high frequency and space limited designs.

Applications

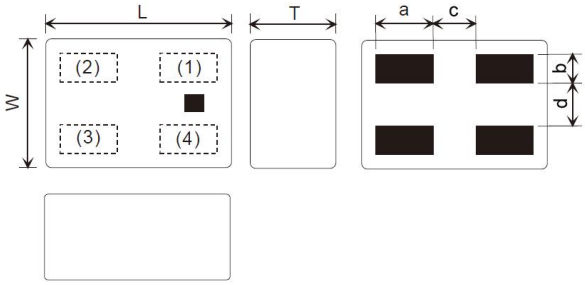
- WLAN ,Home RF, Bluetooth Module, etc.
- GSM/WCDMA/LTE mobile communication systems

Product Identification

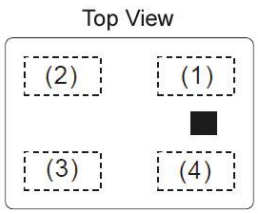


Shapes and Dimensions

BTLU000605xGxxxA10

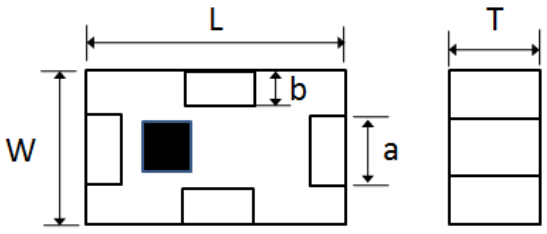


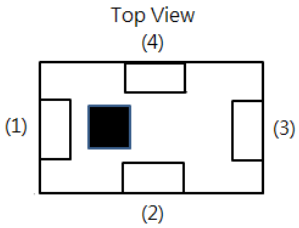
Terminal Configuration



① GND ② Unbalance Port ③ ④ Balance Port

BTLU0010050G7H6D10/BTLU0010052G0S1A10





① ③ Balance Port ② Unbalance Port ④ GND or DC Feed +RF GND

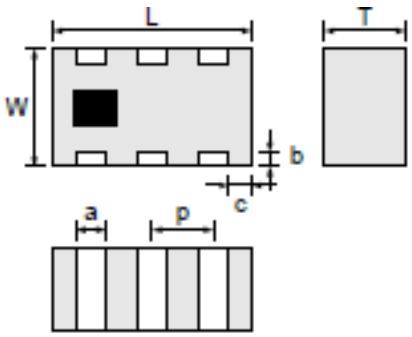
Dimension in mm

TYPE	L	W	T	a	b	c	d
BTLU000605xGxxxA10	0.65±0.1	0.5±0.1	0.4±0.1	0.2±0.05	0.1±0.05	0.2±0.05	0.25±0.05
BTLU0010050G7H6D10	1.0±0.05	0.5±0.05	0.5 Max.	0.3±0.1	0.15±0.1	-	-
BTLU0010052G0S1A10	1.0±0.05	0.5±0.05	0.45±0.05	0.3±0.1	0.15±0.1	-	-

Low Temperature Cofired Ceramic - BTLU Series

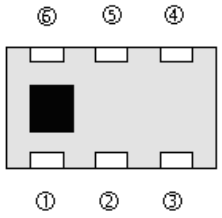
Shapes and Dimensions

BTLU001608xGxS1xx0



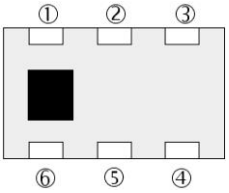
Terminal Configuration

BTLU0016082G4S1A10/BTLU0016083G8S1A20/BTLU0016084G0S1A10



① Unbalance Port ② GND or DC Feed + RF GND ③ Balance Port 1
④ Balance Port 2 ⑤ GND ⑥ N.C

BTLU001608xGxS1xx0



① N.C ② GND ③ Balance Port 1
④ Balance Port 2 ⑤ GND or DC ⑥ Unbalance Port

Dimension in mm

TYPE	L	W	T	a	b	c	p
BTLU0016082G4S1A10	1.6±0.10	0.8±0.1	0.6±0.1	0.3±0.1	$0.3^{+0.1}_{-0.2}$	0.1±0.1	0.55±0.1
BTLU0016082G4S1A20	1.6±0.15	0.8±0.1	0.6±0.1	0.3±0.1	$0.3^{+0.1}_{-0.2}$	0.1±0.1	0.55±0.1
BTLU0016082G4S1C20	1.6±0.15	0.8±0.1	0.5±0.1	0.3±0.1	$0.3^{+0.1}_{-0.2}$	0.1±0.1	0.55±0.1
BTLU0016083G5S1A20	1.6±0.15	0.8±0.1	0.6±0.1	0.3±0.1	$0.3^{+0.1}_{-0.2}$	0.1±0.1	0.55±0.1
BTLU0016083G8S1A20	1.6±0.15	0.8±0.1	0.6±0.1	0.2±0.1	0.15±0.1	0.2±0.15	0.5±0.05
BTLU0016084G0S1A10	1.6±0.15	0.8±0.1	0.6±0.1	0.2±0.1	0.15±0.1	0.2±0.15	0.5±0.05
BTLU0016085G5S1E10	1.6±0.15	0.8±0.1	0.6±0.1	0.3±0.1	$0.3^{+0.1}_{-0.2}$	0.1±0.1	0.55±0.1

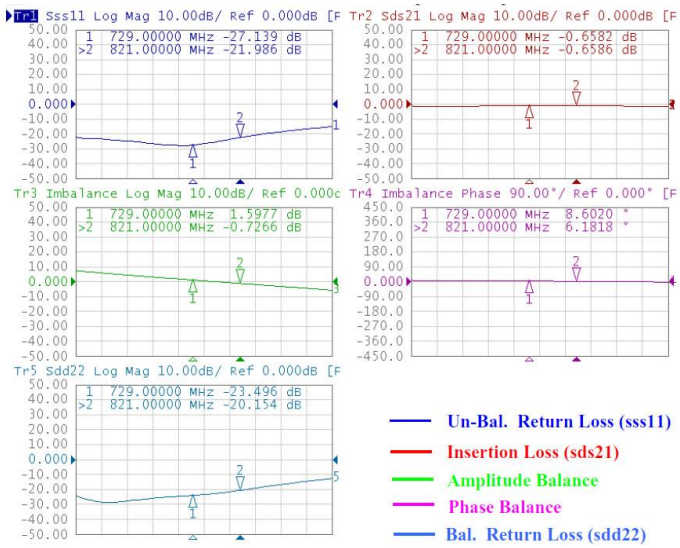
Electrical Characteristics

Part Number	Pass Band (MHz)	Impedance(Ω)		Return Loss (dB)Min	Insertion Loss (dB)Max	Balance Port		Application
		Unbalance	Balance			Amplitude Imbalance	Phase Difference	
BTLU0006050G7H6A10	729~821	50	100	10	0.7	2.0 dB Max	180±10°	LTE
BTLU0006051G8S5A10	1805~1990	50	100	10	0.7	2.0 dB Max	180±10°	LTE
BTLU0006052G5S5A10	2300~2700	50	100	10	0.7	2.5 dB Max	180±10°	WIMAX

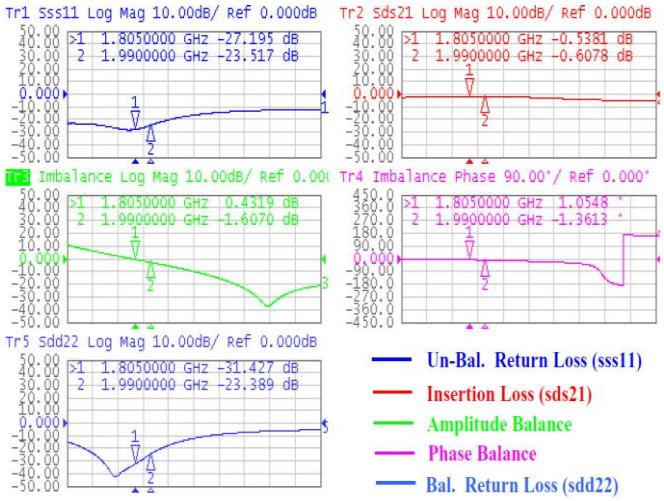
- Operating temperature range －40℃～85℃

Test Instruments：Agilent E5071C Network Analyzer

BTLU0006050G7H6A10



BTLU0006051G8S5A10



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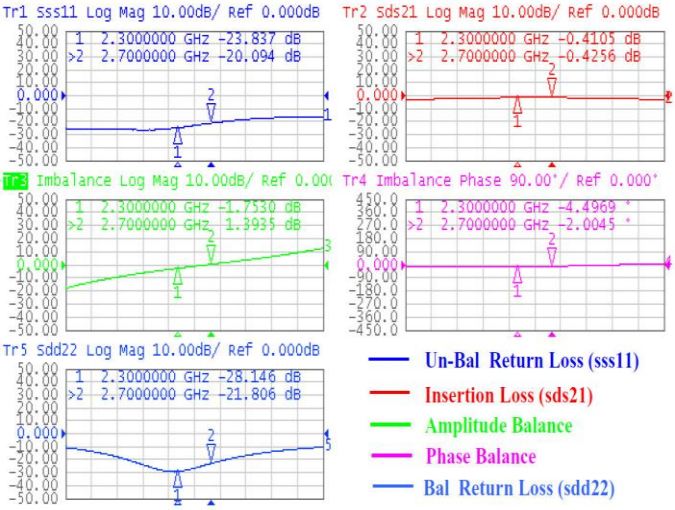

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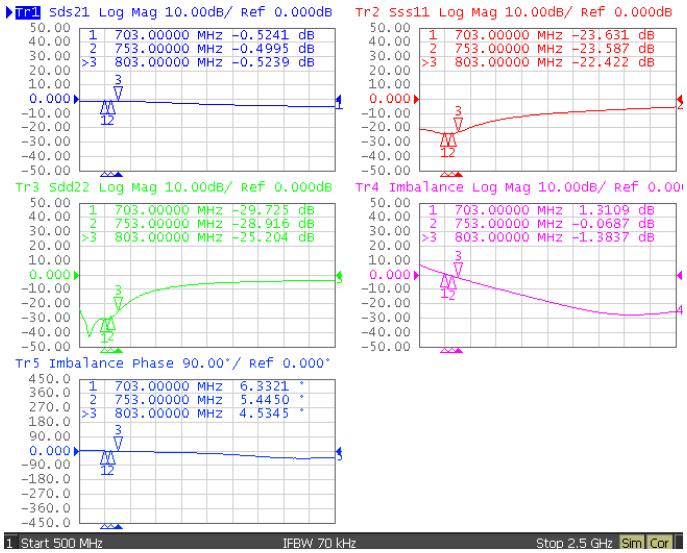
Electrical Characteristics

Part Number	Pass Band (MHz)	Impedance(Ω)		Return Loss (dB)Min	Insertion Loss (dB)Max	Balance Port		Application
		Unbalance	Balance			Amplitude Imbalance	Phase Difference	
BTLU0010050G7H6D10	703~803	50	100	10	0.8 at 25℃ 1.0	2.0 dB Max	180±12°	GSM/WCDMA/LTE
BTLU0010052G0S1A10	1805~2170	50	100	10	1.2	1.2 dB Max	180±15°	LTE

- Operating temperature range －40℃～85℃

Test Instruments：Agilent E5071C Network Analyzer

BTLU0010050G7H6D10



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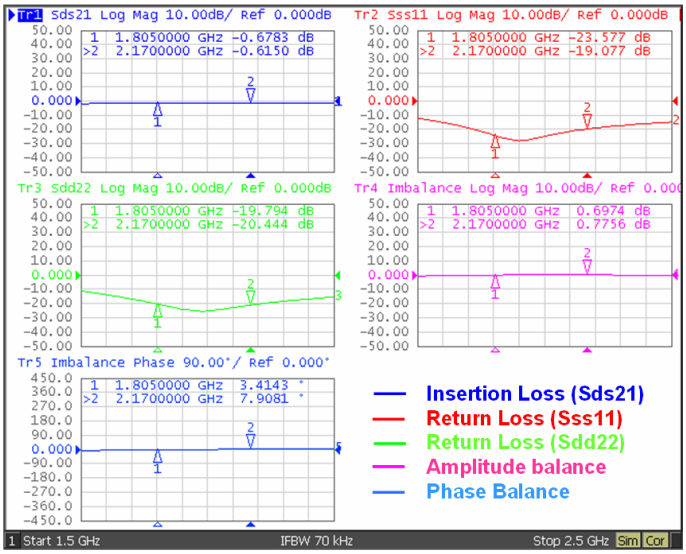

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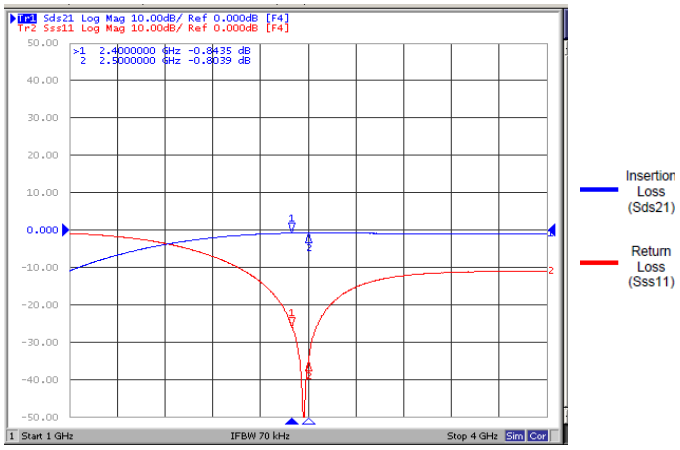
Electrical Characteristics

Part Number	Pass Band (MHz)	Impedance(Ω)		Return Loss (dB)Min	Insertion Loss (dB)Max		Balance Port		Application
		Unbalance	Balance				Amplitude Imbalance	Phase Difference	
BTLU0016082G4S1A10	2400~2500	50	100	10	1.2		2 dB Max	180±10°	WLAN/BT
BTLU0016082G4S1A20	2400~2500	50	50	10	1.2		2 dB Max	180±10°	WLAN/BT
BTLU0016082G4S1C20	2400~2500	50	50	10	1.0		2 dB Max	180±10°	WLAN/BT
BTLU0016083G5S1A20	3300~3800	50	50	10	1.2		2 dB Max	180±15°	WIMAX
BTLU0016083G8S1A20	3300~4200	50	50	10	1.2		1.5 dB Max	180±15°	LTE/5G
BTLU0016084G0S1A10	3100~5000	50	100	10	25℃	1.1	1.2 dB Max	180±10°	LTE/5G
					-40~85℃	1.3	1.4 dB Max	180±12°	
BTLU0016085G5S1E10	4900~5900	50	100	10	1.2		2 dB Max	180±10°	WLAN

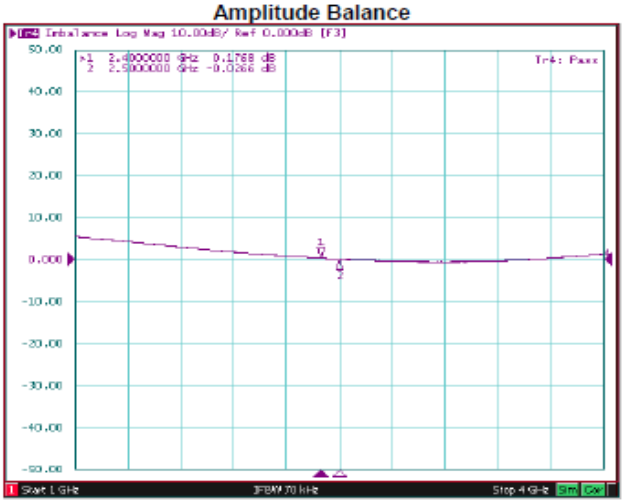
- Operating temperature range －40℃～85℃

Test Instruments：Agilent E5071C Network Analyzer

BTLU0016082G4S1A10



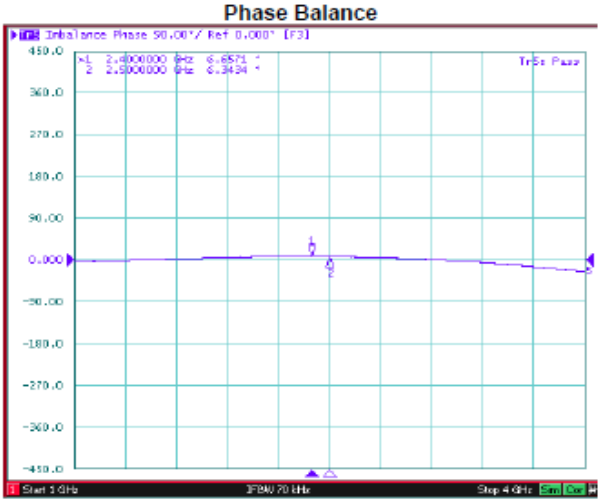
Amplitude Balance

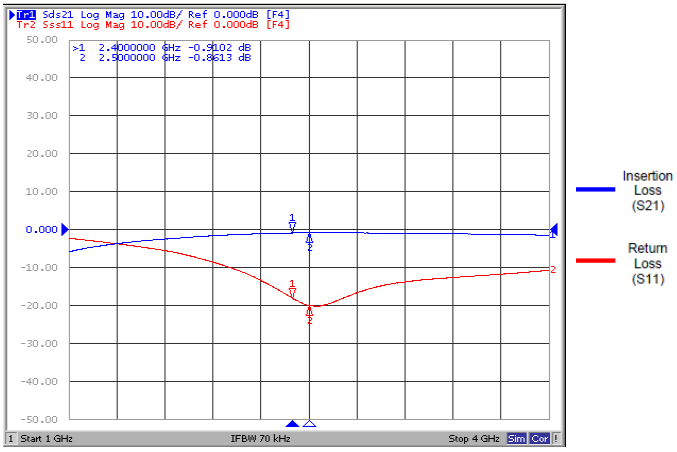


BTLU0016082G4S1A10

BTLU0016082G4S1A20

Phase Balance





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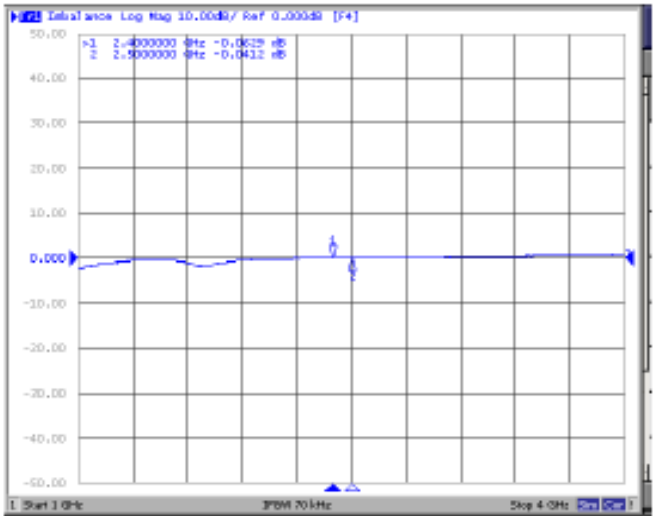
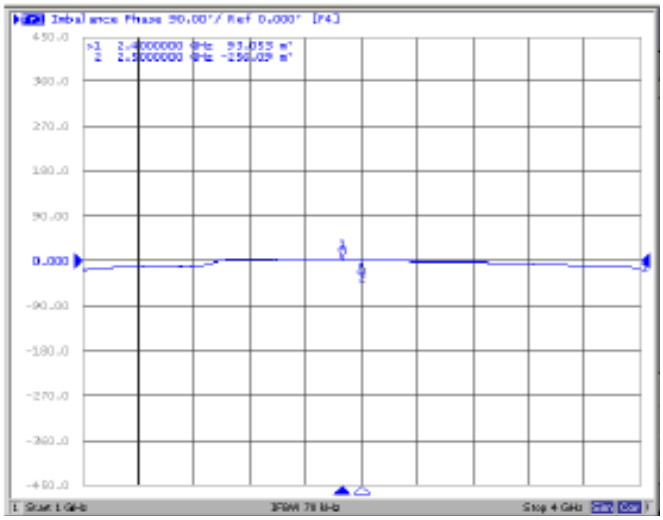
BTLU0016082G4S1A20

Amplitude Balance



Phase Balance



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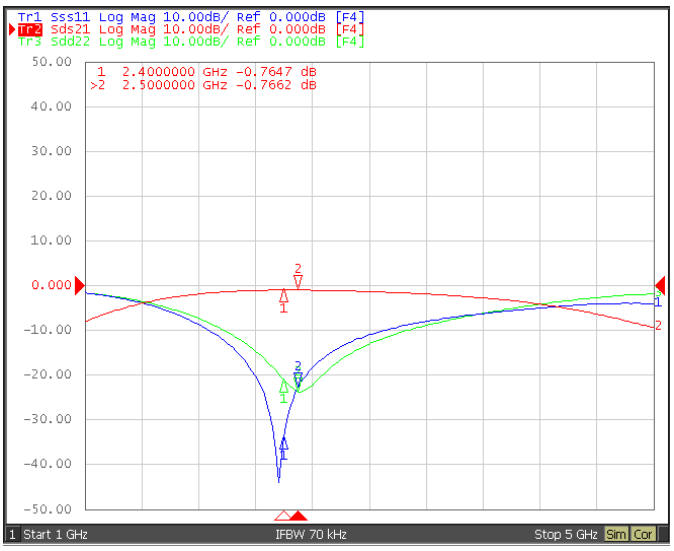
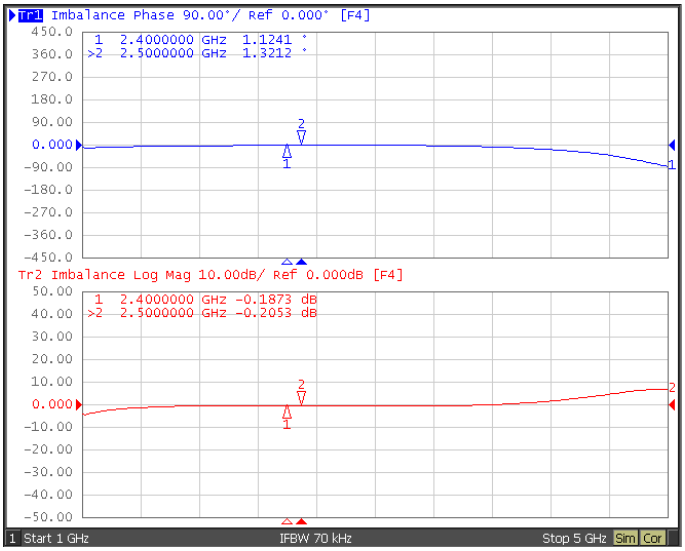
Insertion Loss / Return Loss



Phase / Amplitude



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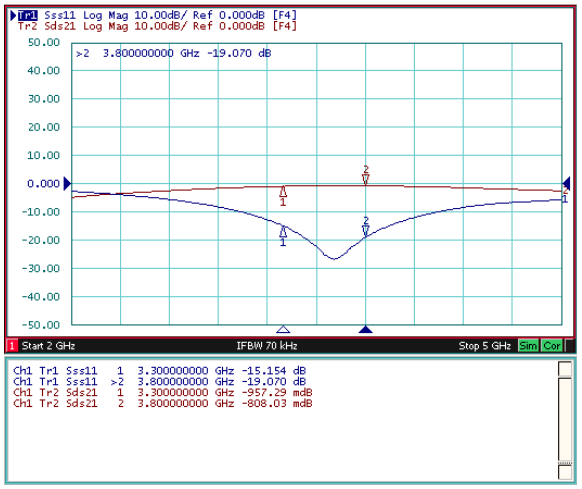
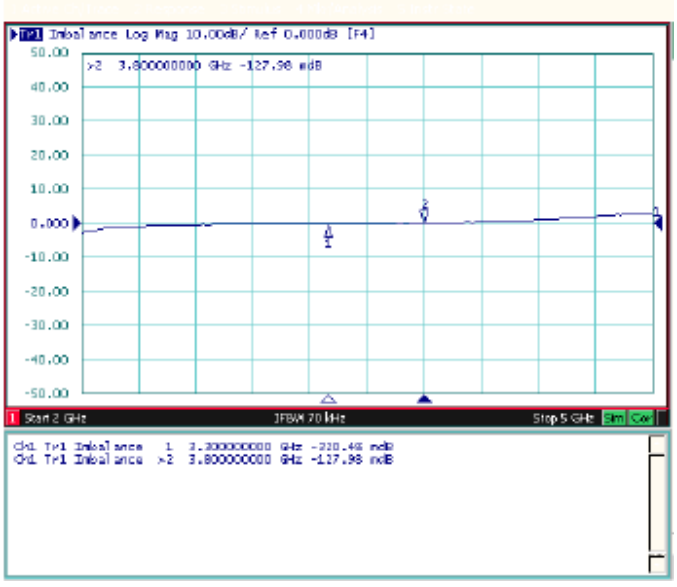


Insertion Loss (Sds21)

Return Loss (Sss11)

Amplitude Balance



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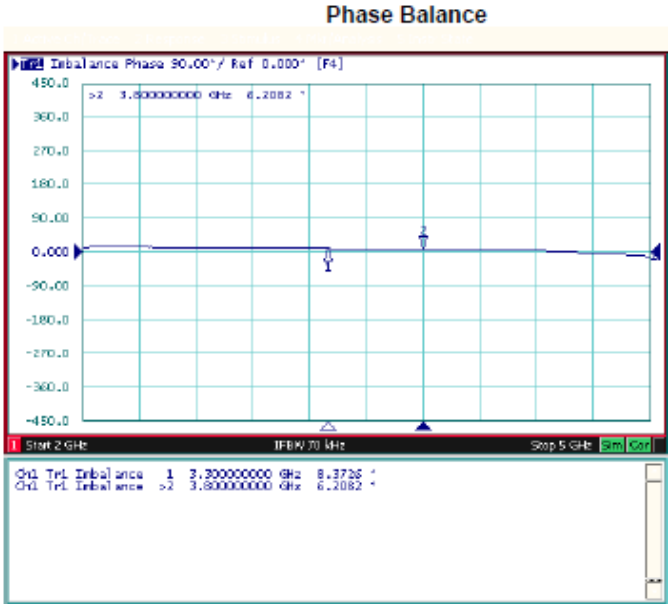
BTLU0016083G5S1A20



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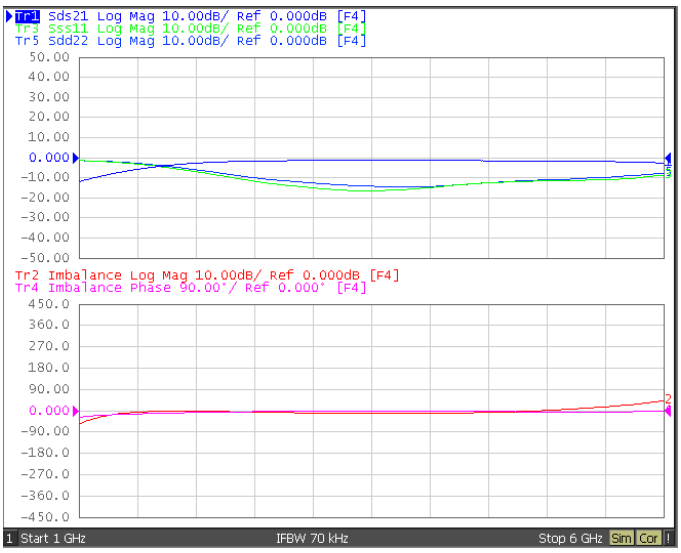

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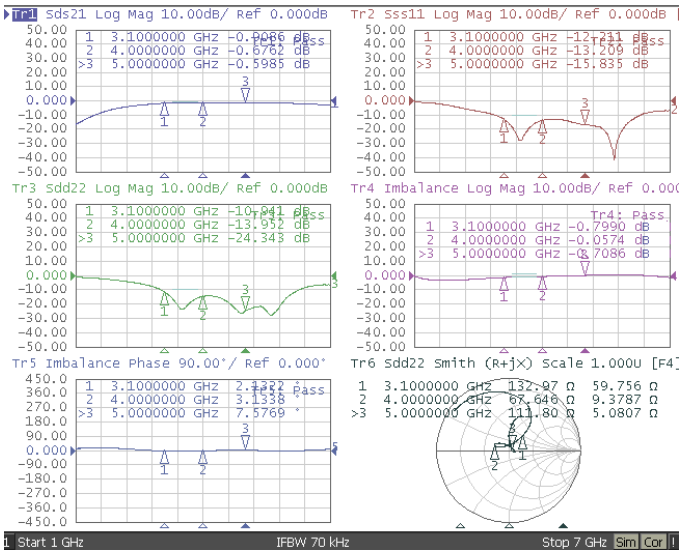

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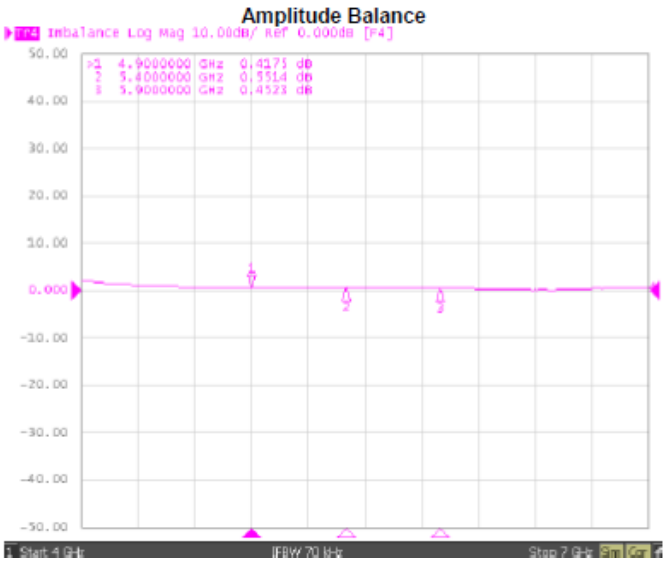
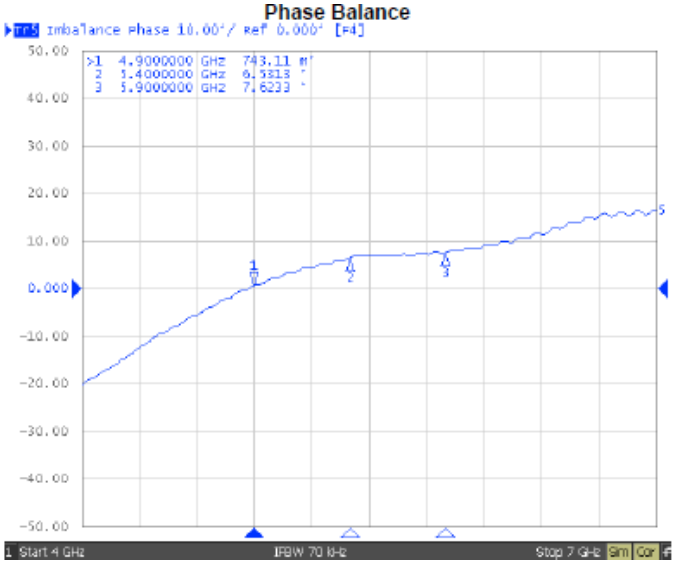
BTLU0016085G5S1E10





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

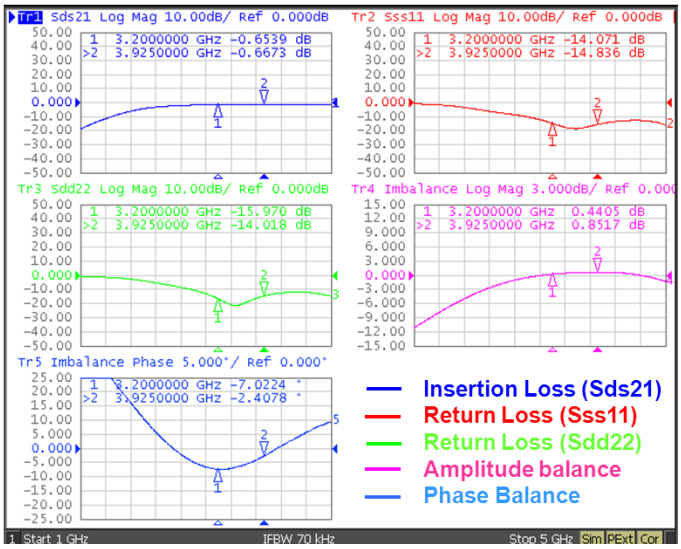
Electrical Characteristics

Part Number	Pass Band (MHz)	Impedance(Ω)		Return Loss (dB)Min	Insertion Loss (dB)Max	Balance Port		Application
		Unbalance	Balance			Amplitude Imbalance	Phase Difference	
BTLU0020123G6S1A30	3200~3925	50	200	10	1.2	1 dB Max	180±10°	WiMAX

- Operating temperature range －40℃～85℃

Test Instruments：Agilent E5071C Network Analyzer

BTLU0020123G6S1A30



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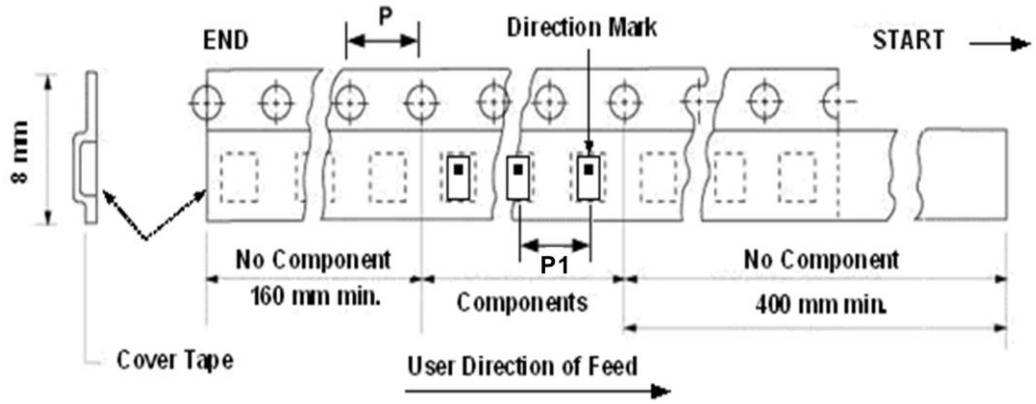
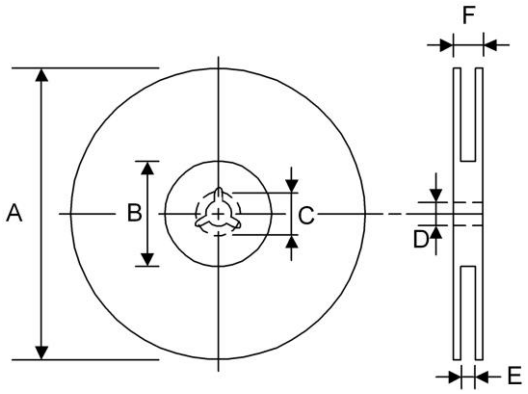
Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions		Reel Dimensions						Quantity
	P	P1	A	B	C	D	E	F	PCS / REEL
BTLU000605	4	2	178	60	-	13	9	12	10000
BTLU001005	4	2	178	60	-	13	9	12	10000
BTLU001608	4	4	178	60	-	13	9	12	4000
BTLU002012	4	4	178	60	-	13	9	12	4000

BTLH Series

Chilisin offer multilayer devices of Low-Temperature Cofired Ceramics (LTCC) for applications in wireless communication as WLAN, Bluetooth etc. Our commitment is to meet your goals through extensive technological innovation, excellent quality, short lead time and high volume production capability.

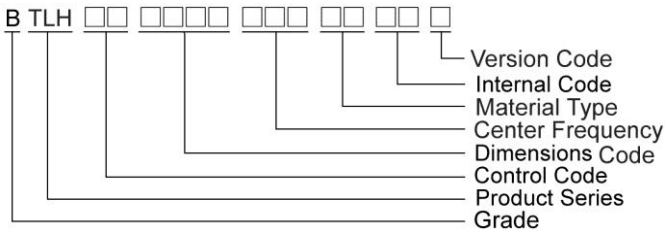
Features

- RoHS, Halogen Free and REACH Compliance
- Miniaturized.
- Low insertion loss, high attenuation.
- Eliminate noise over a wide frequency range. Idea for high frequency and space limited designs.

Applications

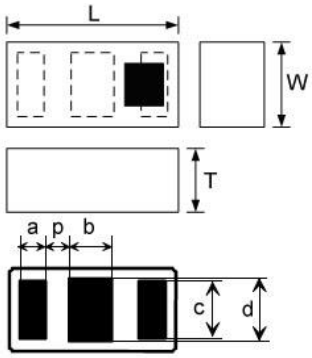
- WLAN ,Home RF, Bluetooth Module, etc.

Product Identification

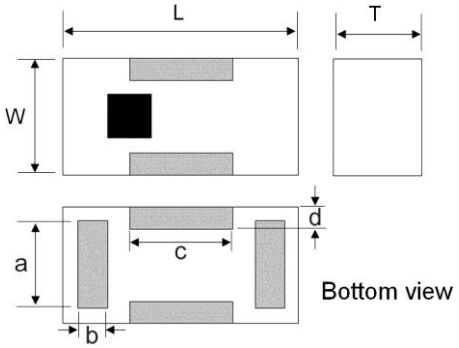


Shapes and Dimensions

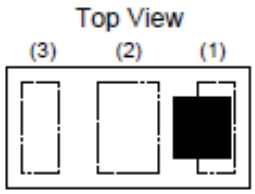
BTLH0016082G5S3A10



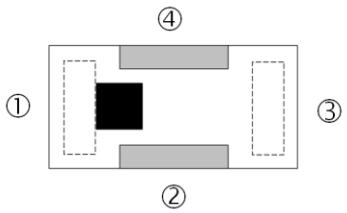
BTLH0016085G5S1A10



Terminal Configuration



① IN ② GND ③ OUT



① IN ② GND ③ OUT ④ GND

Dimension in mm

TYPE	L	W	T	a	b	c	d	p
BTLH0016082G5S3A10	1.6±0.1	0.8±0.1	0.65Max	0.25±0.1	0.4±0.1	0.55±0.1	0.6±0.1	0.23±0.05
BTLH0016085G5S1A10	1.6±0.1	0.8±0.1	0.6±0.1	0.6±0.1	0.2±0.05	0.7±0.15	0.15±0.1	-

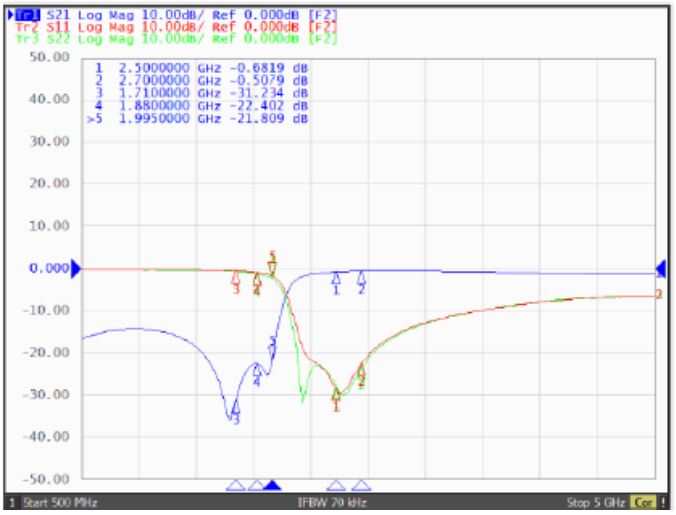
Electrical Characteristics

Part Number	Pass Band (MHz)	Insertion Loss (dB)Max	Return Loss (dB)Min	Attenuation	Application
BTLH0016082G5S3A10	2496~2690	0.7	20	22dB Min.@ 1710~1880 MHz 21dB Min.@ 1880~1995 MHz	LTE/WLAN
BTLH0016085G5S1A10	4900~5850	0.6	10	25dB Min.@ 2400~2500 MHz	WLAN

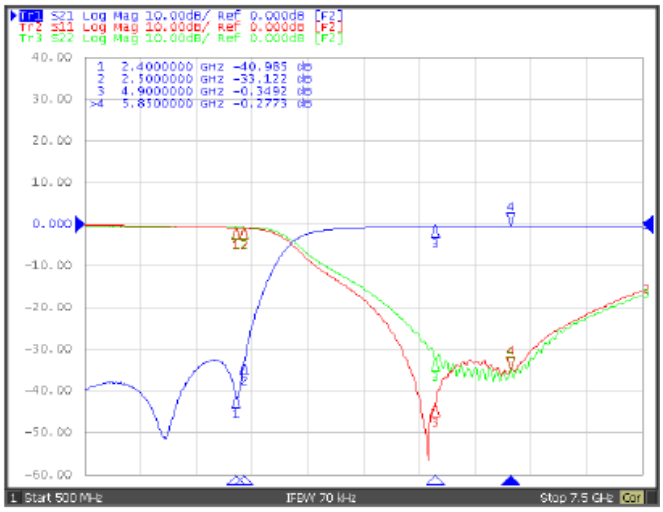
- Operating temperature range －40℃～85℃

Test Instruments：Agilent E5071C Network Analyzer

BTLH0016082G5S3A10



BTLH0016085G5S1A10



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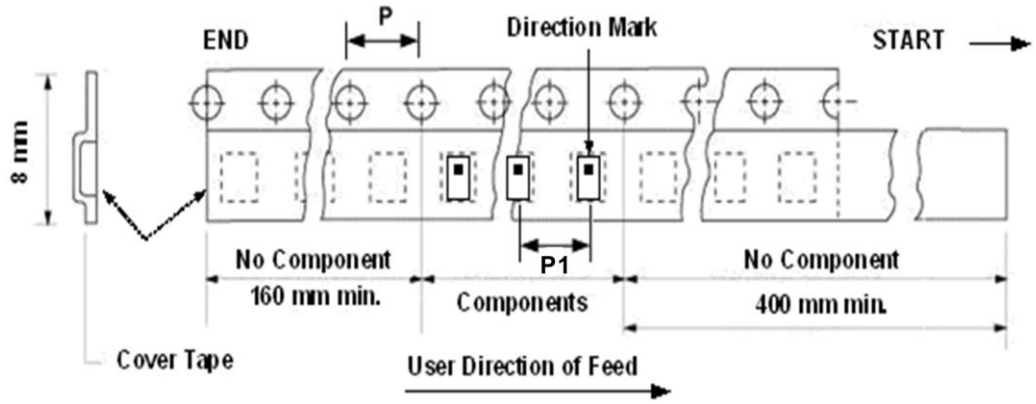
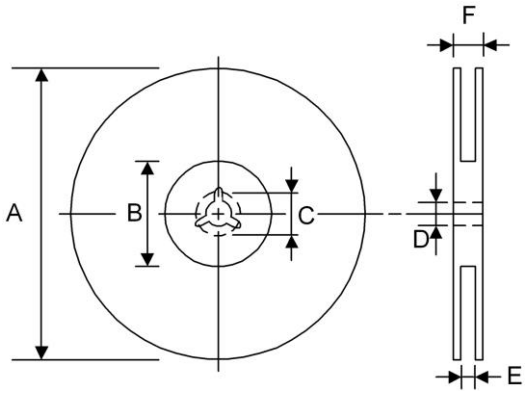
Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions		Reel Dimensions						Quantity
	P	P1	A	B	C	D	E	F	PCS / REEL
BTLH001608	4	4	178	60	-	13	9	12	4000

BTDC Series

Chilisin offer multilayer devices of Low-Temperature Cofired Ceramics (LTCC) for applications in wireless communication as WLAN, Bluetooth etc. Our commitment is to meet your goals through extensive technological innovation, excellent quality, short lead time and high volume production capability.

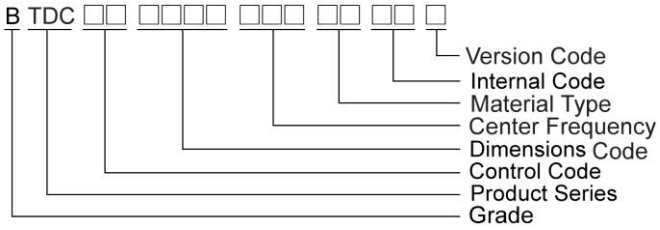
Features

- RoHS, Halogen Free and REACH Compliance
- Miniaturized.
- Low insertion loss
- Eliminate noise over a wide frequency range. Idea for high frequency and space limited designs.

Applications

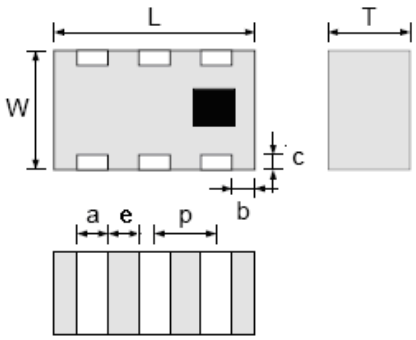
- WLAN ,Home RF, Bluetooth Module, etc.

Product Identification

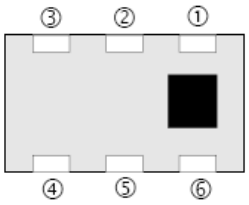


Shapes and Dimensions

BTDC00160812GS1A10



Terminal Configuration



① IN ② GND ③ Coupled Out
④ Terminate ⑤ GND ⑥ Main Out

Dimension in mm

TYPE	L	W	T	a	b	c	e	p
BTDC00160812GS1A10	1.6±0.1	0.8±0.1	0.6±0.1	0.3±0.1	0.1±0.1	0.3±0.2	0.25±0.1	0.55±0.05

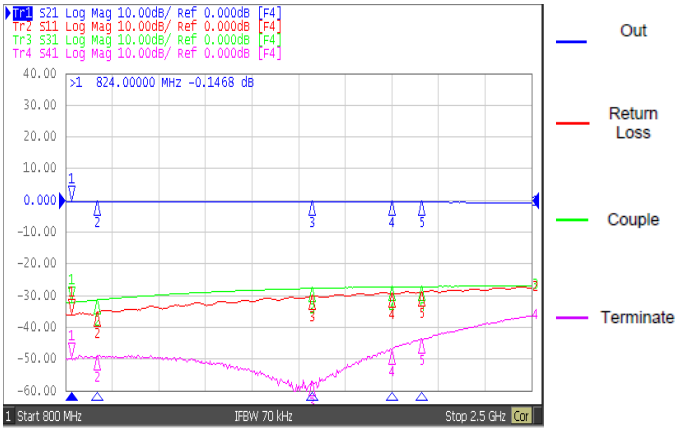
Electrical Characteristics

Part Number	Pass Band (MHz)	Insertion Loss (dB)Max	Return Loss (dB)Min	Coupling (dB)	Isolation (dB)Min	Application
BTDC00160812GS1A10	1710~2100	0.35	10	27±1	40	LTE
	824~915	0.30	10	32±1	45	

- Operating temperature range －40℃～85℃

Test Instruments：Agilent E5071C Network Analyzer

BTDC00160812GS1A10



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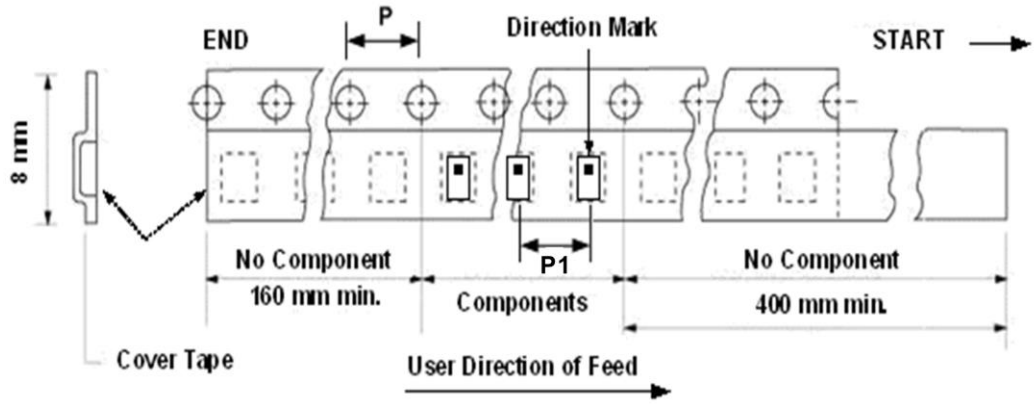
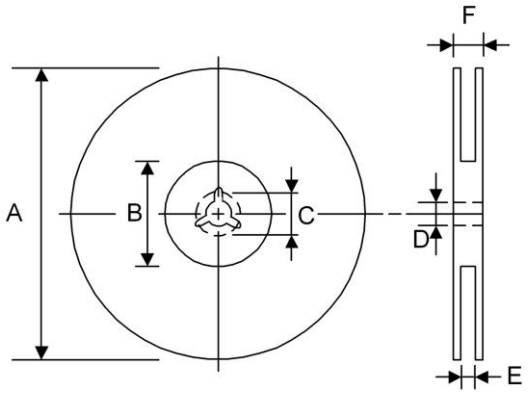
Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions		Reel Dimensions						Quantity
	P	P1	A	B	C	D	E	F	PCS / REEL
BTDC001608	4	4	178	60	-	13	9	12	4000

BTBF Series

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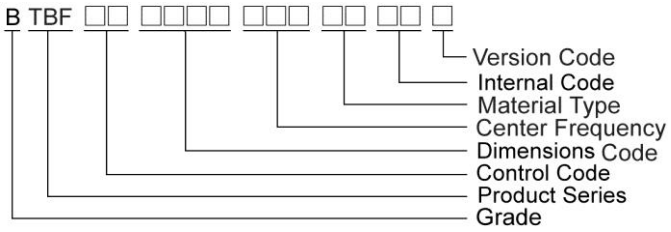
Features

- RoHS, Halogen Free and REACH Compliance
- Miniaturized.
- Low insertion loss, high attenuation.
- Eliminate noise over a wide frequency range. Idea for high frequency and space limited designs.

Applications

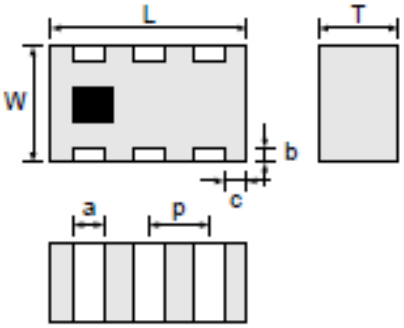
- WLAN ,Home RF, Bluetooth Module, WiMAX Modules, etc.

Product Identification

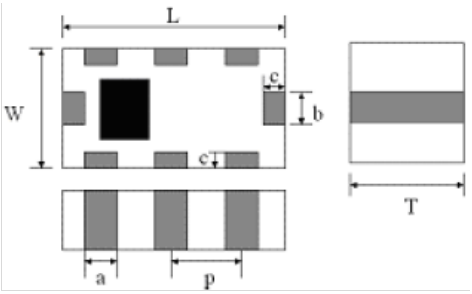


Shapes and Dimensions

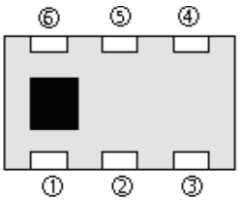
BTBF0016082G4S1A20



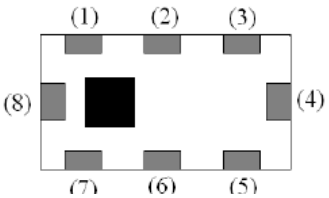
BTBF0020123G6H6A10



Terminal Configuration



① Unbalance Port ② GND ③ Balance Port1
③ Balance Port1 ⑤ GND ⑥ GND



① NC ② DC or NC Port ③ Un-Balance Port ④ GND
⑤ Balance Port1 ⑥ GND ⑦ Balance Port ⑧ GND

Dimension in mm

TYPE	L	W	T	a	b	c	p
BTBF0016082G4S1A20	1.6±0.1	0.8±0.1	0.65Max	0.3±0.1	0.2±0.1	0.15±0.1	0.55±0.05
BTBF0020123G6H6A10	2.0±0.2	1.25±0.2	1.0±0.1	$0.3^{+0.1}_{-0.15}$	$0.3^{+0.1}_{-0.15}$	0.2±0.15	0.65±0.15

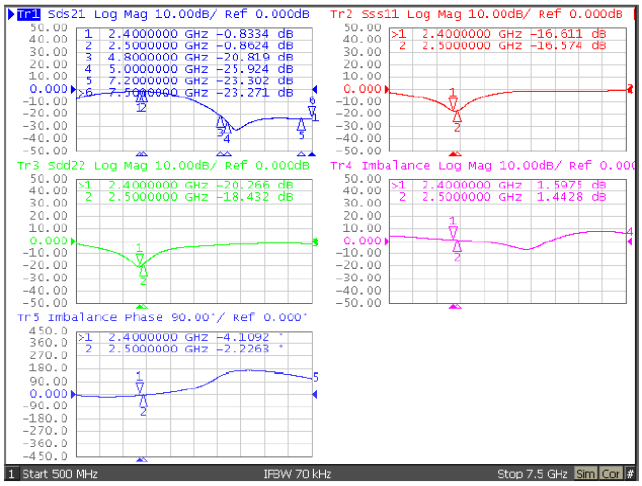
Electrical Characteristics

Part Number	Pass Band (MHz)	Impedance (Ω)	Insertion Loss (dB)Max	Return Loss (dB)Min	Ripple (dB)Max	Balance Port		Attenuation	Application
						Amplitude	Phase Difference		
BTBF0016082G4S1A20	2400~2500	50	1.75	10	1	2 dB Max	180±10°	19dB Min.@ 4800~5000 MHz 19dB Min.@ 7200~7500 MHz	WLAN/BT

- Operating temperature range －40℃～85℃

Test Instruments：Agilent E5071C Network Analyzer

BTBF0016082G4S1A20



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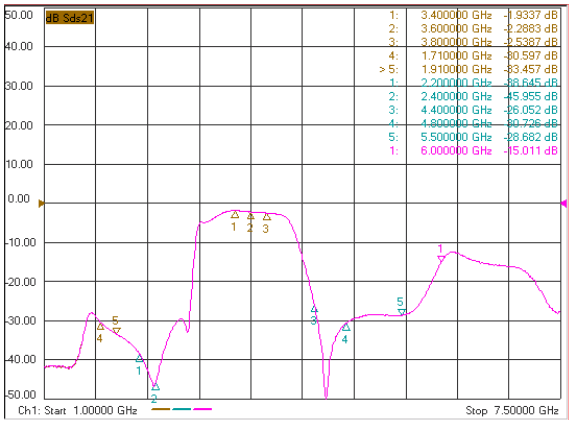
Electrical Characteristics

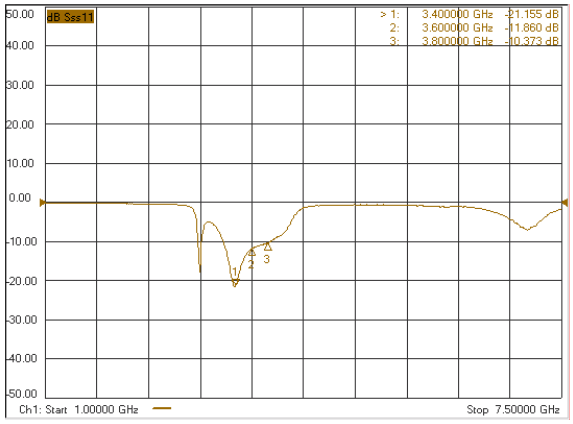
Part Number	Pass Band (MHz)	Insertion Loss (dB)Max	Return Loss (dB)Max	Ripple (dB)Max	Balance Port		Attenuation	Application
					Amplitude	Phase Difference		
BTBF0020123G6H6A10	3400~3800	3.2	7.36	1	2.5 dB Max	180±10°	30dB Min.@ 1710~1910 MHz 30dB Min.@ 2200~2400 MHz 20dB Min.@ 4400~4800 MHz 15dB Min.@ 5500~10 MHz	Wimax

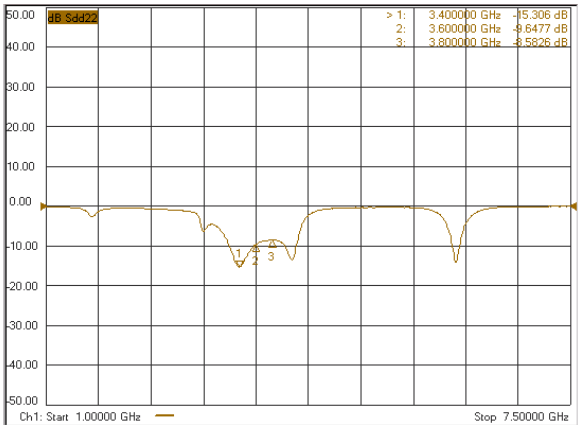
- Unbalance impedance：50 Ω
- Balance impedance：100 Ω
- Operating temperature range －40℃～85℃

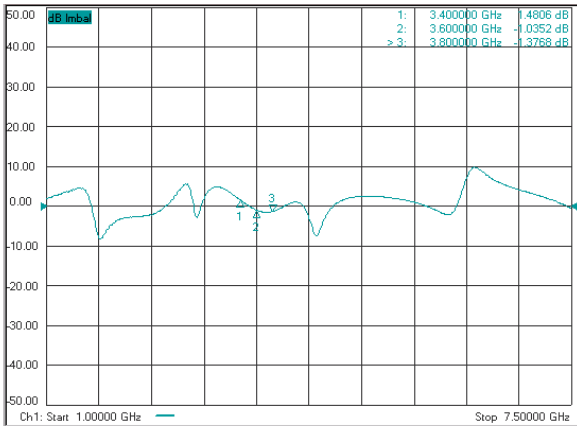
Test Instruments：Agilent E5071C Network Analyzer

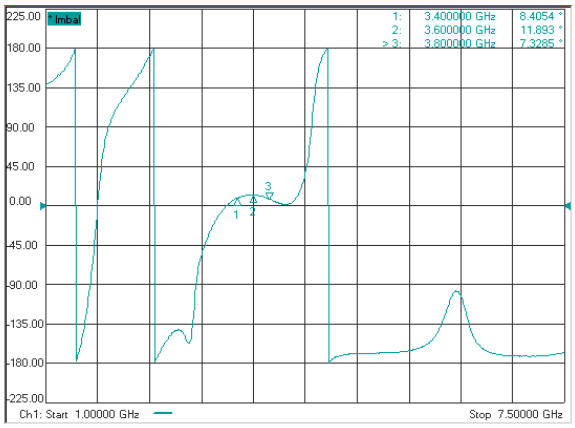
BTBF0020123G6H6A10











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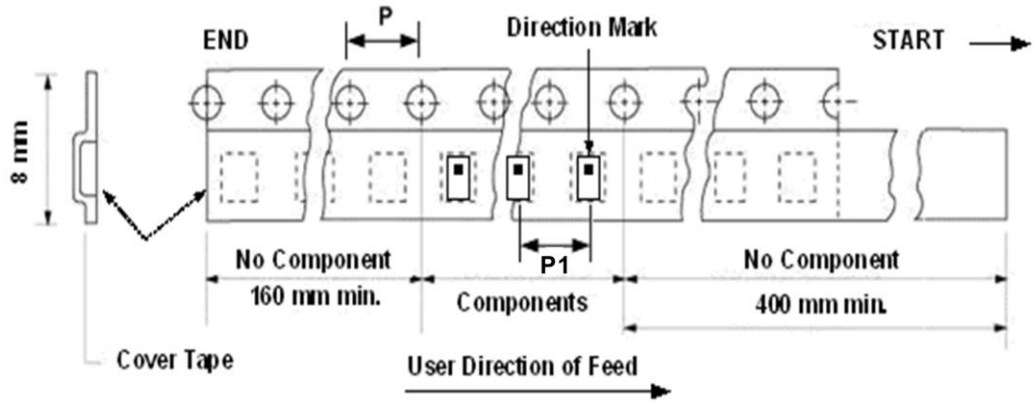
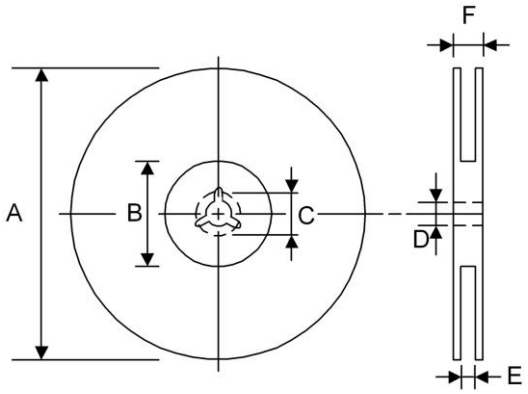
Packaging Specifications

Tape Dimensions



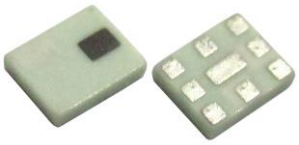
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions		Reel Dimensions						Quantity
	P	P1	A	B	C	D	E	F	PCS / REEL
BTBF001608	4	4	178	60	-	13	9	12	4000
BTBF002012	4	4	178	60	-	13	9	12	4000

BTLT Series



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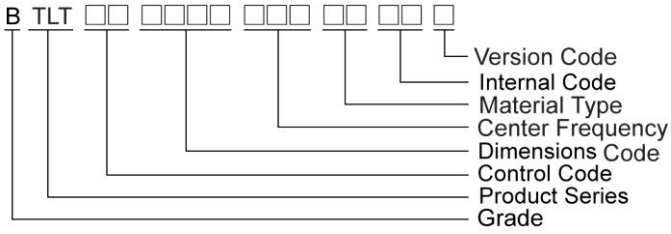
Features

- RoHS, Halogen Free and REACH Compliance
- Miniaturized.
- Low insertion loss, high attenuation.
- Eliminate noise over a wide frequency range. Idea for high frequency and space limited designs.

Applications

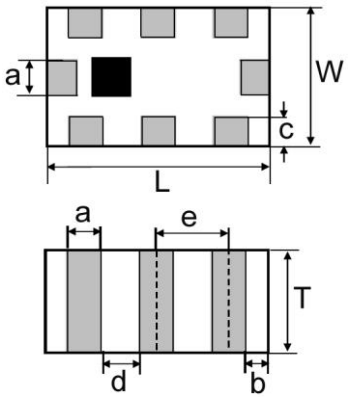
- WLAN ,Home RF, Bluetooth Module, WiMAX Modules, etc.

Product Identification

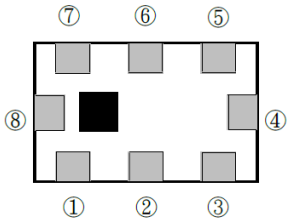


Shapes and Dimensions

FIG 1

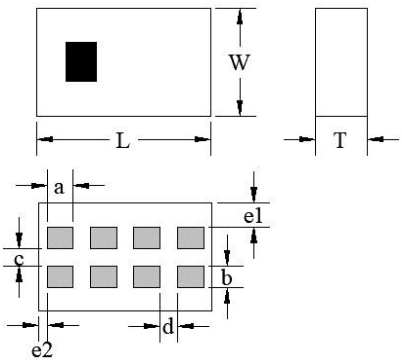


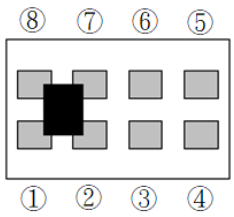
Terminal Configuration



Type	Port				GND
	High Freq.	Low Freq.	Common	Middle	
BTLT002012MKLJNA20	④	⑧	②	⑥	①③⑤⑦
BTLT002012MKLJMA20	⑥	④	②	⑧	①③⑤⑦

FIG 2

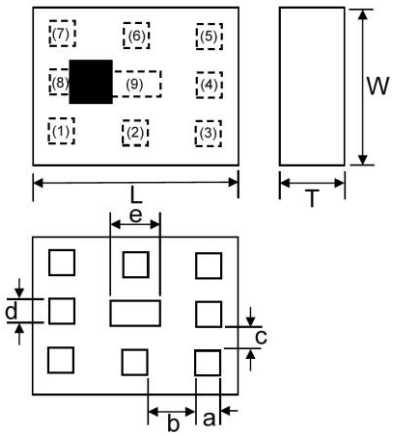




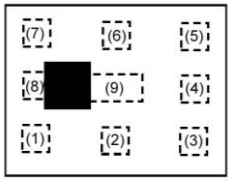
①③⑤⑦ GND ② Common ④ Low Band
⑧ High Band ⑤ Middle Band

Shapes and Dimensions

FIG 3



Terminal Configuration



Type	Port				GND
	High Freq.	Low Freq.	Common	Middle	
BTLT002520DHNKTA10	①	⑤	⑦	③	②④⑥⑧⑨
BTLT002520JNOKBA10	③	⑦	①	⑤	②④⑥⑧⑨
BTLT002520NOLKBA10	③	⑦	①	⑤	②④⑥⑧⑨

Dimension in mm

TYPE	FIG	L	W	T	a	b	c	d	e
BTLT002012MKLJNA20	1	2±0.1	1.25±0.1	0.95±0.1	0.3±0.1	0.2±0.1	$0.3^{+0.1}_{-0.2}$	0.35±0.1	0.65±0.05
BTLT002012MKLJMA10	1	2±0.1	1.25±0.1	0.95±0.1	0.3±0.1	0.2±0.1	$0.3^{+0.1}_{-0.2}$	0.35±0.1	0.65±0.05
BTLT002520DHNKTA10	3	2.5±0.15	2±0.15	0.65Max	0.4±0.1	0.55±0.1	0.3±0.1	0.4±0.1	0.9±0.15
BTLT002520JNOKBA10	3	2.5±0.15	2±0.15	0.65Max	0.4±0.1	0.55±0.1	0.3±0.1	0.4±0.1	0.9±0.15
BTLT002520NOLKBA10	3	2.5±0.15	2±0.15	0.65Max	0.4±0.1	0.55±0.1	0.3±0.1	0.4±0.1	0.9±0.15

TYPE	FIG	L	W	T	a	b	c	d	e1	e2
BTLT002012MKLJSA10	2	2±0.15	1.25±0.15	0.8Max	0.3±0.1	0.25±0.1	0.2±0.1	0.2±0.1	0.275±0.1	0.1±0.1

Electrical Characteristics

Part Number	Pass Band (MHz)	Insertion Loss (dB)			Return Loss (dB)Min	Attenuation	Application
		Typ.	Max 25℃	Max -40~85℃			
BTLT002012MKLJNA20	1560~1606	-	0.9	-	10	15dB Min.@ 2400~2500 MHz 20dB Min.@ 4900~5950 MHz	GSM/ LTE WCDMA
	2400~2500	-	1.1	-	10	25dB Min.@ 1560~1606 MHz 20dB Min.@ 4900~5950 MHz	
	4900~5950	-	1	-	10	20dB Min.@ 1560~1606 MHz 25dB Min.@ 2400~2500 MHz 15dB Min.@ 9800~11900 MHz	
BTLT002012MKLJMA10	1560~1610	0.53	0.6	0.7	10	14dB Min./ 23dB Typ.@ 2400~2500 MHz 15dB Min./ 18.2dB Typ.@ 4800~6000 MHz	GSM/ LTE WCDMA
	2400~2500	0.56	0.73	0.81	10	8dB Min./ 9.8dB Typ.@ 3600~3750 MHz 20dB Min./ 32.4dB Typ.@ 4800~5000 MHz 8dB Min./ 11.4dB Typ.@ 7200~7500 MHz 10dB Min./ 16.4dB Typ.@ 9600~10000 MHz	
	4900~5950	0.66	0.8	0.92	10	24dB Min./ 26.5dB Typ.@ 860~960 MHz 24dB Min./ 30.9dB Typ.@ 1545~1605 MHz 25dB Min./ 33.9dB Typ.@ 1710~1990 MHz 30dB Min./ 37dB Typ.@ 2170 MHz 7dB Min./ 11.9dB Typ.@ 8100~8800 MHz 15dB Min./ 20.2dB Typ.@ 8820~9800 MHz 17dB Min./ 20dB Typ.@ 9800~11800 MHz	
BTLT002012MKLJSA10	1560~1606	1.22	TBD	-	10	TBDdB Min./ 29.1dB Typ.@ 2400~2500 MHz TBDdB Min./ 36.3dB Typ.@ 4900~5950 MHz	GPS/ BT/ WiFi
	2400~2500	0.89	TBD	-		TBDdB Min./ 16.3dB Typ.@ 1560~1606 MHz TBDdB Min./ 27.4dB Typ.@ 4800~5000 MHz TBDdB Min./ 30.7dB Typ.@ 7200~7500 MHz	
	4900~5950	0.52	TBD	-		TBDdB Min./ 43.8dB Typ.@ 1560~1606 MHz TBDdB Min./ 32.8dB Typ.@ 2400~2500 MHz TBDdB Min./ 21.7dB Typ.@ 10300~11700 MHz TBDdB Min./ 12.8dB Typ.@ 15300~16200 MHz	

- Operating temperature range －40℃～85℃

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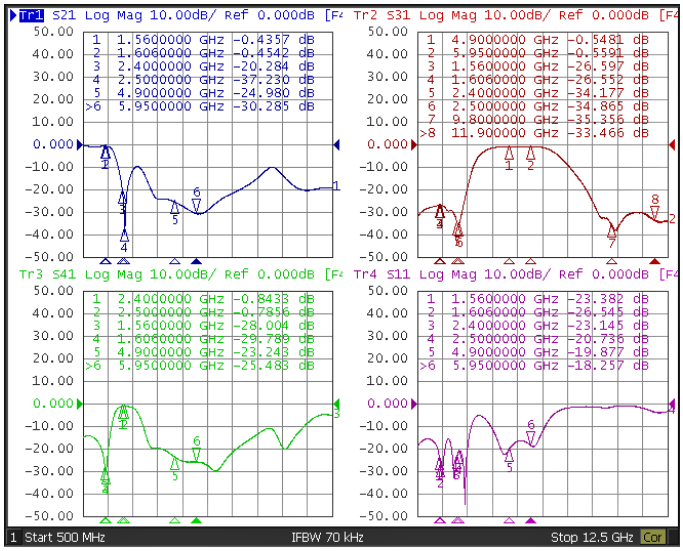
CHILISIN ELECTRONICS CORP.

Test Instruments：Agilent E5071 Network Analyzer

BTLT002012MKLJNA20



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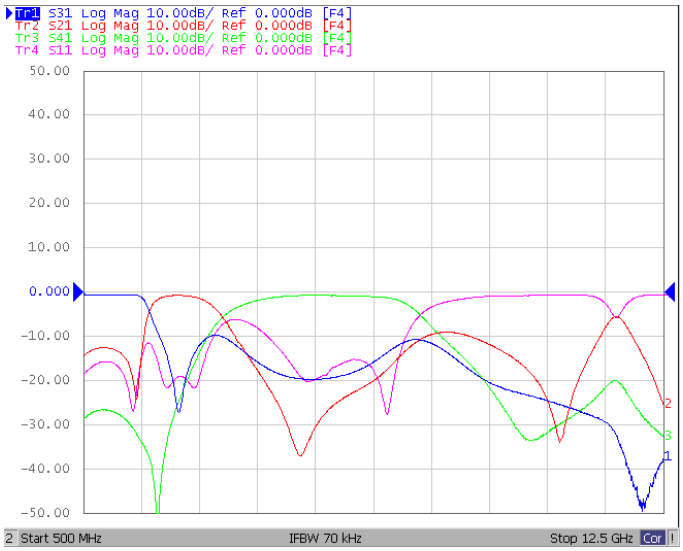

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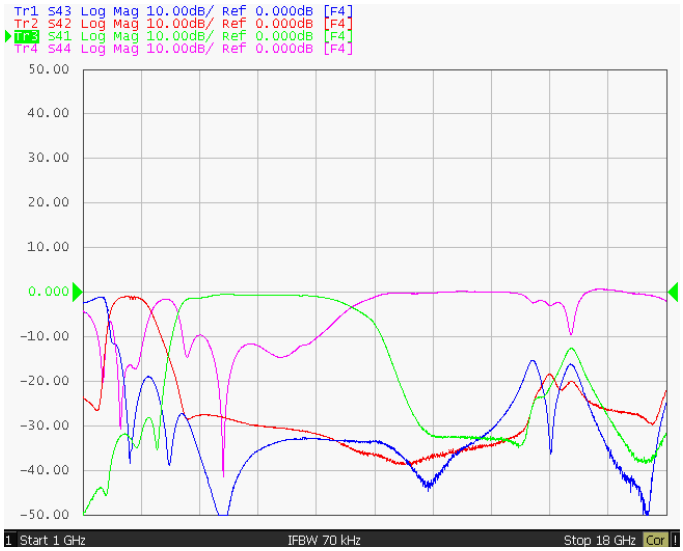

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Electrical Characteristics

Part Number	Pass Band (MHz)	Insertion Loss (dB)		Return Loss (dB)Min	Attenuation	Application
		Typ	Max			
BTLT002520DHNKTA10	500~798	0.45	0.65	10(18Typ)	12dB Min./ 14dB Typ.@ 1427~2690 MHz 22dB Min./ 24dB Typ.@ 1575~1610 MHz 40dB Min./ 46dB Typ.@ 3300~3400 MHz 40dB Min./ 48dB Typ.@ 3400~3800 MHz 40dB Min./ 50dB Typ.@ 3800~4200 MHz 40dB Min./ 46dB Typ.@ 4400~5000 MHz 35dB Min./ 41dB Typ.@ 5150~5925 MHz	LTE/ NR
	815~894	0.55	0.7			
	880~915	0.59	0.75			
	915~960	0.71	0.95			
	1427~1511	1.15	1.45	10(13Typ)	18dB Min./ 20dB Typ.@ 500~960 MHz 20dB Min./ 23dB Typ.@ 3300~3400 MHz 23dB Min./ 25dB Typ.@ 3400~3800 MHz 30dB Min./ 33dB Typ.@ 3800~4200 MHz 30dB Min./ 33dB Typ.@ 4500~5000 MHz 27dB Min./ 30dB Typ.@ 5150~5925 MHz	
	1710~1880	0.67	1			
	1880~1920	0.6	0.95			
	1930~2200	0.59	0.95			
	2300~2400	0.71	1			
	2496~2690	1.12	1.45			
	3300~3400	0.73	0.95	10(15Typ)	19dB Min./ 21dB Typ.@ 500~960 MHz 15dB Min./ 17dB Typ.@ 1427~2690 MHz 19dB Min./ 22dB Typ.@ 10300~11850 MHz	
	3400~3600	0.61	0.85			
	3600~3800	0.53	0.8			
	3800~4200	0.52	0.7			
	4400~5000	0.49	0.7			
	5150~5925	0.67	0.85			
BTLT002520JNOKBA10	617~1990	0.53	0.8	10(14.1Typ)	15dB Min./ 17.2dB Typ.@ 3300~3700 MHz 15dB Min./ 17dB Typ.@ 3700~3800 MHz 15dB Min./ 17dB Typ.@ 3800~4200 MHz 25dB Min./ 35.1dB Typ.@ 4400~5000 MHz 25dB Min./ 42.8dB Typ.@ 5150~5925 MHz 10dB Min./ 18dB Typ.@ 5925~12750 MHz	LTE/ NR
	2300~2496	0.68	0.9			
	2496~2690	1.1	1.35			
	4400~5000	0.91	1.35	10(14Typ)	16dB Min./ 18.1dB Typ.@ 617~2690 MHz 14dB Min./ 16dB Typ.@ 2170~3150 MHz 14dB Min./ 16.9dB Typ.@ 3300~3600 MHz 17dB Min./ 21.1dB Typ.@ 3600~3800 MHz 2.1dB Typ.@ 3800~4200 MHz 15dB Min./ 17.1dB Typ.@ 0.88~1 GHz 5dB Min./ 11.9dB Typ.@ 1.32~1.5 GHz	
BTLT002520NOLKBA10	3300~4100	1.85	TBD	10(14.3Typ)	TBDdB Min./ 17.2dB Typ.@ 4500~4600 MHz TBDdB Min./ 29.9dB Typ.@ 5150~7125 MHz	LTE/ NR
	4500~4600	2.09	TBD	10(21.1Typ)	TBDdB Min./ 15.1dB Typ.@ 3300~4100 MHz TBDdB Min./ 29.9dB Typ.@ 5150~7125 MHz	
	5150~7125	1.82	TBD	10(15.2Typ)	TBDdB Min./ 21dB Typ.@ 3300~4100 MHz TBDdB Min./ 22.7dB Typ.@ 4500~4600 MHz	

- Operating temperature range －40℃～85℃

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Pass Band (MHz)	Isolation (dB)					
		Low to Middle band		Middle to High band		Low to High band	
		Min	Typ	Min	Typ	Min	Typ
BTLT002520DHNKTA10	500~960	19	21	35	40	19	21
	1427~2690	10	13	15	18	30	32
	3300~5925	25	27	21	23	35	42
BTLT002520JNOKBA10	617~960	16	18.4	25	43.4	22	25.6
	1427~1606	-	-	25	38.9	18	21.3
	1695~1710	15	17	-	-	18	20.8
	1710~2200	15	17	25	28	16	18.4
	2300~2690	14	15.3				
	3300~3600	-	-	16	18.2	-	-
	3600~3800	-	-	16	24.3	-	-
	3300~3800	14	16.6	-	-	22	41.5
	4400~5000	-	-	15	16.8	28	31.6
	5150~5925	18	22.1	-	-	30	45.2
BTLT002520NOLKBA10	3300~4100	TBD	16.6	TBD	18.3	TBD	24.1
	4500~4600	TBD	20.2	TBD	26	TBD	39.6
	5150~7125	TBD	14.1	TBD	17.4	TBD	34

- Operating temperature range －40℃～85℃

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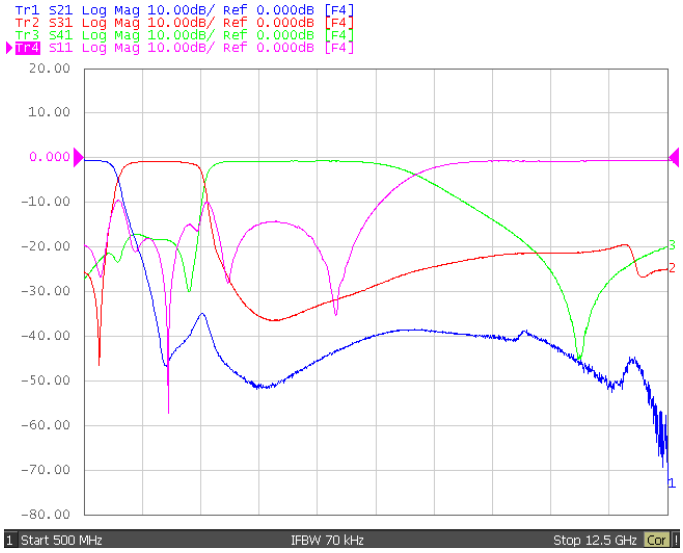
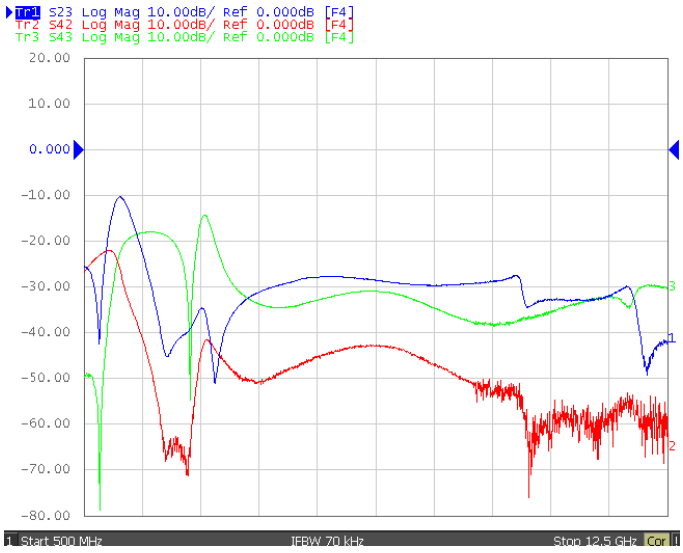
CHILISIN ELECTRONICS CORP.

Test Instruments：Agilent E5071 Network Analyzer

BTLT002520DHNKTA10





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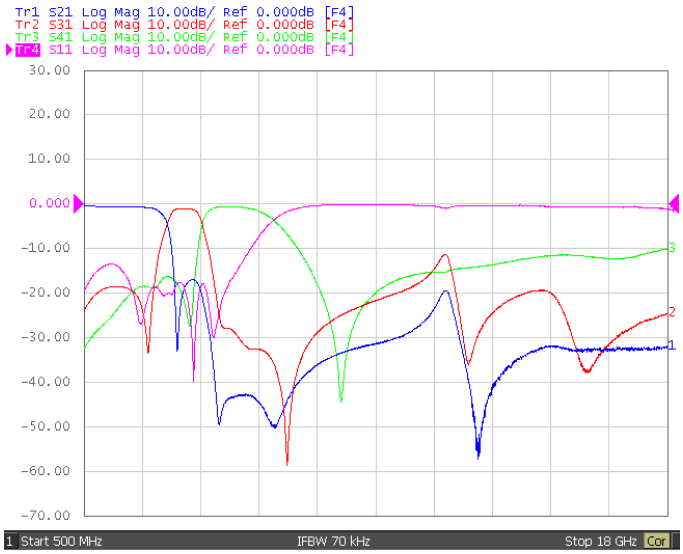

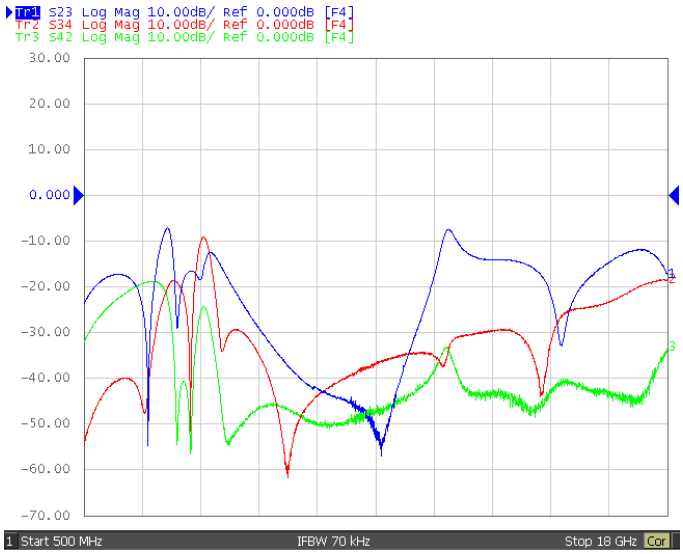

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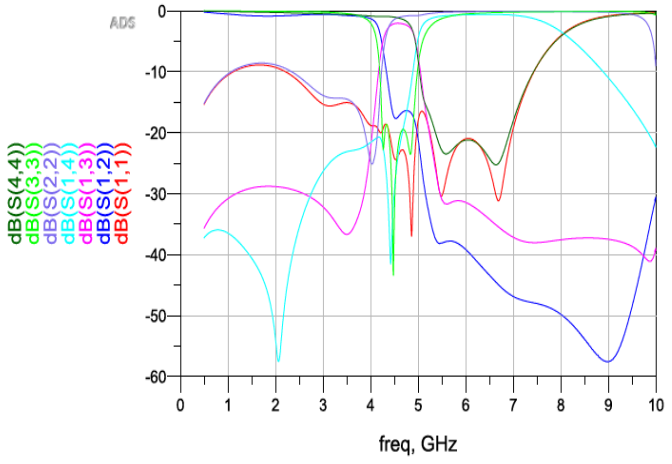

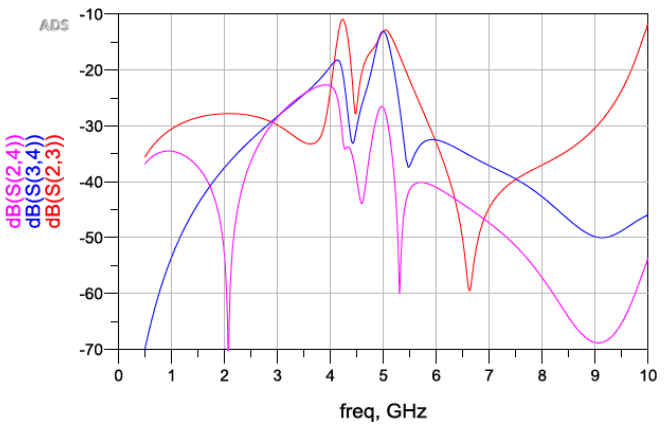

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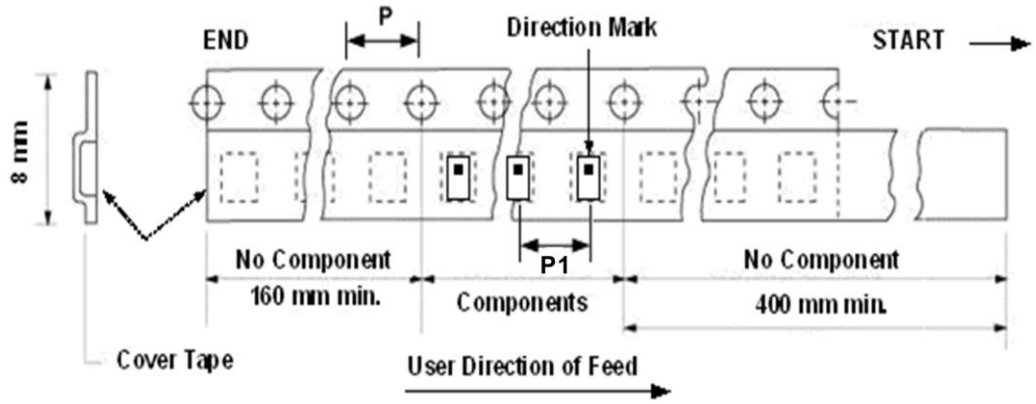
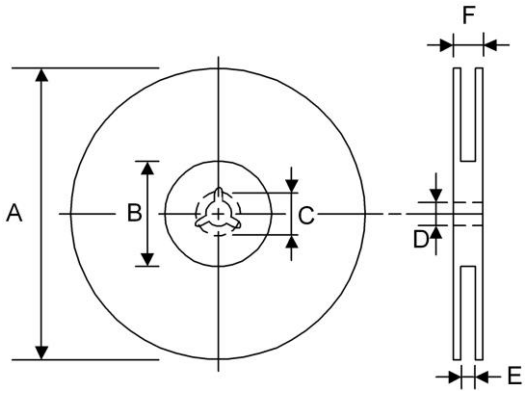
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions		Reel Dimensions						Quantity
	P	P1	A	B	C	D	E	F	PCS / REEL
BTLT002012	4	4	178	60	-	13	9	12	4000
BTLT002520	4	4	178	60	-	13	9	12	3000

BTLC Series

Chilisin offer multilayer devices of Low-Temperature Cofired Ceramics (LTCC) for applications in wireless communication as WLAN, Bluetooth etc. Our commitment is to meet your goals through extensive technological innovation, excellent quality, short lead time and high volume production capability.

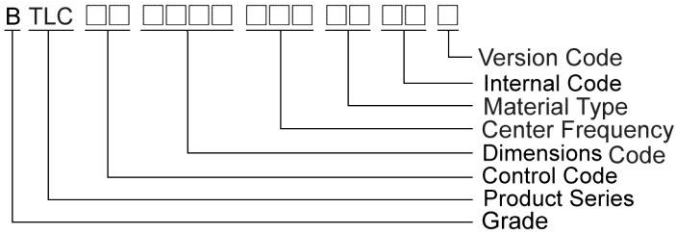
Features

- RoHS, Halogen Free and REACH Compliance
- Miniaturized.
- Low insertion loss
- Eliminate noise over a wide frequency range. Idea for high frequency and space limited designs.

Applications

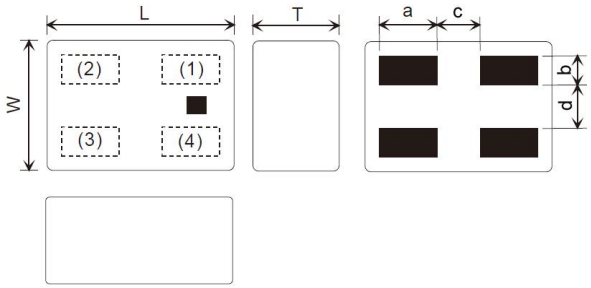
- Wideband coupler for LTE, mobile phone.
- WLAN ,Bluetooth ,Home RF

Product Identification

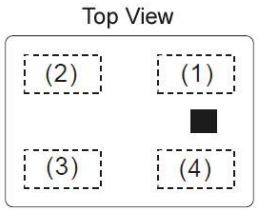


Shapes and Dimensions

BTLC00060525GS1A10

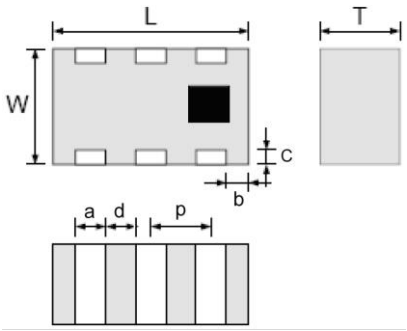


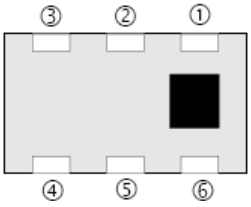
Terminal Configuration



① Coupled Out ② Terminate ③ Output ④ Input

BTLC00160812GS1A80





① Main Out ② GND ③ IN
④ Couple Out ⑤ GND ⑥ Terminate

Dimension in mm

TYPE	L	W	T	a	b	c	d	p
BTLC00060525GS1A10	0.65±0.05	0.5±0.05	0.25±0.05	0.2±0.05	0.1±0.05	0.2±0.05	0.25±0.05	-
BTLC00160812GS1A80	1.6±0.1	0.8±0.1	0.6±0.1	0.2±0.1	$0.2^{+0.1}_{-0.15}$	0.15±0.1	0.3±0.1	0.5±0.05

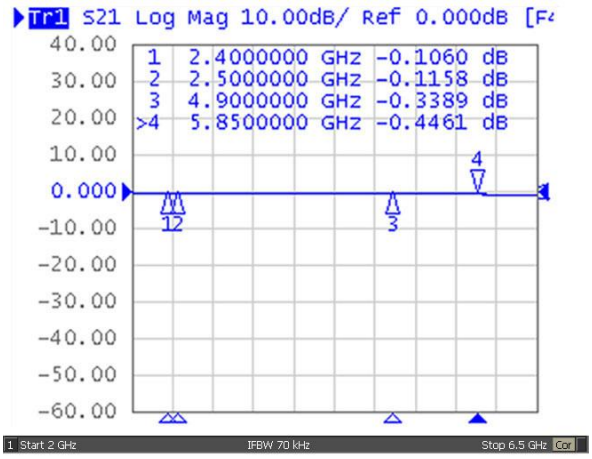
Electrical Characteristics

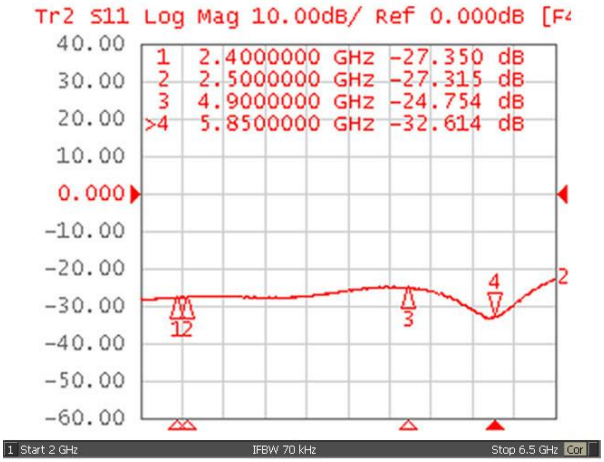
Part Number	Pass Band (MHz)	Insertion Loss (dB)Max	Return Loss (dB)Min	Coupling	Isolation (dB)Min	Application
BTLC00060525GS1A10	2400~2500 4900~5850	0.25 0.55	17.69	19.0±1.5dB @ 2400~2500 MHz 12.5±1.5dB @ 4900~5850 MHz	20	WLAN/BT

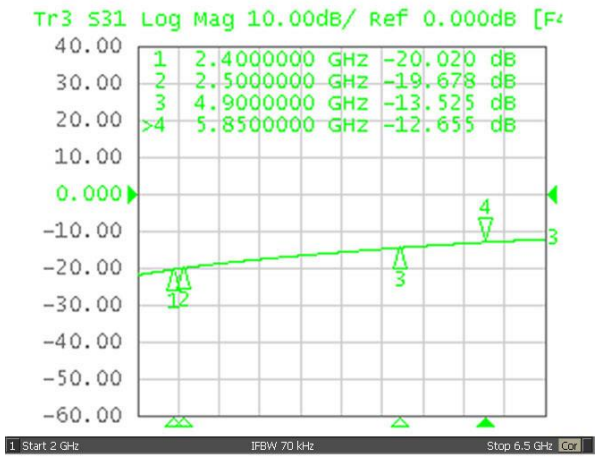
- Operating temperature range －40℃～85℃

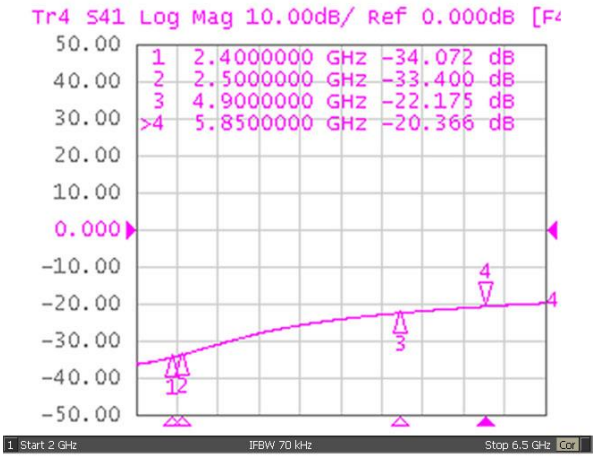
Test Instruments：Agilent E5071 Network Analyzer

BTLC00060525GS1A10









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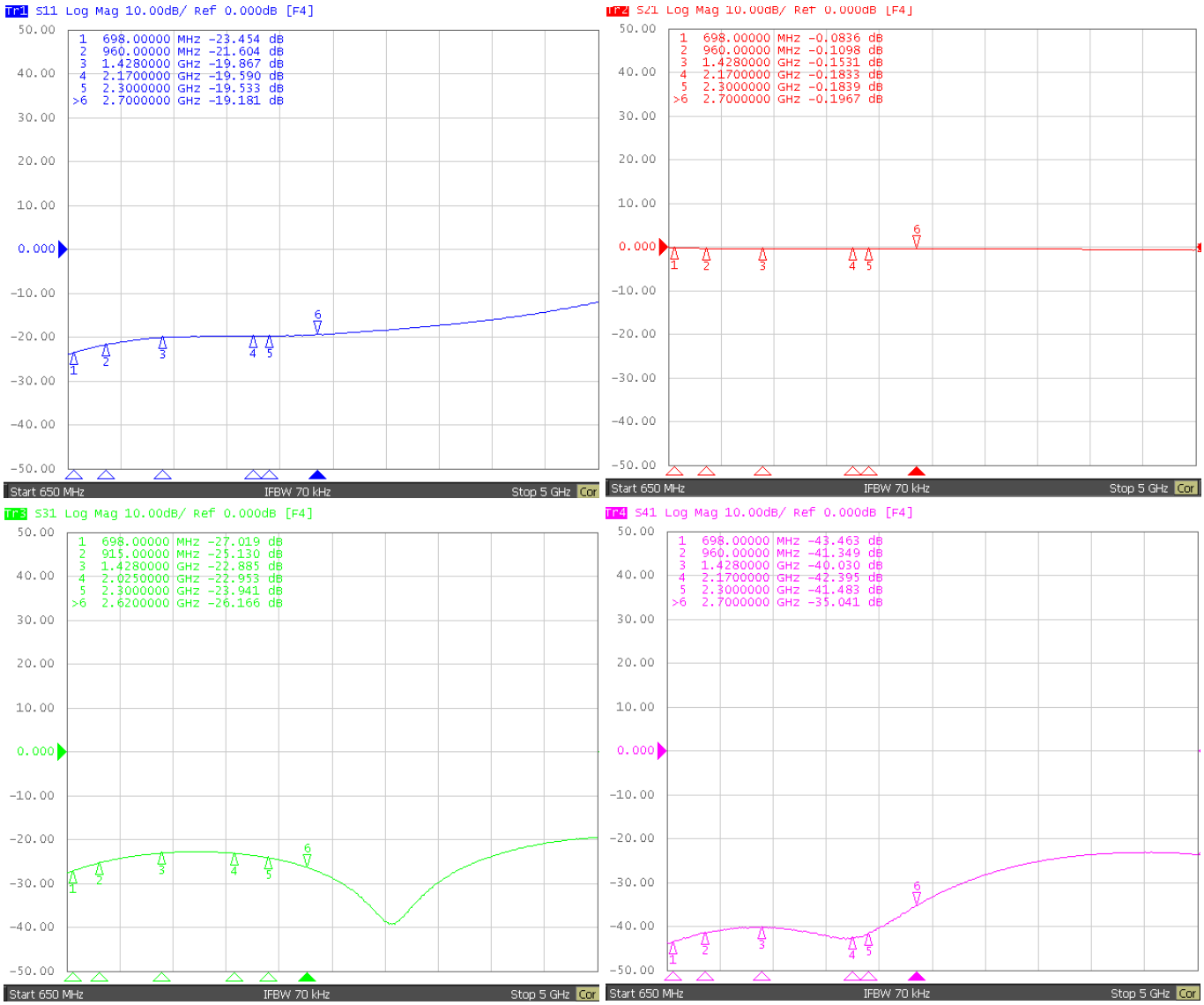
Electrical Characteristics

Part Number	Pass Band (MHz)	Insertion Loss (dB)Max	Return Loss (dB)Min	Coupling	Isolation (dB)Min	Application
BTLC00160812GS1A80	698~960 1428~2170 2300~2700	0.15 0.25 0.25	13.98	26.8±1dB @ 698 MHz 24.9±1dB @ 915 MHz 22.4±1dB @ 1428 MHz 22.0±1dB @ 2025 MHz 24.5±1dB @ 2300 MHz 26.8±1dB @ 2620 MHz	40 35 35	LTE

- Operating temperature range －40℃～85℃

Test Instruments：Agilent E5071 Network Analyzer

BTLC00160812GS1A80



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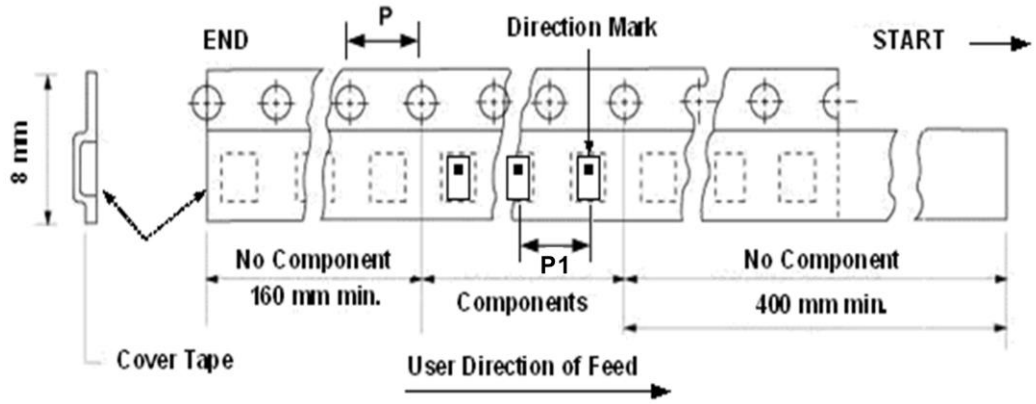
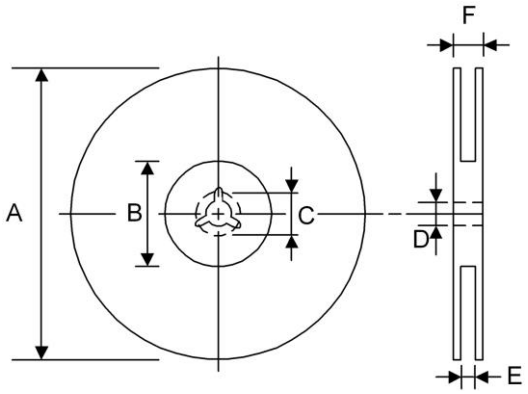
Packaging Specifications

Tape Dimensions



Reel Dimensions



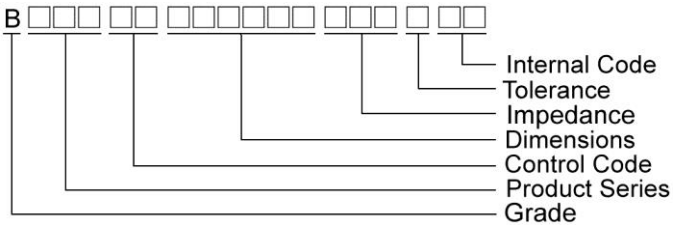
Dimensions in mm

TYPE	Tape Dimensions		Reel Dimensions						Quantity
	P	P1	A	B	C	D	E	F	PCS / REEL
BTLC000605	4	2	178	60	-	13	9	12	10000
BTLC001608	4	4	178	60	-	13	9	12	4000

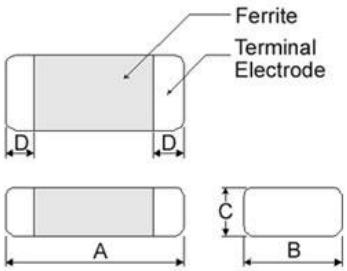
Multilayer Ferrite Chip Beads

Chilisin offers a wide range of multi-layered ferrite chip beads with various sizes, frequency characteristics, and impedance values for EMI solutions. These ferrite formulas are used to compose seven types of EMI suppression chip beads: BBSY, BBBK, BBSJ, BBGK, BBPY, BBUP, BBNQ, BBFY, BBFJ and BBHV series.

Product Identification



Shape and Dimensions

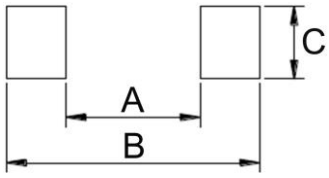


Dimensions in mm

TYPE	A	B	C	D
①060303	0.6±0.03	0.30±0.03	0.3±0.03	0.15±0.05
②100505	1.0±0.10	0.50±0.10	0.5±0.10	0.25±0.10
③160805	1.6±0.15	0.80±0.15	0.5±0.15	0.3±0.2
④160808	1.6±0.15	0.80±0.15	0.8±0.15	0.3±0.2
⑤201209	2.0±0.20	1.25±0.20	0.9±0.20	0.5±0.3
⑥321611	3.2±0.20	1.60±0.20	1.1±0.20	0.5±0.3
⑦453215	4.5±0.25	3.20±0.20	1.5±0.20	0.5±0.3

① : BBSY / BBSJ / BBNQ / BBPY
② : BBSY / BBSJ / BBNQ / BBPY / BBUP / BBFY / BBFJ
③ : BBUP ④ : BBBK / BBSJ / BBGK / BBPY / BBNQ / BBUP / BBHV
⑤ : BBBK / BBGK / BBPY / BBUP ⑥ : BBSY / BBBK / BBPY / BBUP
⑦ : BBPY / BBUP

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
①060303	0.2 ~ 0.3	0.75 ~ 1.05	0.3
②100505	0.4	1.2 ~ 1.4	0.5
③160805	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
④160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
⑤201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.4
⑥321611	2.0 ~ 2.4	4.2 ~ 5.2	1.3 ~ 1.9
⑦453215	3.0	5.5 ~ 6.5	2.4

∗ Don't apply narrower pattern than listed above to BBPY and BBUP
Narrow pattern might cause excessive heat or open circuit.

Dimension Conversion

Code	Dimension in mm (AxBxC)	EIA
060303	0.6X0.3X0.3	0201
100505	1.0X0.5X0.5	0402
160805	1.6x0.8x0.5	0603
160808	1.6x0.8x0.8	0603
201209	2.0x1.2x0.9	0805
321611	3.2x1.6x.1.1	1206
453215	4.5x3.2x1.5	1812

Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	RDC (Ω) Max	Rated current (mA) Max
BBSY00060303100Y00	10	100	0.1	500
BBSY00060303600Y00	60	100	0.4	200
BBSY00060303121Y00	120	100	0.5	200
BBSY00060303241Y00	240	100	0.8	200

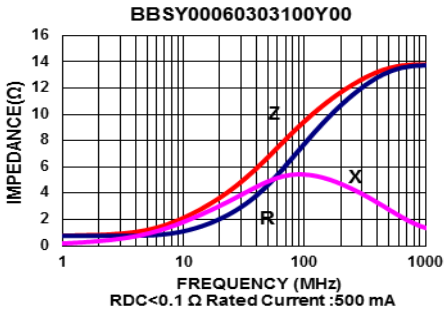
Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

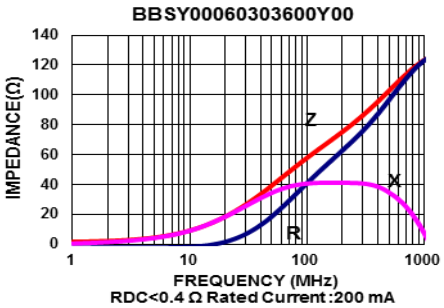
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

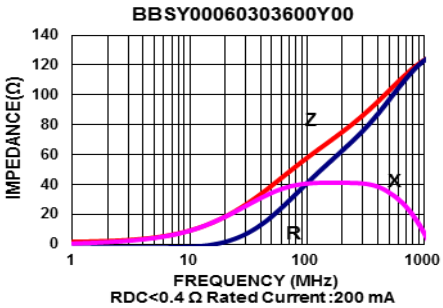
  Z：HP4291A

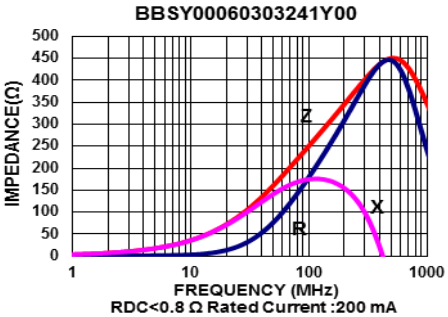
  RDC：HP4338B or CHEN HWA 502

Test Instruments：Agilent E4991A Impedance / Material Analyzer









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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	RDC (Ω) Max	Rated current (mA) Max
BBSY00100505100Y00	10	100	0.025	1000
BBSY00100505110Y00	11	100	0.05	500
BBSY00100505150Y00	15	100	0.10	500
BBSY00100505190Y00	19	100	0.10	500
BBSY00100505220Y00	22	100	0.15	500
BBSY00100505300Y00	30	100	0.20	500
BBSY00100505320Y00	32	100	0.20	500
BBSY00100505330Y00	33	100	0.20	500
BBSY00100505400Y00	40	100	0.20	500
BBSY00100505470Y00	47	100	0.20	500
BBSY00100505500Y00	50	100	0.20	500
BBSY00100505600Y00	60	100	0.20	500
BBSY00100505700Y00	70	100	0.15	600
BBSY00100505750Y00	75	100	0.20	500
BBSY00100505800Y00	80	100	0.20	500
BBSY00100505900Y00	90	100	0.25	500
BBSY00100505101Y00	100	100	0.25	500
BBSY00100505121Y00	120	100	0.19	550
BBSY00100505151Y00	150	100	0.40	400
BBSY00100505181Y00	180	100	0.40	400
BBSY00100505221Y00	220	100	0.29	450
BBSY00100505241Y00	240	100	0.40	400
BBSY00100505301Y00	300	100	0.50	300
BBSY00100505331Y00	330	100	0.50	300
BBSY00100505471Y00	470	100	0.50	300
BBSY00100505481Y00	480	100	0.50	300
BBSY00100505601Y00	600	100	0.52	300
BBSY00100505102Y00	1000	100	0.65	300
BBSY00100505182Y00	1800	100	1.40	100
BBSY00100505222Y00	2200	100	1.40	100

Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

  Z：HP4291A

  RDC：HP4338B or CHEN HWA 502

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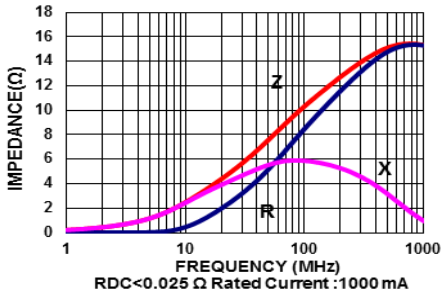
CHILISIN ELECTRONICS CORP.

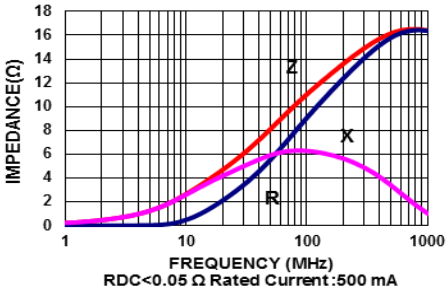
Test Instruments：Agilent E4991A Impedance / Material Analyzer

BBSY00100505100Y00



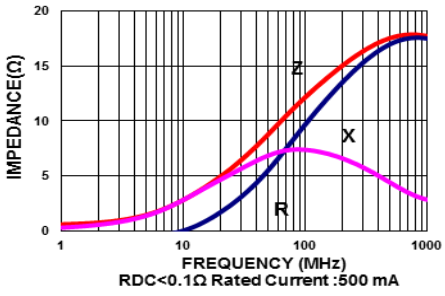
RDC<0.025 Ω Rated Current :1000 mA

BBSY00100505110Y00



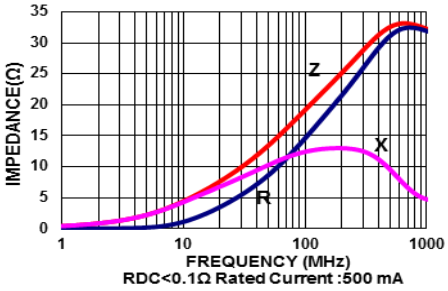
RDC<0.05 Ω Rated Current :500 mA

BBSY00100505150Y00



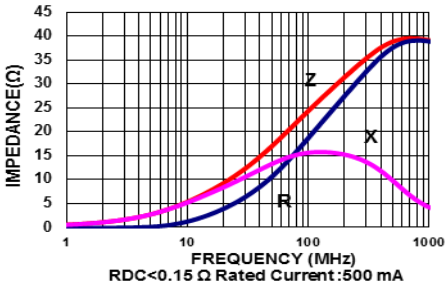
RDC<0.1Ω Rated Current :500 mA

BBSY00100505190Y00



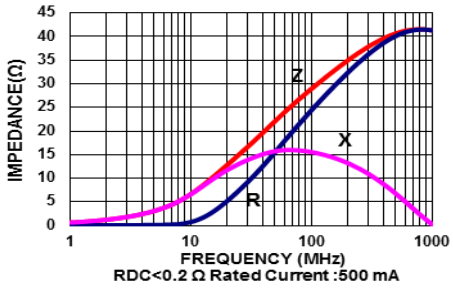
RDC<0.1Ω Rated Current :500 mA

BBSY00100505220Y00



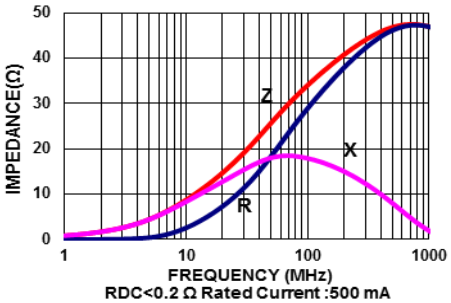
RDC<0.15 Ω Rated Current :500 mA

BBSY00100505300Y00



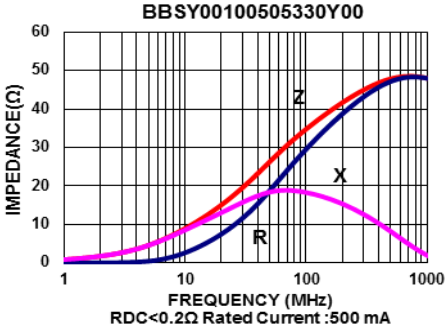
RDC<0.2 Ω Rated Current :500 mA

BBSY00100505320Y00



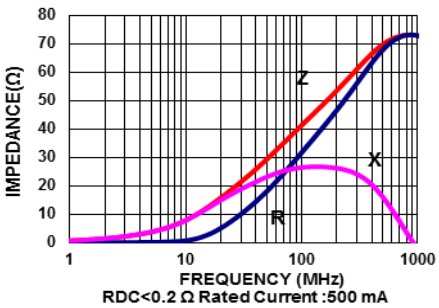
RDC<0.2 Ω Rated Current :500 mA

BBSY00100505330Y00



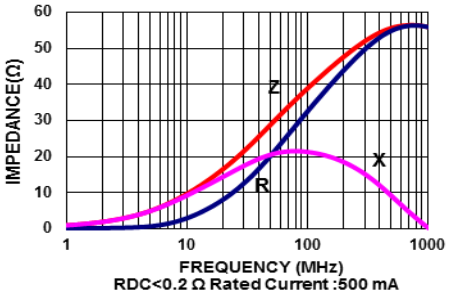
RDC<0.2Ω Rated Current :500 mA

BBSY00100505400Y00



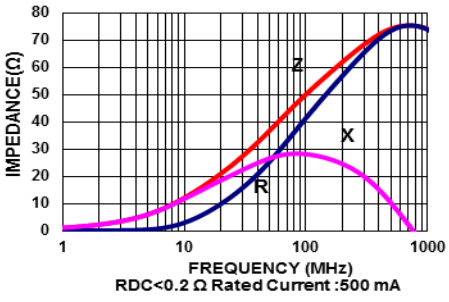
RDC<0.2 Ω Rated Current :500 mA

BBSY00100505470Y00



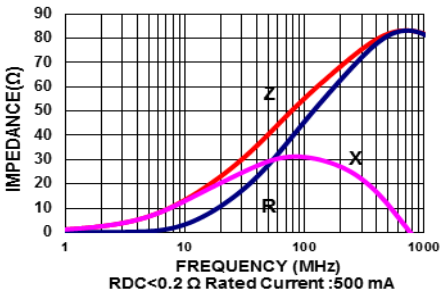
RDC<0.2 Ω Rated Current :500 mA

BBSY00100505500Y00



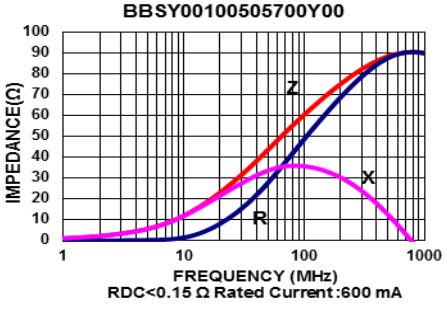
RDC<0.2 Ω Rated Current :500 mA

BBSY00100505600Y00



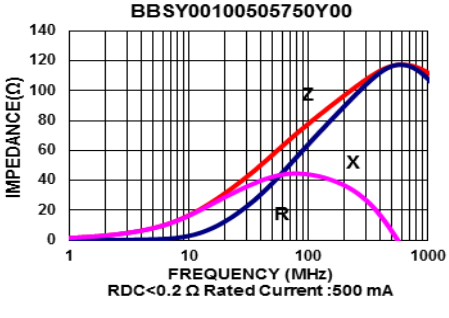
RDC<0.2 Ω Rated Current :500 mA

BBSY00100505700Y00



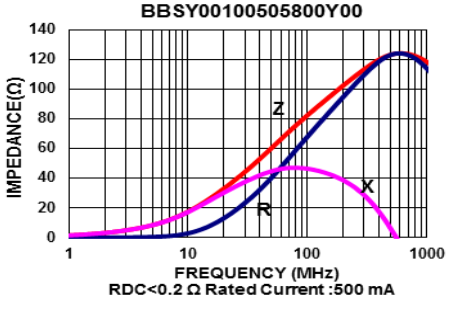
RDC<0.15 Ω Rated Current :600 mA

BBSY00100505750Y00



RDC<0.2 Ω Rated Current :500 mA

BBSY00100505800Y00



RDC<0.2 Ω Rated Current :500 mA

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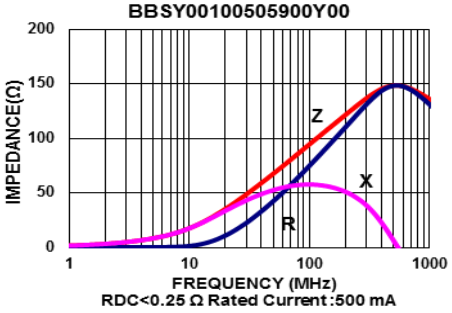
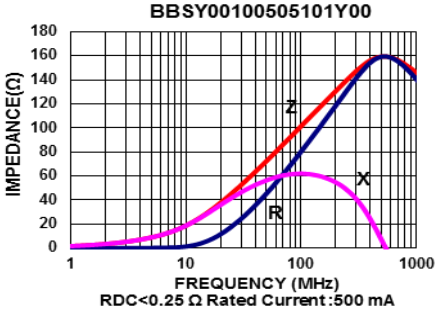
Test Instruments：Agilent E4991A Impedance / Material Analyzer

BBSY00100505900Y00



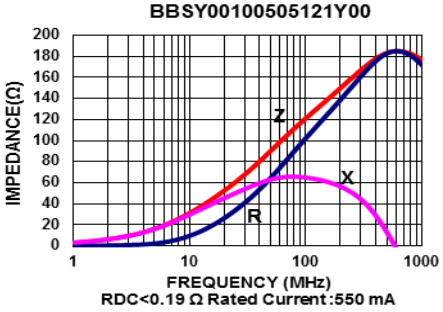
RDC<0.25 Ω Rated Current :500 mA

BBSY00100505101Y00



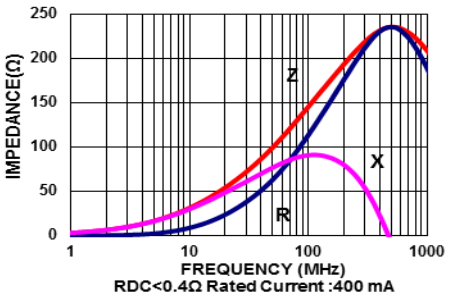
RDC<0.25 Ω Rated Current :500 mA

BBSY00100505121Y00



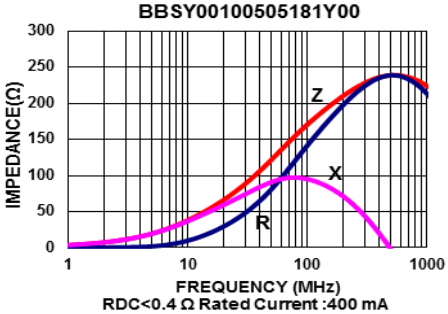
RDC<0.19 Ω Rated Current :550 mA

BBSY00100505151Y00



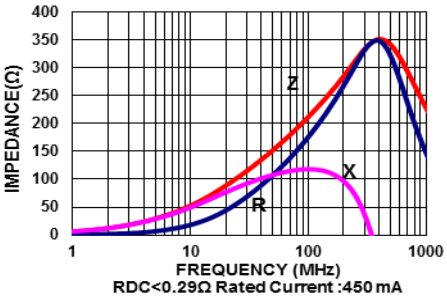
RDC<0.4Ω Rated Current :400 mA

BBSY00100505181Y00



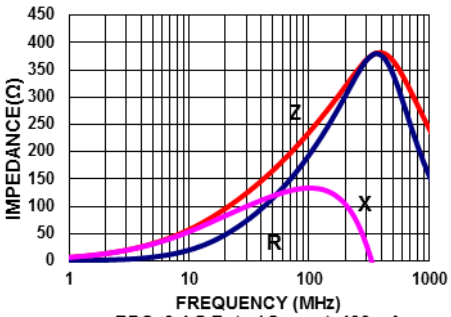
RDC<0.4 Ω Rated Current :400 mA

BBSY00100505221Y00



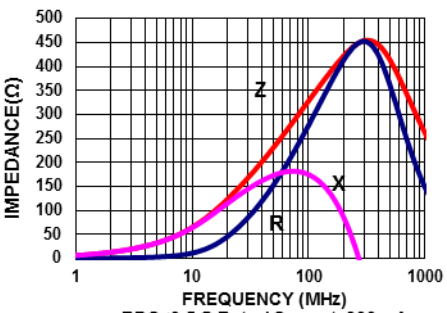
RDC<0.29Ω Rated Current :450 mA

BBSY00100505241Y00



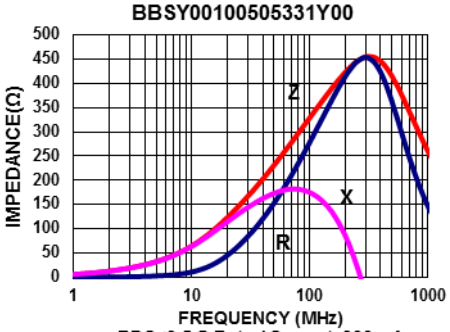
RDC<0.4 Ω Rated Current :400 mA

BBSY00100505301Y00



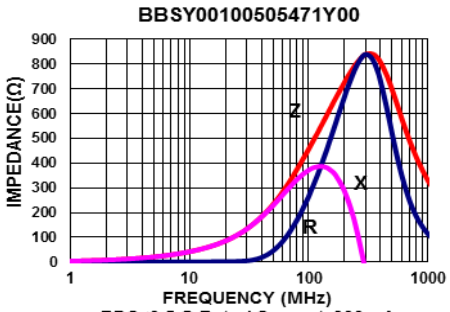
RDC<0.5 Ω Rated Current :300 mA

BBSY00100505331Y00



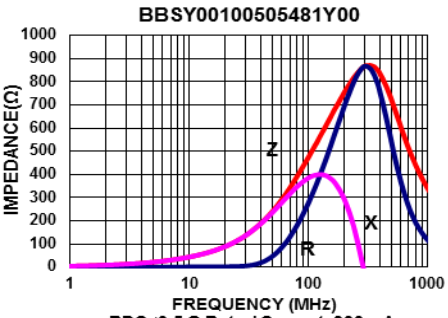
RDC<0.5 Ω Rated Current :300 mA

BBSY00100505471Y00



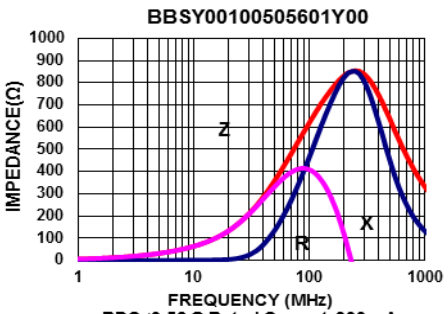
RDC<0.5 Ω Rated Current :300 mA

BBSY00100505481Y00



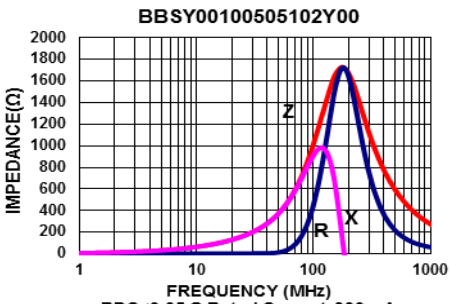
RDC<0.5 Ω Rated Current :300 mA

BBSY00100505601Y00



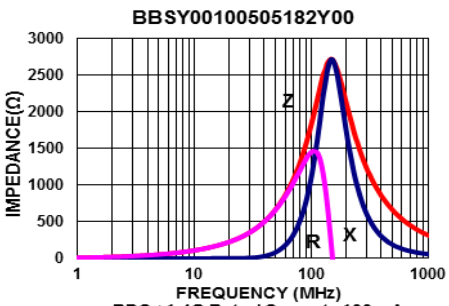
RDC<0.52 Ω Rated Current :300 mA

BBSY00100505102Y00



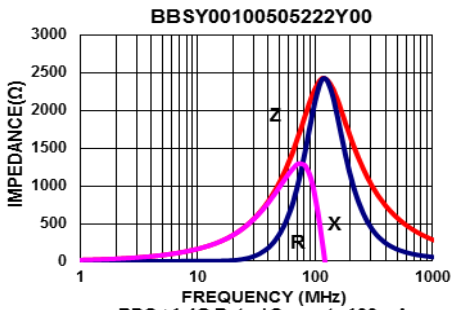
RDC<0.65 Ω Rated Current :300 mA

BBSY00100505182Y00



RDC< 1.4Ω Rated Current : 100 mA

BBSY00100505222Y00



RDC< 1.4Ω Rated Current : 100 mA

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	RDC (Ω) Max	Rated current (mA) Max
BBBK00160808100Y00	10	100	0.05	500
BBBK00160808110Y00	11	100	0.05	500
BBBK00160808300Y00	30	100	0.10	400
BBBK00160808310Y00	31	100	0.10	400
BBBK00160808600Y00	60	100	0.10	400
BBBK00160808800Y00	80	100	0.15	400
BBBK00160808101Y00	100	100	0.20	400
BBBK00160808121Y00	120	100	0.25	400
BBBK00160808221Y00	220	100	0.30	300
BBBK00160808301Y00	300	100	0.40	300
BBBK00160808471Y00	470	100	0.50	300
BBBK00160808601Y00	600	100	0.50	300
BBBK00160808102Y00	1000	100	0.60	300
BBBK00160808152Y00	1500	100	0.60	300
BBBK00160808182Y00	1800	100	0.80	200
BBBK00160808202Y00	2000	100	0.80	200
BBBK00160808222Y00	2200	100	0.80	200
BBBK00160808252Y00	2500	100	0.80	200
BBBK00160808272Y00	2700	100	0.80	200

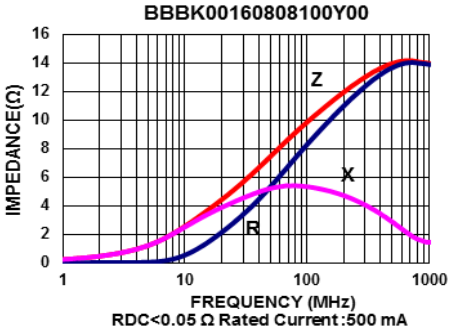
Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

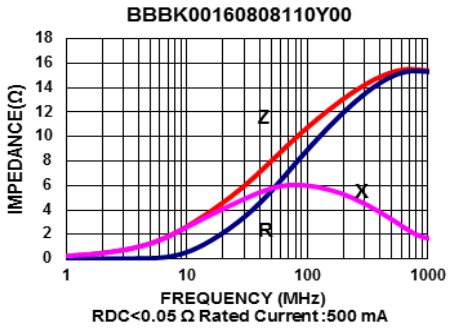
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

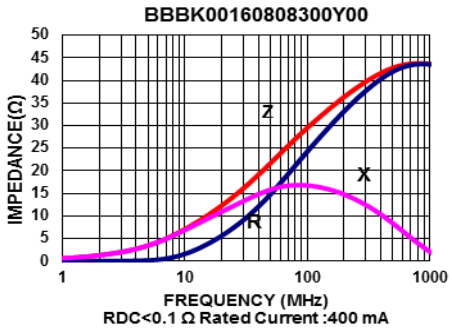
  Z：HP4291A

  RDC：HP4338B or CHEN HWA 502

Test Instruments：Agilent E4991A Impedance / Material Analyzer







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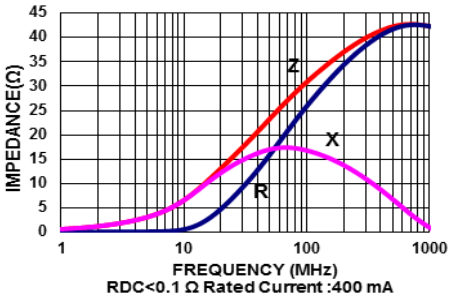
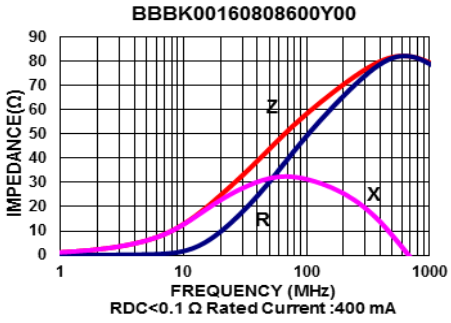
Test Instruments：Agilent E4991A Impedance / Material Analyzer

BBBK00160808310Y00



RDC<0.1 Ω Rated Current :400 mA

BBBK00160808600Y00



RDC<0.1 Ω Rated Current :400 mA

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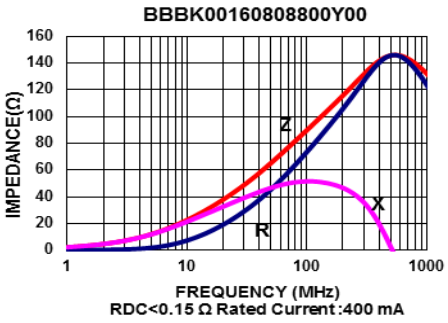

RDC<0.15 Ω Rated Current :400 mA

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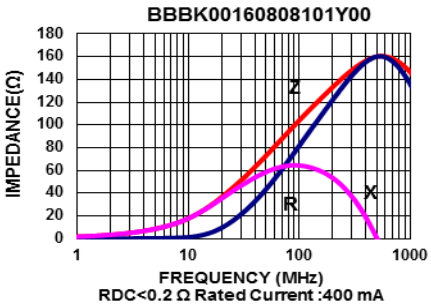
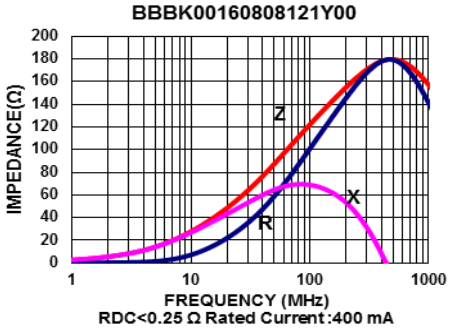


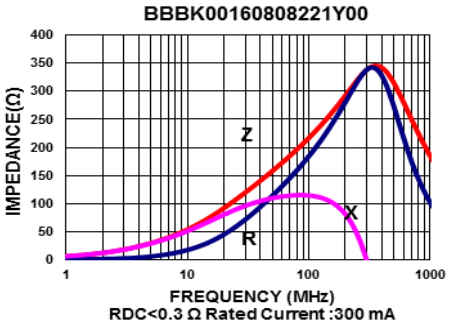
RDC<0.2 Ω Rated Current :400 mA

BBBK00160808121Y00



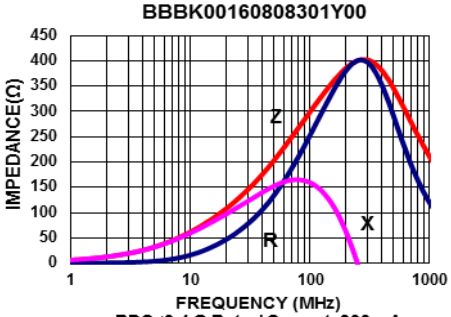
RDC<0.25 Ω Rated Current :400 mA

BBBK00160808221Y00



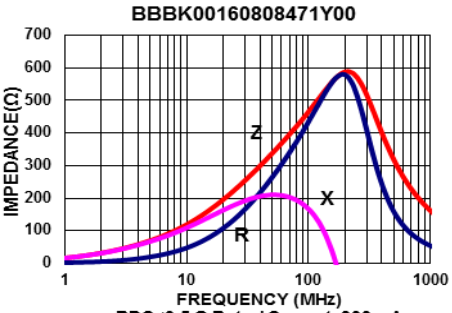
RDC<0.3 Ω Rated Current :300 mA

BBBK00160808301Y00



RDC<0.4 Ω Rated Current :300 mA

BBBK00160808471Y00



RDC<0.5 Ω Rated Current :300 mA

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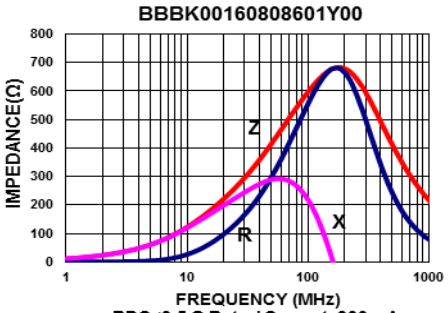

RDC<0.5 Ω Rated Current :300 mA

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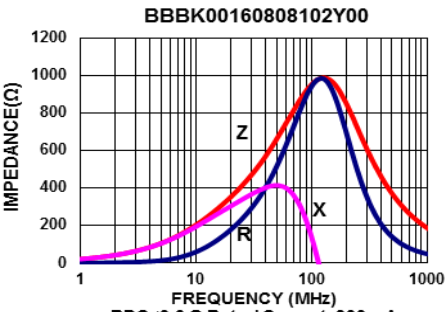
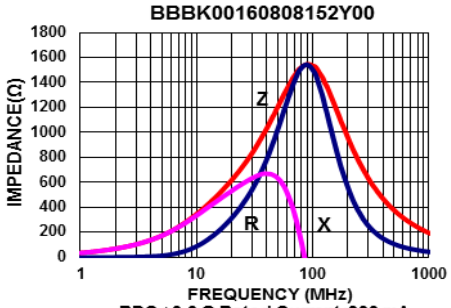


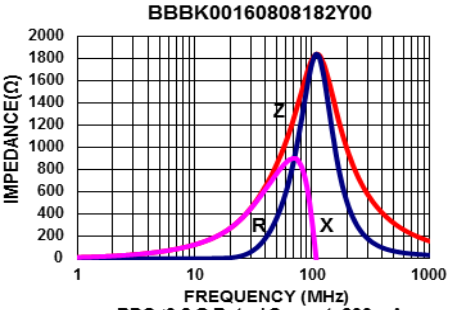
RDC<0.6 Ω Rated Current :300 mA

BBBK00160808152Y00



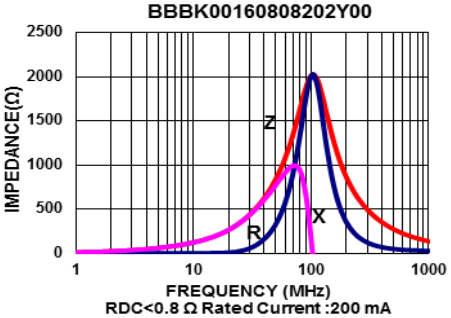
RDC< 0.6 Ω Rated Current :300 mA

BBBK00160808182Y00



RDC<0.8 Ω Rated Current :200 mA

BBBK00160808202Y00



RDC<0.8 Ω Rated Current :200 mA

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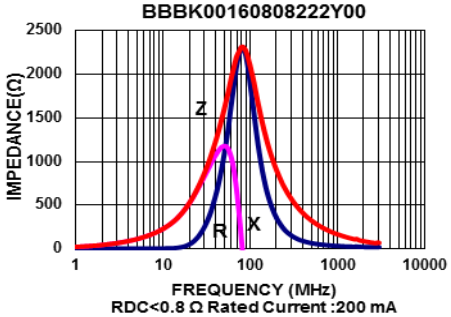
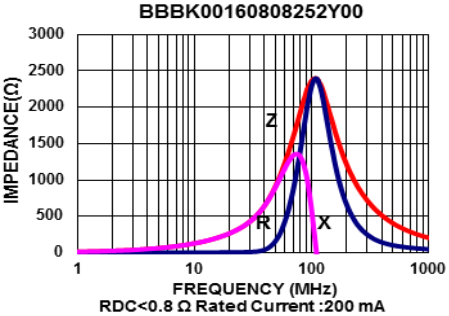


RDC<0.8 Ω Rated Current :200 mA

BBBK00160808252Y00



RDC<0.8 Ω Rated Current :200 mA

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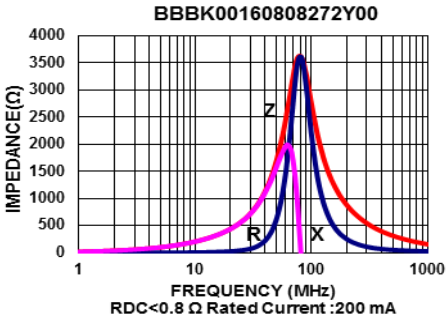
Test Instruments：Agilent E4991A Impedance / Material Analyzer



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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	DC Resistance (Ω) Max	Rated current (mA) Max
BBBK00201209600Y00	60	100	0.15	500
BBBK00201209800Y00	80	100	0.15	500
BBBK00201209121Y00	120	100	0.25	300
BBBK00201209221Y00	220	100	0.30	300
BBBK00201209301Y00	300	100	0.30	300
BBBK00201209431Y00	430	100	0.40	300
BBBK00201209471Y00	470	100	0.40	300
BBBK00201209601Y00	600	100	0.40	300
BBBK00201209102Y00	1000	100	0.50	200
BBBK00201209122Y00	1200	100	0.60	200
BBBK00201209152Y00	1500	100	0.60	200
BBBK00201209202Y00	2000	100	0.70	200
BBBK00201209222Y00	2200	100	0.70	200
BBBK00201209252Y00	2500	100	0.70	200
BBBK00201209272Y00	2700	100	0.70	200

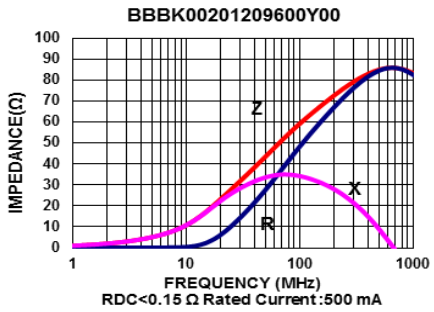
Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

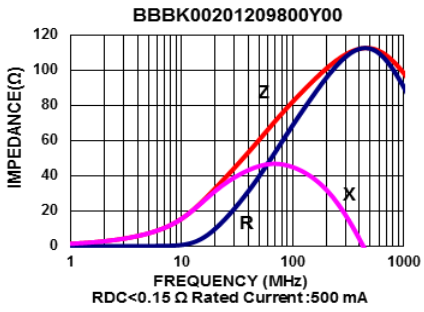
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

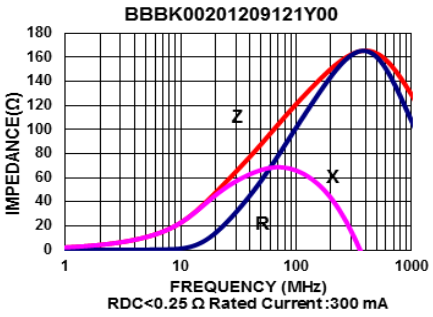
  Z：HP4291A

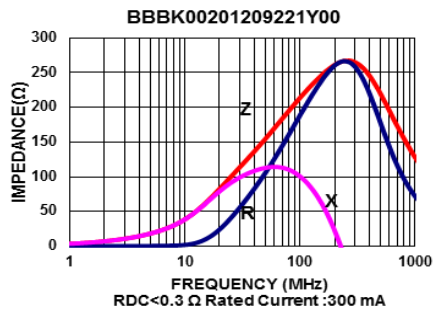
  RDC：HP4338B or CHEN HWA 502

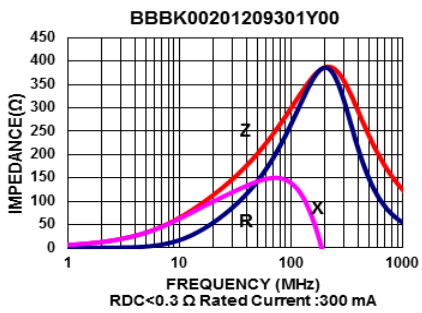
Test Instruments： Agilent E4991A Impedance / Material Analyzer

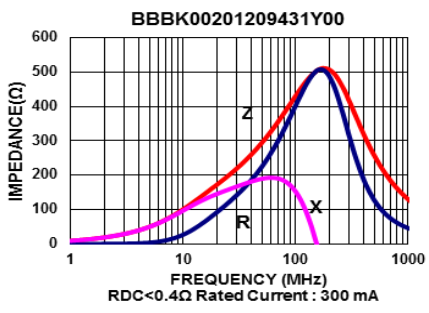












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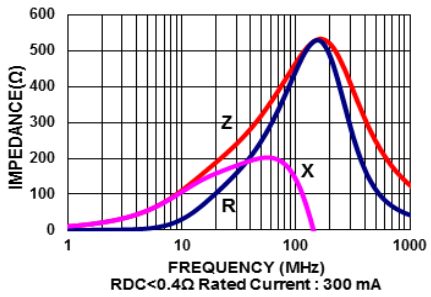
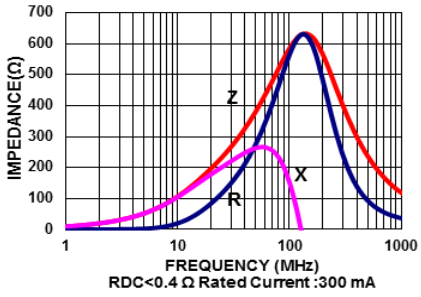
Test Instruments：Agilent E4991A Impedance / Material Analyzer

BBBK00201209471Y00



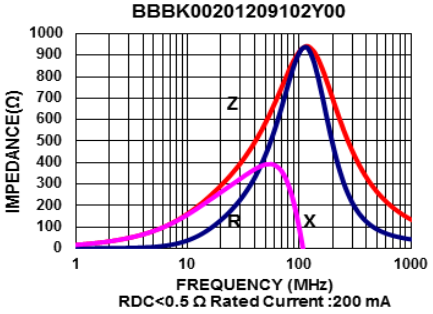
RDC<0.4Ω Rated Current : 300 mA

BBBK00201209601Y00



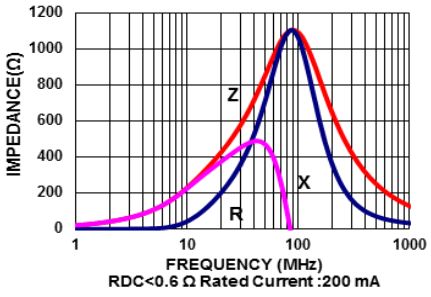
RDC<0.4 Ω Rated Current :300 mA

BBBK00201209102Y00



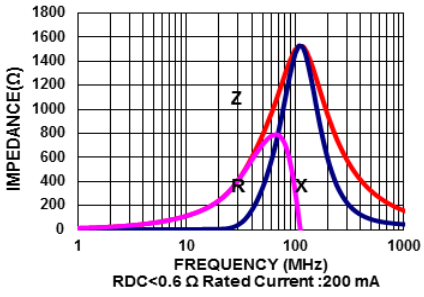
RDC<0.5 Ω Rated Current :200 mA

BBBK00201209122Y00



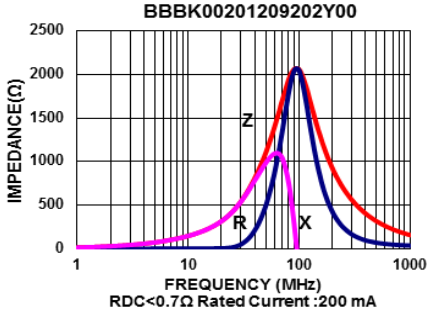
RDC<0.6 Ω Rated Current :200 mA

BBBK00201209152Y00



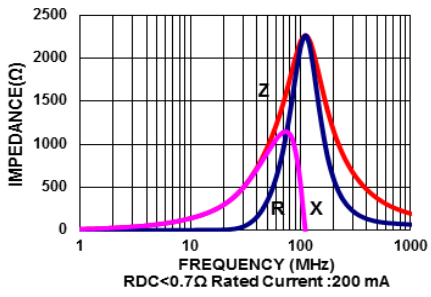
RDC<0.6 Ω Rated Current :200 mA

BBBK00201209202Y00



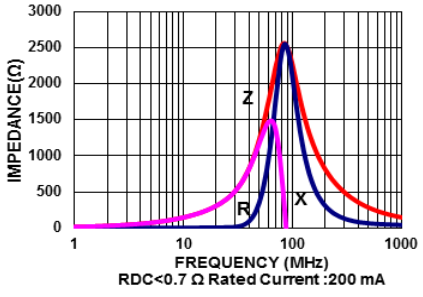
RDC<0.7Ω Rated Current :200 mA

BBBK00201209222Y00



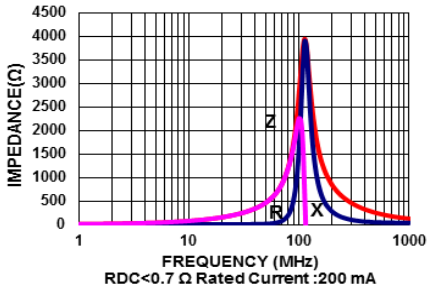
RDC<0.7Ω Rated Current :200 mA

BBBK00201209252Y00



RDC<0.7 Ω Rated Current :200 mA

BBBK00201209272Y00



RDC<0.7 Ω Rated Current :200 mA

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	RDC (Ω) Max	Rated current (mA) Max
BBBK00321611700Y00	70	100	0.10	500
BBBK00321611800Y00	80	100	0.15	500
BBBK00321611900Y00	90	100	0.15	500
BBBK00321611101Y00	100	100	0.15	500
BBBK00321611121Y00	120	100	0.15	500
BBBK00321611151Y00	150	100	0.15	500
BBBK00321611221Y00	220	100	0.20	400
BBBK00321611301Y00	300	100	0.20	400
BBBK00321611401Y00	400	100	0.20	400
BBBK00321611471Y00	470	100	0.20	400
BBBK00321611501Y00	500	100	0.20	400
BBBK00321611601Y00	600	100	0.30	400
BBBK00321611102Y00	1000	50	0.40	200
BBBK00321611122Y00	1200	50	0.40	200
BBBK00321611152Y00	1500	50	0.45	200
BBBK00321611202Y00	2000	30	0.60	200
BBBK00321611272Y00	2700	30	0.60	300

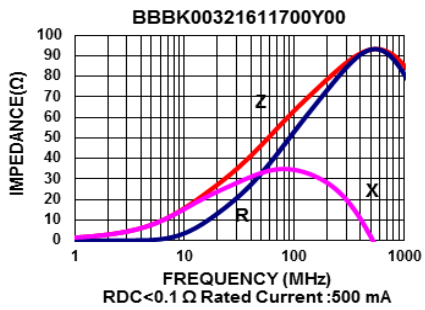
Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

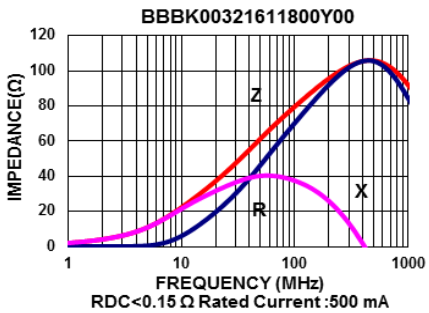
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

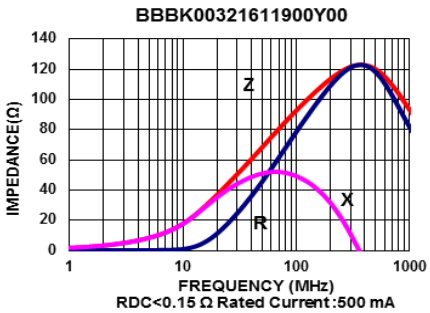
  Z：HP4291A

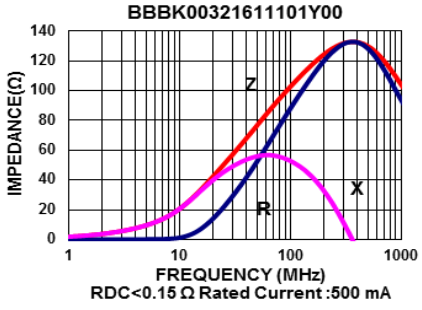
  RDC：HP4338B or CHEN HWA 502

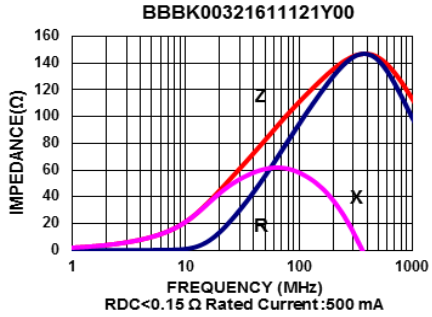
Test Instruments：Agilent E4991A Impedance / Material Analyzer

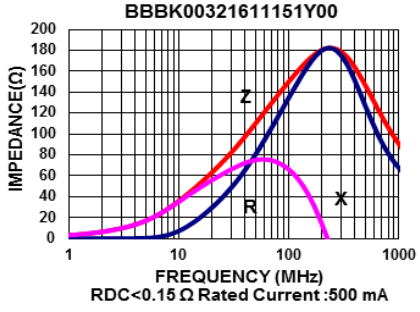












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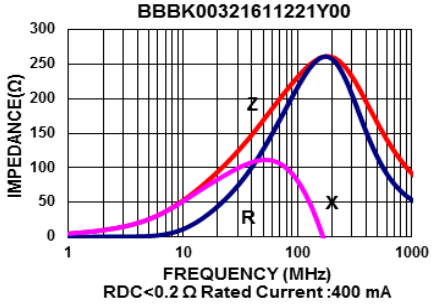
CHILISIN ELECTRONICS CORP.

Test Instruments：Agilent E4991A Impedance / Material Analyzer

BBBK00321611221Y00



RDC<0.2 Ω Rated Current :400 mA

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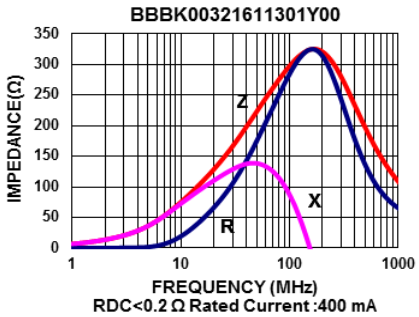

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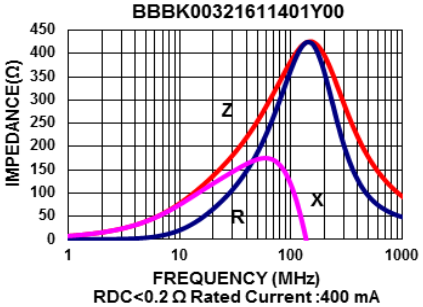

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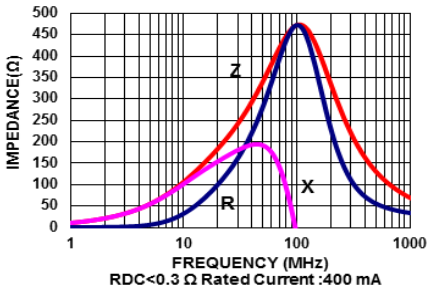

RDC<0.3 Ω Rated Current :400 mA

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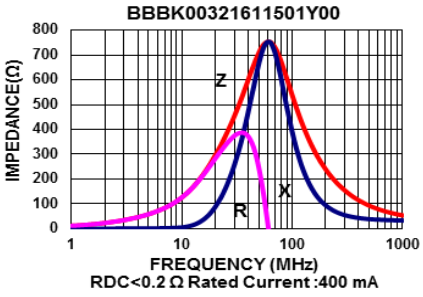

RDC<0.2 Ω Rated Current :400 mA

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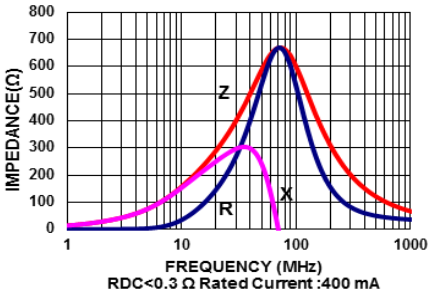

RDC<0.3 Ω Rated Current :400 mA

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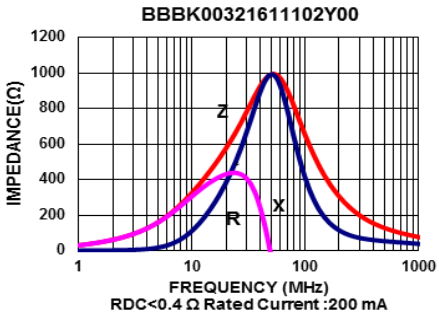

RDC<0.4 Ω Rated Current :200 mA

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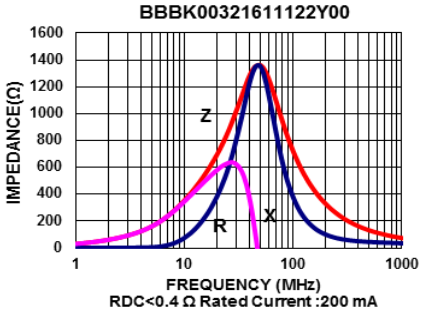

RDC<0.4 Ω Rated Current :200 mA

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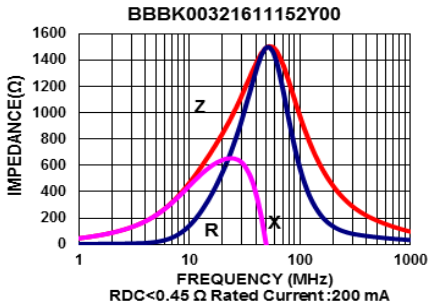
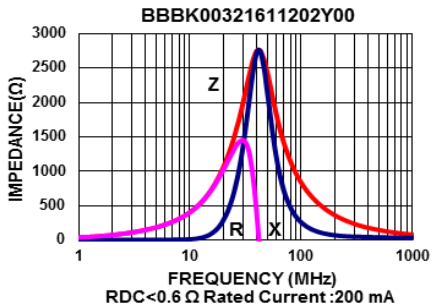


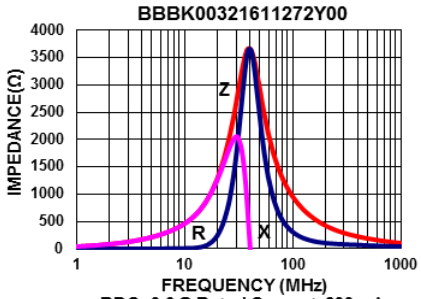
RDC<0.45 Ω Rated Current :200 mA

BBBK00321611202Y00



RDC<0.6 Ω Rated Current :200 mA

BBBK00321611272Y00



RDC<0.6 Ω Rated Current :200 mA

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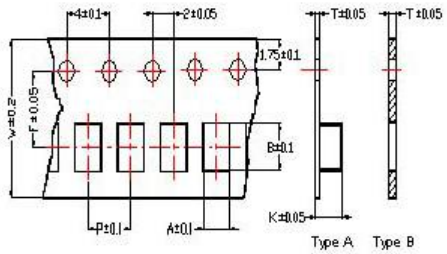
Pulse a YAGEO company

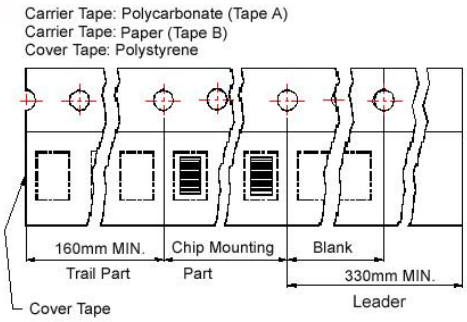
CHILISIN ELECTRONICS CORP.

Packaging Specifications

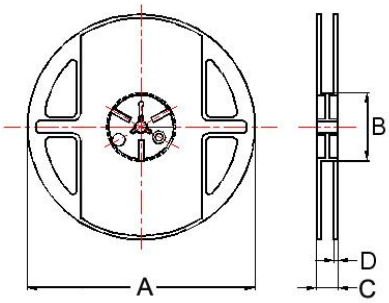
Tape Dimensions



Tape Material



Reel Dimensions



① : BBSY/BBSJ/BBNQ/BBPY ③ : BBUP
② : BBSY/BBSJ/BBNQ/BBPY/BBUP/BBFY/BBFJ
④ : BBBK/BBSJ/BBGK/BBPY/BBNQ/BBUP/BBHV
⑤ : BBBK/BBGK/BBPY/BBUP
⑥ : BBSY/BBBK/BBPY/BBUP
⑦ : BBPY/BBUP

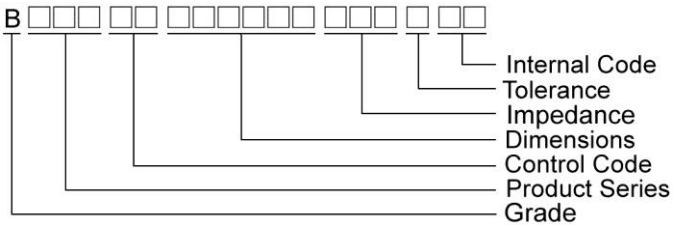
Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape	A	B	C	D	PCS / REEL
①060303	0.37	0.67	0.42	8.0	2.0	3.5	-	B	178	60	10	2	15000
②100505	0.62	1.12	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
③160805	1.05	1.85	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
④160808	1.05	1.85	0.95	8.0	4.0	3.5	-	B	178	60	12	2	4000
⑤201209	1.50	2.30	0.97	8.0	4.0	3.5	-	B	178	60	12	2	4000
⑥321611	1.88	3.50	0.22	8.0	4.0	3.5	1.27	A	178	60	12	2	3000
⑦453215	3.66	4.95	0.24	12	8.0	5.5	1.85	A	178	60	14	2	1000

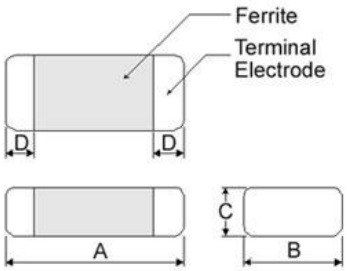
Multilayer Ferrite Chip Beads

Chilisin offers a wide range of multi-layered ferrite chip beads with various sizes, frequency characteristics, and impedance values for EMI solutions. These ferrite formulas are used to compose seven types of EMI suppression chip beads: BBSY, BBBK, BBSJ, BBGK, BBPY, BBUP, BBNQ, BBFY, BBFJ and BBHV series.

Product Identification



Shape and Dimensions

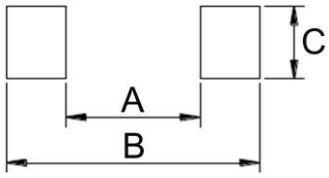


Dimensions in mm

TYPE	A	B	C	D
①060303	0.6±0.03	0.30±0.03	0.3±0.03	0.15±0.05
②100505	1.0±0.10	0.50±0.10	0.5±0.10	0.25±0.10
③160805	1.6±0.15	0.80±0.15	0.5±0.15	0.3±0.2
④160808	1.6±0.15	0.80±0.15	0.8±0.15	0.3±0.2
⑤201209	2.0±0.20	1.25±0.20	0.9±0.20	0.5±0.3
⑥321611	3.2±0.20	1.60±0.20	1.1±0.20	0.5±0.3
⑦453215	4.5±0.25	3.20±0.20	1.5±0.20	0.5±0.3

① : BBSY / BBSJ / BBNQ / BBPY
② : BBSY / BBSJ / BBNQ / BBPY / BBUP / BBFY / BBFJ
③ : BBUP ④ : BBBK / BBSJ / BBGK / BBPY / BBNQ / BBUP / BBHV
⑤ : BBBK / BBGK / BBPY / BBUP ⑥ : BBSY / BBBK / BBPY / BBUP
⑦ : BBPY / BBUP

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
①060303	0.2 ~ 0.3	0.75 ~ 1.05	0.3
②100505	0.4	1.2 ~ 1.4	0.5
③160805	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
④160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
⑤201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.4
⑥321611	2.0 ~ 2.4	4.2 ~ 5.2	1.3 ~ 1.9
⑦453215	3.0	5.5 ~ 6.5	2.4

∗ Don't apply narrower pattern than listed above to BBPY and BBUP
Narrow pattern might cause excessive heat or open circuit.

Dimension Conversion

Code	Dimension in mm (AxBxC)	EIA
060303	0.6X0.3X0.3	0201
100505	1.0X0.5X0.5	0402
160805	1.6x0.8x0.5	0603
160808	1.6x0.8x0.8	0603
201209	2.0x1.2x0.9	0805
321611	3.2x1.6x.1.1	1206
453215	4.5x3.2x1.5	1812

Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	RDC (Ω) Max	Rated current (mA) Max
BBSJ00060303600Y00	60	100	0.3	200
BBSJ00060303750Y00	75	100	0.4	300
BBSJ00060303121Y00	120	100	0.5	250
BBSJ00060303241Y00	240	100	0.8	220

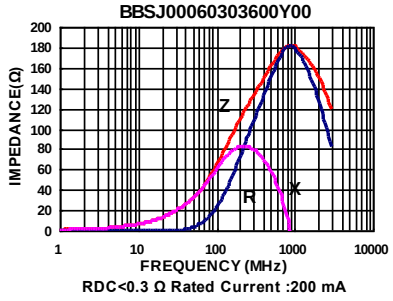
Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

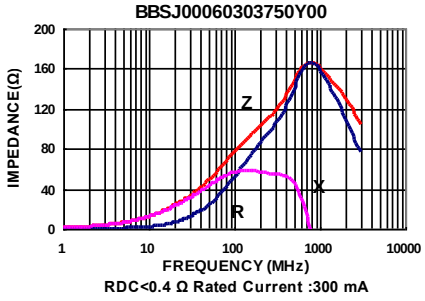
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

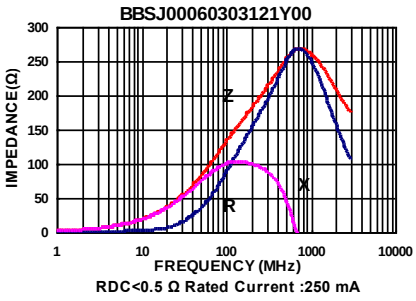
  Z：HP4291A

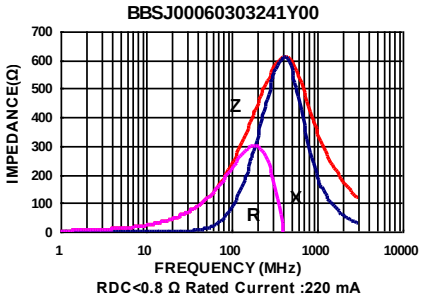
  RDC：HP4338B or CHEN HWA 502

Test Instruments：Agilent E4991A Impedance / Material Analyzer









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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	RDC (Ω) Max	Rated current (mA) Max
BBSJ00100505300Y00	30	100	0.20	500
BBSJ00100505600Y00	60	100	0.20	500
BBSJ00100505800Y00	80	100	0.20	500
BBSJ00100505121Y00	120	100	0.25	500
BBSJ00100505221Y00	220	100	0.40	400
BBSJ00100505301Y00	300	100	0.50	300
BBSJ00100505471Y00	470	100	0.50	300
BBSJ00100505481Y00	480	100	0.50	300
BBSJ00100505601Y00	600	100	0.60	300
BBSJ00100505102Y00	1000	100	0.95	200
BBSJ00100505152Y00	1500	100	1.15	100
BBSJ00100505182Y00	1800	100	1.40	100
BBSJ00100505252Y00	2500	100	1.80	100

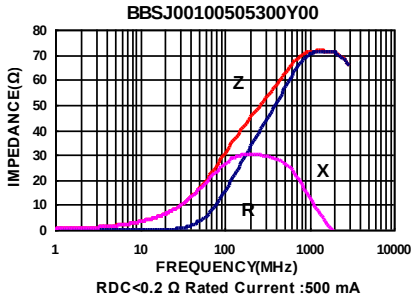
Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

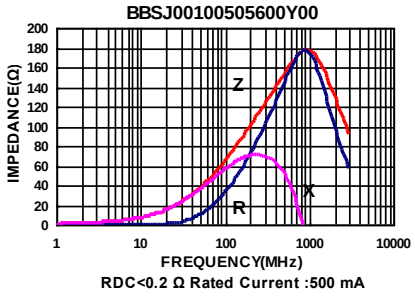
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

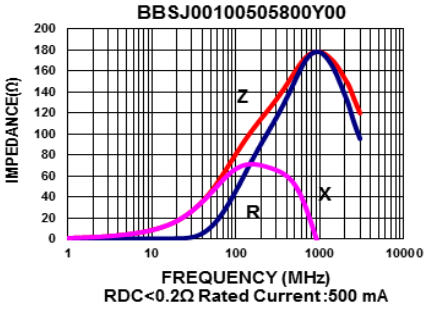
  Z：HP4291A

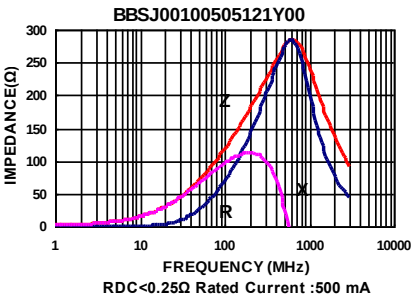
  RDC：HP4338B or CHEN HWA 502

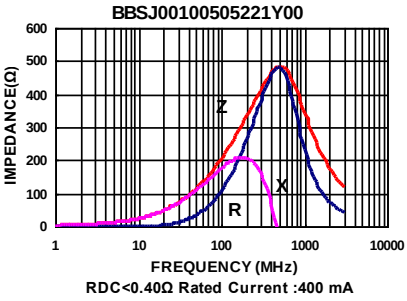
Test Instruments：Agilent E4991A Impedance / Material Analyzer

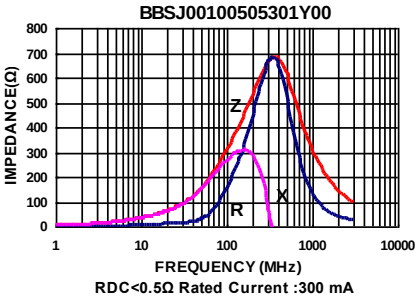












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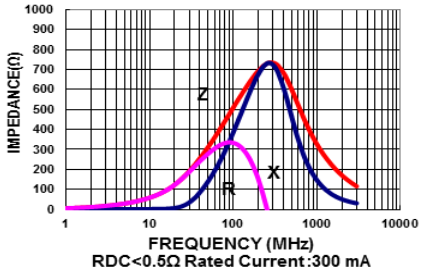
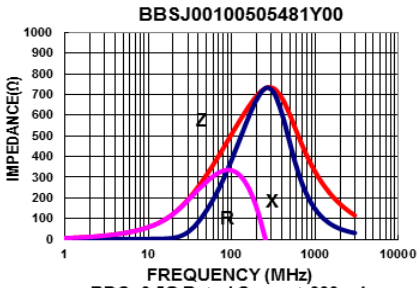
Test Instruments：Agilent E4991A Impedance / Material Analyzer

BBSJ00100505471Y00



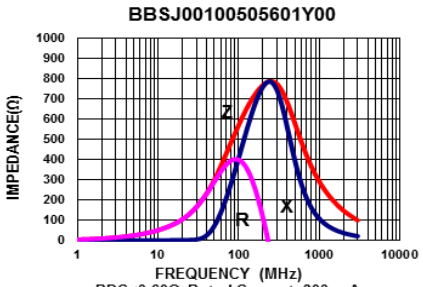
RDC<0.5Ω Rated Current:300 mA

BBSJ00100505481Y00



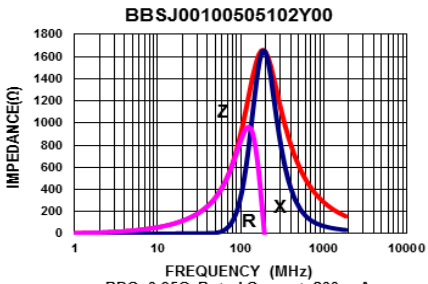
RDC<0.5Ω Rated Current:300 mA

BBSJ00100505601Y00



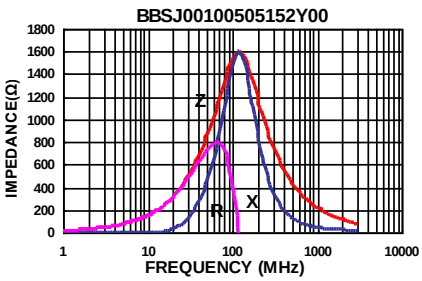
RDC<0.60Ω Rated Current :300 mA

BBSJ00100505102Y00



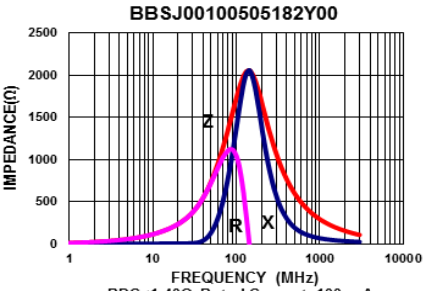
RDC<0.95Ω Rated Current :200 mA

BBSJ00100505152Y00



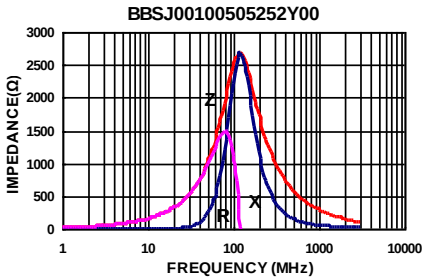
RDC<1.15Ω Rated Current :100 mA

BBSJ00100505182Y00



RDC<1.40Ω Rated Current :100 mA

BBSJ00100505252Y00



RDC<1.80Ω Rated Current :100 mA

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Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	RDC (Ω) Max	Rated current (mA) Max
BBSJ00160808600Y00	60	100	0.10	400
BBSJ00160808121Y00	120	100	0.25	400
BBSJ00160808221Y00	220	100	0.30	400
BBSJ00160808601Y00	600	100	0.40	400
BBSJ00160808102Y00	1000	100	0.60	300
BBSJ00160808152Y00	1500	100	0.80	200
BBSJ00160808182Y00	1800	100	1.0	200
BBSJ00160808202Y00	2000	100	1.0	200
BBSJ00160808222Y00	2200	100	1.0	200
BBSJ00160808252Y00	2500	100	1.0	200
BBSJ00160808272Y00	2700	100	1.0	200

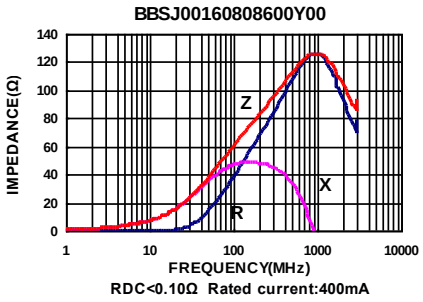
Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

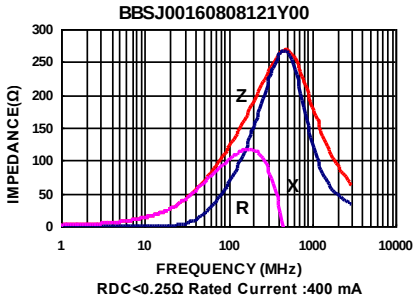
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

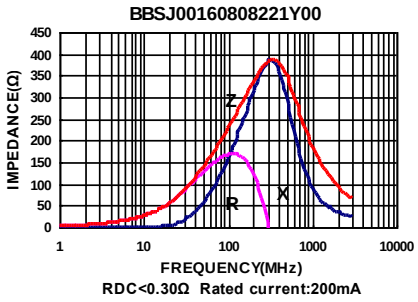
  Z：HP4291A

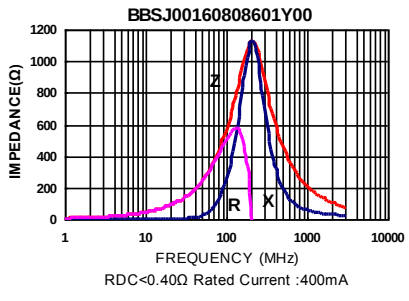
  RDC：HP4338B or CHEN HWA 502

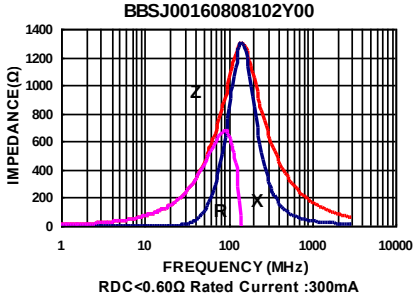
Test Instruments：Agilent E4991A Impedance / Material Analyzer

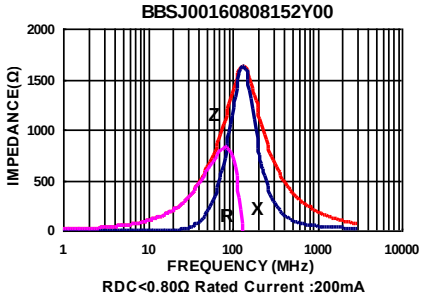


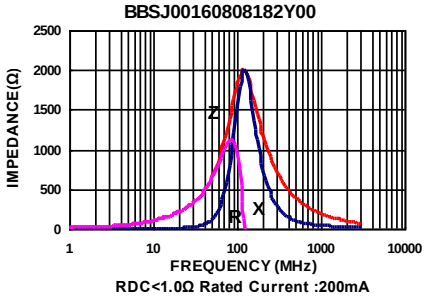


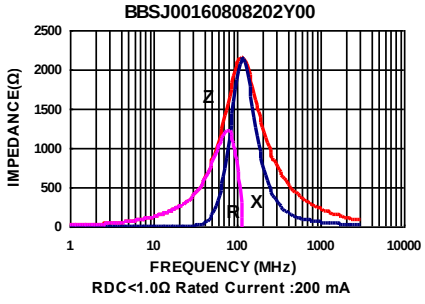


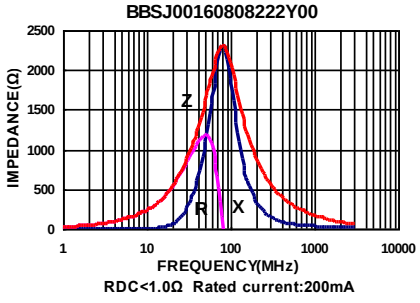












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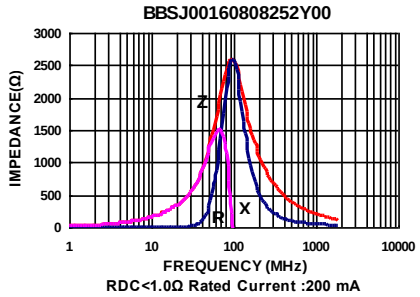
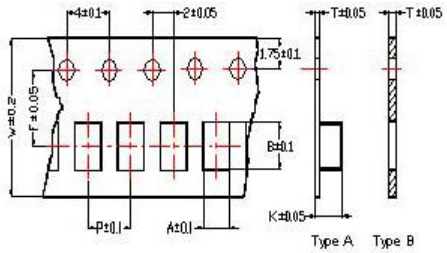
CHILISIN ELECTRONICS CORP.

Test Instruments：Agilent E4991A Impedance / Material Analyzer

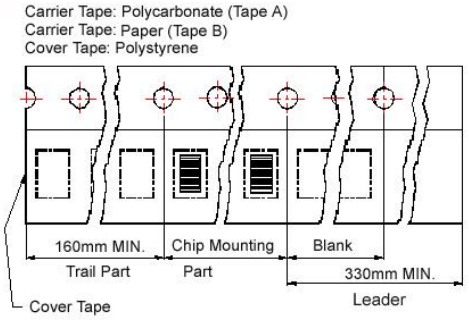


Packaging Specifications

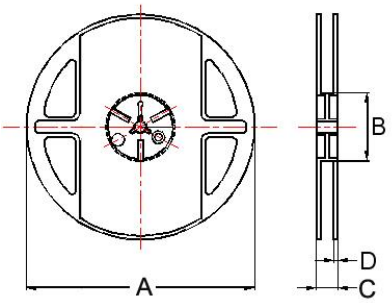
Tape Dimensions



Tape Material



Reel Dimensions



①：BBSY/BBSJ/BBNQ/BBPY ③：BBUP
②：BBSY/BBSJ/BBNQ/BBPY/BBUP/BBFY/BBFJ
④：BBBK/BBSJ/BBGK/BBPY/BBNQ/BBUP/BBHV
⑤：BBBK/BBGK/BBPY/BBUP
⑥：BBSY/BBBK/BBPY/BBUP
⑦：BBPY/BBUP

Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape	A	B	C	D	PCS / REEL
①060303	0.37	0.67	0.42	8.0	2.0	3.5	-	B	178	60	10	2	15000
②100505	0.62	1.12	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
③160805	1.05	1.85	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
④160808	1.05	1.85	0.95	8.0	4.0	3.5	-	B	178	60	12	2	4000
⑤201209	1.50	2.30	0.97	8.0	4.0	3.5	-	B	178	60	12	2	4000
⑥321611	1.88	3.50	0.22	8.0	4.0	3.5	1.27	A	178	60	12	2	3000
⑦453215	3.66	4.95	0.24	12	8.0	5.5	1.85	A	178	60	14	2	1000

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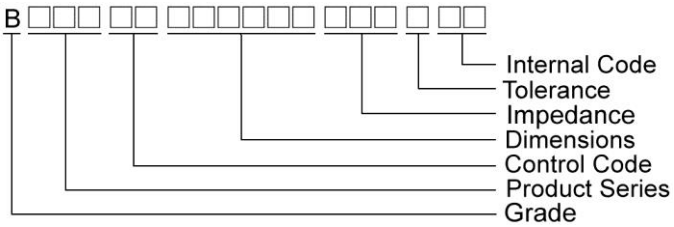
CHILISIN ELECTRONICS CORP.

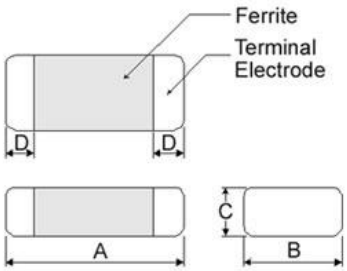
Multilayer Ferrite Chip Beads

Chilisin offers a wide range of multi-layered ferrite chip beads with various sizes, frequency characteristics, and impedance values for EMI solutions. These ferrite formulas are used to compose seven types of EMI suppression chip beads: BBSY, BBBK, BBSJ, BBGK, BBPY, BBUP, BBNQ, BBFY, BBFJ and BBHV series.

Product Identification



Shape and Dimensions

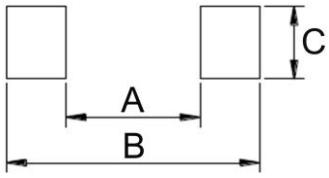


Dimensions in mm

TYPE	A	B	C	D
①060303	0.6±0.03	0.30±0.03	0.3±0.03	0.15±0.05
②100505	1.0±0.10	0.50±0.10	0.5±0.10	0.25±0.10
③160805	1.6±0.15	0.80±0.15	0.5±0.15	0.3±0.2
④160808	1.6±0.15	0.80±0.15	0.8±0.15	0.3±0.2
⑤201209	2.0±0.20	1.25±0.20	0.9±0.20	0.5±0.3
⑥321611	3.2±0.20	1.60±0.20	1.1±0.20	0.5±0.3
⑦453215	4.5±0.25	3.20±0.20	1.5±0.20	0.5±0.3

① : BBSY / BBSJ / BBNQ / BBPY
② : BBSY / BBSJ / BBNQ / BBPY / BBUP / BBFY / BBFJ
③ : BBUP ④ : BBBK / BBSJ / BBGK / BBPY / BBNQ / BBUP / BBHV
⑤ : BBBK / BBGK / BBPY / BBUP ⑥ : BBSY / BBBK / BBPY / BBUP
⑦ : BBPY / BBUP

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
①060303	0.2 ~ 0.3	0.75 ~ 1.05	0.3
②100505	0.4	1.2 ~ 1.4	0.5
③160805	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
④160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
⑤201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.4
⑥321611	2.0 ~ 2.4	4.2 ~ 5.2	1.3 ~ 1.9
⑦453215	3.0	5.5 ~ 6.5	2.4

∗ Don't apply narrower pattern than listed above to BBPY and BBUP Narrow pattern might cause excessive heat or open circuit.

Dimension Conversion

Code	Dimension in mm (AxBxC)	EIA
060303	0.6X0.3X0.3	0201
100505	1.0X0.5X0.5	0402
160805	1.6x0.8x0.5	0603
160808	1.6x0.8x0.8	0603
201209	2.0x1.2x0.9	0805
321611	3.2x1.6x.1.1	1206
453215	4.5x3.2x1.5	1812

Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	RDC (Ω) Max	Rated current (mA) Max
BBGK00160808100Y00	10	100	0.03	1000
BBGK00160808110Y00	11	100	0.03	1000
BBGK00160808300Y00	30	100	0.06	800
BBGK00160808400Y00	40	100	0.06	800
BBGK00160808500Y00	50	100	0.06	600
BBGK00160808600Y00	60	100	0.06	700
BBGK00160808700Y00	70	100	0.10	600
BBGK00160808800Y00	80	100	0.10	600
BBGK00160808101Y00	100	100	0.15	600
BBGK00160808121Y00	120	100	0.15	600
BBGK00160808151Y00	150	100	0.15	600
BBGK00160808181Y00	180	100	0.18	400
BBGK00160808201Y00	200	100	0.18	400
BBGK00160808221Y00	220	100	0.18	550
BBGK00160808301Y00	300	100	0.25	500
BBGK00160808331Y00	330	100	0.30	400
BBGK00160808471Y00	470	100	0.30	400
BBGK00160808601Y00	600	100	0.30	400
BBGK00160808102Y00	1000	100	0.45	300
BBGK00160808152Y00	1500	100	0.70	150

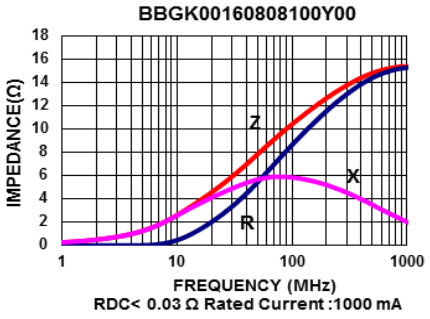
Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

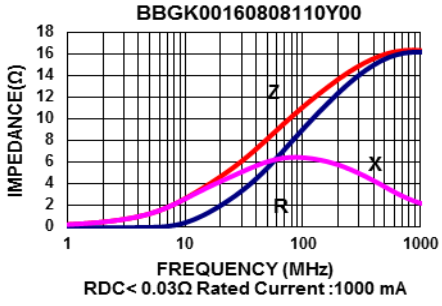
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

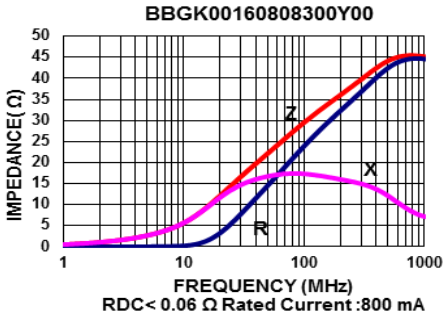
  Z：HP4291A

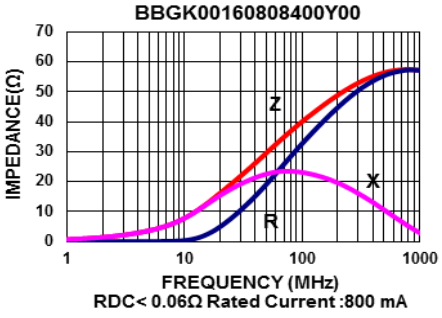
  RDC：HP4338B or CHEN HWA 502

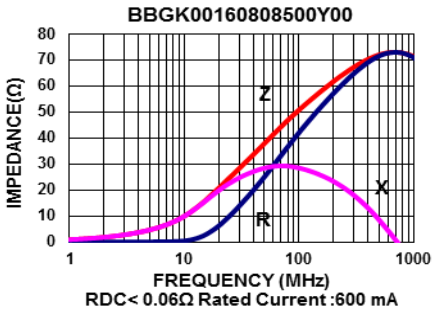
Test Instruments： Agilent E4991A Impedance / Material Analyzer

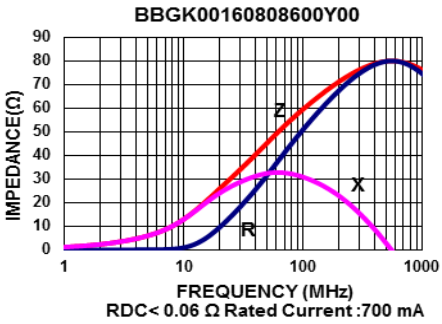












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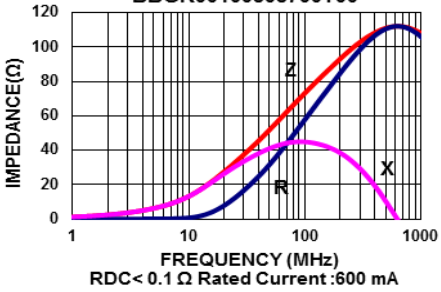
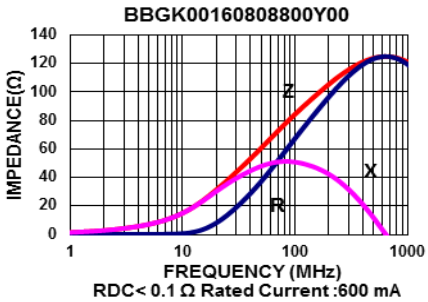
Test Instruments：Agilent E4991A Impedance / Material Analyzer

BBGK00160808700Y00



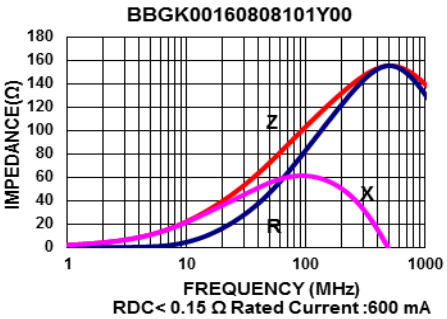
RDC< 0.1 Ω Rated Current :600 mA

BBGK00160808800Y00



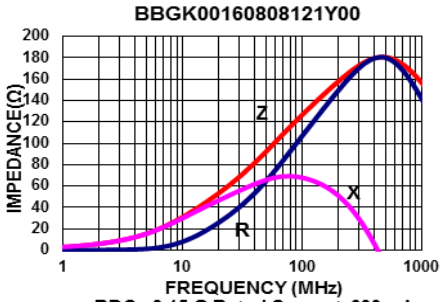
RDC< 0.1 Ω Rated Current :600 mA

BBGK00160808101Y00



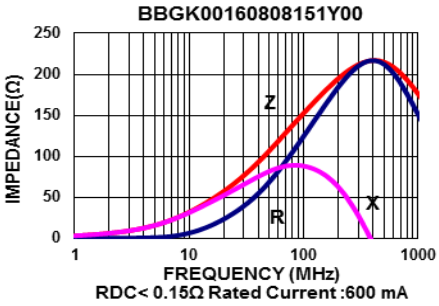
RDC< 0.15 Ω Rated Current :600 mA

BBGK00160808121Y00



RDC< 0.15 Ω Rated Current :600 mA

BBGK00160808151Y00



RDC< 0.15Ω Rated Current :600 mA

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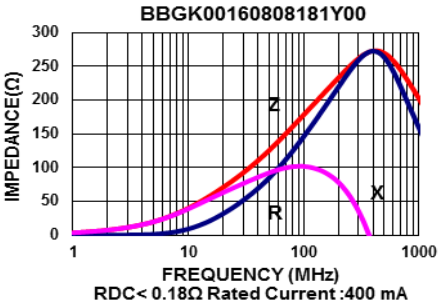

RDC< 0.18Ω Rated Current :400 mA

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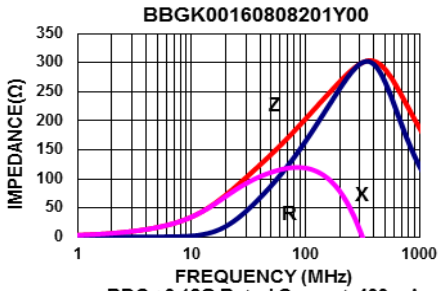

RDC< 0.18Ω Rated Current :400 mA

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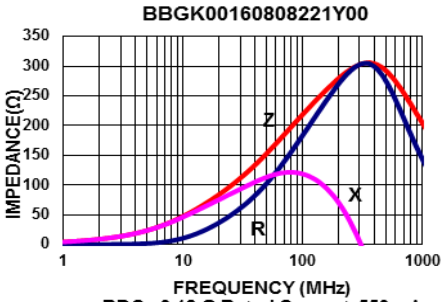

RDC< 0.18 Ω Rated Current :550 mA

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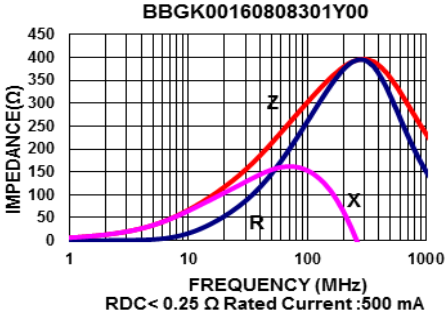
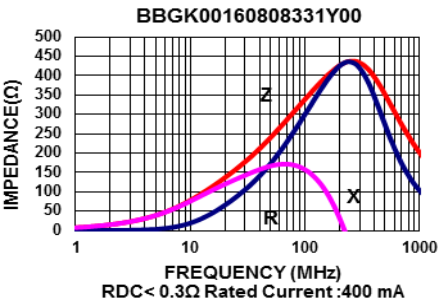


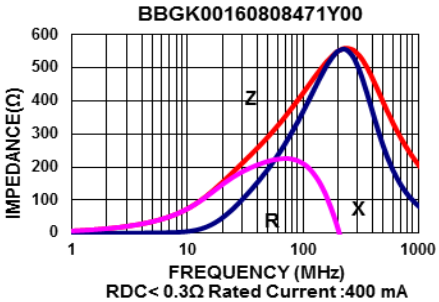
RDC< 0.25 Ω Rated Current :500 mA

BBGK00160808331Y00



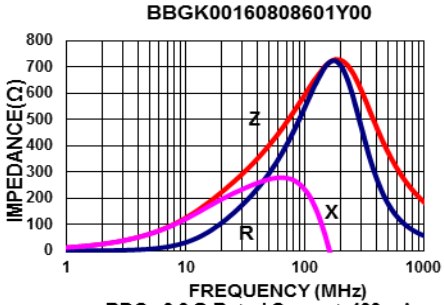
RDC< 0.3Ω Rated Current :400 mA

BBGK00160808471Y00



RDC< 0.3Ω Rated Current :400 mA

BBGK00160808601Y00



RDC< 0.3 Ω Rated Current :400 mA

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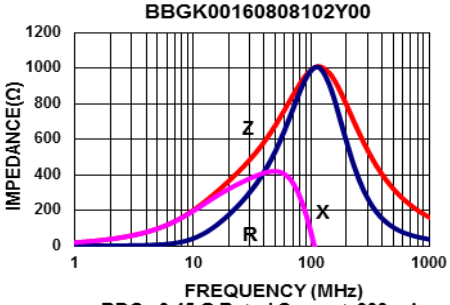

RDC< 0.45 Ω Rated Current :300 mA

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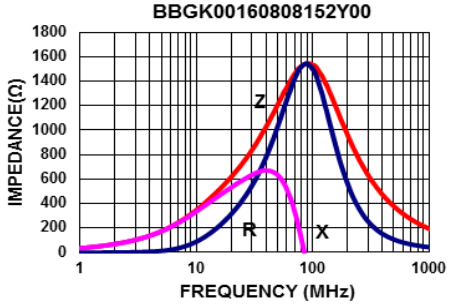

RDC< 0.7 Ω Rated Current :150 mA

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	RDC (Ω) Max	Rated current (mA) Max
BBGK00201209600Y00	60	100	0.10	900
BBGK00201209121Y00	120	100	0.15	800
BBGK00201209221Y00	220	100	0.18	750
BBGK00201209301Y00	300	100	0.18	700
BBGK00201209601Y00	600	100	0.25	500
BBGK00201209102Y00	1000	100	0.30	400
BBGK00201209152Y00	1500	100	0.40	400
BBGK00201209202Y00	2000	100	0.55	400

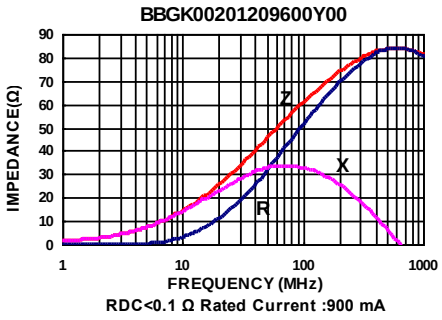
Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

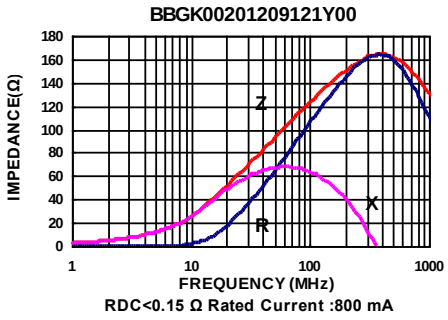
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

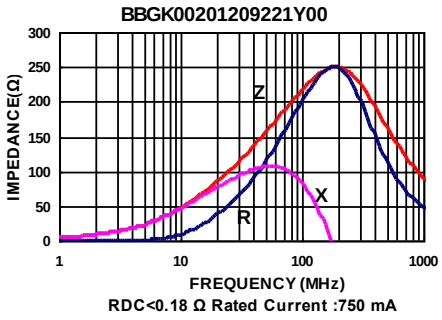
  Z：HP4291A

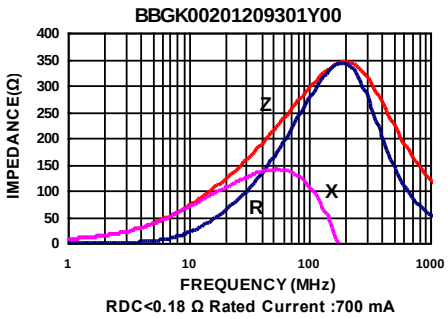
  RDC：HP4338B or CHEN HWA 502

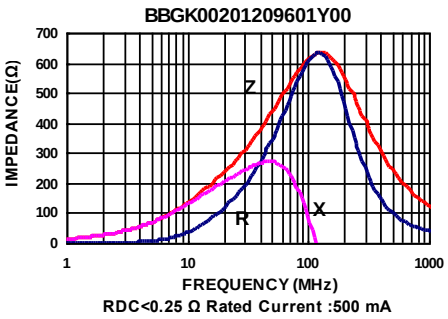
Test Instruments：Agilent E4991A Impedance / Material Analyzer

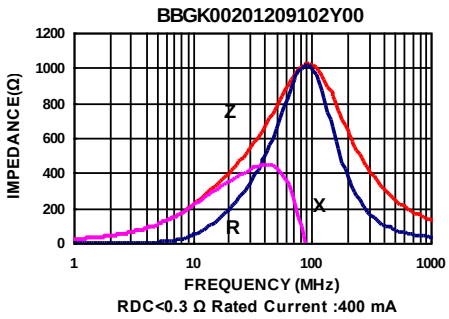


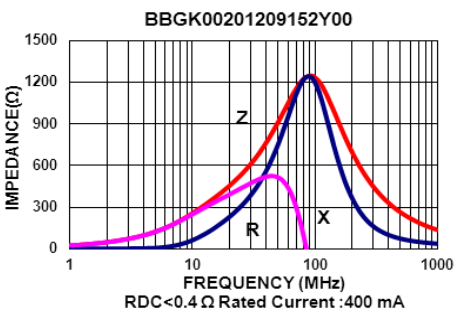


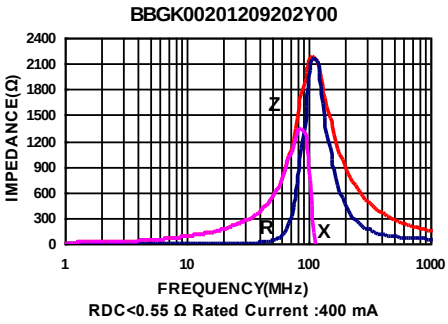












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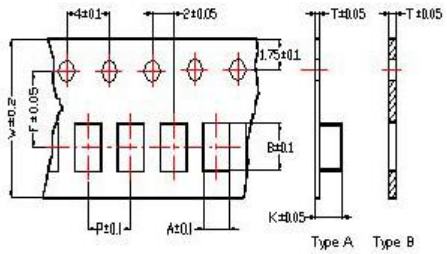
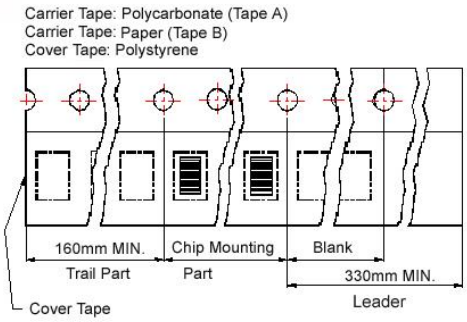
Packaging Specifications

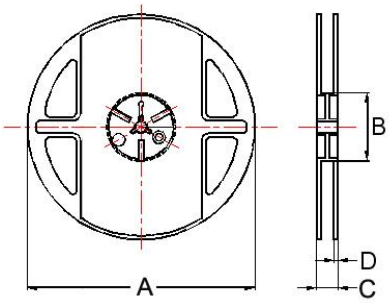
Tape Dimensions



Tape Material



Reel Dimensions



①：BBSY/BBSJ/BBNQ/BBPY ③：BBUP
②：BBSY/BBSJ/BBNQ/BBPY/BBUP/BBFY/BBFJ
④：BBBK/BBSJ/BBGK/BBPY/BBNQ/BBUP/BBHV
⑤：BBBK/BBGK/BBPY/BBUP
⑥：BBSY/BBBK/BBPY/BBUP
⑦：BBPY/BBUP

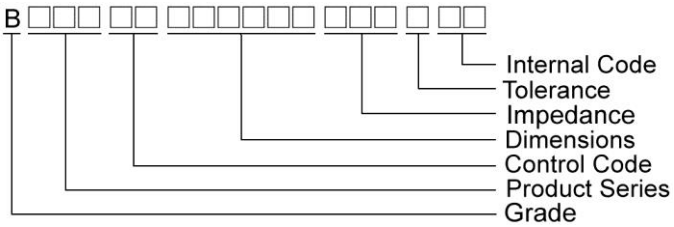
Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape	A	B	C	D	PCS / REEL
①060303	0.37	0.67	0.42	8.0	2.0	3.5	-	B	178	60	10	2	15000
②100505	0.62	1.12	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
③160805	1.05	1.85	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
④160808	1.05	1.85	0.95	8.0	4.0	3.5	-	B	178	60	12	2	4000
⑤201209	1.50	2.30	0.97	8.0	4.0	3.5	-	B	178	60	12	2	4000
⑥321611	1.88	3.50	0.22	8.0	4.0	3.5	1.27	A	178	60	12	2	3000
⑦453215	3.66	4.95	0.24	12	8.0	5.5	1.85	A	178	60	14	2	1000

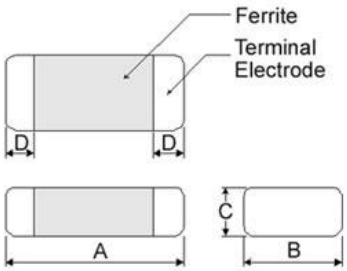
Multilayer Ferrite Chip Beads

Chilisin offers a wide range of multi-layered ferrite chip beads with various sizes, frequency characteristics, and impedance values for EMI solutions. These ferrite formulas are used to compose seven types of EMI suppression chip beads: BBSY, BBBK, BBSJ, BBGK, BBPY, BBUP, BBNQ, BBFY, BBFJ and BBHV series.

Product Identification



Shape and Dimensions

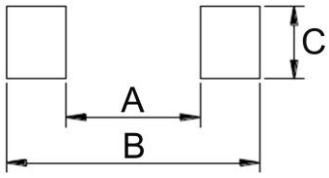


Dimensions in mm

TYPE	A	B	C	D
①060303	0.6±0.03	0.30±0.03	0.3±0.03	0.15±0.05
②100505	1.0±0.10	0.50±0.10	0.5±0.10	0.25±0.10
③160805	1.6±0.15	0.80±0.15	0.5±0.15	0.3±0.2
④160808	1.6±0.15	0.80±0.15	0.8±0.15	0.3±0.2
⑤201209	2.0±0.20	1.25±0.20	0.9±0.20	0.5±0.3
⑥321611	3.2±0.20	1.60±0.20	1.1±0.20	0.5±0.3
⑦453215	4.5±0.25	3.20±0.20	1.5±0.20	0.5±0.3

① : BBSY / BBSJ / BBNQ / BBPY
② : BBSY / BBSJ / BBNQ / BBPY / BBUP / BBFY / BBFJ
③ : BBUP ④ : BBBK / BBSJ / BBGK / BBPY / BBNQ / BBUP / BBHV
⑤ : BBBK / BBGK / BBPY / BBUP ⑥ : BBSY / BBBK / BBPY / BBUP
⑦ : BBPY / BBUP

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
①060303	0.2 ~ 0.3	0.75 ~ 1.05	0.3
②100505	0.4	1.2 ~ 1.4	0.5
③160805	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
④160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
⑤201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.4
⑥321611	2.0 ~ 2.4	4.2 ~ 5.2	1.3 ~ 1.9
⑦453215	3.0	5.5 ~ 6.5	2.4

∗ Don't apply narrower pattern than listed above to BBPY and BBUP
Narrow pattern might cause excessive heat or open circuit.

Dimension Conversion

Code	Dimension in mm (AxBxC)	EIA
060303	0.6X0.3X0.3	0201
100505	1.0X0.5X0.5	0402
160805	1.6x0.8x0.5	0603
160808	1.6x0.8x0.8	0603
201209	2.0x1.2x0.9	0805
321611	3.2x1.6x.1.1	1206
453215	4.5x3.2x1.5	1812

Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	RDC (Ω) Max	Rated current (mA) Max
BBNQ00060303100Y00	10	100	0.4	300
BBNQ00060303220Y00	22	100	0.5	200
BBNQ00060303470Y00	47	100	0.7	200
BBNQ00060303750Y00	75	100	1.0	200
BBNQ00060303121Y00	120	100	1.5	100

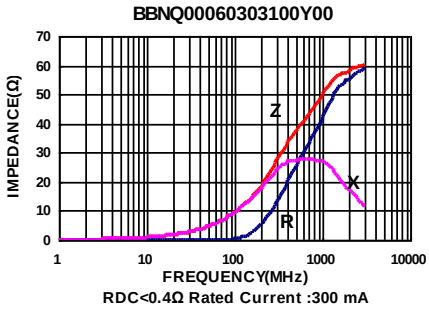
Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

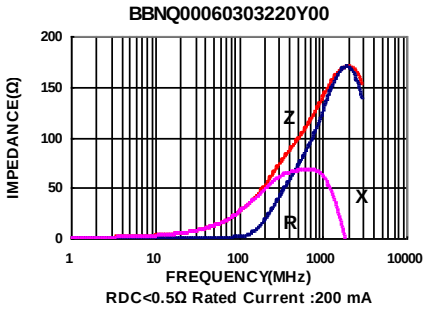
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

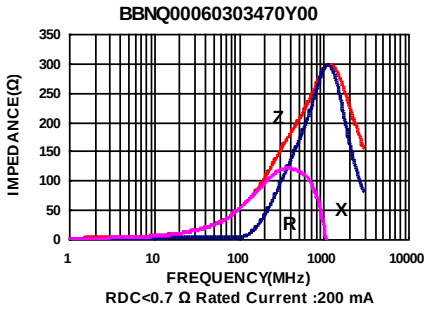
  Z：HP4291A

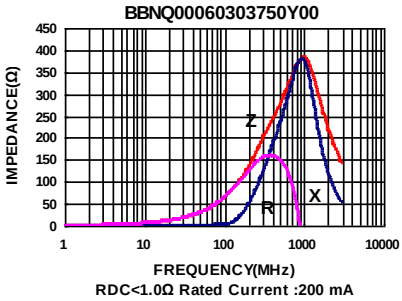
  RDC：HP4338B or CHEN HWA 502

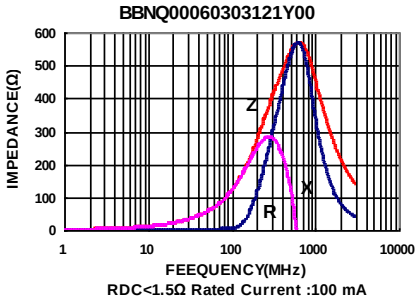
Test Instruments：Agilent E4991A Impedance / Material Analyzer











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Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	RDC (Ω) Max	Rated current (mA) Max
BBNQ00100505100Y00	10	100	0.10	500
BBNQ00100505220Y00	22	100	0.25	400
BBNQ00100505300Y00	30	100	0.25	400
BBNQ00100505470Y00	47	100	0.30	400
BBNQ00100505750Y00	75	100	0.30	400
BBNQ00100505121Y00	120	100	0.40	350
BBNQ00100505221Y00	220	100	0.60	200
BBNQ00100505301Y00	300	100	0.80	200
BBNQ00100505471Y00	470	100	1.10	200
BBNQ00100505601Y00	600	100	1.20	200

Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
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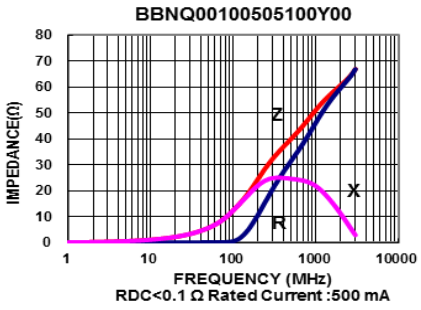

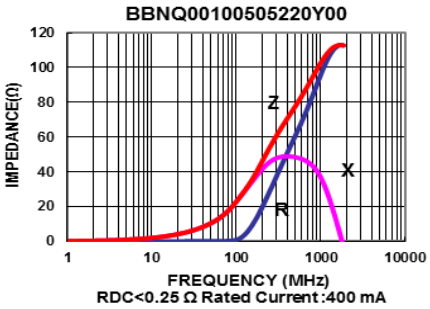

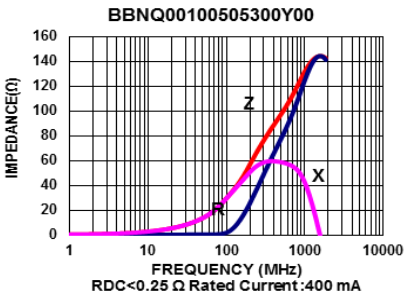

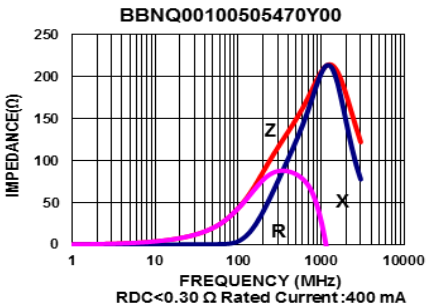

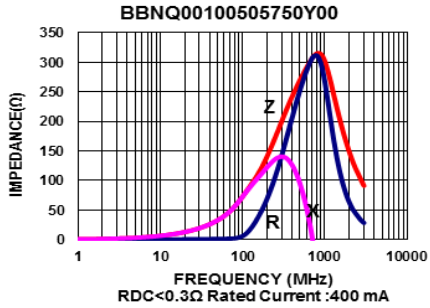

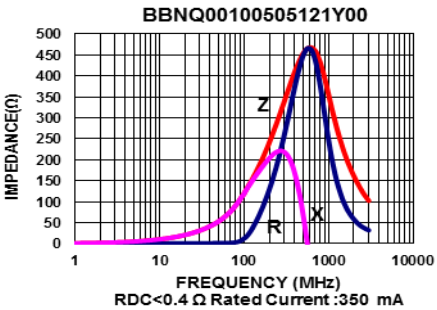

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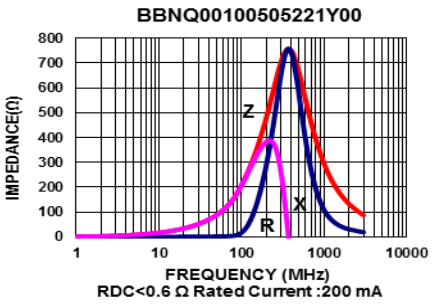

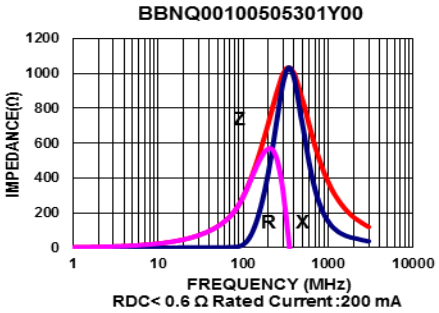

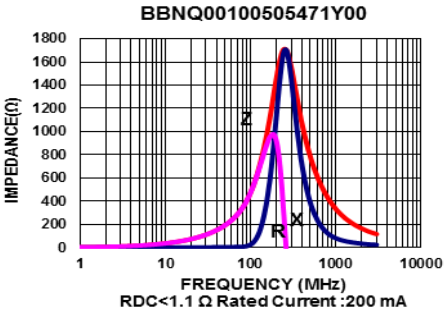

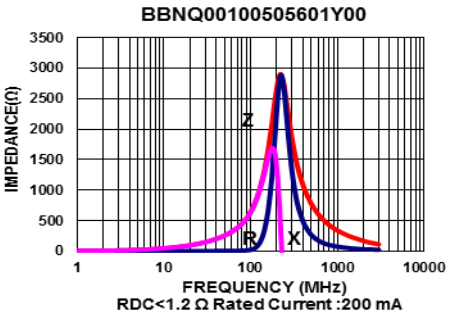

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Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	RDC (Ω) Max	Rated current (mA) Max
BBNQ00160808600Y00	60	100	0.25	500
BBNQ00160808750Y00	75	100	0.25	500
BBNQ00160808121Y00	120	100	0.30	400
BBNQ00160808241Y00	240	100	0.35	400
BBNQ00160808301Y00	300	100	0.40	400
BBNQ00160808601Y00	600	100	0.50	200
BBNQ00160808102Y00	1000	100	0.60	200
BBNQ00160808182Y00	1800	100	0.80	100
BBNQ00160808222Y00	2200	100	1.0	100
BBNQ00160808252Y00	2500	100	1.0	100

Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

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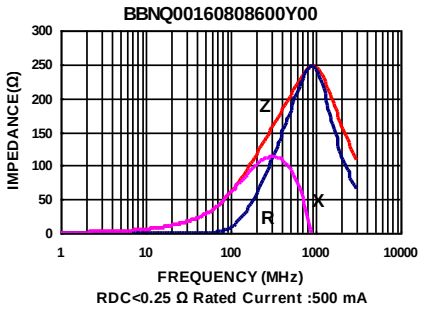

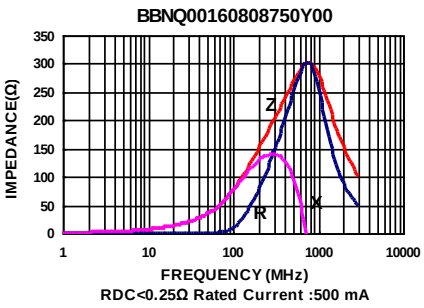

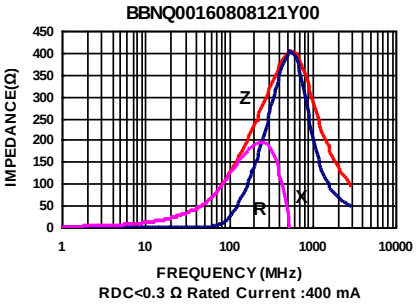

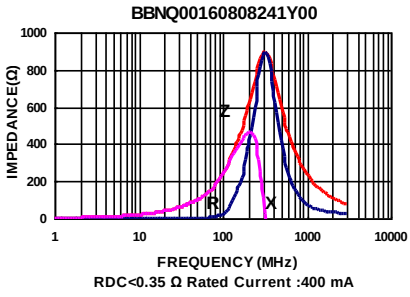

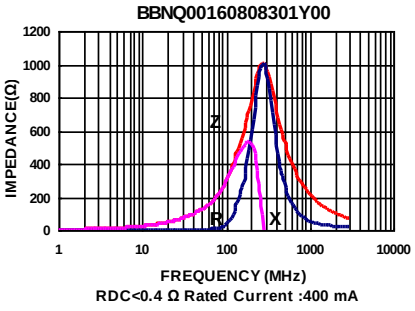

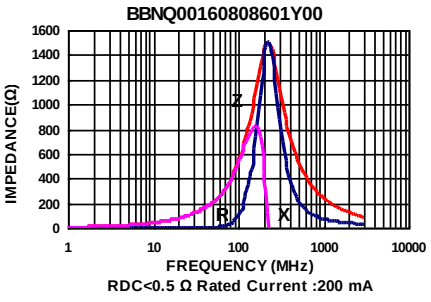

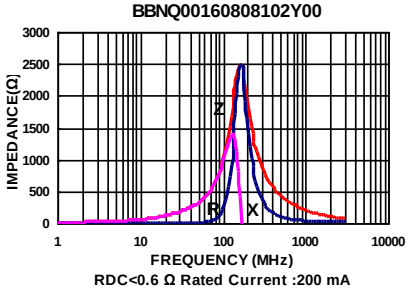

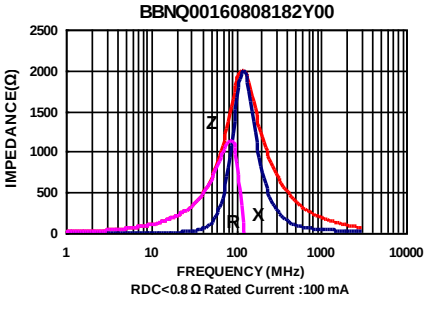

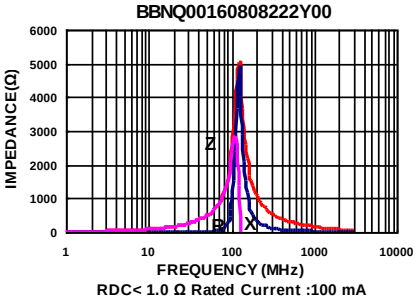

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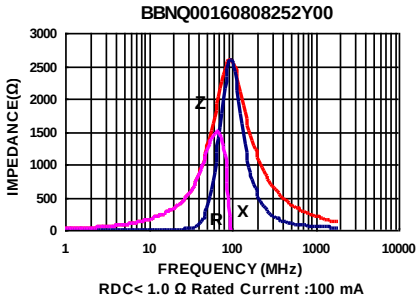
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Test Instruments：Agilent E4991A Impedance / Material Analyzer



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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	RDC (Ω) Max	Rated current (mA) Max
BBNQ00201209301Y00	300	100	0.3	500
BBNQ00201209601Y00	600	100	0.35	500
BBNQ00201209102Y00	1000	100	0.4	400

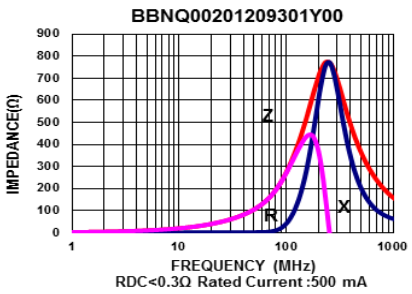
Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

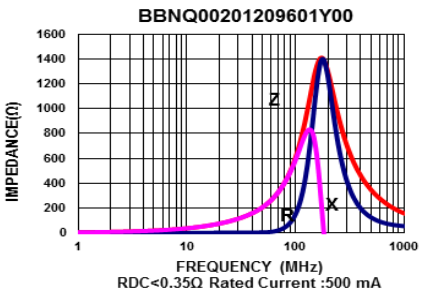
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

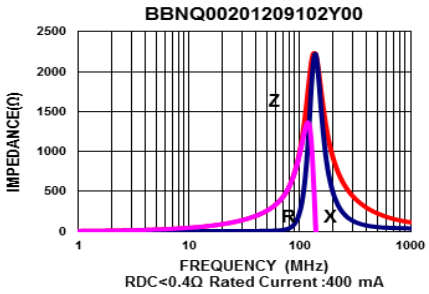
  Z：HP4291A

  RDC：HP4338B or CHEN HWA 502

Test Instruments：Agilent E4991A Impedance / Material Analyzer







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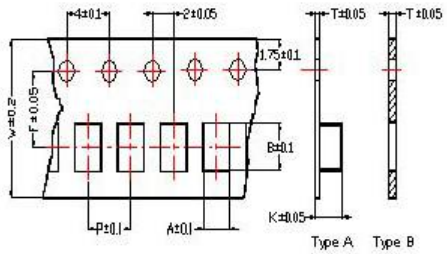
Pulse a YAGEO company

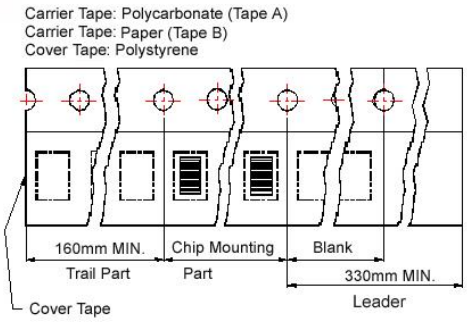
CHILISIN ELECTRONICS CORP.

Packaging Specifications

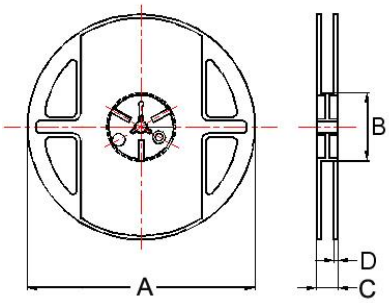
Tape Dimensions



Tape Material



Reel Dimensions



① : BBSY/BBSJ/BBNQ/BBPY ③ : BBUP
② : BBSY/BBSJ/BBNQ/BBPY/BBUP/BBFY/BBFJ
④ : BBBK/BBSJ/BBGK/BBPY/BBNQ/BBUP/BBHV
⑤ : BBBK/BBGK/BBPY/BBUP
⑥ : BBSY/BBBK/BBPY/BBUP
⑦ : BBPY/BBUP

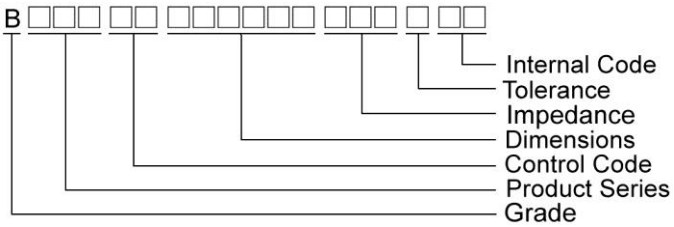
Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape	A	B	C	D	PCS / REEL
①060303	0.37	0.67	0.42	8.0	2.0	3.5	-	B	178	60	10	2	15000
②100505	0.62	1.12	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
③160805	1.05	1.85	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
④160808	1.05	1.85	0.95	8.0	4.0	3.5	-	B	178	60	12	2	4000
⑤201209	1.50	2.30	0.97	8.0	4.0	3.5	-	B	178	60	12	2	4000
⑥321611	1.88	3.50	0.22	8.0	4.0	3.5	1.27	A	178	60	12	2	3000
⑦453215	3.66	4.95	0.24	12	8.0	5.5	1.85	A	178	60	14	2	1000

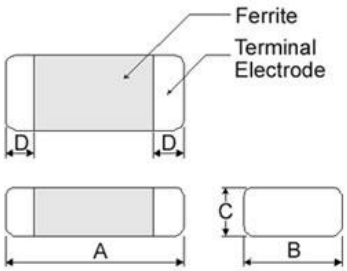
Multilayer Ferrite Chip Beads

Chilisin offers a wide range of multi-layered ferrite chip beads with various sizes, frequency characteristics, and impedance values for EMI solutions. These ferrite formulas are used to compose seven types of EMI suppression chip beads: BBSY, BBBK, BBSJ, BBGK, BBPY, BBUP, BBNQ, BBFY, BBFJ and BBHV series.

Product Identification



Shape and Dimensions

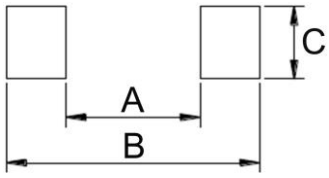


Dimensions in mm

TYPE	A	B	C	D
①060303	0.6±0.03	0.30±0.03	0.3±0.03	0.15±0.05
②100505	1.0±0.10	0.50±0.10	0.5±0.10	0.25±0.10
③160805	1.6±0.15	0.80±0.15	0.5±0.15	0.3±0.2
④160808	1.6±0.15	0.80±0.15	0.8±0.15	0.3±0.2
⑤201209	2.0±0.20	1.25±0.20	0.9±0.20	0.5±0.3
⑥321611	3.2±0.20	1.60±0.20	1.1±0.20	0.5±0.3
⑦453215	4.5±0.25	3.20±0.20	1.5±0.20	0.5±0.3

① : BBSY / BBSJ / BBNQ / BBPY
② : BBSY / BBSJ / BBNQ / BBPY / BBUP / BBFY / BBFJ
③ : BBUP ④ : BBBK / BBSJ / BBGK / BBPY / BBNQ / BBUP / BBHV
⑤ : BBBK / BBGK / BBPY / BBUP ⑥ : BBSY / BBBK / BBPY / BBUP
⑦ : BBPY / BBUP

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
①060303	0.2 ~ 0.3	0.75 ~ 1.05	0.3
②100505	0.4	1.2 ~ 1.4	0.5
③160805	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
④160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
⑤201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.4
⑥321611	2.0 ~ 2.4	4.2 ~ 5.2	1.3 ~ 1.9
⑦453215	3.0	5.5 ~ 6.5	2.4

∗ Don't apply narrower pattern than listed above to BBPY and BBUP Narrow pattern might cause excessive heat or open circuit.

Dimension Conversion

Code	Dimension in mm (AxBxC)	EIA
060303	0.6X0.3X0.3	0201
100505	1.0X0.5X0.5	0402
160805	1.6x0.8x0.5	0603
160808	1.6x0.8x0.8	0603
201209	2.0x1.2x0.9	0805
321611	3.2x1.6x.1.1	1206
453215	4.5x3.2x1.5	1812

Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	RDC (Ω) Max	Rated current (mA) Max
BBPY00060303100Y00	10	100	0.050	1000
BBPY00060303220Y00	22	100	0.065	1000
BBPY00060303330Y00	33	100	0.090	750
BBPY00060303470Y00	47	100	0.120	500
BBPY00060303800Y00	80	100	0.180	500
BBPY00060303121Y00	120	100	0.230	450
BBPY00060303241Y00	240	100	0.400	350
BBPY00060303331Y00	330	100	0.500	300

Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

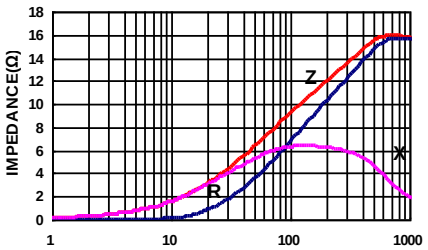
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

  Z：HP4291A

  RDC：HP4338B or CHEN HWA 502

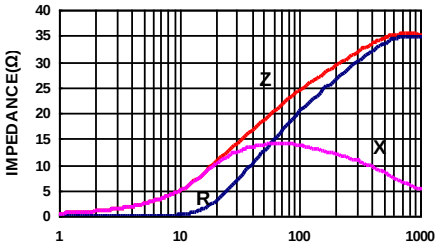
Test Instruments：Agilent E4991A Impedance / Material Analyzer

BBPY00060303100Y00



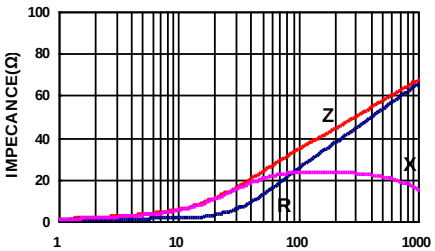
RDC<0.05 Ω Rated Current :1000 mA

BBPY00060303220Y00



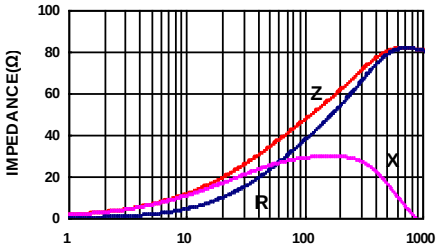
RDC<0.065 Ω Rated Current :1000 mA

BBPY00060303330Y00



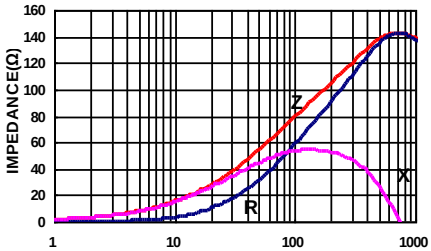
RDC<0.09 Ω Rated Current :750 mA

BBPY00060303470Y00



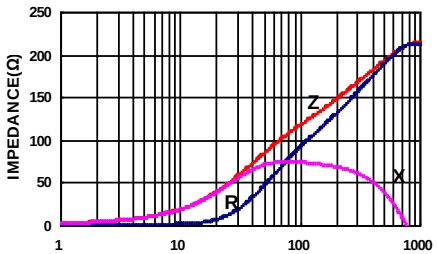
RDC<0.12 Ω Rated Current :500 mA

BBPY00060303800Y00



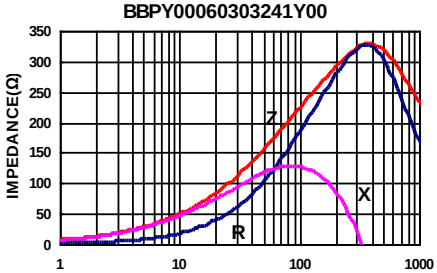
RDC<0.18 Ω Rated Current :500 mA

BBPY00060303121Y00



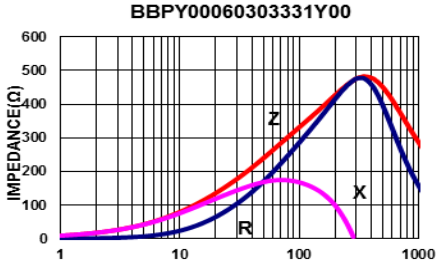
RDC<0.23 Ω Rated Current :450 mA

BBPY00060303241Y00



RDC<0.4 Ω Rated Current :350 mA

BBPY00060303331Y00



RDC<0.5 Ω Rated Current :300 mA

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Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	RDC (Ω) Max	Rated current (mA) Max
BBPY00100505100Y00	10	100	0.03	2000
BBPY00100505250Y00	25	100	0.05	1700
BBPY00100505300Y00	30	100	0.05	1700
BBPY00100505320Y00	32	100	0.05	1700
BBPY00100505400Y00	40	100	0.075	1500
BBPY00100505500Y00	50	100	0.075	1500
BBPY00100505600Y00	60	100	0.075	1500
BBPY00100505680Y00	68	100	0.09	1200
BBPY00100505700Y00	70	100	0.09	1200
BBPY00100505800Y00	80	100	0.09	1200
BBPY00100505101Y00	100	100	0.09	1200
BBPY00100505121Y00	120	100	0.09	1400
BBPY00100505151Y00	150	100	0.14	1400
BBPY00100505181Y00	180	100	0.14	900
BBPY00100505221Y00	220	100	0.18	1100
BBPY00100505601Y00	600	100	0.34	700
BBPY00100505102Y00	1000	100	0.49	500

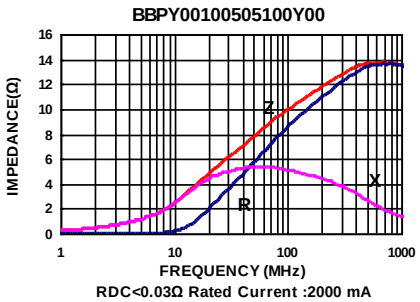
Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

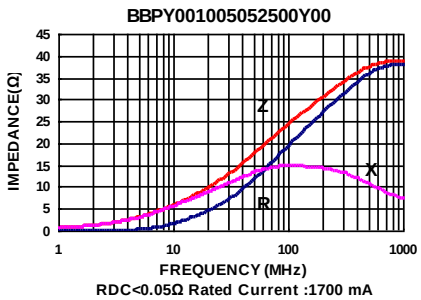
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

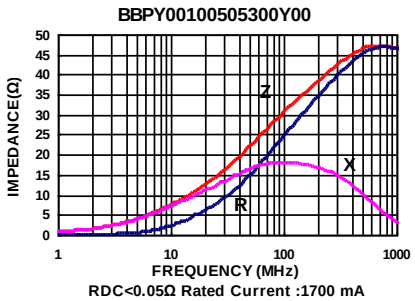
  Z：HP4291A

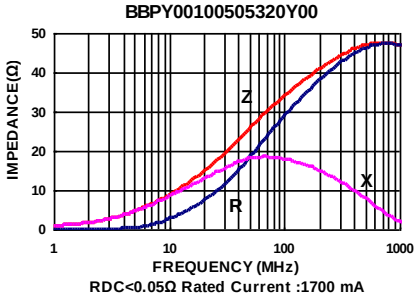
  RDC：HP4338B or CHEN HWA 502

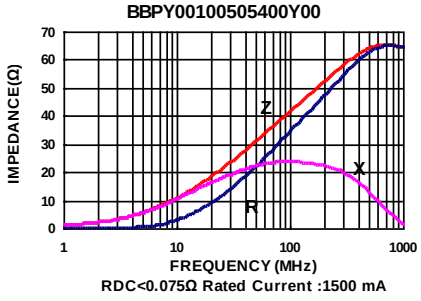
Test Instruments：Agilent E4991A Impedance / Material Analyzer

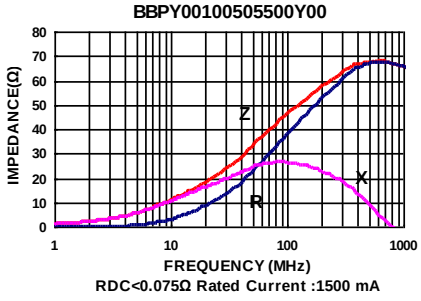












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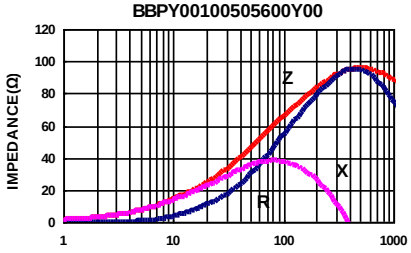
CHILISIN ELECTRONICS CORP.

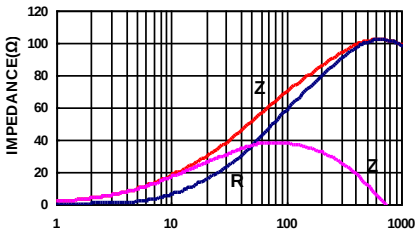
Test Instruments：Agilent E4991A Impedance / Material Analyzer

BBPY00100505600Y00



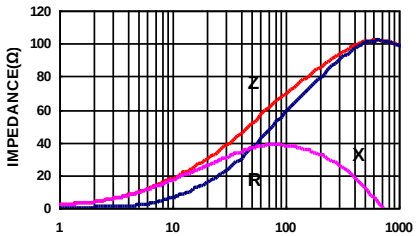
RDC<0.075Ω Rated Current :1500 mA

BBPY00100505680Y00



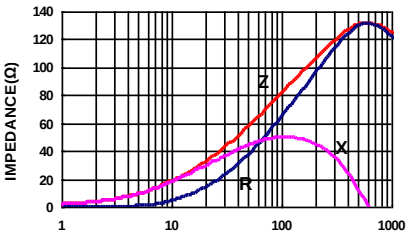
RDC<0.09Ω Rated Current :1200 mA

BBPY00100505700Y00



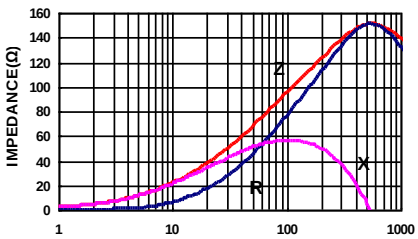
RDC<0.09Ω Rated Current :1200 mA

BBPY00100505800Y00



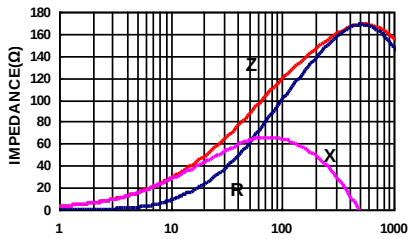
RDC<0.09Ω Rated Current :1200 mA

BBPY00100505101Y00



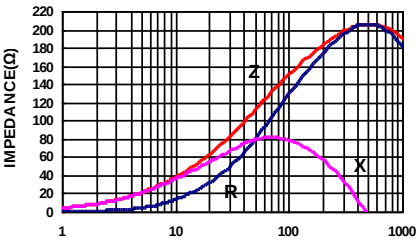
RDC<0.09Ω Rated Current :1200 mA

BBPY00100505121Y00



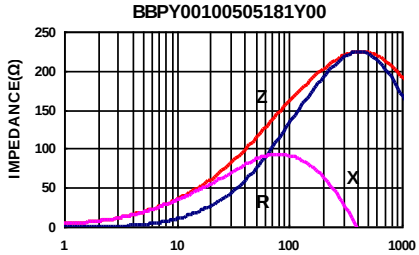
RDC<0.09Ω Rated Current :1400mA

BBPY00100505151Y00



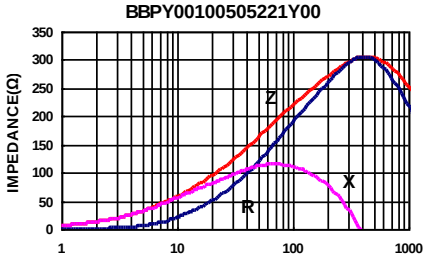
RDC<0.14Ω Rated Current :1400mA

BBPY00100505181Y00



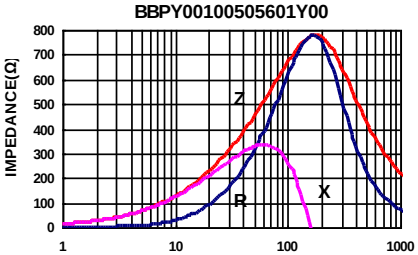
RDC<0.14Ω Rated Current :900 mA

BBPY00100505221Y00



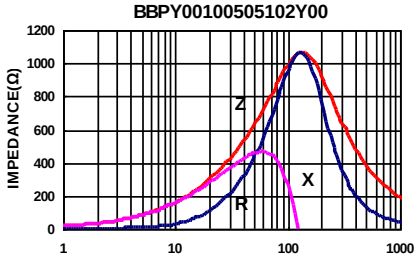
RDC<0.18Ω Rated Current :1100mA

BBPY00100505601Y00



RDC<0.34Ω Rated Current :700 mA

BBPY00100505102Y00



RDC<0.49Ω Rated Current :500 mA

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	RDC (Ω) Max	Rated current (mA) Max
BBPY00160808100Y00	10	100	0.020	4000
BBPY00160808110Y00	11	100	0.020	4000
BBPY00160808190Y00	19	100	0.03	3000
BBPY00160808220Y00	22	100	0.030	3000
BBPY00160808250Y00	25	100	0.03	3000
BBPY00160808260Y00	26	100	0.03	3000
BBPY00160808300Y00	30	100	0.030	3000
BBPY00160808330Y00	33	100	0.035	3000
BBPY00160808400Y00	40	100	0.035	3000
BBPY00160808470Y00	47	100	0.04	3000
BBPY00160808500Y00	50	100	0.04	3000
BBPY00160808600Y00	60	100	0.040	3000
BBPY00160808680Y00	68	100	0.05	2500
BBPY00160808700Y00	70	100	0.05	2500
BBPY00160808750Y00	75	100	0.05	2500
BBPY00160808800Y00	80	100	0.050	2500
BBPY00160808101Y00	100	100	0.050	2500
BBPY00160808121Y00	120	100	0.080	2500
BBPY00160808151Y00	150	100	0.085	2000
BBPY00160808181Y00	180	100	0.090	2000
BBPY00160808201Y00	200	100	0.095	2000
BBPY00160808221Y00	220	100	0.100	2000
BBPY00160808241Y00	240	100	0.12	1500
BBPY00160808301Y00	300	100	0.120	1500
BBPY00160808331Y00	330	100	0.120	1500
BBPY00160808471Y00	470	100	0.150	1500
BBPY00160808601Y00	600	100	0.200	1000
BBPY00160808102Y00	1000	100	0.250	800
BBPY00160808122Y00	1200	100	0.250	800
BBPY00160808152Y00	1500	100	0.400	500

Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

  Z：HP4291A

  RDC：HP4338B or CHEN HWA 502

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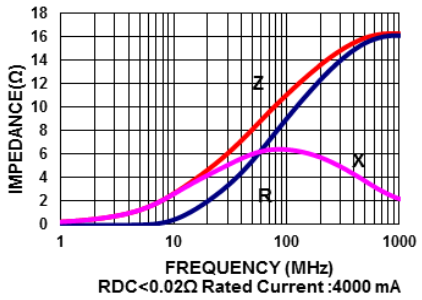
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

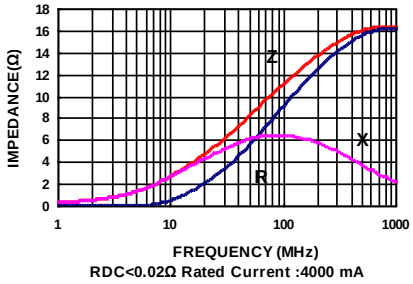
Test Instruments：Agilent E4991A Impedance / Material Analyzer

BBPY00160808100Y00



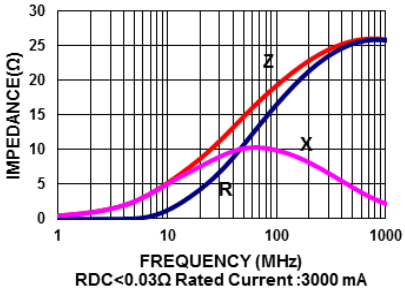
RDC<0.02Ω Rated Current :4000 mA

BBPY00160808110Y00



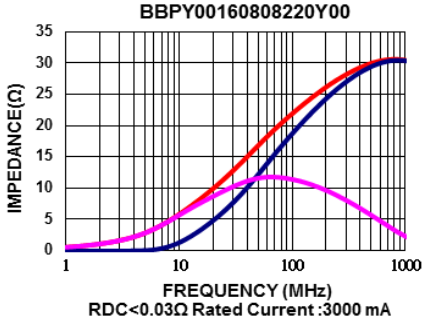
RDC<0.02Ω Rated Current :4000 mA

BBPY00160808190Y00



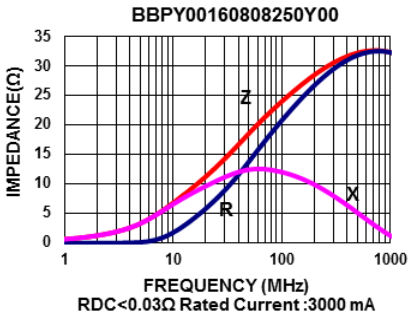
RDC<0.03Ω Rated Current :3000 mA

BBPY00160808220Y00



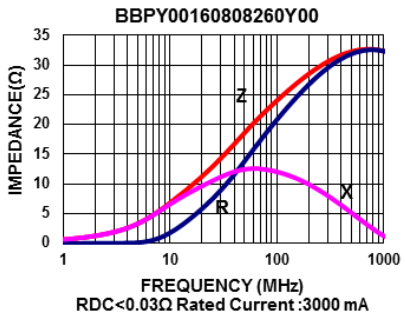
RDC<0.03Ω Rated Current :3000 mA

BBPY00160808250Y00



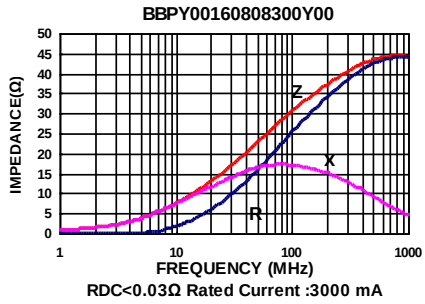
RDC<0.03Ω Rated Current :3000 mA

BBPY00160808260Y00



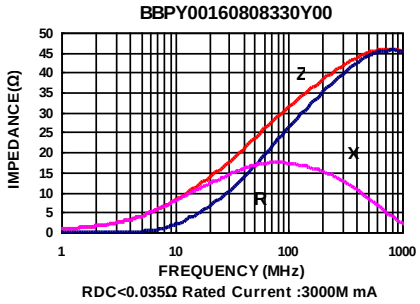
RDC<0.03Ω Rated Current :3000 mA

BBPY00160808300Y00



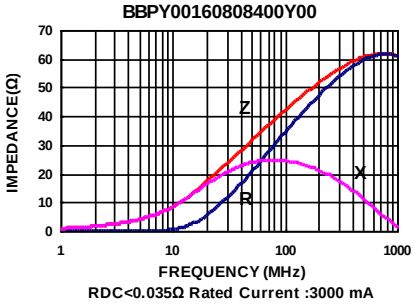
RDC<0.03Ω Rated Current :3000 mA

BBPY00160808330Y00



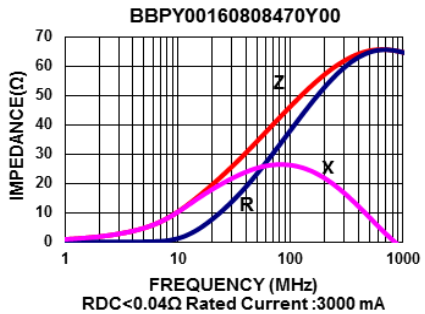
RDC<0.035Ω Rated Current :3000M mA

BBPY00160808400Y00



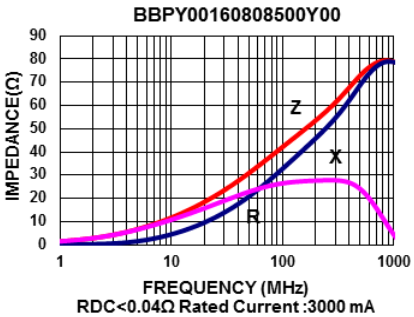
RDC<0.035Ω Rated Current :3000 mA

BBPY00160808470Y00



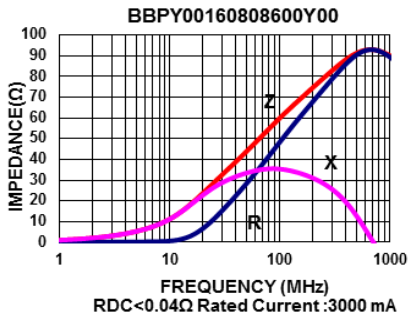
RDC<0.04Ω Rated Current :3000 mA

BBPY00160808500Y00



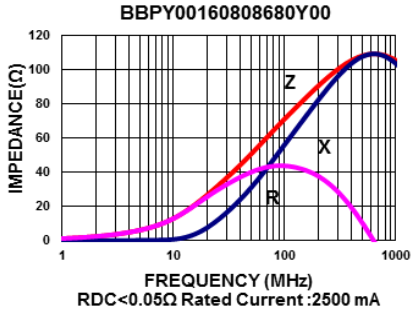
RDC<0.04Ω Rated Current :3000 mA

BBPY00160808600Y00



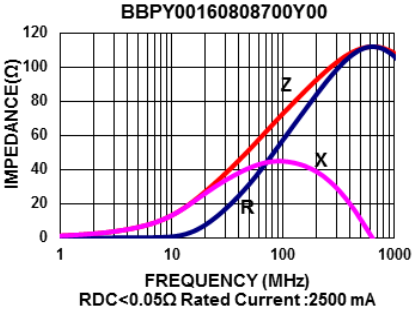
RDC<0.04Ω Rated Current :3000 mA

BBPY00160808680Y00



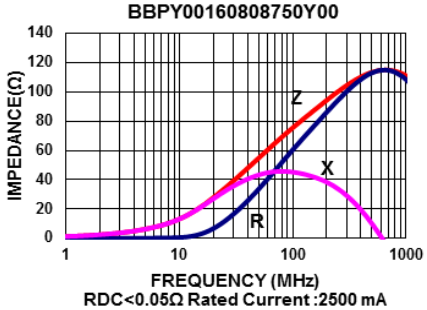
RDC<0.05Ω Rated Current :2500 mA

BBPY00160808700Y00



RDC<0.05Ω Rated Current :2500 mA

BBPY00160808750Y00



RDC<0.05Ω Rated Current :2500 mA

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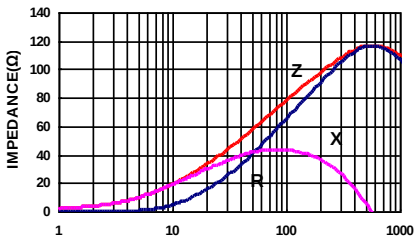
CHILISIN ELECTRONICS CORP.

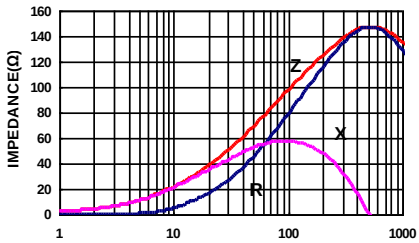
Test Instruments：Agilent E4991A Impedance / Material Analyzer

BBPY00160808800Y00



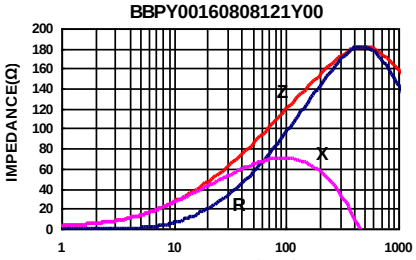
RDC<0.05Ω Rated Current :2500 mA

BBPY00160808101Y00



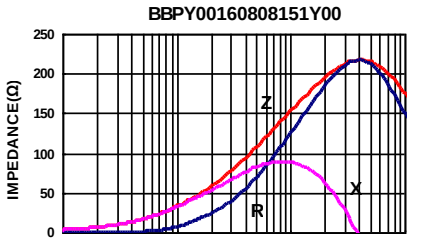
RDC<0.05Ω Rated Current :2500 mA

BBPY00160808121Y00



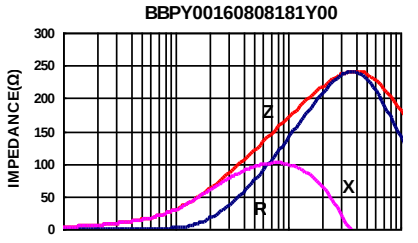
RDC<0.08Ω Rated Current :2500 mA

BBPY00160808151Y00



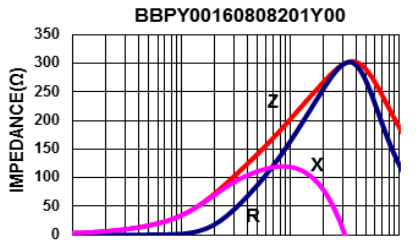
RDC<0.085Ω Rated Current :2000 mA

BBPY00160808181Y00



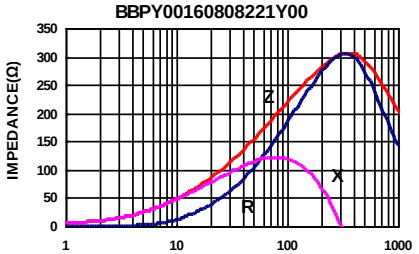
RDC<0.09Ω Rated Current :2000 mA

BBPY00160808201Y00



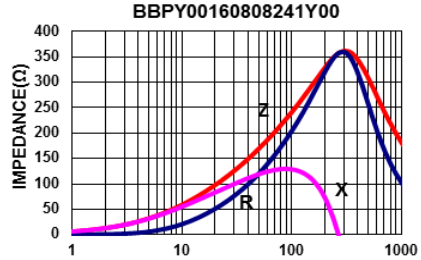
RDC<0.095Ω Rated Current :2000 mA

BBPY00160808221Y00



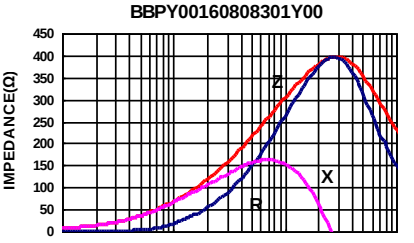
RDC<0.10Ω Rated Current :2000 mA

BBPY00160808241Y00



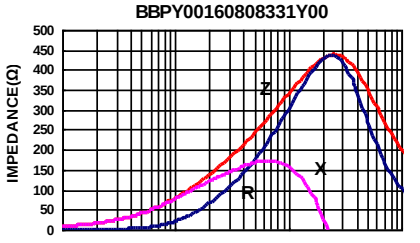
RDC<0.12Ω Rated Current :1500 mA

BBPY00160808301Y00



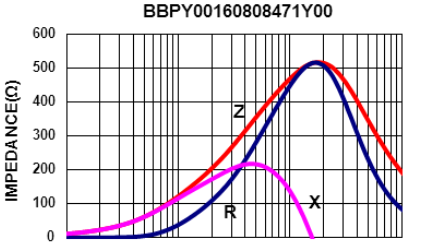
RDC<0.12Ω Rated Current :1500 mA

BBPY00160808331Y00



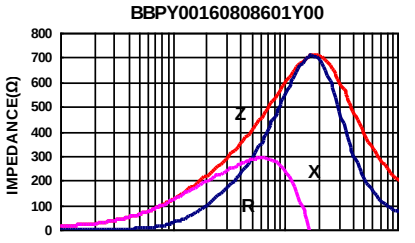
RDC<0.12Ω Rated Current :1500 mA

BBPY00160808471Y00



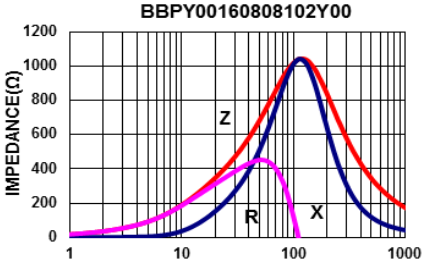
RDC<0.15Ω Rated Current :1200 mA

BBPY00160808601Y00



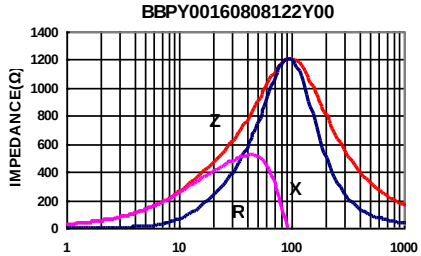
RDC<0.2Ω Rated Current :1000 mA

BBPY00160808102Y00



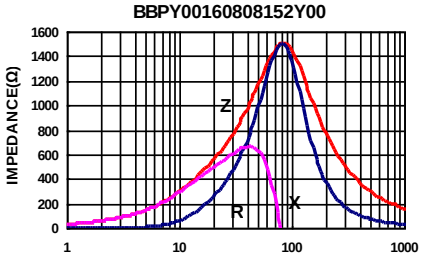
RDC<0.25Ω Rated Current :800 mA

BBPY00160808122Y00



RDC<0.25Ω Rated Current :800 mA

BBPY00160808152Y00



RDC<0.4Ω Rated Current :500 mA

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	RDC (Ω) Max	Rated current (mA) Max
BBPY00201209100Y00	10	100	0.01	6000
BBPY00201209110Y00	11	100	0.01	6000
BBPY00201209170Y00	17	100	0.02	5000
BBPY00201209300Y00	30	100	0.015	4000
BBPY00201209500Y00	50	100	0.025	3000
BBPY00201209600Y00	60	100	0.03	3000
BBPY00201209700Y00	70	100	0.04	3000
BBPY00201209800Y00	80	100	0.04	3000
BBPY00201209101Y00	100	100	0.04	3000
BBPY00201209121Y00	120	100	0.04	3000
BBPY00201209221Y00	220	100	0.08	2000
BBPY00201209301Y00	300	100	0.08	2000
BBPY00201209331Y00	330	100	0.08	2000
BBPY00201209471Y00	470	100	0.10	2000
BBPY00201209601Y00	600	100	0.10	2000
BBPY00201209102Y00	1000	100	0.12	1500
BBPY00201209152Y00	1500	100	0.30	1000

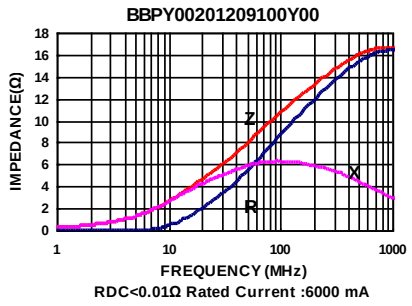
Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

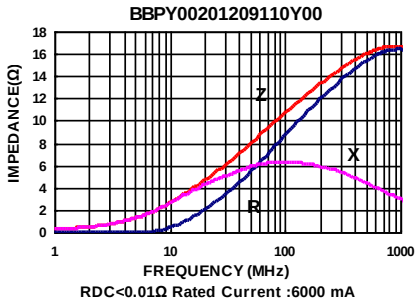
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

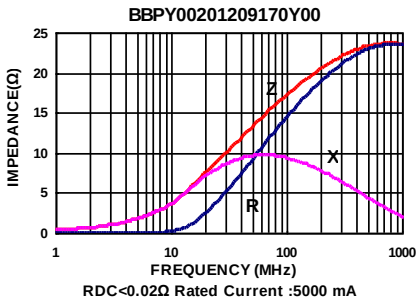
  Z：HP4291A

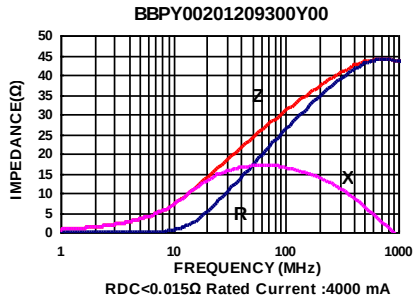
  RDC：HP4338B or CHEN HWA 502

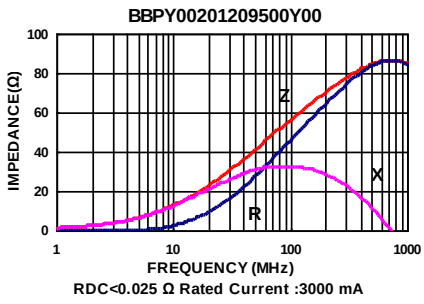
Test Instruments： Agilent E4991A Impedance / Material Analyzer

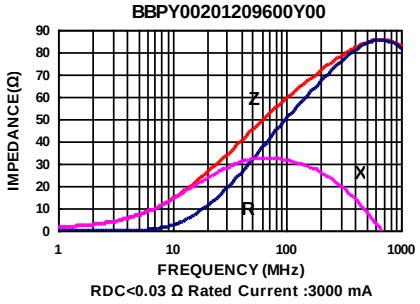












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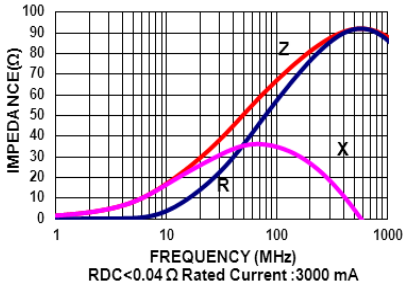
CHILISIN ELECTRONICS CORP.

Test Instruments： Agilent E4991A Impedance / Material Analyzer

BBPY00201209700Y00



RDC<0.04 Ω Rated Current :3000 mA

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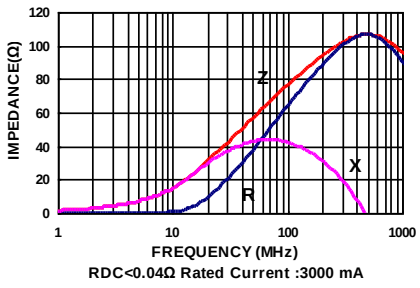

RDC<0.04Ω Rated Current :3000 mA

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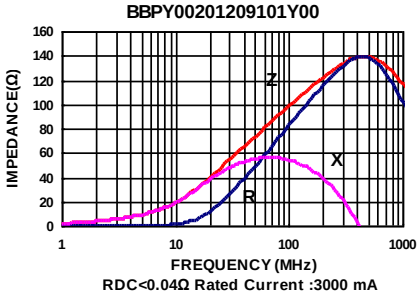

RDC<0.04Ω Rated Current :3000 mA

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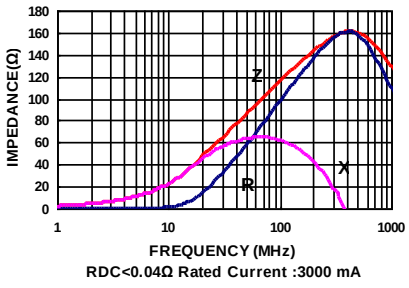

RDC<0.04Ω Rated Current :3000 mA

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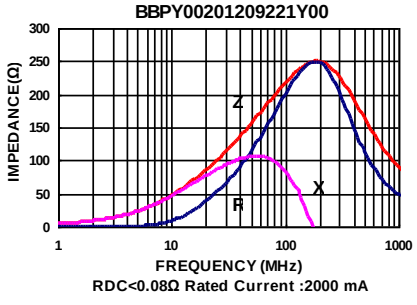

RDC<0.08Ω Rated Current :2000 mA

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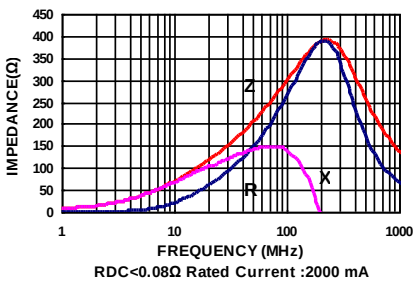

RDC<0.08Ω Rated Current :2000 mA

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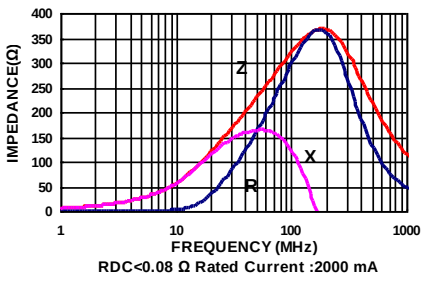

RDC<0.08 Ω Rated Current :2000 mA

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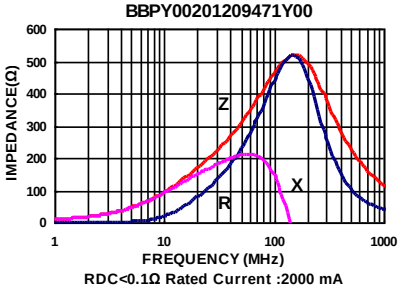

RDC<0.1Ω Rated Current :2000 mA

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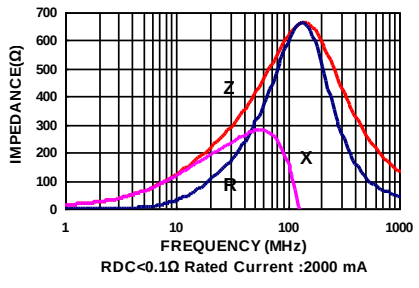

RDC<0.1Ω Rated Current :2000 mA

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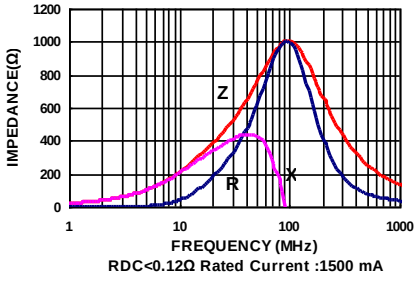
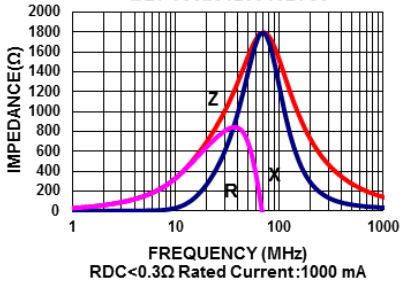


RDC<0.12Ω Rated Current :1500 mA

BBPY00201209152Y00



RDC<0.3Ω Rated Current:1000 mA

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	RDC (Ω) Max	Rated current (mA) Max
BBPY00321611100Y00	10	100	0.015	6000
BBPY00321611110Y00	11	100	0.015	6000
BBPY00321611300Y00	30	100	0.015	4000
BBPY00321611320Y00	32	100	0.015	4000
BBPY00321611330Y00	33	100	0.015	4000
BBPY00321611400Y00	40	100	0.015	4000
BBPY00321611500Y00	50	100	0.02	4000
BBPY00321611600Y00	60	100	0.02	4000
BBPY00321611700Y00	70	100	0.02	4000
BBPY00321611800Y00	80	100	0.025	3000
BBPY00321611101Y00	100	100	0.03	3000
BBPY00321611121Y00	120	100	0.03	3000
BBPY00321611151Y00	150	100	0.04	2000
BBPY00321611201Y00	200	100	0.05	2000
BBPY00321611221Y00	220	100	0.05	2000
BBPY00321611301Y00	300	100	0.06	2000
BBPY00321611331Y00	330	100	0.06	2000
BBPY00321611391Y00	390	100	0.06	2000
BBPY00321611401Y00	400	100	0.1	2000
BBPY00321611471Y00	470	100	0.1	2000
BBPY00321611501Y00	500	100	0.1	2000
BBPY00321611601Y00	600	100	0.1	2000
BBPY00321611102Y00	1000	50	0.15	1200
BBPY00321611122Y00	1200	50	0.18	1000
BBPY00321611152Y00	1500	50	0.2	800

Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

  Z：HP4291A

  RDC：HP4338B or CHEN HWA 502

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CHILISIN ELECTRONICS CORP.

Test Instruments：Agilent E4991A Impedance / Material Analyzer

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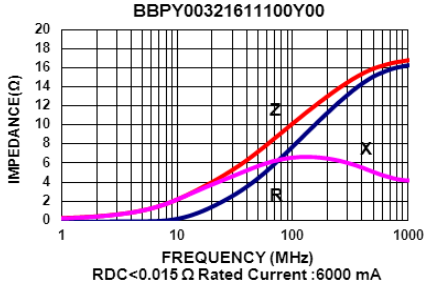
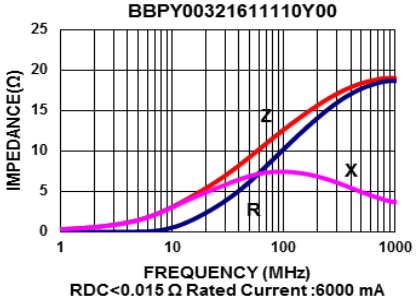


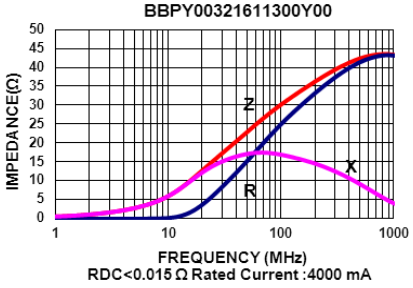
RDC<0.015 Ω Rated Current :6000 mA

BBPY00321611110Y00



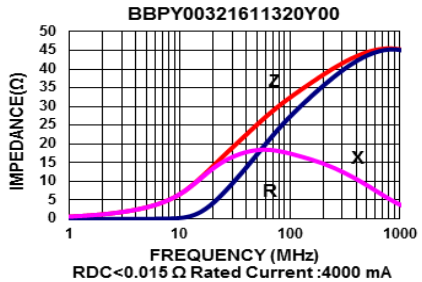
RDC<0.015 Ω Rated Current :6000 mA

BBPY00321611300Y00



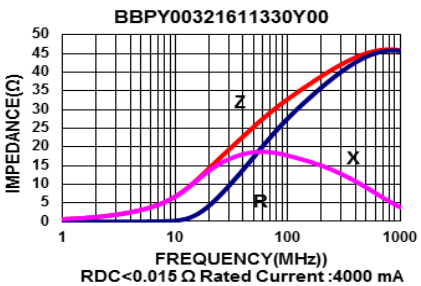
RDC<0.015 Ω Rated Current :4000 mA

BBPY00321611320Y00



RDC<0.015 Ω Rated Current :4000 mA

BBPY00321611330Y00



RDC<0.015 Ω Rated Current :4000 mA

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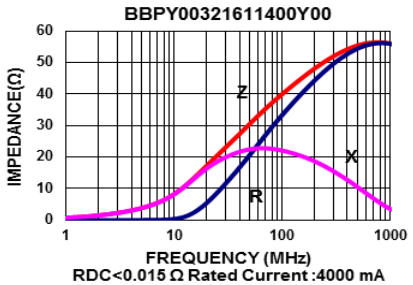
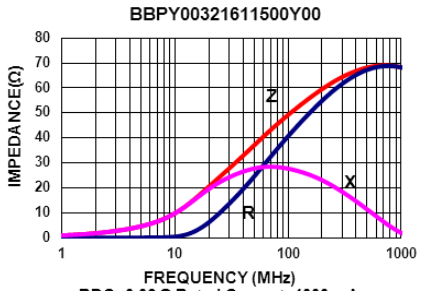


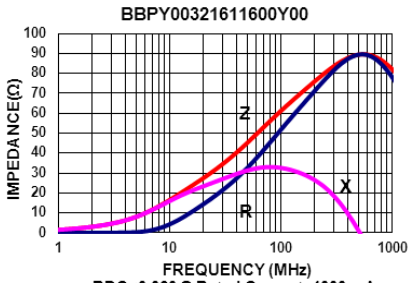
RDC<0.015 Ω Rated Current :4000 mA

BBPY00321611500Y00



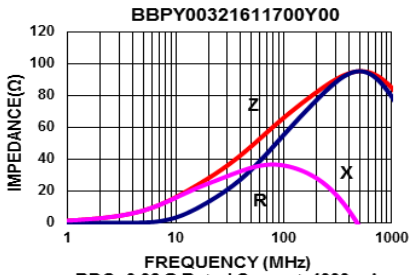
RDC<0.02 Ω Rated Current :4000 mA

BBPY00321611600Y00



RDC<0.020 Ω Rated Current :4000 mA

BBPY00321611700Y00



RDC<0.02 Ω Rated Current :4000 mA

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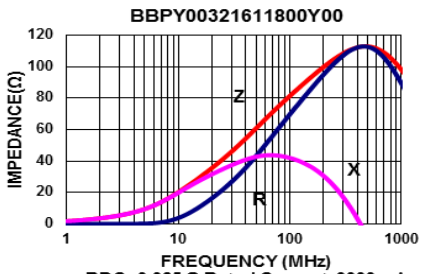

RDC<0.025 Ω Rated Current :3000 mA

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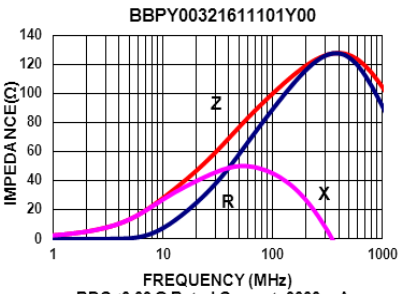
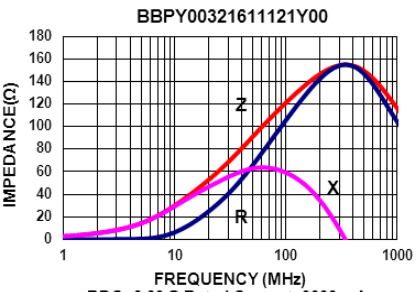


RDC<0.03 Ω Rated Current :3000 mA

BBPY00321611121Y00



RDC<0.03 Ω Rated Current :3000 mA

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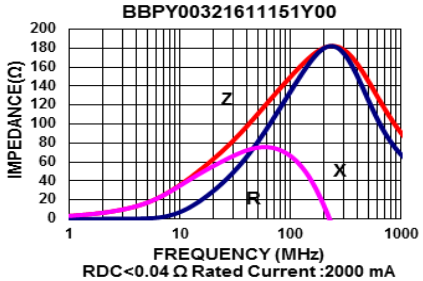
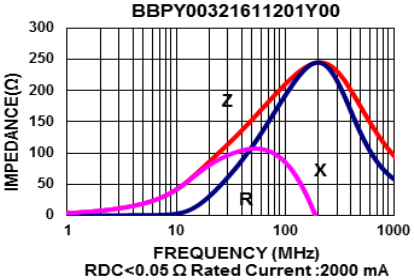


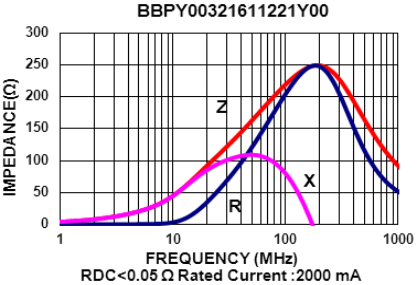
RDC<0.04 Ω Rated Current :2000 mA

BBPY00321611201Y00



RDC<0.05 Ω Rated Current :2000 mA

BBPY00321611221Y00



RDC<0.05 Ω Rated Current :2000 mA

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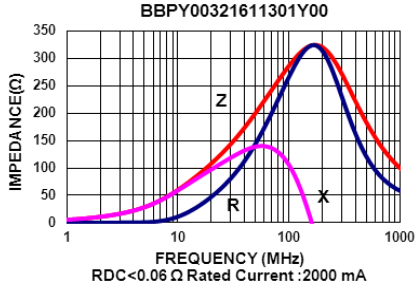
CHILISIN ELECTRONICS CORP.

Test Instruments：Agilent E4991A Impedance / Material Analyzer

BBPY00321611301Y00



RDC<0.06 Ω Rated Current :2000 mA

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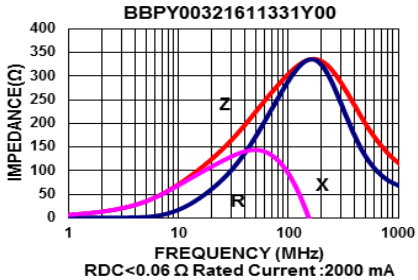

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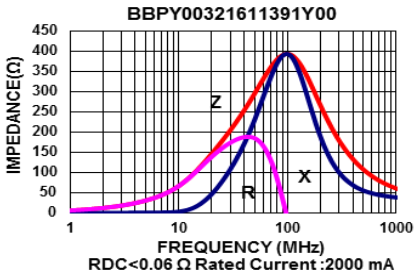

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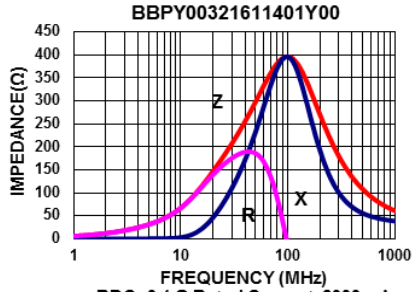

RDC<0.1 Ω Rated Current :2000 mA

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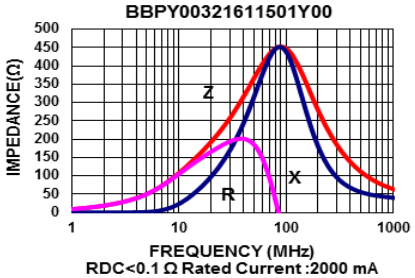

RDC<0.1 Ω Rated Current :2000 mA

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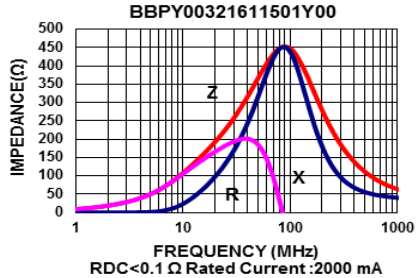

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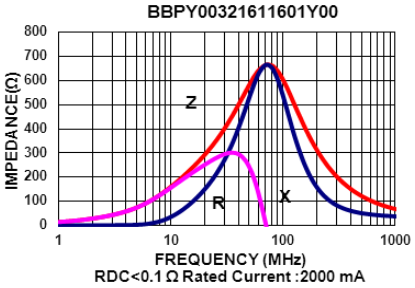
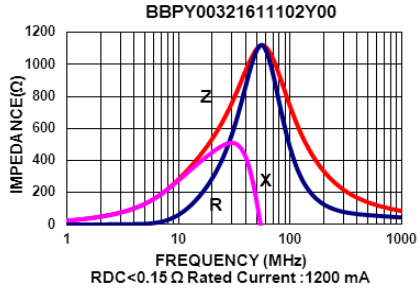


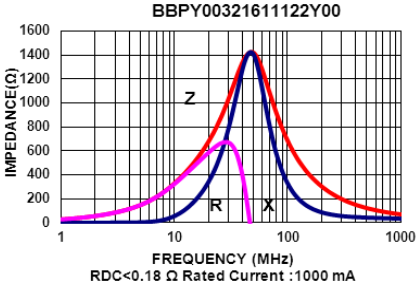
RDC<0.1 Ω Rated Current :2000 mA

BBPY00321611102Y00



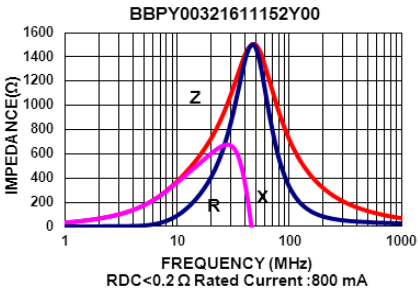
RDC<0.15 Ω Rated Current :1200 mA

BBPY00321611122Y00



RDC<0.18 Ω Rated Current :1000 mA

BBPY00321611152Y00



RDC<0.2 Ω Rated Current :800 mA

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	DC Resistance (Ω) Max	Rated current (mA) Max
BBPY00453215700Y00	70	100	0.030	6000
BBPY00453215121Y00	120	100	0.030	4000

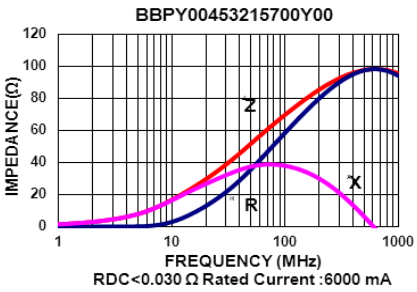
Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

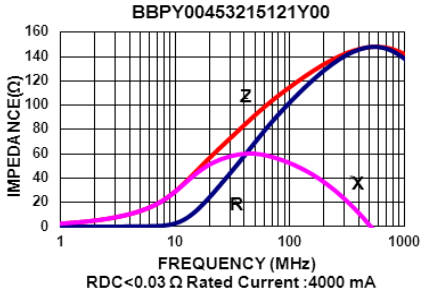
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

  Z：HP4291A

  RDC：HP4338B or CHEN HWA 502

Test Instruments：Agilent E4991A Impedance / Material Analyzer





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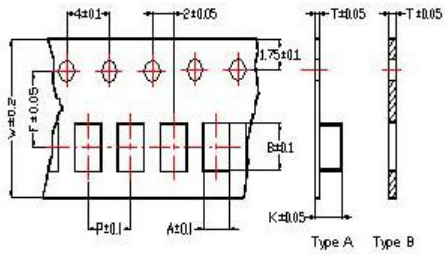
Pulse a YAGEO company

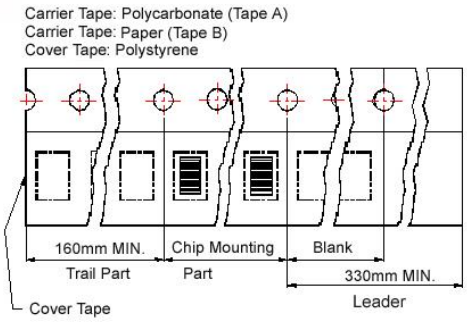
CHILISIN ELECTRONICS CORP.

Packaging Specifications

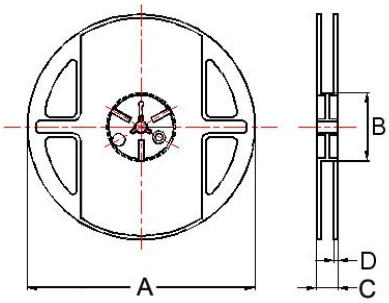
Tape Dimensions



Tape Material



Reel Dimensions



① : BBSY/BBSJ/BBNQ/BBPY ③ : BBUP
② : BBSY/BBSJ/BBNQ/BBPY/BBUP/BBFY/BBFJ
④ : BBBK/BBSJ/BBGK/BBPY/BBNQ/BBUP/BBHV
⑤ : BBBK/BBGK/BBPY/BBUP
⑥ : BBSY/BBBK/BBPY/BBUP
⑦ : BBPY/BBUP

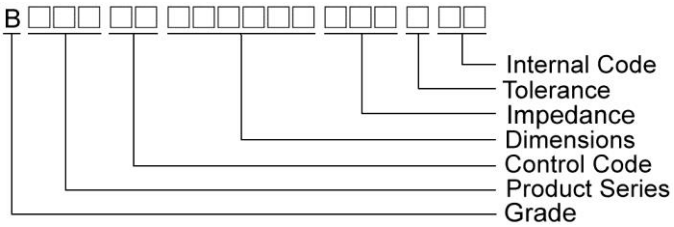
Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape	A	B	C	D	PCS / REEL
①060303	0.37	0.67	0.42	8.0	2.0	3.5	-	B	178	60	10	2	15000
②100505	0.62	1.12	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
③160805	1.05	1.85	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
④160808	1.05	1.85	0.95	8.0	4.0	3.5	-	B	178	60	12	2	4000
⑤201209	1.50	2.30	0.97	8.0	4.0	3.5	-	B	178	60	12	2	4000
⑥321611	1.88	3.50	0.22	8.0	4.0	3.5	1.27	A	178	60	12	2	3000
⑦453215	3.66	4.95	0.24	12	8.0	5.5	1.85	A	178	60	14	2	1000

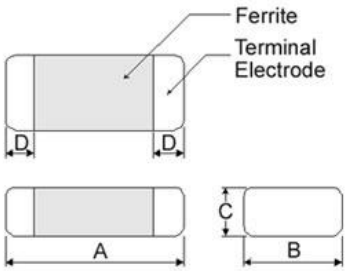
Multilayer Ferrite Chip Beads

Chilisin offers a wide range of multi-layered ferrite chip beads with various sizes, frequency characteristics, and impedance values for EMI solutions. These ferrite formulas are used to compose seven types of EMI suppression chip beads: BBSY, BBBK, BBSJ, BBGK, BBPY, BBUP, BBNQ, BBFY, BBFJ and BBHV series.

Product Identification



Shape and Dimensions

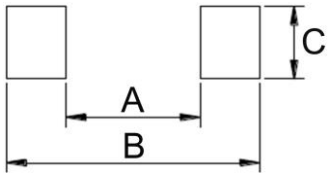


Dimensions in mm

TYPE	A	B	C	D
①060303	0.6±0.03	0.30±0.03	0.3±0.03	0.15±0.05
②100505	1.0±0.10	0.50±0.10	0.5±0.10	0.25±0.10
③160805	1.6±0.15	0.80±0.15	0.5±0.15	0.3±0.2
④160808	1.6±0.15	0.80±0.15	0.8±0.15	0.3±0.2
⑤201209	2.0±0.20	1.25±0.20	0.9±0.20	0.5±0.3
⑥321611	3.2±0.20	1.60±0.20	1.1±0.20	0.5±0.3
⑦453215	4.5±0.25	3.20±0.20	1.5±0.20	0.5±0.3

① : BBSY / BBSJ / BBNQ / BBPY
② : BBSY / BBSJ / BBNQ / BBPY / BBUP / BBFY / BBFJ
③ : BBUP ④ : BBBK / BBSJ / BBGK / BBPY / BBNQ / BBUP / BBHV
⑤ : BBBK / BBGK / BBPY / BBUP ⑥ : BBSY / BBBK / BBPY / BBUP
⑦ : BBPY / BBUP

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
①060303	0.2 ~ 0.3	0.75 ~ 1.05	0.3
②100505	0.4	1.2 ~ 1.4	0.5
③160805	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
④160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
⑤201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.4
⑥321611	2.0 ~ 2.4	4.2 ~ 5.2	1.3 ~ 1.9
⑦453215	3.0	5.5 ~ 6.5	2.4

∗ Don't apply narrower pattern than listed above to BBPY and BBUP Narrow pattern might cause excessive heat or open circuit.

Dimension Conversion

Code	Dimension in mm (AxBxC)	EIA
060303	0.6X0.3X0.3	0201
100505	1.0X0.5X0.5	0402
160805	1.6x0.8x0.5	0603
160808	1.6x0.8x0.8	0603
201209	2.0x1.2x0.9	0805
321611	3.2x1.6x.1.1	1206
453215	4.5x3.2x1.5	1812

Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	RDC (Ω) Max	Rated current (mA) Max
BBHV00160808100Y00	10	100	0.010	6000
BBHV00160808300Y00	30	100	0.015	4000
BBHV00160808600Y00	60	100	0.030	3000
BBHV00160808121Y00	120	100	0.040	3000
BBHV00160808201Y00	200	100	0.050	2500
BBHV00160808221Y00	220	100	0.080	2000
BBHV00160808301Y00	300	100	0.080	2000
BBHV00160808331Y00	330	100	0.080	2000
BBHV00160808471Y00	470	100	0.100	2000
BBHV00160808601Y00	600	100	0.100	2000

Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

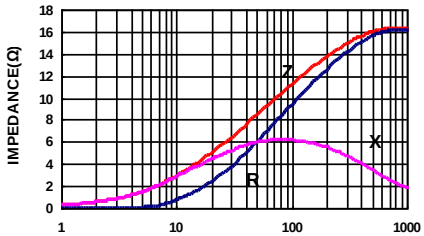
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

  Z：HP4291A

  RDC：HP4338B or CHEN HWA 502

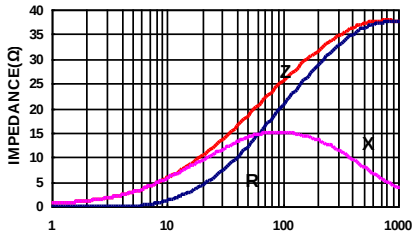
Test Instruments： Agilent E4991A Impedance / Material Analyzer

BBHV00160808100Y00



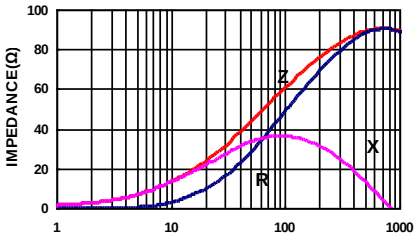
RDC<0.010 Ω Rated Current :6000 mA

BBHV00160808300Y00



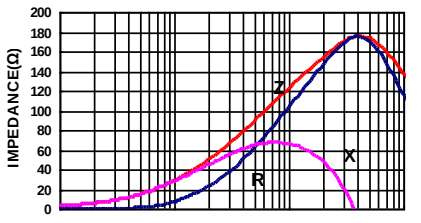
RDC<0.015 Ω Rated Current :4000 mA

BBHV00160808600Y00



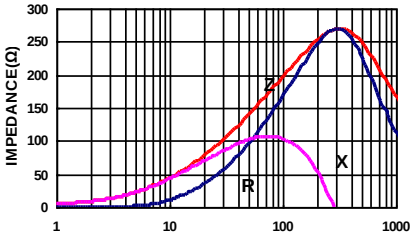
RDC<0.030 Ω Rated Current :3000 mA

BBHV00160808121Y00



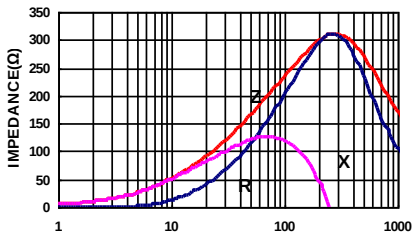
RDC<0.040 Ω Rated Current :3000 mA

BBHV00160808201Y00



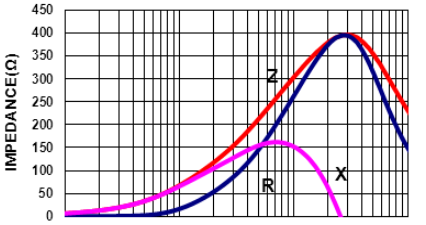
RDC<0.050 Ω Rated Current :2500 mA

BBHV00160808221Y00



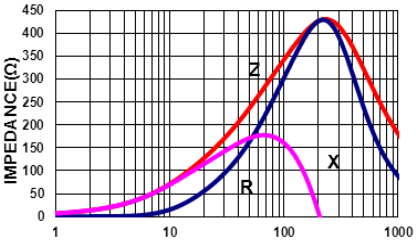
RDC<0.080 Ω Rated Current :2000 mA

BBHV00160808301Y00



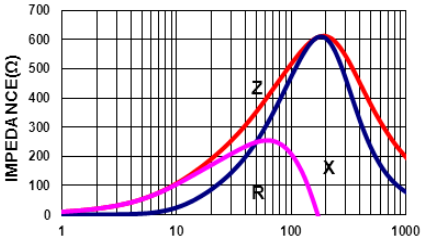
RDC<0.080 Ω Rated Current :2000 mA

BBHV00160808331Y00



RDC<0.080 Ω Rated Current :2000 mA

BBHV00160808471Y00



RDC<0.1000Ω Rated Current :2000 mA

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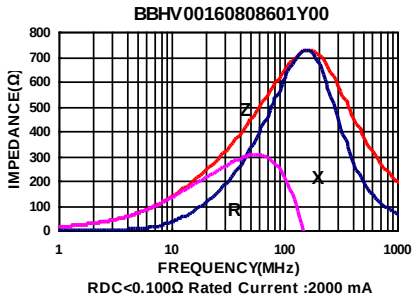
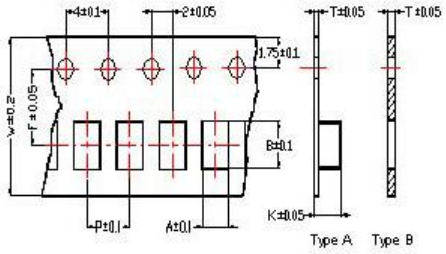
Test Instruments：Agilent E4991A Impedance / Material Analyzer

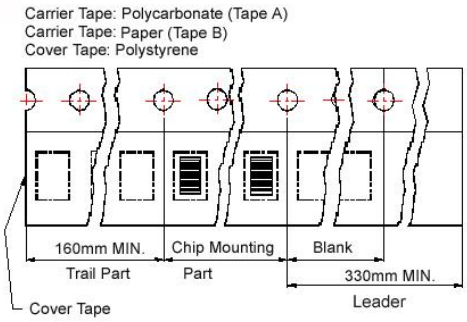


Packaging Specifications

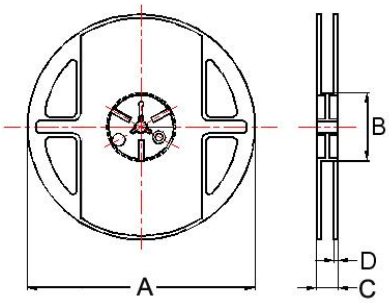
Tape Dimensions



Tape Material



Reel Dimensions



①：BBSY/BBSJ/BBNQ/BBPY ③：BBUP
②：BBSY/BBSJ/BBNQ/BBPY/BBUP/BBFY/BBFJ
④：BBBK/BBSJ/BBGK/BBPY/BBNQ/BBUP/BBHV
⑤：BBBK/BBGK/BBPY/BBUP
⑥：BBSY/BBBK/BBPY/BBUP
⑦：BBPY/BBUP

Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape	A	B	C	D	PCS / REEL
①060303	0.37	0.67	0.42	8.0	2.0	3.5	-	B	178	60	10	2	15000
②100505	0.62	1.12	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
③160805	1.05	1.85	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
④160808	1.05	1.85	0.95	8.0	4.0	3.5	-	B	178	60	12	2	4000
⑤201209	1.50	2.30	0.97	8.0	4.0	3.5	-	B	178	60	12	2	4000
⑥321611	1.88	3.50	0.22	8.0	4.0	3.5	1.27	A	178	60	12	2	3000
⑦453215	3.66	4.95	0.24	12	8.0	5.5	1.85	A	178	60	14	2	1000

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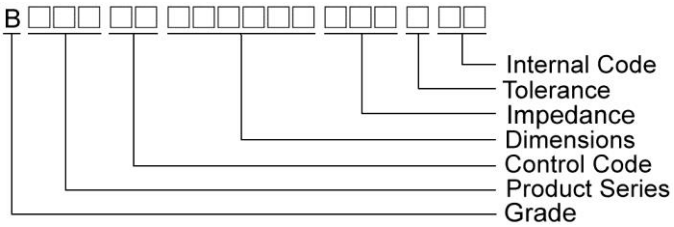
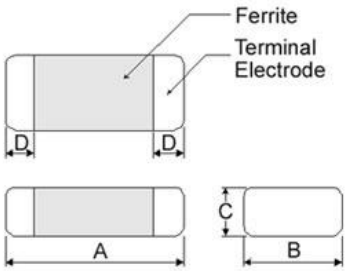
Multilayer Ferrite Chip Beads

Chilisin offers a wide range of multi-layered ferrite chip beads with various sizes, frequency characteristics, and impedance values for EMI solutions. These ferrite formulas are used to compose seven types of EMI suppression chip beads: BBSY, BBBK, BBSJ, BBGK, BBPY, BBUP, BBNQ, BBFY, BBFJ and BBHV series.

Product Identification



Shape and Dimensions

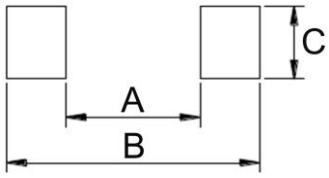


Dimensions in mm

TYPE	A	B	C	D
①060303	0.6±0.03	0.30±0.03	0.3±0.03	0.15±0.05
②100505	1.0±0.10	0.50±0.10	0.5±0.10	0.25±0.10
③160805	1.6±0.15	0.80±0.15	0.5±0.15	0.3±0.2
④160808	1.6±0.15	0.80±0.15	0.8±0.15	0.3±0.2
⑤201209	2.0±0.20	1.25±0.20	0.9±0.20	0.5±0.3
⑥321611	3.2±0.20	1.60±0.20	1.1±0.20	0.5±0.3
⑦453215	4.5±0.25	3.20±0.20	1.5±0.20	0.5±0.3

① : BBSY / BBSJ / BBNQ / BBPY
② : BBSY / BBSJ / BBNQ / BBPY / BBUP / BBFY / BBFJ
③ : BBUP ④ : BBBK / BBSJ / BBGK / BBPY / BBNQ / BBUP / BBHV
⑤ : BBBK / BBGK / BBPY / BBUP ⑥ : BBSY / BBBK / BBPY / BBUP
⑦ : BBPY / BBUP

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
①060303	0.2 ~ 0.3	0.75 ~ 1.05	0.3
②100505	0.4	1.2 ~ 1.4	0.5
③160805	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
④160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
⑤201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.4
⑥321611	2.0 ~ 2.4	4.2 ~ 5.2	1.3 ~ 1.9
⑦453215	3.0	5.5 ~ 6.5	2.4

∗ Don't apply narrower pattern than listed above to BBPY and BBUP Narrow pattern might cause excessive heat or open circuit.

Dimension Conversion

Code	Dimension in mm (AxBxC)	EIA
060303	0.6X0.3X0.3	0201
100505	1.0X0.5X0.5	0402
160805	1.6x0.8x0.5	0603
160808	1.6x0.8x0.8	0603
201209	2.0x1.2x0.9	0805
321611	3.2x1.6x.1.1	1206
453215	4.5x3.2x1.5	1812

Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	RDC (Ω) Max	Rated current (mA) Max
BBUP00100505300Y00	30	100	0.022	3000
BBUP00100505330Y00	33	100	0.022	3000
BBUP00100505600Y00	60	100	0.032	2500
BBUP00100505800Y00	80	100	0.038	2300
BBUP00100505121Y00	120	100	0.055	2000
BBUP00100505181Y00	180	100	0.090	1500
BBUP00100505221Y00	220	100	0.100	1400
BBUP00100505331Y00	330	100	0.150	1200
BBUP00100505471Y00	470	100	0.200	1000

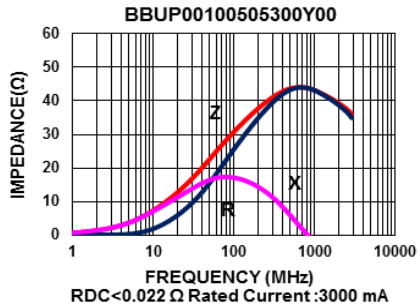
Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

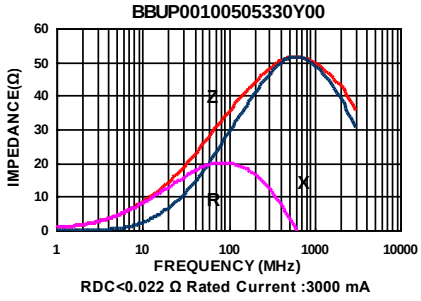
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

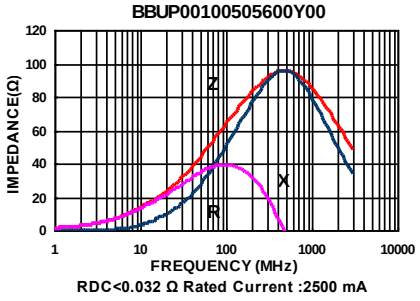
  Z：HP4291A

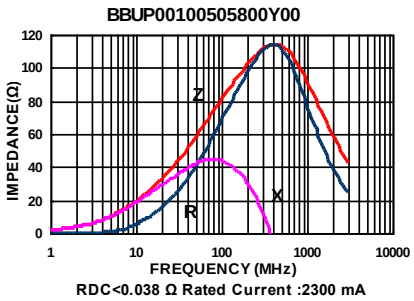
  RDC：HP4338B or CHEN HWA 502

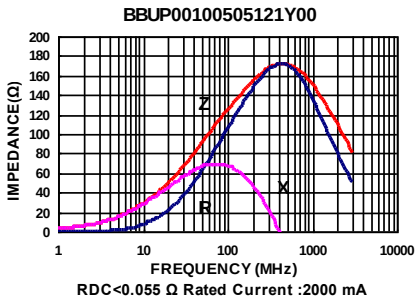
Test Instruments：Agilent E4991A Impedance / Material Analyzer

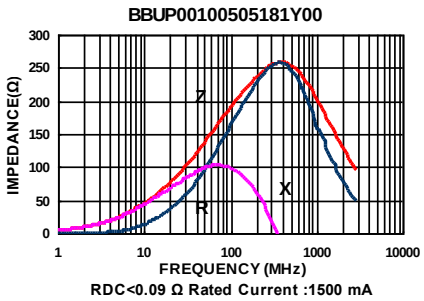


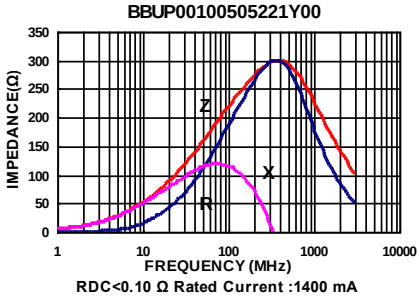


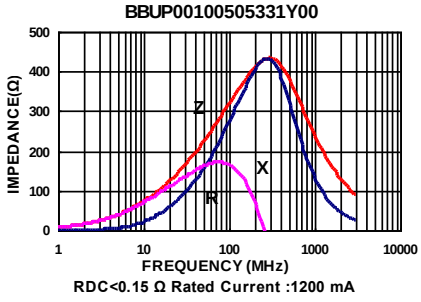


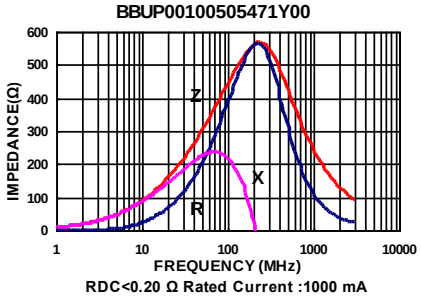












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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	RDC (Ω) Max	Rated current (mA) Max
BBUP00160805260Y00	26	100	0.007	6000
BBUP00160805300Y00	30	100	0.007	6000
BBUP00160805600Y00	60	100	0.020	4000
BBUP00160805700Y00	70	100	0.020	4000
BBUP00160805101Y00	100	100	0.025	3000
BBUP00160805121Y00	120	100	0.025	3000
BBUP00160805221Y00	220	100	0.040	2500
BBUP00160805331Y00	330	100	0.070	1500

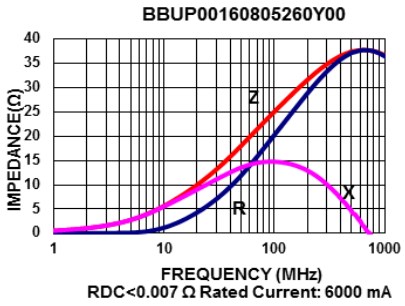
Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

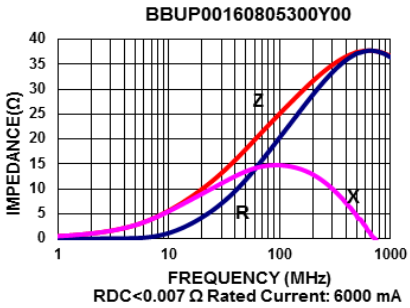
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

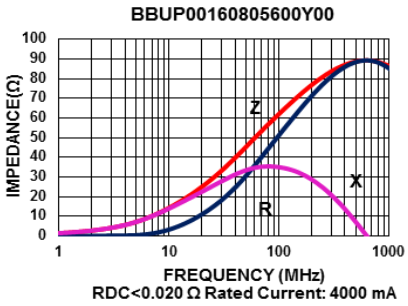
  Z：HP4291A

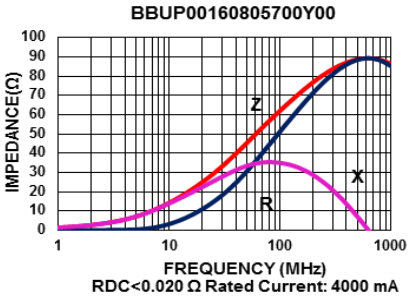
  RDC：HP4338B or CHEN HWA 502

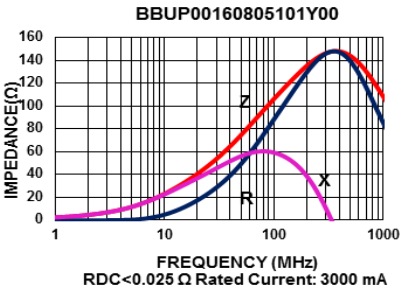
Test Instruments：Agilent E4991A Impedance / Material Analyzer

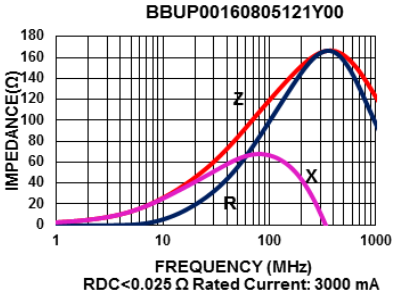


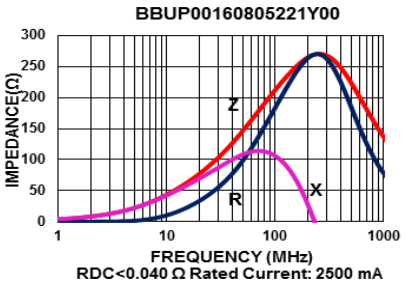


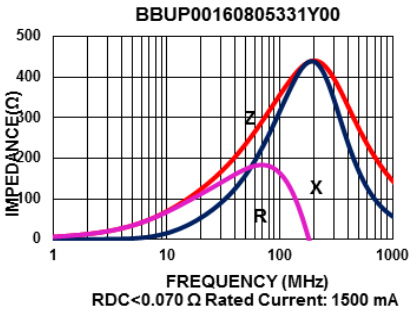












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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	RDC (Ω) Max	Rated current (mA) Max
BBUP00160808100Y00	10	100	0.010	5000
BBUP00160808300Y00	30	100	0.015	4500
BBUP00160808600Y00	60	100	0.020	4000
BBUP00160808700Y00	70	100	0.020	4000
BBUP00160808101Y00	100	100	0.030	3000
BBUP00160808121Y00	120	100	0.030	3000
BBUP00160808181Y00	180	100	0.050	2000
BBUP00160808221Y00	220	100	0.040	2500

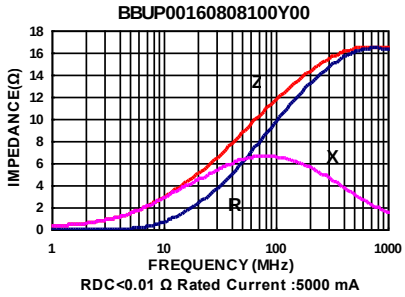
Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

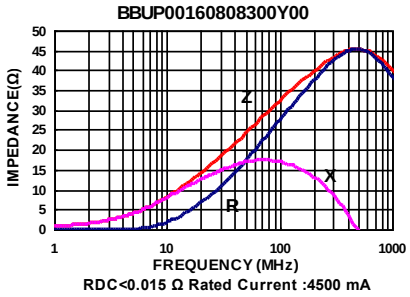
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

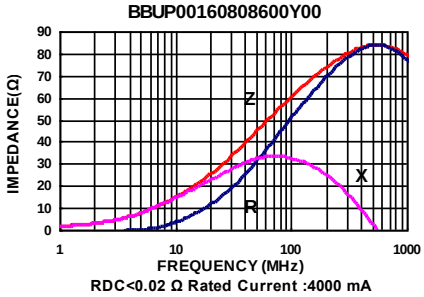
  Z：HP4291A

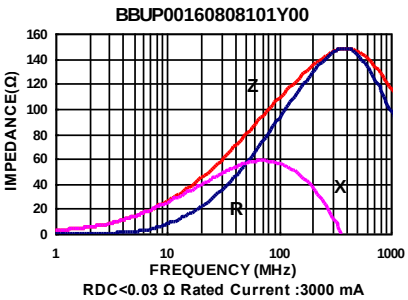
  RDC：HP4338B or CHEN HWA 502

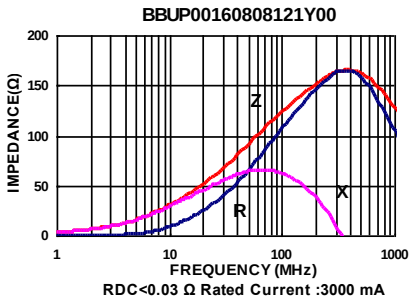
Test Instruments：Agilent E4991A Impedance / Material Analyzer

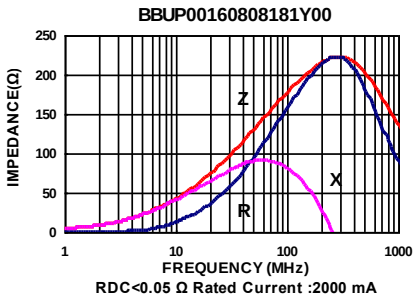


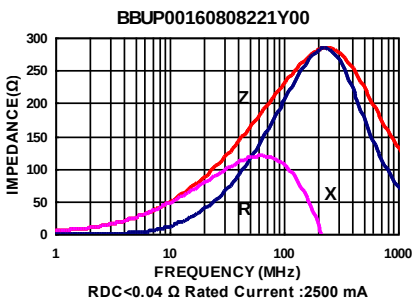












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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	RDC (Ω) Max	Rated current (mA) Max
BBUP00201209150Y00	15	100	0.012	6000
BBUP00201209220Y00	22	100	0.012	6000
BBUP00201209300Y00	30	100	0.012	6000
BBUP00201209310Y00	31	100	0.012	6000
BBUP00201209500Y00	50	100	0.015	6000
BBUP00201209600Y00	60	100	0.018	6000
BBUP00201209800Y00	80	100	0.02	6000
BBUP00201209101Y00	100	100	0.02	5000
BBUP00201209121Y00	120	100	0.02	5000
BBUP00201209201Y00	200	100	0.04	3000
BBUP00201209221Y00	220	100	0.04	3000
BBUP00201209301Y00	300	100	0.05	3000
BBUP00201209331Y00	330	100	0.05	3000

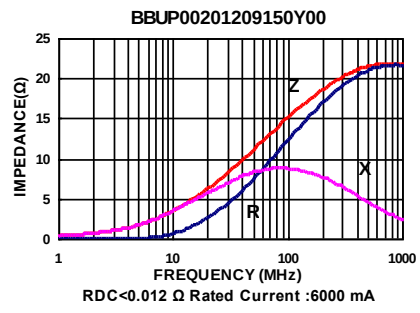
Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

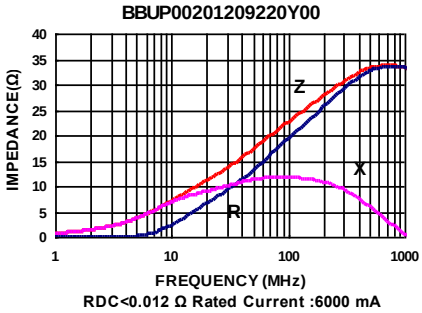
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

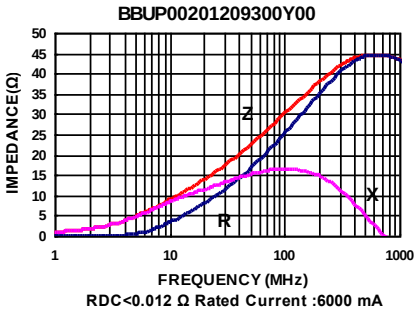
  Z：HP4291A

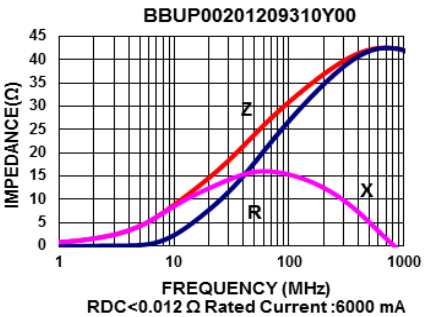
  RDC：HP4338B or CHEN HWA 502

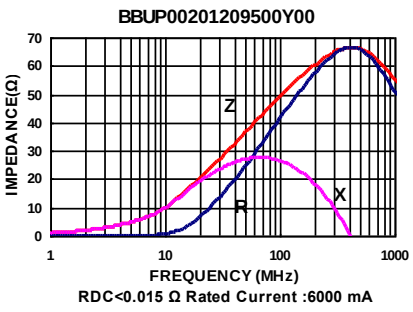
Test Instruments：Agilent E4991A Impedance / Material Analyzer

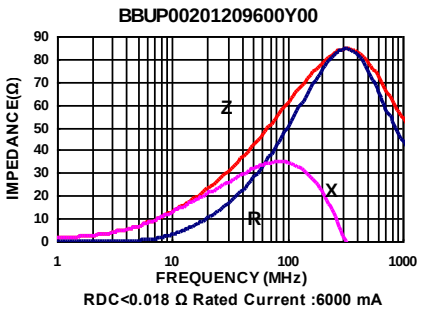












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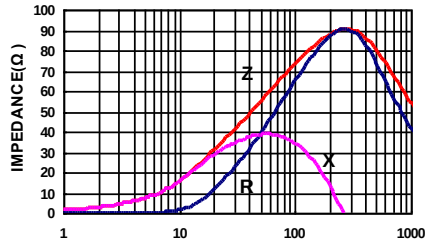
CHILISIN ELECTRONICS CORP.

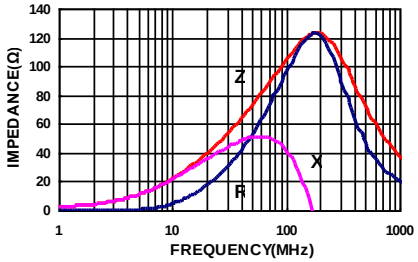
Test Instruments：Agilent E4991A Impedance / Material Analyzer

BBUP00201209800Y00



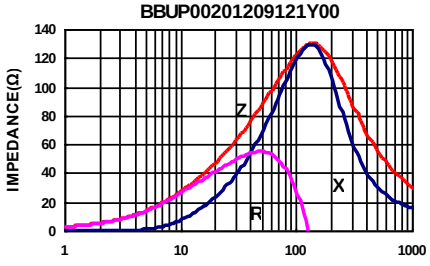
RDC<0.02 Ω Rated Current :6000 mA

BBUP00201209101Y00



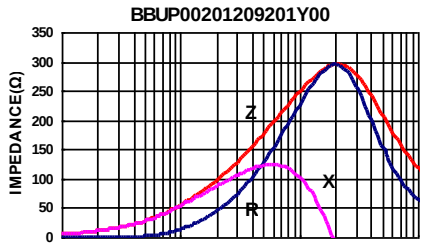
RDC<0.02 Ω Rated Current :5000 mA

BBUP00201209121Y00



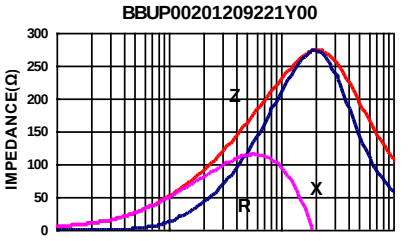
RDC<0.02 Ω Rated Current :5000 mA

BBUP00201209201Y00



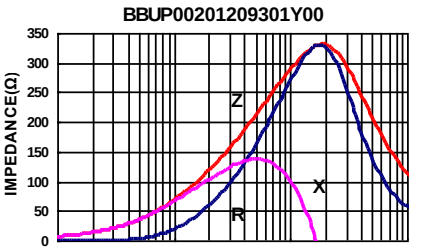
RDC<0.04 Ω Rated Current :3000 mA

BBUP00201209221Y00



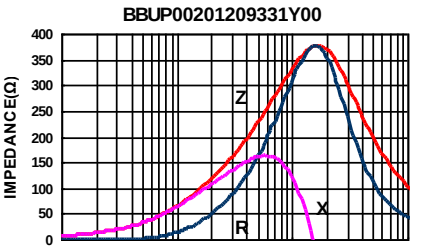
RDC<0.04 Ω Rated Current :3000 mA

BBUP00201209301Y00



RDC<0.05 Ω Rated Current :3000 mA

BBUP00201209331Y00



RDC<0.05 Ω Rated Current :3000 mA

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	RDC (Ω) Max	Rated current (mA) Max
BBUP00321611300Y00	30	100	0.012	6000
BBUP00321611500Y00	50	100	0.012	6000
BBUP00321611600Y00	60	100	0.012	6000
BBUP00321611800Y00	80	100	0.012	6000
BBUP00321611101Y00	100	100	0.012	6000
BBUP00321611121Y00	120	100	0.012	6000
BBUP00321611151Y00	150	100	0.020	4500
BBUP00321611181Y00	180	100	0.020	4500
BBUP00321611221Y00	220	100	0.020	4500

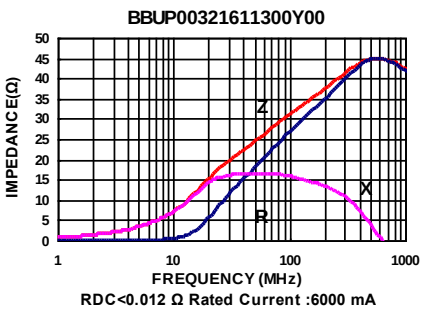
Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

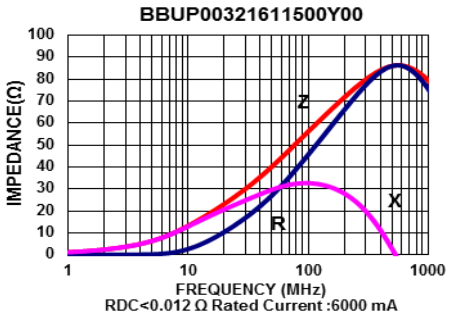
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

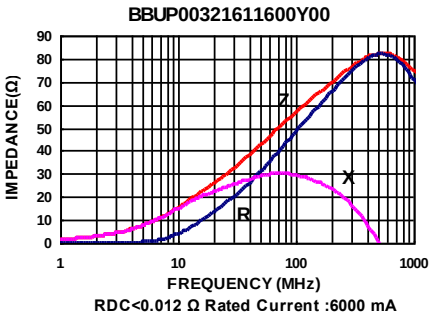
  Z：HP4291A

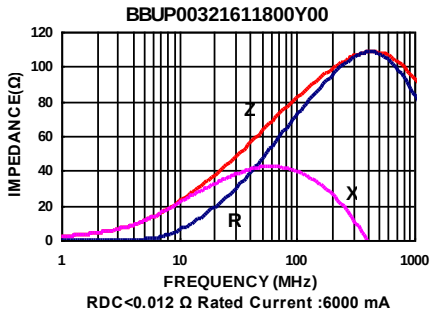
  RDC：HP4338B or CHEN HWA 502

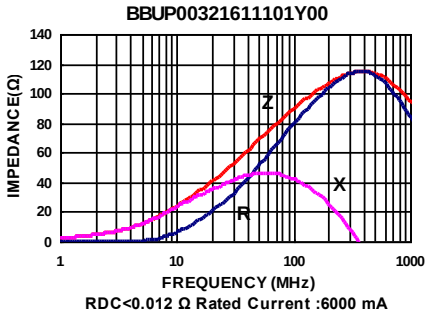
Test Instruments：Agilent E4991A Impedance / Material Analyzer

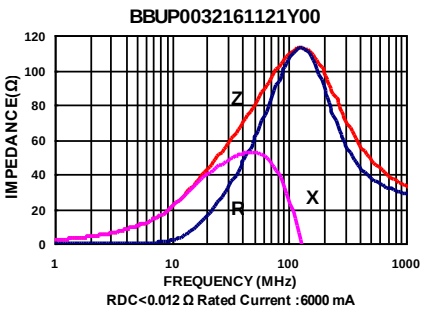


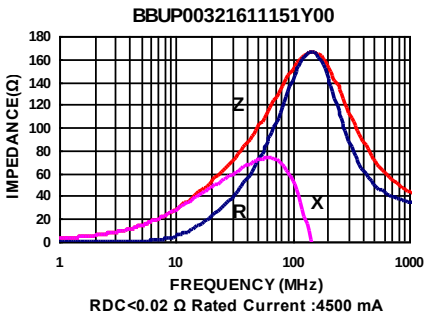


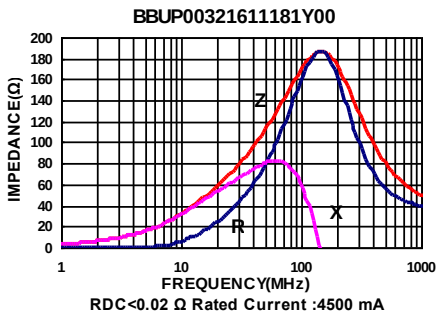


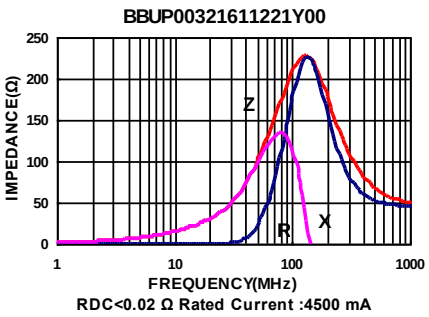












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Pulse a YAGEO company

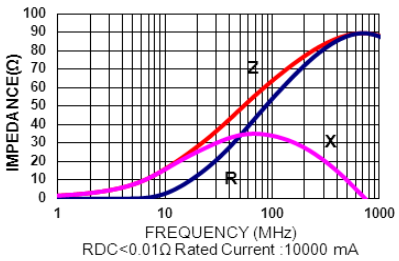
CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	DC Resistance (Ω) Max	Rated current (mA) Max
BBUP00453215560Y00	56	100	0.010	9000
BBUP00453215800Y00	80	100	0.010	9000
BBUP00453215121Y00	120	100	0.020	6000
BBUP00453215151Y00	150	100	0.020	6000

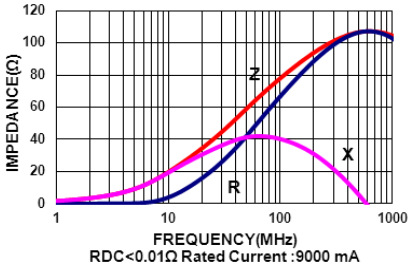
Test Instruments：Agilent E4991A Impedance / Material Analyzer

BBUP00453215560Y00



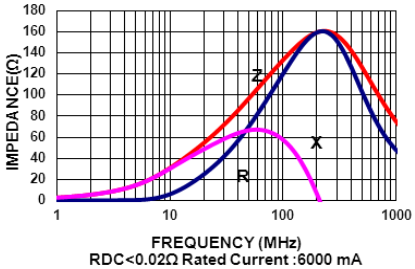
RDC<0.01Ω Rated Current :10000 mA

BBUP00453215800Y00



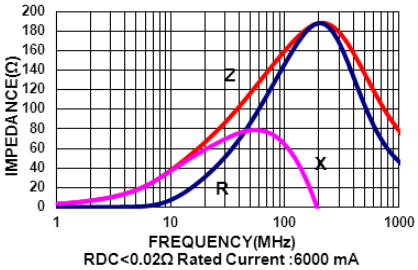
RDC<0.01Ω Rated Current :9000 mA

BBUP00453215121Y00



RDC<0.02Ω Rated Current :6000 mA

BBUP00453215151Y00



RDC<0.02Ω Rated Current :6000 mA

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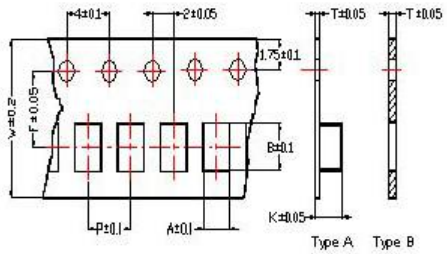
Pulse a YAGEO company

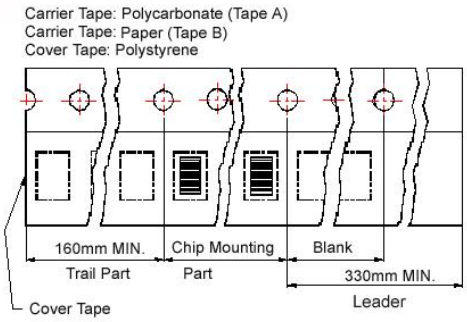
CHILISIN ELECTRONICS CORP.

Packaging Specifications

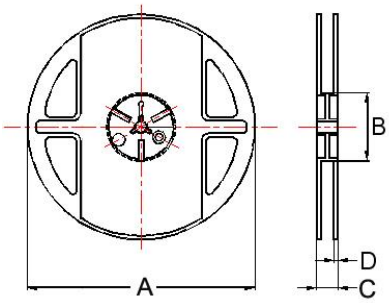
Tape Dimensions



Tape Material



Reel Dimensions



①：BBSY/BBSJ/BBNQ/BBPY ③：BBUP
②：BBSY/BBSJ/BBNQ/BBPY/BBUP/BBFY/BBFJ
④：BBBK/BBSJ/BBGK/BBPY/BBNQ/BBUP/BBHV
⑤：BBBK/BBGK/BBPY/BBUP
⑥：BBSY/BBBK/BBPY/BBUP
⑦：BBPY/BBUP

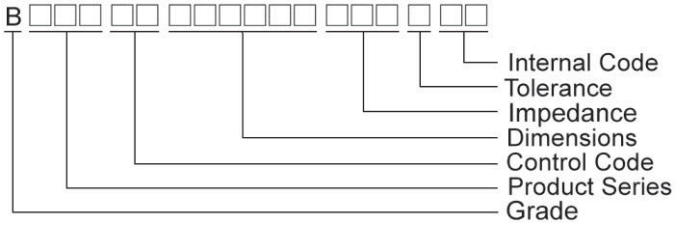
Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape	A	B	C	D	PCS / REEL
①060303	0.37	0.67	0.42	8.0	2.0	3.5	-	B	178	60	10	2	15000
②100505	0.62	1.12	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
③160805	1.05	1.85	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
④160808	1.05	1.85	0.95	8.0	4.0	3.5	-	B	178	60	12	2	4000
⑤201209	1.50	2.30	0.97	8.0	4.0	3.5	-	B	178	60	12	2	4000
⑥321611	1.88	3.50	0.22	8.0	4.0	3.5	1.27	A	178	60	12	2	3000
⑦453215	3.66	4.95	0.24	12	8.0	5.5	1.85	A	178	60	14	2	1000

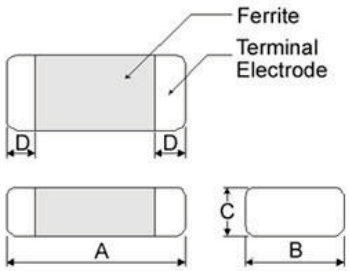
Multilayer Ferrite Chip Beads

Chilisin offers a wide range of multi-layered ferrite chip beads with various sizes, frequency characteristics, and impedance values for EMI solutions. These ferrite formulas are used to compose seven types of EMI suppression chip beads: BBSY, BBBK, BBSJ, BBGK, BBPY, BBUP, BBNQ, BBFY, BBFJ and BBHV series.

Product Identification



Shape and Dimensions

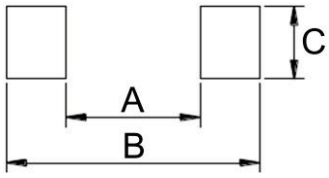


Dimensions in mm

TYPE	A	B	C	D
①060303	0.6±0.03	0.30±0.03	0.3±0.03	0.15±0.05
②100505	1.0±0.10	0.50±0.10	0.5±0.10	0.25±0.10
③160805	1.6±0.15	0.80±0.15	0.5±0.15	0.3±0.2
④160808	1.6±0.15	0.80±0.15	0.8±0.15	0.3±0.2
⑤201209	2.0±0.20	1.25±0.20	0.9±0.20	0.5±0.3
⑥321611	3.2±0.20	1.60±0.20	1.1±0.20	0.5±0.3
⑦453215	4.5±0.25	3.20±0.20	1.5±0.20	0.5±0.3

① : BBSY / BBSJ / BBNQ / BBPY
② : BBSY / BBSJ / BBNQ / BBPY / BBUP / BBFY / BBFJ
③ : BBUP ④ : BBBK / BBSJ / BBGK / BBPY / BBNQ / BBUP / BBHV
⑤ : BBBK / BBGK / BBPY / BBUP ⑥ : BBSY / BBBK / BBPY / BBUP
⑦ : BBPY / BBUP

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
①060303	0.2 ~ 0.3	0.75 ~ 1.05	0.3
②100505	0.4	1.2 ~ 1.4	0.5
③160805	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
④160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
⑤201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.4
⑥321611	2.0 ~ 2.4	4.2 ~ 5.2	1.3 ~ 1.9
⑦453215	3.0	5.5 ~ 6.5	2.4

＊ Don't apply narrower pattern than listed above to BBPY and BBUP Narrow pattern might cause excessive heat or open circuit.

Dimension Conversion

Code	Dimension in mm (AxBxC)	EIA
060303	0.6X0.3X0.3	0201
100505	1.0X0.5X0.5	0402
160805	1.6x0.8x0.5	0603
160808	1.6x0.8x0.8	0603
201209	2.0x1.2x0.9	0805
321611	3.2x1.6x.1.1	1206
453215	4.5x3.2x1.5	1812

Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	Impedance (Ω±40%)	Test Frequency (MHz)	RDC (Ω) Max	Rated current (mA) Max
BBFY00100505221YHN	220	100	270	1000	0.55	450
BBFY00100505301YHN	300	100	450	1000	0.55	350
BBFY00100505471YHN	470	100	650	1000	0.60	300
BBFY00100505601YHN	600	100	1000	1000	0.7	300
BBFY00100505102YHN	1000	100	1400	1000	1.1	250

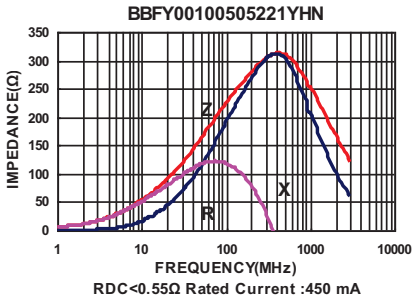
Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

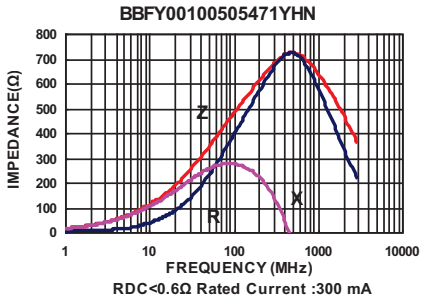
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

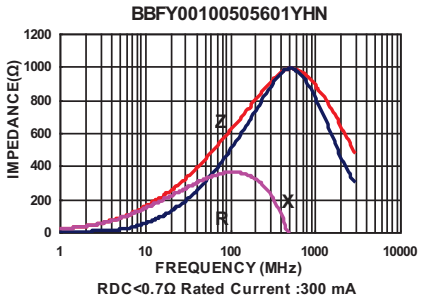
  Z：HP4291A

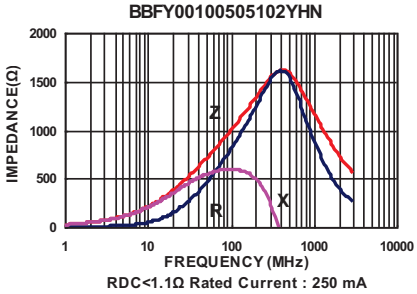
  RDC：HP4338B or CHEN HWA 502

Test Instruments：Agilent E4991A Impedance / Material Analyzer









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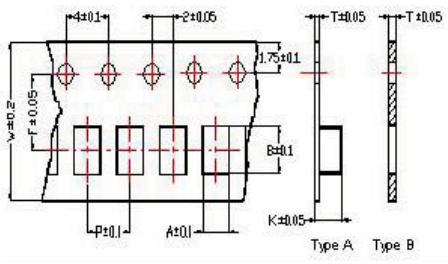
Pulse a YAGEO company

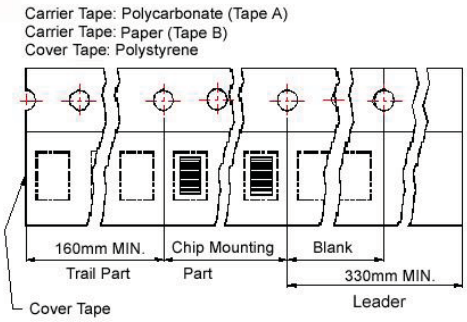
CHILISIN ELECTRONICS CORP.

Packaging Specifications

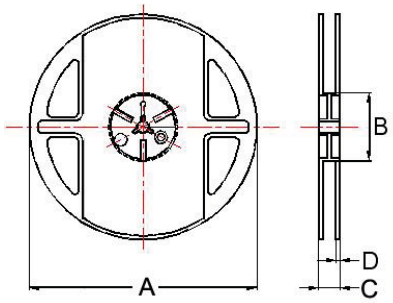
Tape Dimensions



Tape Material



Reel Dimensions



① : BBSY/BBSJ/BBNQ/BBPY ③ : BBUP
② : BBSY/BBSJ/BBNQ/BBPY/BBUP/BBFY/BBFJ
④ : BBBK/BBSJ/BBGK/BBPY/BBNQ/BBUP/BBHV
⑤ : BBBK/BBGK/BBPY/BBUP
⑥ : BBSY/BBBK/BBPY/BBUP
⑦ : BBPY/BBUP

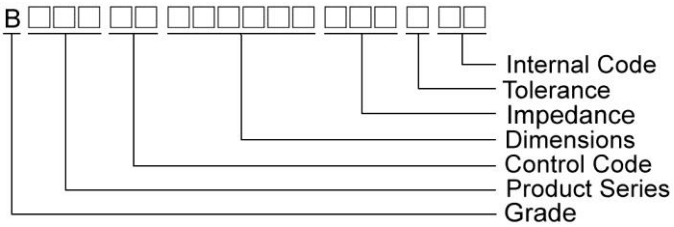
Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape	A	B	C	D	PCS / REEL
①060303	0.37	0.67	0.42	8.0	2.0	3.5	-	B	178	60	10	2	15000
②100505	0.62	1.12	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
③160805	1.05	1.85	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
④160808	1.05	1.85	0.95	8.0	4.0	3.5	-	B	178	60	12	2	4000
⑤201209	1.50	2.30	0.97	8.0	4.0	3.5	-	B	178	60	12	2	4000
⑥321611	1.88	3.50	0.22	8.0	4.0	3.5	1.27	A	178	60	12	2	3000
⑦453215	3.66	4.95	0.24	12	8.0	5.5	1.85	A	178	60	14	2	1000

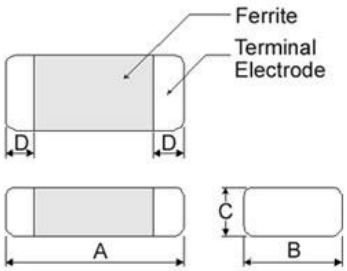
Multilayer Ferrite Chip Beads

Chilisin offers a wide range of multi-layered ferrite chip beads with various sizes, frequency characteristics, and impedance values for EMI solutions. These ferrite formulas are used to compose seven types of EMI suppression chip beads: BBSY, BBBK, BBSJ, BBGK, BBPY, BBUP, BBNQ, BBFY, BBFJ and BBHV series.

Product Identification



Shape and Dimensions

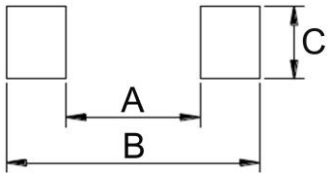


Dimensions in mm

TYPE	A	B	C	D
①060303	0.6±0.03	0.30±0.03	0.3±0.03	0.15±0.05
②100505	1.0±0.10	0.50±0.10	0.5±0.10	0.25±0.10
③160805	1.6±0.15	0.80±0.15	0.5±0.15	0.3±0.2
④160808	1.6±0.15	0.80±0.15	0.8±0.15	0.3±0.2
⑤201209	2.0±0.20	1.25±0.20	0.9±0.20	0.5±0.3
⑥321611	3.2±0.20	1.60±0.20	1.1±0.20	0.5±0.3
⑦453215	4.5±0.25	3.20±0.20	1.5±0.20	0.5±0.3

① : BBSY / BBSJ / BBNQ / BBPY
② : BBSY / BBSJ / BBNQ / BBPY / BBUP / BBFY / BBFJ
③ : BBUP ④ : BBBK / BBSJ / BBGK / BBPY / BBNQ / BBUP / BBHV
⑤ : BBBK / BBGK / BBPY / BBUP ⑥ : BBSY / BBBK / BBPY / BBUP
⑦ : BBPY / BBUP

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
①060303	0.2 ~ 0.3	0.75 ~ 1.05	0.3
②100505	0.4	1.2 ~ 1.4	0.5
③160805	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
④160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
⑤201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.4
⑥321611	2.0 ~ 2.4	4.2 ~ 5.2	1.3 ~ 1.9
⑦453215	3.0	5.5 ~ 6.5	2.4

∗ Don't apply narrower pattern than listed above to BBPY and BBUP
Narrow pattern might cause excessive heat or open circuit.

Dimension Conversion

Code	Dimension in mm (AxBxC)	EIA
060303	0.6X0.3X0.3	0201
100505	1.0X0.5X0.5	0402
160805	1.6x0.8x0.5	0603
160808	1.6x0.8x0.8	0603
201209	2.0x1.2x0.9	0805
321611	3.2x1.6x.1.1	1206
453215	4.5x3.2x1.5	1812

Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	Impedance (Ω±40%)	Test Frequency (MHz)	RDC (Ω) Max	Rated current (mA) Max
BBFJ00100505601Y00	600	100	1400	1000	0.85	300
BBFJ00100505102Y00	1000	100	2000	1000	1.25	250
BBFJ00100505152Y00	1500	100	2400	1000	1.80	230
BBFJ00100505182Y00	1800	100	2700	1000	2.20	200

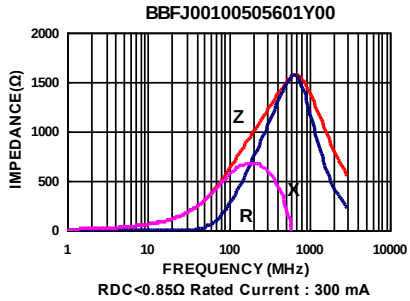
Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

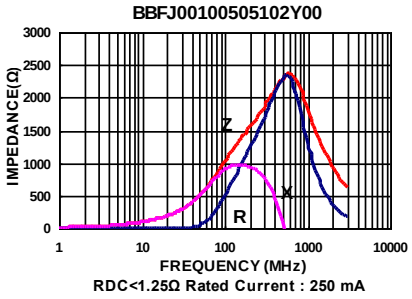
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

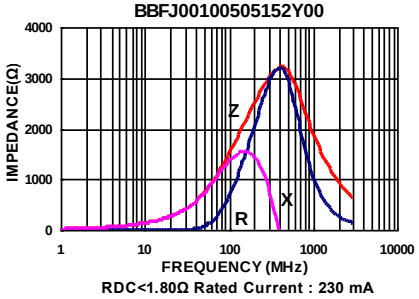
  Z：HP4291A

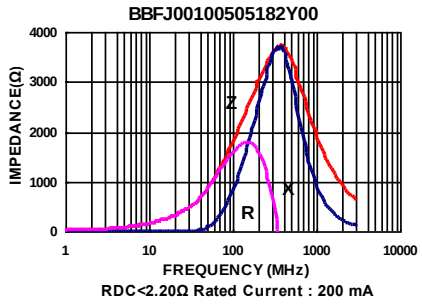
  RDC：HP4338B or CHEN HWA 502

Test Instruments：Agilent E4991A Impedance / Material Analyzer









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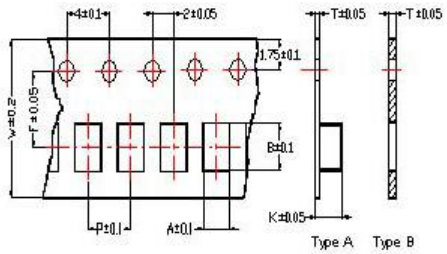
Pulse a YAGEO company

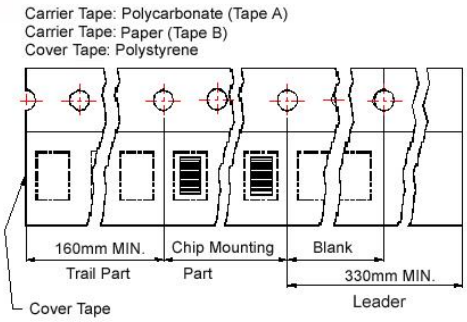
CHILISIN ELECTRONICS CORP.

Packaging Specifications

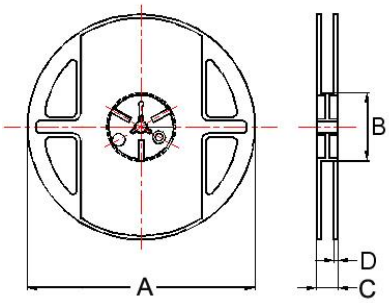
Tape Dimensions



Tape Material



Reel Dimensions



①：BBSY/BBSJ/BBNQ/BBPY ③：BBUP
②：BBSY/BBSJ/BBNQ/BBPY/BBUP/BBFY/BBFJ
④：BBBK/BBSJ/BBGK/BBPY/BBNQ/BBUP/BBHV
⑤：BBBK/BBGK/BBPY/BBUP
⑥：BBSY/BBBK/BBPY/BBUP
⑦：BBPY/BBUP

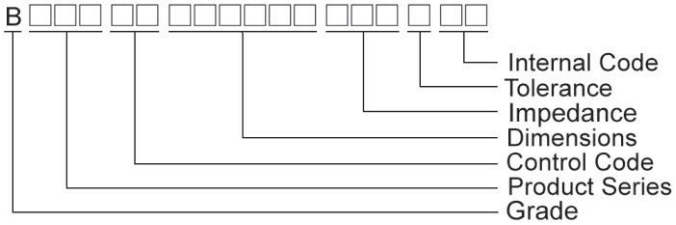
Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape	A	B	C	D	PCS / REEL
①060303	0.37	0.67	0.42	8.0	2.0	3.5	-	B	178	60	10	2	15000
②100505	0.62	1.12	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
③160805	1.05	1.85	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
④160808	1.05	1.85	0.95	8.0	4.0	3.5	-	B	178	60	12	2	4000
⑤201209	1.50	2.30	0.97	8.0	4.0	3.5	-	B	178	60	12	2	4000
⑥321611	1.88	3.50	0.22	8.0	4.0	3.5	1.27	A	178	60	12	2	3000
⑦453215	3.66	4.95	0.24	12	8.0	5.5	1.85	A	178	60	14	2	1000

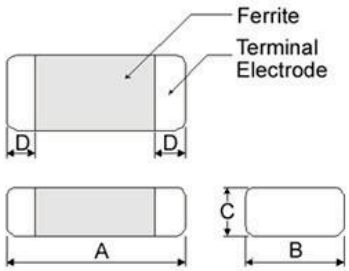
Multilayer Ferrite Chip Beads

Chilisin offers a wide range of multi-layered ferrite chip beads with various sizes, frequency characteristics, and impedance values for EMI solutions. These ferrite formulas are used to compose seven types of EMI suppression chip beads: BBSY, BBBK, BBSJ, BBGK, BBPY, BBUP, BBNQ, BBFY, BBFJ and BBHV series.

Product Identification



Shape and Dimensions

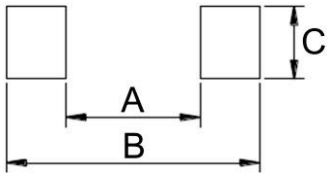


Dimensions in mm

TYPE	A	B	C	D
①060303	0.6±0.03	0.30±0.03	0.3±0.03	0.15±0.05
②100505	1.0±0.10	0.50±0.10	0.5±0.10	0.25±0.10
③160805	1.6±0.15	0.80±0.15	0.5±0.15	0.3±0.2
④160808	1.6±0.15	0.80±0.15	0.8±0.15	0.3±0.2
⑤201209	2.0±0.20	1.25±0.20	0.9±0.20	0.5±0.3
⑥321611	3.2±0.20	1.60±0.20	1.1±0.20	0.5±0.3
⑦453215	4.5±0.25	3.20±0.20	1.5±0.20	0.5±0.3

① : BBSY / BBSJ / BBNQ / BBPY
② : BBSY / BBSJ / BBNQ / BBPY / BBUP / BBFY / BBFJ
③ : BBUP ④ : BBBK / BBSJ / BBGK / BBPY / BBNQ / BBUP / BBHV
⑤ : BBBK / BBGK / BBPY / BBUP ⑥ : BBSY / BBBK / BBPY / BBUP
⑦ : BBPY / BBUP

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
①060303	0.2 ~ 0.3	0.75 ~ 1.05	0.3
②100505	0.4	1.2 ~ 1.4	0.5
③160805	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
④160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
⑤201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.4
⑥321611	2.0 ~ 2.4	4.2 ~ 5.2	1.3 ~ 1.9
⑦453215	3.0	5.5 ~ 6.5	2.4

＊ Don't apply narrower pattern than listed above to BBPY and BBUP Narrow pattern might cause excessive heat or open circuit.

Dimension Conversion

Code	Dimension in mm (AxBxC)	EIA
060303	0.6X0.3X0.3	0201
100505	1.0X0.5X0.5	0402
160805	1.6x0.8x0.5	0603
160808	1.6x0.8x0.8	0603
201209	2.0x1.2x0.9	0805
321611	3.2x1.6x.1.1	1206
453215	4.5x3.2x1.5	1812

Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	Impedance (Ω±40%)	Test Frequency (MHz)	RDC (Ω) Max	Rated current (mA) Max
BBFY00100505121YHP	120	100	150	1000	0.095	1500
BBFY00100505221YHP	220	100	270	1000	0.280	700

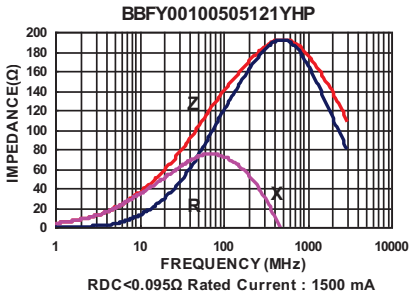
Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

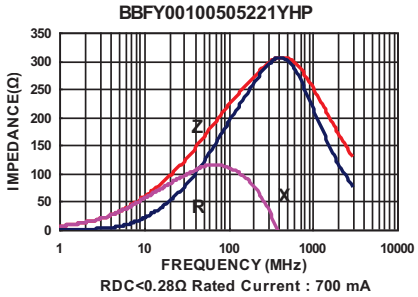
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

  Z：HP4291A

  RDC：HP4338B or CHEN HWA 502

Test Instruments：Agilent E4991A Impedance / Material Analyzer





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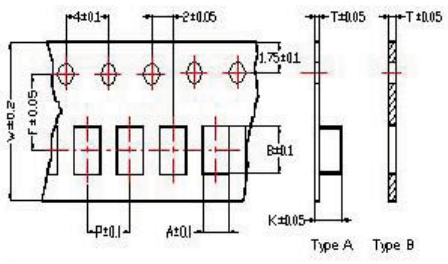
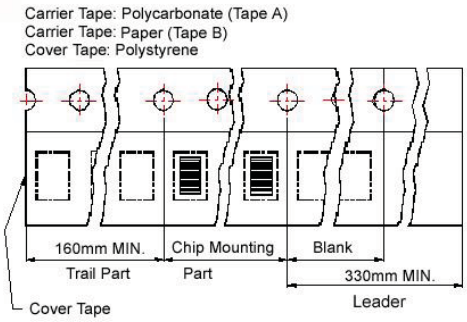
CHILISIN ELECTRONICS CORP.

Packaging Specifications

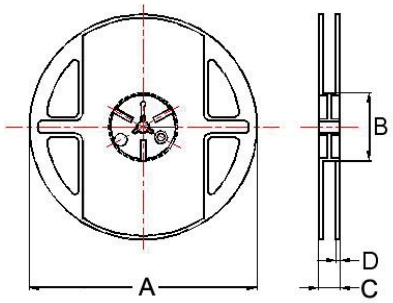
Tape Dimensions



Tape Material



Reel Dimensions



① : BBSY/BBSJ/BBNQ/BBPY ③ : BBUP
② : BBSY/BBSJ/BBNQ/BBPY/BBUP/BBFY/BBFJ
④ : BBBK/BBSJ/BBGK/BBPY/BBNQ/BBUP/BBHV
⑤ : BBBK/BBGK/BBPY/BBUP
⑥ : BBSY/BBBK/BBPY/BBUP
⑦ : BBPY/BBUP

Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape	A	B	C	D	PCS / REEL
①060303	0.37	0.67	0.42	8.0	2.0	3.5	-	B	178	60	10	2	15000
②100505	0.62	1.12	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
③160805	1.05	1.85	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
④160808	1.05	1.85	0.95	8.0	4.0	3.5	-	B	178	60	12	2	4000
⑤201209	1.50	2.30	0.97	8.0	4.0	3.5	-	B	178	60	12	2	4000
⑥321611	1.88	3.50	0.22	8.0	4.0	3.5	1.27	A	178	60	12	2	3000
⑦453215	3.66	4.95	0.24	12	8.0	5.5	1.85	A	178	60	14	2	1000

BPPB Series

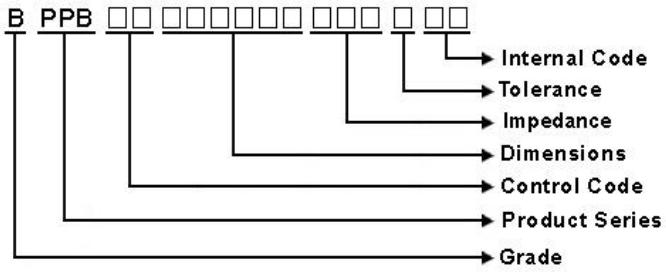
Features

- RoHS Compliant
- Special designs for surface mounting
- Available in various sizes for wide range of application and usage
- Highly resistant against heat and humidity

Applications

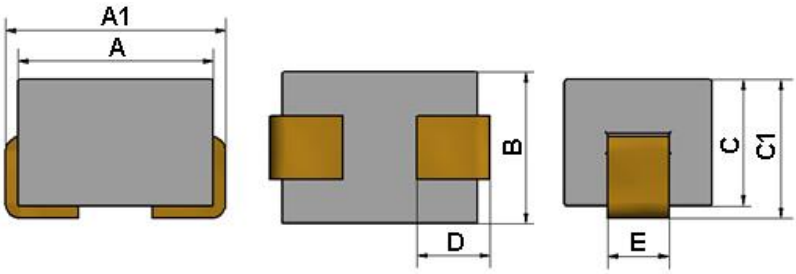
- Stereo
- Car radio
- Mobile telephone
- VCRs
- Computer disk drive and PC board

Product Identification

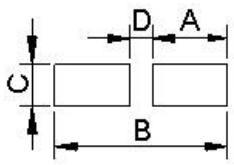


Shapes and Dimensions

BPPB00403025_AE



Recommended Pattern



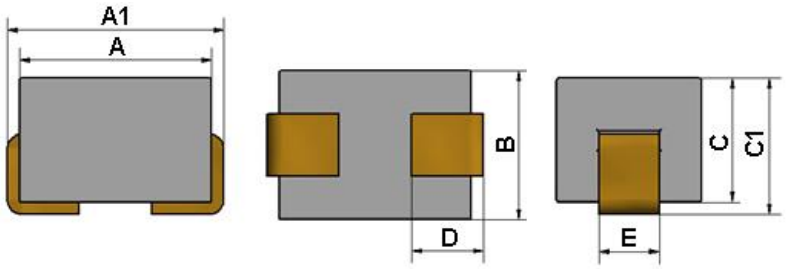
Dimensions in mm

TYPE	Shape and Dimensions							Recommended Pattern			
	A	A1	B	C	C1	D	E	A	B	C	D
BPPB00403025_AE	4.06±0.1	5.08Max	3.05±0.15	2.54±0.15	3.05Max	1.52±0.5	1.27	2.77	6.35	1.47	0.81

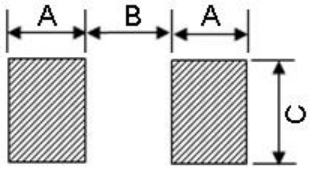
SMD Shielded Power Inductors – BPPB Series

Shapes and Dimensions

BPPB00403025



Recommended Pattern

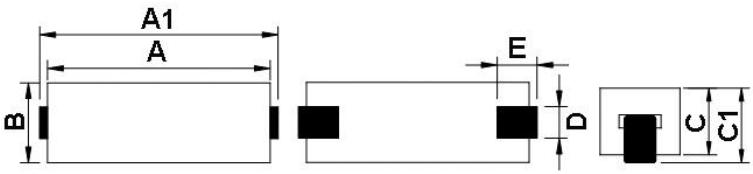


Dimensions in mm

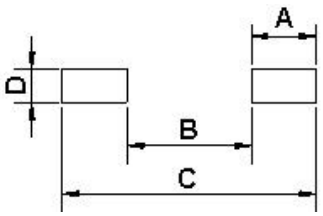
TYPE	Shape and Dimensions							Recommended Pattern		
	A	A1	B	C	C1	D	E	A	B	C
BPPB00403025	4.00±0.2	5.08Max	3.10±0.15	2.54±0.15	3.05Max	1.50±0.5	1.25	1.5	2.0	2.5

Shapes and Dimensions

BPPB00853025_AE



Recommended Pattern

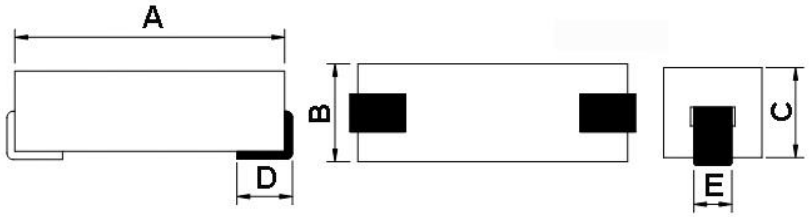


Dimensions in mm

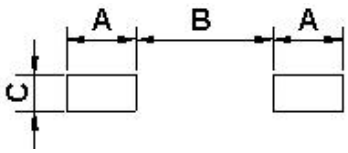
TYPE	Shape and Dimensions							Recommended Pattern			
	A	A1	B	C	C1	D	E	A	B	C	D
BPPB00853025_AE	8.51±0.23	9.53Max	3.02±0.2	2.54±0.2	3.05Max	1.52±0.5	1.27	2.2	5.4	9.8	1.5

Shapes and Dimensions

BPPB00853025



Recommended Pattern

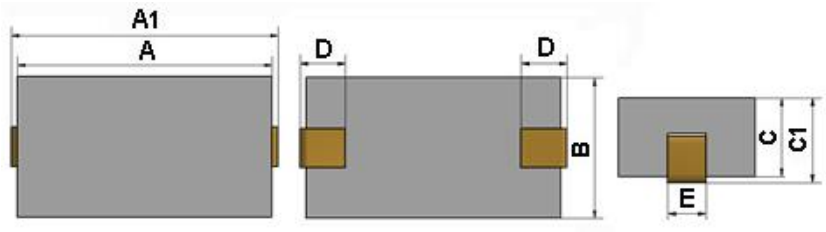


Dimensions in mm

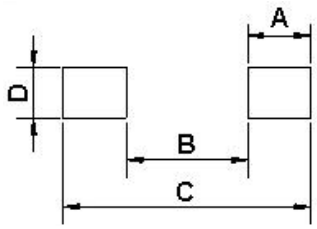
TYPE	Shape and Dimensions					Recommended Pattern		
	A	B	C	D	E	A	B	C
BPPB00853025	8.5±0.3	3.1±0.15	2.54±0.15	1.5	1.35	2.0	5.0	1.5

Shapes and Dimensions

BPPB00854625



Recommended Pattern

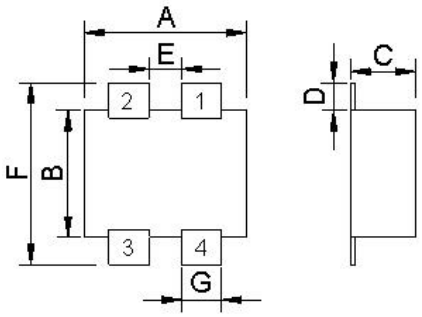


Dimensions in mm

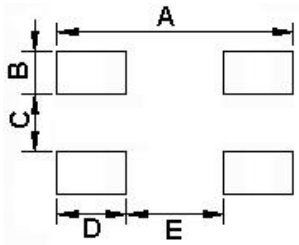
TYPE	Shape and Dimensions							Recommended Pattern			
	A	A1	B	C	C1	D	E	A	B	C	D
BPPB00854625	8.51±0.23	9.53Max	4.6±0.2	2.4±0.25	3.05Max	1.52±0.5	1.27	2.77	5.26	10.8	1.47

Shapes and Dimensions

BPPB00070628



Recommended Pattern



Dimensions in mm

TYPE	Shape and Dimensions							Recommended Pattern				
	A	B	C	D	E	F	G	A	B	C	D	E
BPPB00070628	5.7±0.2	4.6±0.3	2.8±0.3	0.9+0.2/-0.1	2.0±0.2	6.7±0.2	1.2±0.2	7.0	1.4	1.8	1.8	3.4

Standard Specifications

Part Number	Impedance(Ω) @1MHz,0.5V	Impedance(Ω) @10MHz,0.5V	RDC (mΩ)Max.	Rated current (A)Typ
BPPB00403025420XAE	14Min	34Min(42Typ)	0.75	10

Note: When ordering, please specify tolerance code.

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current：Based on temperature rise (△T:40℃ Typ.)
- Measure Equipment：

  Z：HP 4291B IMPEDANCE ANALYZER (or equivalent)

  RDC：CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

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Standard Specifications

Part Number	Impedance(Ω) @25MHz,0.5V	Impedance(Ω) @100MHz,0.5V	RDC (mΩ)Max.	Rated current (A)Typ
BPPB00403025470X00	30±25%	47±25%	0.6	10

Note: When ordering, please specify tolerance code.

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current：Based on temperature rise (△T:40℃ Typ.)
- Measure Equipment：

  Z：HP 4291B IMPEDANCE ANALYZER (or equivalent)

  RDC：CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Impedance(Ω) @10MHz,0.5V	RDC (mΩ)Max.	Rated current (A)Typ
BPPB00853025100XAE	90Typ	1.0	10

Note: When ordering, please specify tolerance code.

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current：Based on temperature rise (△T:40℃ Typ.)
- Measure Equipment：

  Z：HP 4291B IMPEDANCE ANALYZER (or equivalent)

  RDC：CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Impedance(Ω) @25MHz,0.5V	Impedance(Ω) @100MHz,0.5V	RDC (mΩ)Max.	Rated current (A)Typ
BPPB00853025100X00	60±25%	90±25%	0.9	10

Note: When ordering, please specify tolerance code.

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current：Based on temperature rise (△T:40℃ Typ.)
- Measure Equipment：

  Z：HP 4291B IMPEDANCE ANALYZER (or equivalent)

  RDC：CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Impedance(Ω) @10MHz,0.5V	RDC (mΩ)Max.	Rated current (A)Typ
BPPB00854625121X0E	115±25%	1.0	10

Note: When ordering, please specify tolerance code.

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current：Based on temperature rise (△T:40℃ Typ.)
- Measure Equipment：

  Z：HP 4291B IMPEDANCE ANALYZER (or equivalent)

  RDC：CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Impedance(Ω) @100MHz,0.5V	RDC (mΩ)Max.	Rated current (A)Typ
BPPB00070628330Y2E	33±25%	3.0	10

Note: When ordering, please specify tolerance code.

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current：Based on temperature rise (△T:40℃ Typ.)
- Measure Equipment：

  Z：HP 4291B IMPEDANCE ANALYZER (or equivalent)

  RDC：CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)

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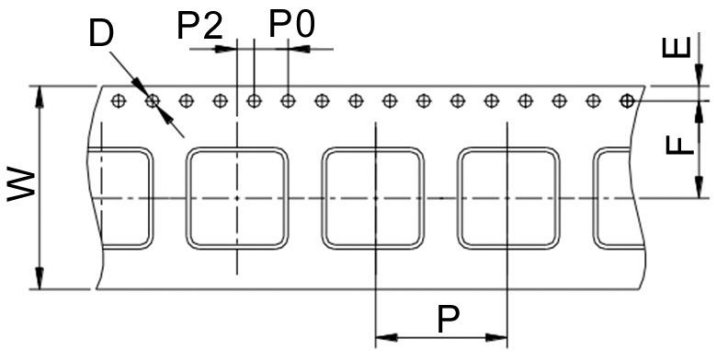
Pulse a YAGEO company

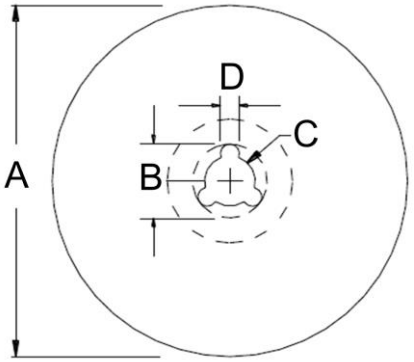
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	W	D	E	F	P	P0	P2	A	B	C	D	PCS / Reel
BPPB00403025	**12**	**1.5**	**1.75**	**5.5**	**8**	**4**	**2**	**178**	**20**	**13**	**2**	**500**
BPPB00853025	16	1.5	1.75	7.5	8	4	2	178	20	13	2	500
BPPB00854625	16	1.5	1.75	7.5	8	4	2	178	20	13	2	500
BPPB00070628	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1500

BWCU_02 Series For USB 2.0, IEEE1394b, LVDS Applications

A full series of common mode choke is designed for excellent noise attenuation with compact sizing for use in wide range of applications. Both standard series and custom designs are available.

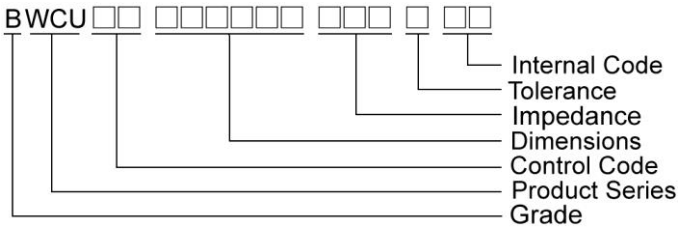
Features

- RoHS Compliant
- Miniature SMD type common mode filter for fully automated assembly
- Wide impedance range (30Ω ~ 2200Ω) for noise suppression
- Excellent solderability

Applications

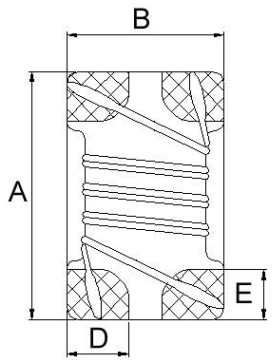
- USB line for personal computers and peripheral
- IEEE 1394 line for personal computers, DVC, STB
- LVDS, panel line for liquid display panels, graph card,etc.

Product Identification

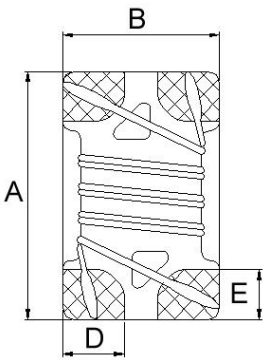


Shape and Dimensions

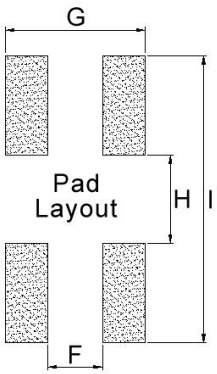
BWCU00160811/ 121008/ 321619



BWCU00201212



Recommended Pattern

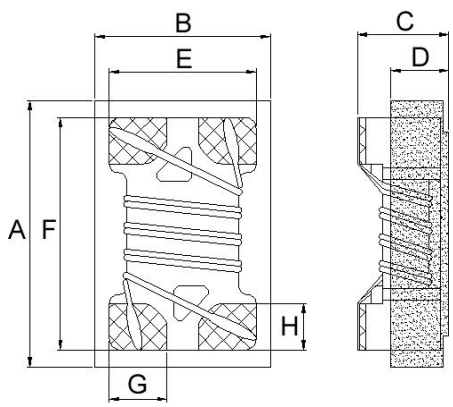


Dimensions in mm

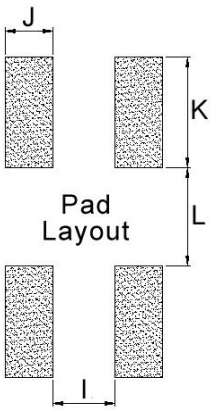
TYPE	A	B	C	D	E	F	G	H	I
BWCU00160811	1.60±0.2	0.80±0.2	1.10±0.2	0.25	0.33	0.25	0.75	0.61	2.29
BWCU00121008	1.25±0.2	1.00±0.2	0.8±0.1	0.32	0.33	0.36	1.00	0.59	1.75
BWCU00201212	2.05±0.2	1.25±0.2	1.20±0.2	0.50	0.40	0.50	1.27	1.1	2.60
BWCU00321619	3.20±0.2	1.60±0.2	1.90±0.2	0.50	0.60	0.40	1.60	1.60	3.70

Shape and Dimensions

BWCU00231512



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	E	F	G	H	I	J	K	L
BWCU00231512	2.29^{+0}	1.52^{+0}	1.20^{+0}	0.5	1.27	2.03	0.5	0.40	0.5	0.38	0.9	0.8

Electrical Characteristics

Part Number	Impedance (Ω)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) Max	Irms (mA) Max	Rated Voltage (Vdc)	Withstamd Voltage (Vdc)	Insulation Resistance (MΩ) Min
BWCU00160811250M02	25	20,25	100	0.077	500	50	125	10
BWCU00160811600M02	60	20,25	100	0.109	500	50	125	10
BWCU00160811900M02	90	20,25	100	0.142	500	50	125	10
BWCU00160811121M02	120	20,25	100	0.160	500	50	125	10
BWCU00160811141M02	140	20,25	100	0.174	500	50	125	10
BWCU00160811221M02	220	20,25	100	0.209	500	50	125	10

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , Y=±25%

- Operating temperature range－40℃～105℃(Including self - temperature rise)
- rms for 20℃ rise from 25℃ ambient
- Measure Equipment：

  Z：Agilent HP4287A+Agilent 16197A

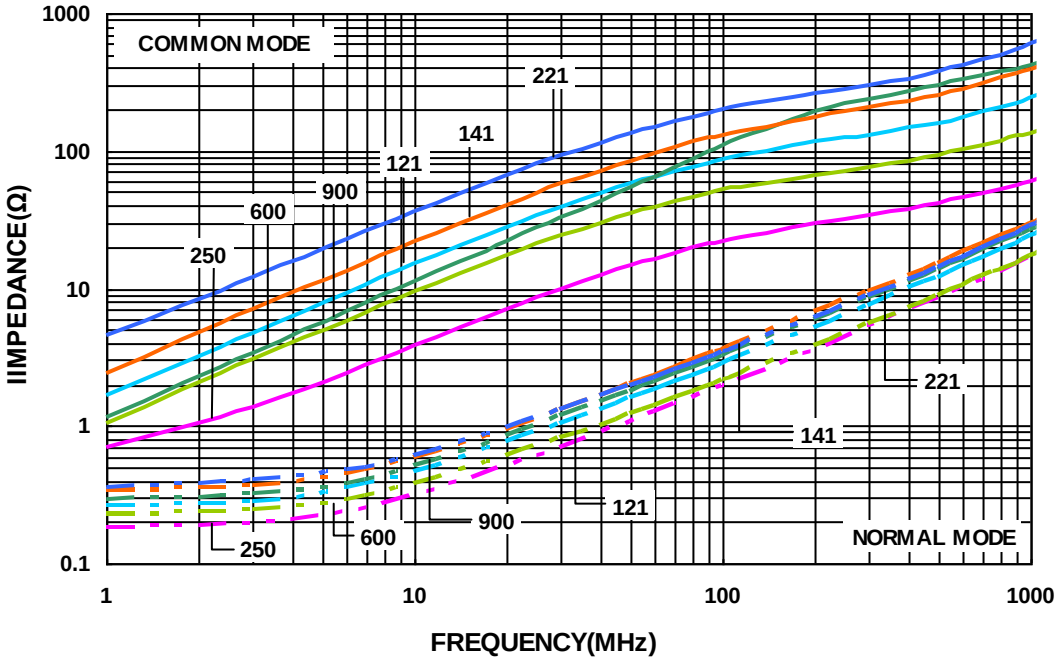
  RDC：HP4338B or Chroma 16502 (Single Wire Test Value)

  Irms：HP4284A+HP42841A/HP4285A+HP42841A

  Insulation Resistance：Agilent HP4339B

Test Instruments：HP4287A Material/Impedance Analyzer

Typical Impedance vs. Frequency



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Electrical Characteristics

Part Number	Impedance (Ω)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) Max	IDC (mA)	Rated Voltage (Vdc)	Withstamd Voltage (Vdc)	Insulation Resistance (MΩ) Min
BWCU00121008250T02	25	30	100	0.30	400	50	125	100
BWCU00121008600M02	60	20	100	0.40	300	50	125	100
BWCU00121008670M02	67	20	100	0.25	300	50	125	100
BWCU00121008900M02	90	20	100	0.30	250	50	125	100
BWCU00121008121M02	120	20	100	0.40	200	50	125	100
BWCU00121008161M02	160	20	100	0.43	160	50	125	100
BWCU00121008201M02	200	20	100	0.80	120	50	125	100
BWCU00121008331Y02	330	25	100	1.30	100	50	125	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , Y=±25% , T=±30%

- Operating temperature range－40℃～105℃(Including self - temperature rise)
- IDC for Inductance drop 10% from its value without current
- Measure Equipment：

  Z：Agilent HP4287A+Agilent 16197A

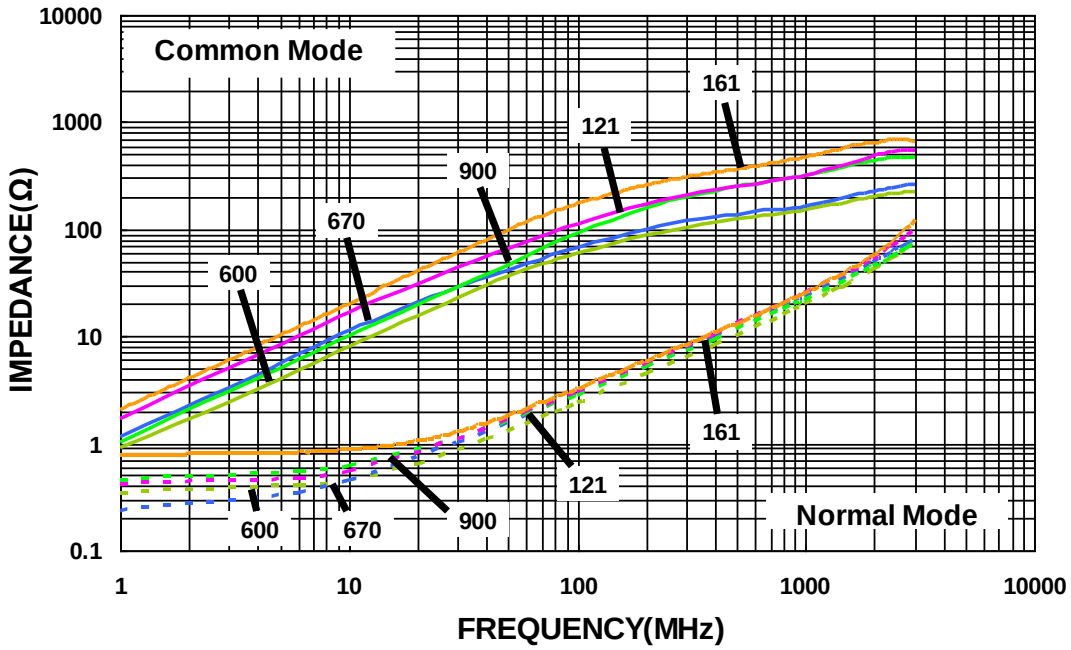
  RDC：Chroma 16502 (Single Wire Test Value)

  IDC：HP4284A+HP42841A/HP4285A+HP42841A

  Insulation Resistance：Agilent HP4339B

Test Instruments：HP4287A Material/Impedance Analyzer

Typical Impedance vs. Frequency



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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Impedance (Ω)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) Max	IDC (mA)	Rated Voltage (Vdc)	Withstamd Voltage (Vdc)	Insulation Resistance (MΩ) Min
BWCU00201212300M02	30	20	100	0.20	450	50	125	10
BWCU00201212670M02	67	20	100	0.25	400	50	125	10
BWCU00201212750M02	75	20	100	0.30	360	50	125	10
BWCU00201212900M02	90	20	100	0.35	330	50	125	10
BWCU00201212121M02	120	20	100	0.30	400	50	125	10
BWCU00201212161M02	160	20	100	0.35	350	50	125	10
BWCU00201212181M02	180	20	100	0.35	330	50	125	10
BWCU00201212201M02	200	20	100	0.35	330	50	125	10
BWCU00201212221M02	220	20	100	0.35	310	50	125	10
BWCU00201212261M02	260	20	100	0.40	300	50	125	10
BWCU00201212301M02	300	20	100	0.40	290	50	125	10
BWCU00201212361M02	360	20	100	0.45	280	50	125	10
BWCU00201212371M02	370	20	100	0.45	280	50	125	10
BWCU00201212501M02	500	20	100	0.55	170	50	125	10
BWCU00201212671M02	670	20	100	0.60	140	50	125	10
BWCU00201212801M02	800	20	100	0.88	300	50	125	10
BWCU00201212901M02	900	20	100	0.60	80	50	125	10

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～105℃(Including self - temperature rise)
- IDC for Inductance drop 10% from its value without current
- Measure Equipment：

  Z：Agilent HP4287A+Agilent 16197A

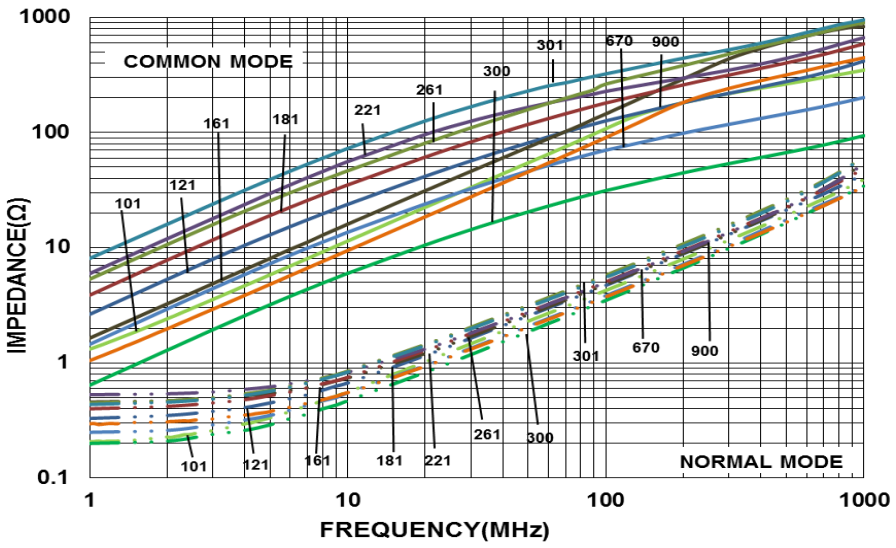
  RDC：Chroma 16502 (Single Wire Test Value)

  IDC：HP4284A+HP42841A/HP4285A+HP42841A

  Insulation Resistance：Agilent HP4339B

Test Instruments：HP4291A Material/Impedance Analyzer

Typical Impedance vs. Frequency



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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Impedance (Ω)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) Max	IDC (mA)	Rated Voltage (Vdc)	Withstamd Voltage (Vdc)	Insulation Resistance (MΩ) Min
BWCU00321619900M02	90	20	100	0.3	370	50	125	10
BWCU00321619121M02	120	20	100	0.3	370	50	125	10
BWCU00321619161M02	160	20	100	0.4	340	50	125	10
BWCU00321619221M02	220	20	100	0.4	320	50	125	10
BWCU00321619261M02	260	20	100	0.5	310	50	125	10
BWCU00321619601M02	600	20	100	0.8	260	50	125	10
BWCU00321619102M02	1000	20	100	1.0	230	50	125	10
BWCU00321619222M02	2200	20	100	1.2	200	50	125	10

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～105℃(Including self - temperature rise)
- IDC for Inductance drop 10% from its value without current
- Measure Equipment：

  Z：Agilent HP4287A+Agilent 16197A

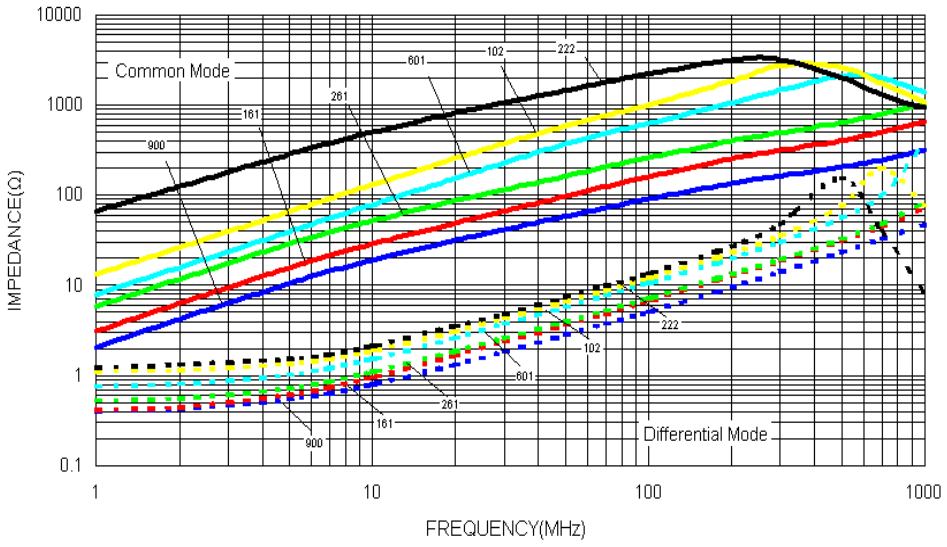
  RDC：Chroma 16502 (Single Wire Test Value)

  IDC：HP4284A+HP42841A/HP4285A+HP42841A

  Insulation Resistance：Agilent HP4339B

Test Instruments：HP4291A Material/Impedance Analyzer

Typical Impedance vs. Frequency



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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Impedance (Ω)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) Max	IDC (mA)	Rated Voltage (Vdc)	Withstamd Voltage (Vdc)	Insulation Resistance (MΩ) Min
BWCU00231512300M02	30	20	100	0.20	1300	50	125	10
BWCU00231512420M02	42	20	100	0.20	1300	50	125	10
BWCU00231512670M02	67	20	100	0.25	1200	50	125	10
BWCU00231512900M02	90	20	100	0.27	1000	50	125	10
BWCU00231512121M02	120	20	100	0.30	900	50	125	10
BWCU00231512181M02	180	20	100	0.40	700	50	125	10
BWCU00231512261M02	260	20	100	0.60	700	50	125	10

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～105℃(Including self - temperature rise)
- IDC for Inductance drop 10% from its value without current.
- Measure Equipment：

  Z：Agilent HP4291A

  RDC：HP4338B or Chroma 16502 (Single Wire Test Value)

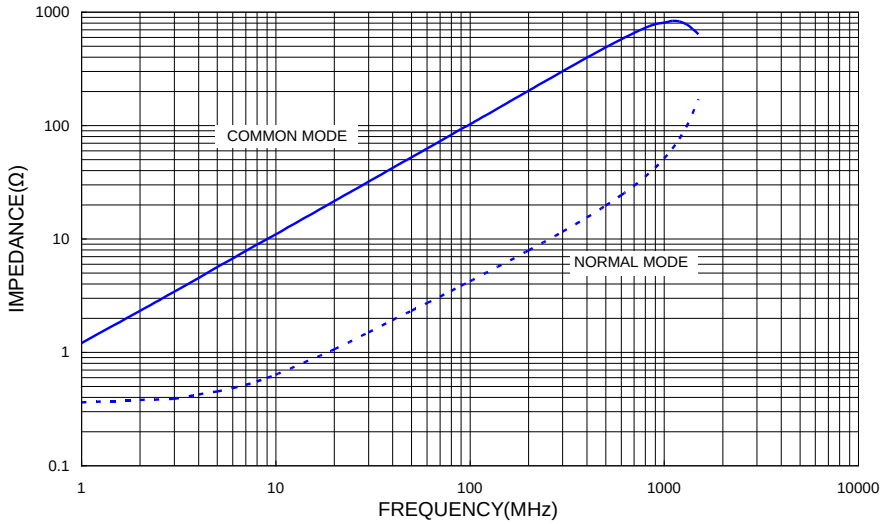
  IDC：HP4284A+HP42841A/HP4285A+HP42841A

  Insulation Resistance：Agilent HP4339B

Test Instruments：HP4291A Material/Impedance Analyzer

Typical Impedance vs. Frequency

BWCU00231512900M02



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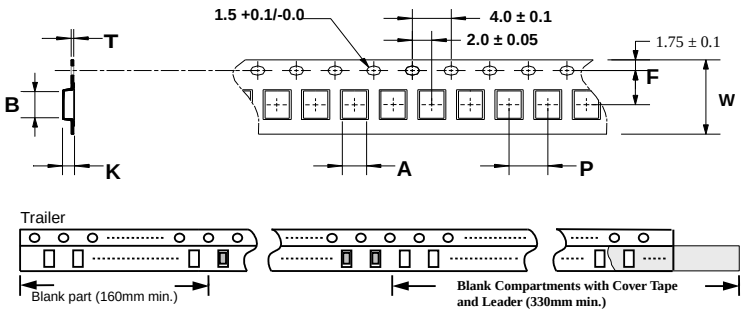
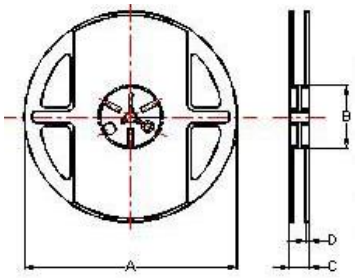
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / Reel
BWCU00160811	0.95	1.70	0.24	8	4	3.5	1.15	178	60	12	1.5	2000
BWCU00121008	1.15	1.45	0.24	8	4	3.5	1.00	178	60	12	1.5	2000
BWCU00201212	1.50	2.25	0.24	8	4	3.5	1.35	178	60	12	1.5	2000
BWCU00231512	1.60	2.42	0.26	8	4	3.5	1.14	178	60	12	1.5	2000
BWCU00321619	1.76	3.47	0.22	8	4	3.5	2.05	178	60	12	1.5	2000

BWCC Series For USB 2.0, IEEE1394b, LVDS

A full series of common mode choke is designed for excellent noise attenuation with compact sizing for use in wide range of applications. Both standard series and custom designs are available.

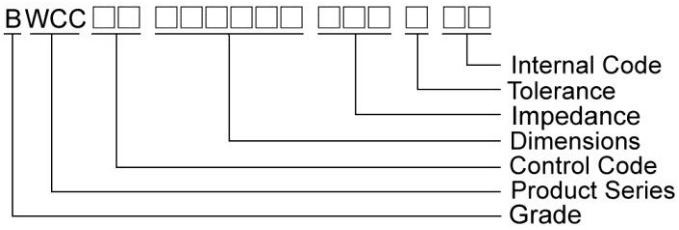
Features

- RoHS Compliant
- Miniature SMD type common mode filter for fully automated assembly
- Excellent solderability

Applications

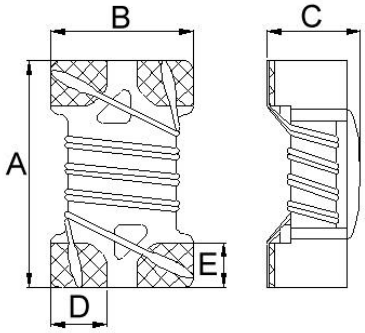
- USB line for personal computers and peripheral
- IEEE 1394 line for personal computers, DVC, STB
- LVDS, panel line for liquid display panels, graph card etc

Product Identification

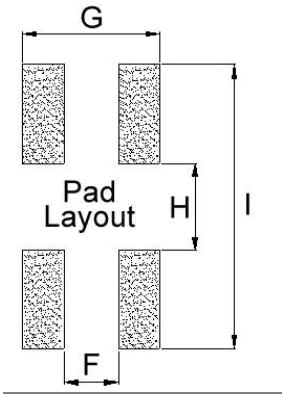


Shape and Dimensions

BWCC00201208



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	E	F	G	H	I
BWCC00201208	2.0±0.2	1.2±0.2	0.8±0.1	0.5	0.4	0.5	1.27	0.8	2.6

Electrical Characteristics

Part Number	Impedance (Ω)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) Max	IDC (mA)	Rated Voltage (Vdc)	Withstanding Voltage (Vdc)	Insulation Resistance (MΩ) Min
BWCC00201208300□02	30	20	100	0.20	1300	50	125	10
BWCC00201208420□02	42	20	100	0.20	1300	50	125	10
BWCC00201208670□02	67	20	100	0.25	1200	50	125	10
BWCC00201208900□02	90	20	100	0.27	1000	50	125	10
BWCC00201208121□02	120	20	100	0.30	900	50	125	10
BWCC00201208181□02	180	20	100	0.40	700	50	125	10
BWCC00201208261□02	260	20	100	0.60	700	50	125	10

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range - 40℃ ~ 105℃(Including self - temperature rise)
- RDC：SINGLE WIRE TEST VALUE
- IDC for Inductance drop 10% from its value without current.
- Measure Equipment：

  Z：Agilent HP4291A

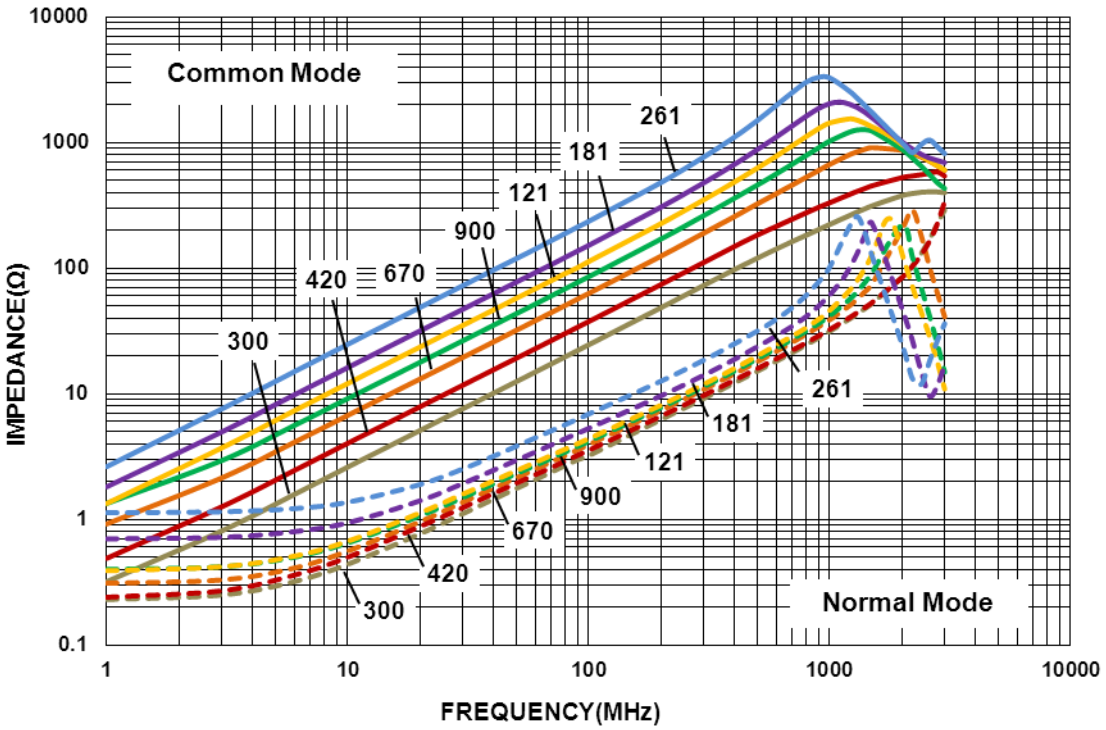
  RDC：HP4338B or Chroma 16502 (Single Wire Test Value)

  IDC：HP4284A+HP42841A/HP4285A+HP42841A

  Insulation Resistance：Agilent HP4339B

Test Instruments：HP4291A Material/Impedance Analyzer

Typical Impedance vs. Frequency



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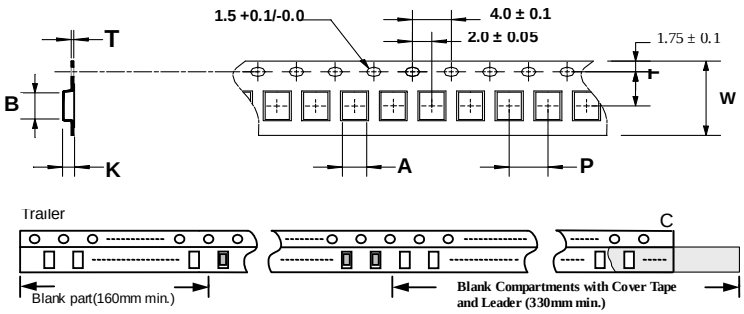
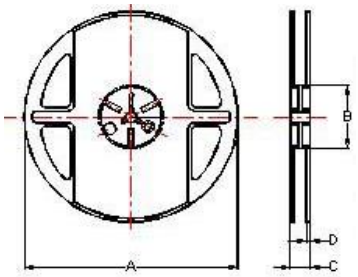
Packaging Specifications

Tape Dimensions



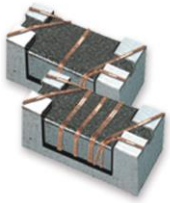
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / Reel
BWCC00201208	1.46	2.3	0.23	8	4	3.5	1.1	178	60	12	1.5	2000

BWCU_03 Series For HDMI, USB 3.0



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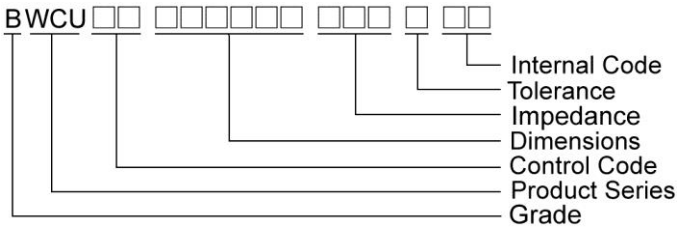
Features

- RoHS Compliant
- Miniature SMD type common mode filter for fully automated assembly
- Excellent solderability

Applications

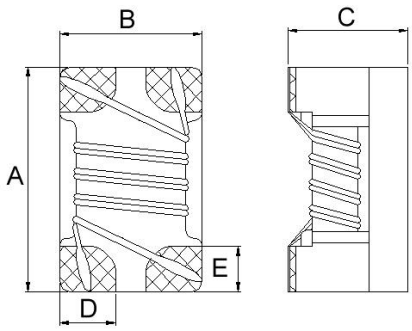
- HDMI
- USB lines (for personal computers and peripheral), DVC, STB, LVDS, panel line for liquid display panels, etc.

Product Identification

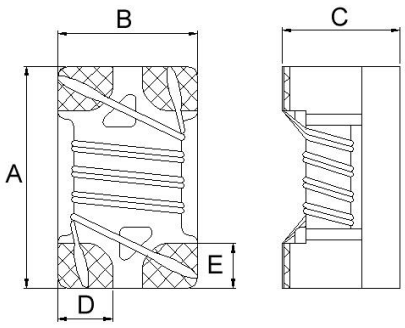


Shape and Dimensions

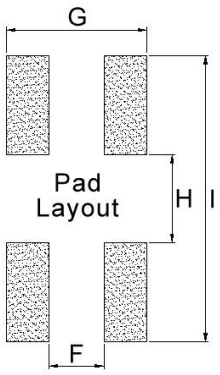
BWCU00121008



BWCU00201212



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	E	F	G	H	I
BWCU00121008	1.25±0.2	1.00±0.2	0.80±0.1	0.32	0.33	0.36	1.00	0.59	1.75
BWCU00201212	2.05±0.2	1.25±0.2	1.20±0.2	0.50	0.40	0.50	1.27	0.80	2.60

Electrical Characteristics

Part Number	Impedance (Ω)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) Max	IDC (mA) Max	Rated Voltage (Vdc)	Withstamd Voltage (Vdc)	Insulation Resistance (MΩ) Min
BWCU00121008220Y03	22	25	100	0.20	400	50	125	100
BWCU00121008600Y03	60	25	100	0.40	250	50	125	100
BWCU00121008900Y03	90	25	100	0.30	250	50	125	100

Note: When ordering, please specify tolerance code. Tolerance: Y=±25%

- Operating temperature range - 40℃ ~ 105℃(Including self - temperature rise)
- IDC for Inductance drop 10% from its value without current.
- Measure Equipment：

  Z：HP4286A/HP4287A/Agilent E4991A+Agilent16197A

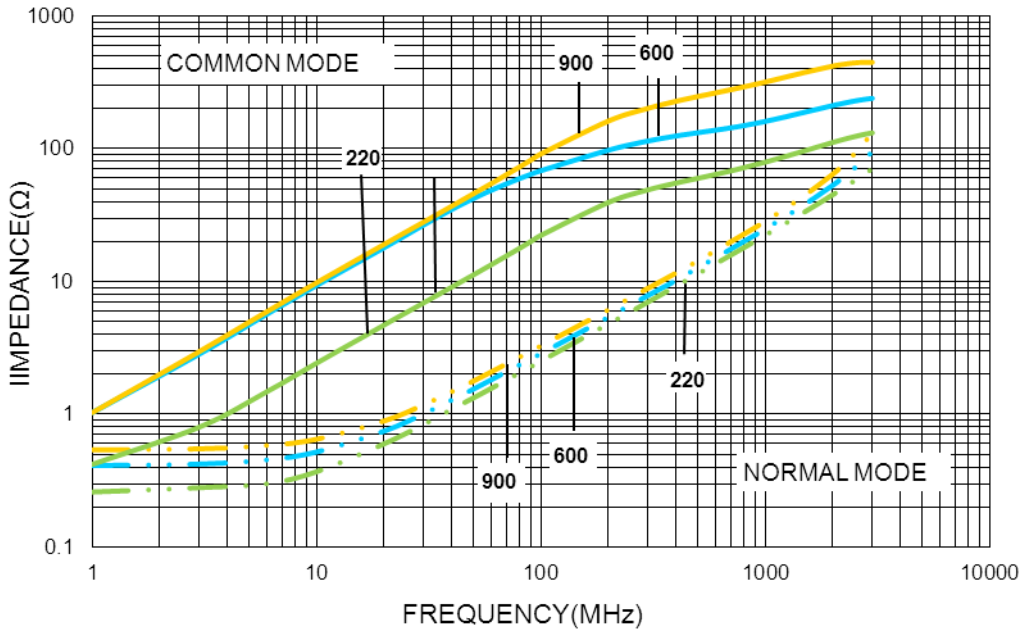
  RDC：Chroma 16502 (Single Wire Test Value)

  IDC：HP4284A+HP42841A/HP4285A+HP42841A

  Insulation Resistance：Agilent HP4339B

Test Instruments：HP4291A Material/Impedance Analyzer

Typical Impedance vs. Frequency



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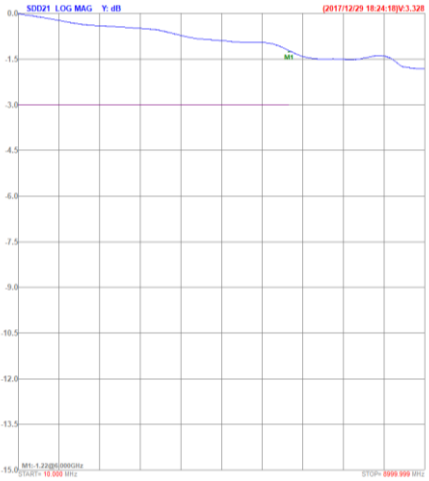
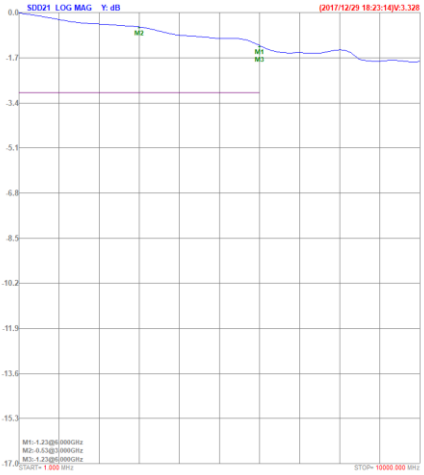
BWCU00121008220Y03

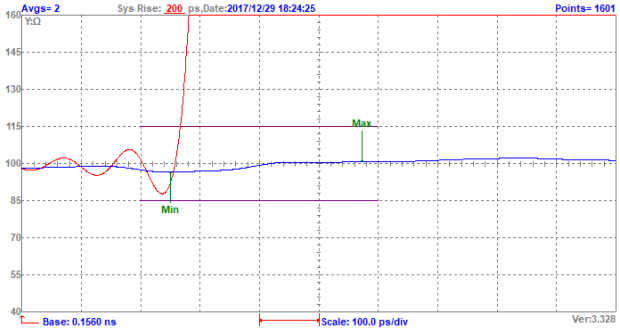
Insertion Loss For HDMI2.0 Testing:



Insertion Loss For USB3.0 Testing:

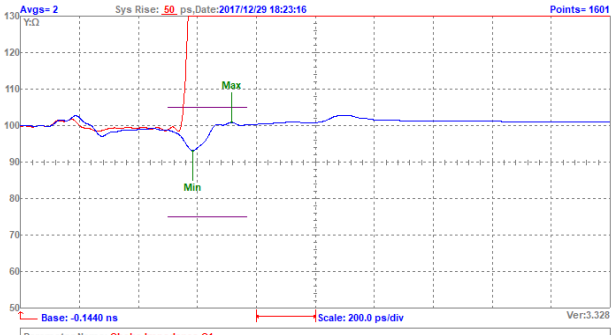


TDR For HDMI2.0 Testing:



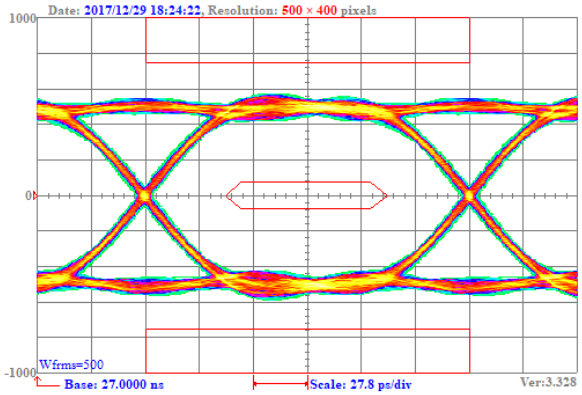
Parameter Name: HDMI2.0 Choke Impedance c1	
Spc Max: 115 Ω	Spc Min: 85 Ω
Max:100.81 Ohms at 0.7289 ns	Min:96.57 Ohms at 0.4058 ns
ΔΩ: 4.24	Avg: 98.69 Ohms
	Result: Pass

TDR For USB3.0 Testing:



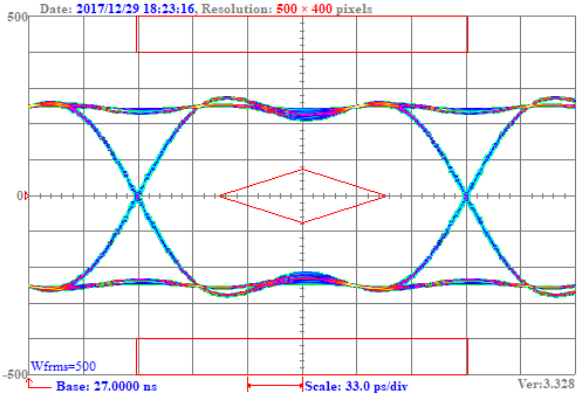
Parameter Name: Choke Impedance C1	
Spc Max: 105 Ω	Spc Min: 75 Ω
Max:100.93 Ohms at 0.5713 ns	Min:93.26 Ohms at 0.4400 ns
ΔΩ: 7.67	Avg: 97.10 Ohms
	Result: Pass

Eye Diagram For HDMI2.0 Testing:



Parameter Name: HDMI2.0 Choke Eye Diagram with 25ps c1	
Display Mode: Not a standard mode	
dRate: 6 Gbits/s; 166.7 ps	V: 500 mV;Gain: 0 dB;Off: 0 mV
CAL: DONE,JGen: OFF	Result: Pass

Eye Diagram For USB3.0 Testing:



Parameter Name: USB3.0 Choke Eye Diagram C1	
Display Mode: Not a standard mode	
dRate: 5 Gbits/s; 200.0 ps	V: 250 mV;Gain: 0 dB;Off: 0 mV
CAL: DONE,JGen: OFF	Result: Pass

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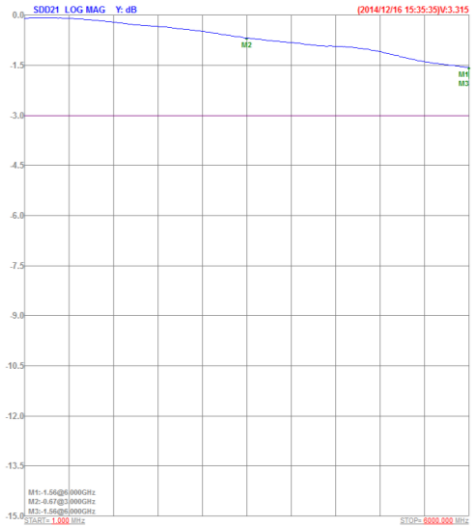
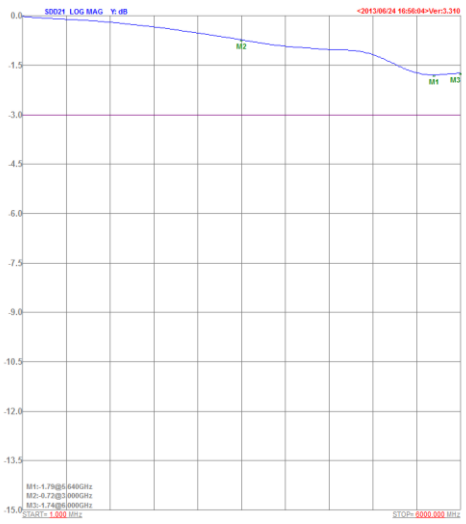
BWCU00121008600Y03

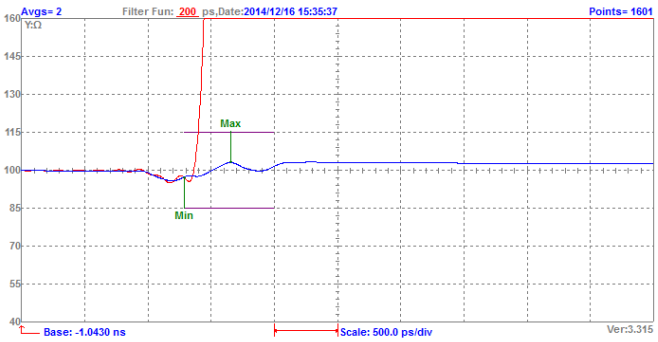
Insertion Loss For HDMI2.0 Testing:



Insertion Loss For USB3.0 Testing:

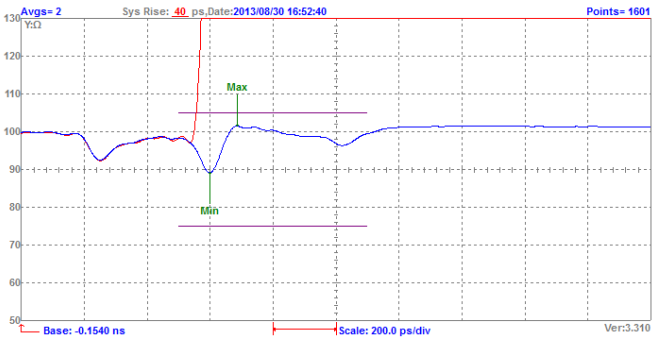


TDR For HDMI2.0 Testing:



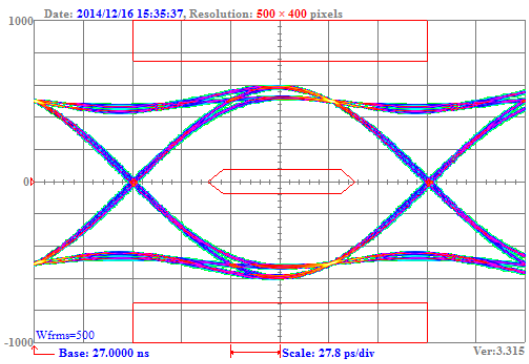
Parameter Name: HDMI Choke Impedance C1	
Spc Max: 115 Ω	Spc Min: 85 Ω
Max:103.11 Ohms at 0.6105 ns	Min:97.48 Ohms at 0.2449 ns
ΔΩ: 5.63	Avg: 100.29 Ohms
	Result: Pass

TDR For USB3.0 Testing:



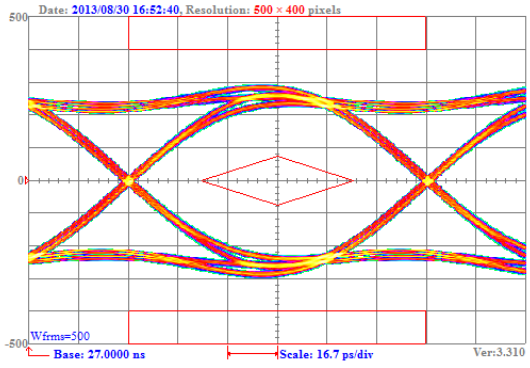
Parameter Name: Choke Impedance C1	
Spc Max: 105 Ω	Spc Min: 75 Ω
Max:101.56 Ohms at 0.5314 ns	Min:89.22 Ohms at 0.4451 ns
ΔΩ: 12.34	Avg: 95.39 Ohms
	Result: Pass

Eye Diagram For HDMI2.0 Testing:



Parameter Name: Choke Eye Diagram C1	
Display Mode: Not a standard mode	
dRate: 6 Gbits/s; 166.7 ps	V: 500 mV;Gain: 0 dB;Off: 0 mV
CAL: DONE,JGen: OFF	Result: Pass

Eye Diagram For USB3.0 Testing:



Parameter Name: USB3.0 Choke Eye Diagram C1	
Display Mode: Not a standard mode	
dRate: 10 Gbits/s; 100.0 ps	V: 250 mV;Gain: 0 dB;Off: 0 mV
CAL: DONE,JGen: OFF	Result: Pass

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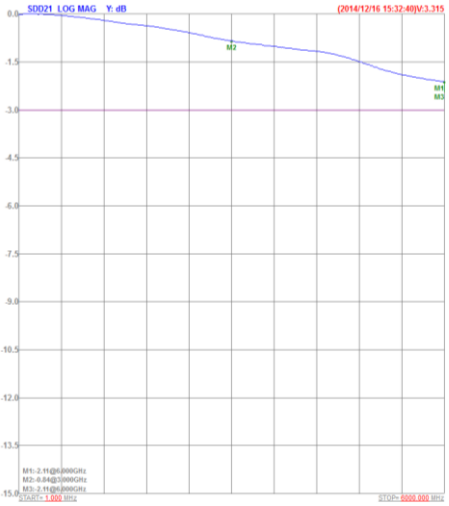
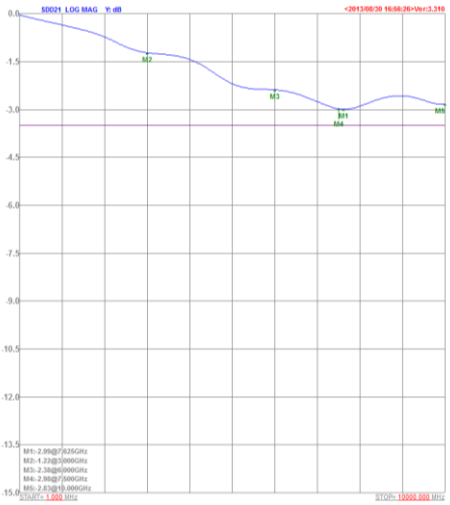
BWCU00121008900Y03

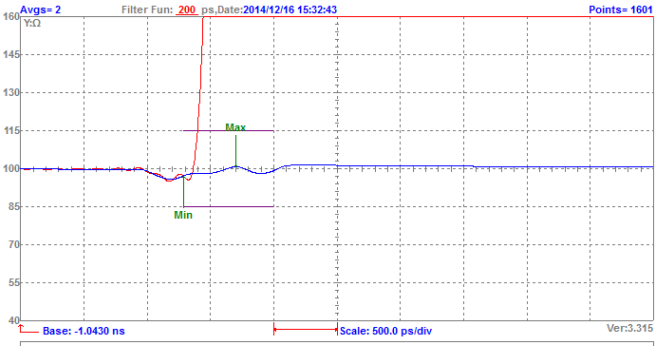
Insertion Loss For HDMI2.0 Testing:



Insertion Loss For USB3.0 Testing:

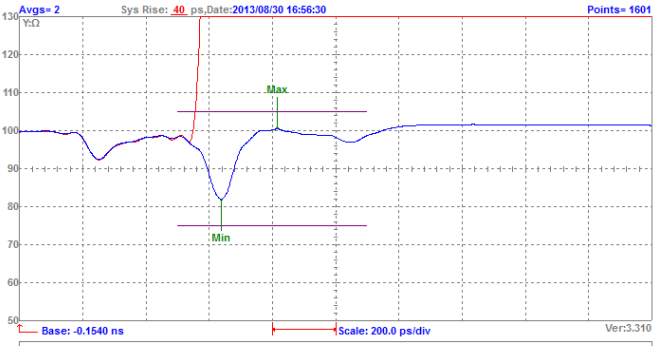


TDR For HDMI2.0 Testing:



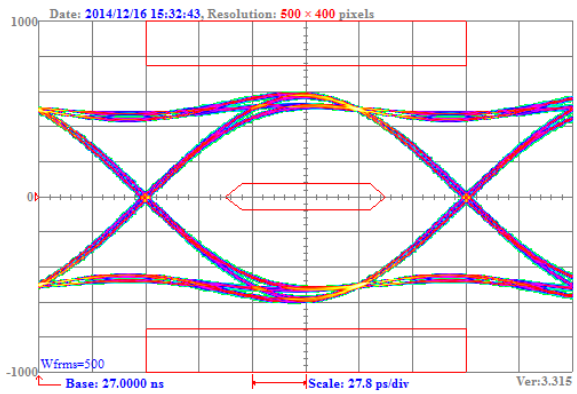
Parameter Name: HDMI Choke Impedance C1	
Spc Max: 115 Ω	Spc Min: 85 Ω
Max:100.87 Ohms at 0.6605 ns	Min:97.31 Ohms at 0.2449 ns
ΔΩ: 3.56	Avg: 99.09 Ohms
	Result: Pass

TDR For USB3.0 Testing:



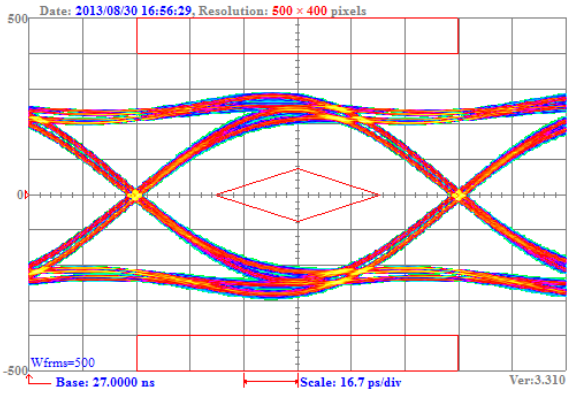
Parameter Name: Choke Impedance C1	
Spc Max: 105 Ω	Spc Min: 75 Ω
Max:100.51 Ohms at 0.6601 ns	Min:82.07 Ohms at 0.4839 ns
ΔΩ: 18.43	Avg: 91.29 Ohms
	Result: Pass

Eye Diagram For HDMI2.0 Testing:



Parameter Name: Choke Eye Diagram C1	
Display Mode: Not a standard mode	
dRate: 6 Gbits/s; 166.7 ps	V: 500 mV;Gain: 0 dB;Off: 0 mV
CAL: DONE,JGen: OFF	Result: Pass

Eye Diagram For USB3.0 Testing:



Parameter Name: USB3.0 Choke Eye Diagram C1	
Display Mode: Not a standard mode	
dRate: 10 Gbits/s; 100.0 ps	V: 250 mV;Gain: 0 dB;Off: 0 mV
CAL: DONE,JGen: OFF	Result: Pass

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Electrical Characteristics

Part Number	Impedance (Ω)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) Max	IDC (mA) Max	Rated Voltage (Vdc)	Withstamd Voltage (Vdc)	Insulation Resistance (MΩ) Min
BWCU00201212500Y03	50	25	100	0.20	500	50	125	10
BWCU00201212670Y03	67	25	100	0.30	500	50	125	10
BWCU00201212900Y03	90	25	100	0.30	500	50	125	10
BWCU00201212121Y03	120	25	100	0.35	330	50	125	10
BWCU00201212131Y03	130	25	100	0.40	300	50	125	10

Note: When ordering, please specify tolerance code. Tolerance: Y=±25%

- Operating temperature range - 40℃ ~ 105℃(Including self - temperature rise)
- IDC for Inductance drop 10% from its value without current.
- Measure Equipment：

  Z：HP4286A/HP4287A/Agilent E4991A+Agilent16197A

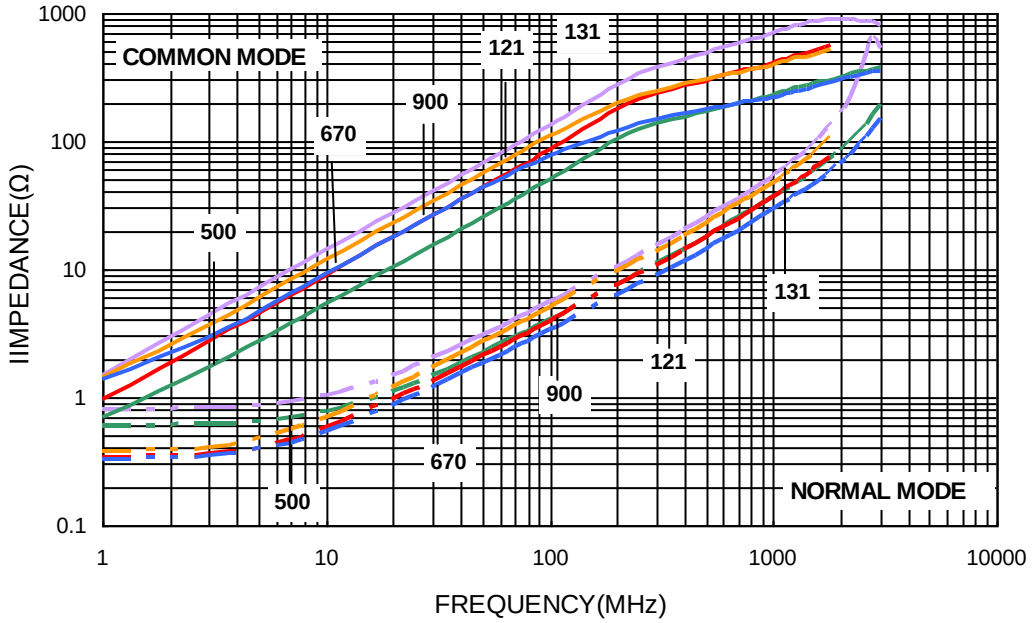
  RDC：Chroma 16502 (Single Wire Test Value)

  IDC：HP4284A+HP42841A/HP4285A+HP42841A

  Insulation Resistance：Agilent HP4339B

Test Instruments：HP4291A Material/Impedance Analyzer

Typical Impedance vs. Frequency



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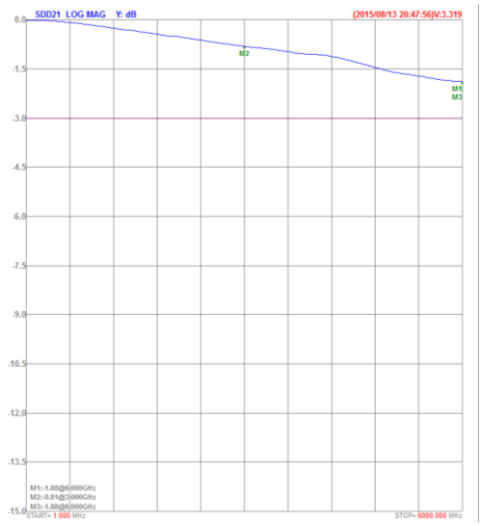
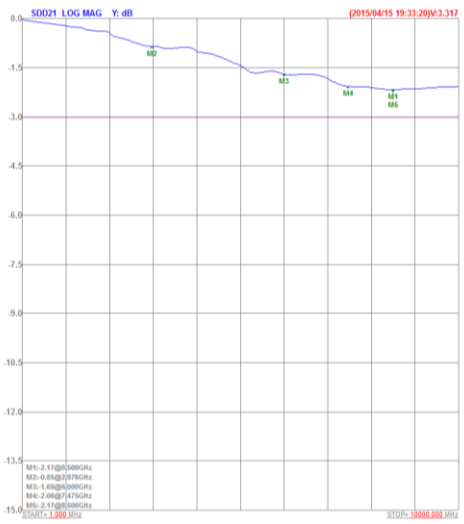
BWCU00201212500Y03

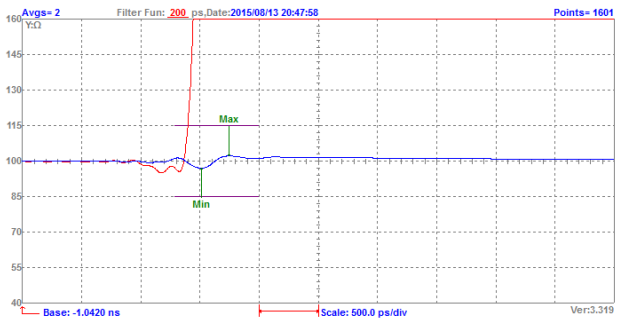
Insertion Loss For HDMI2.0 Testing:



Insertion Loss For USB3.0 Testing:

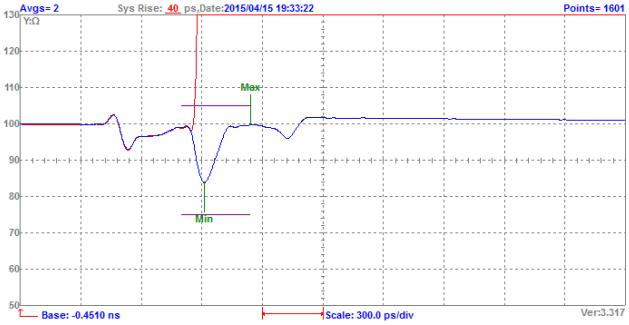


TDR For HDMI2.0 Testing:



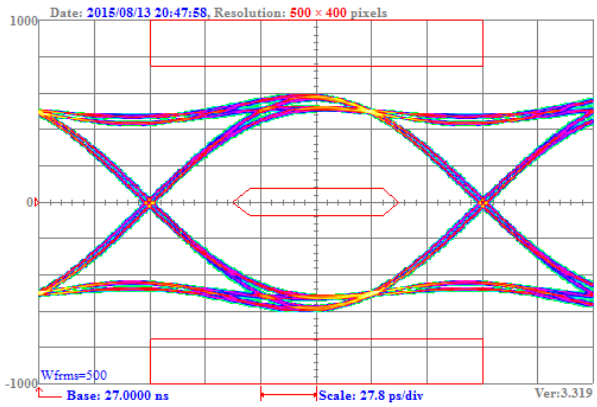
Parameter Name: HDMI Choke Impedance C1	
Spc Max: 115 Ω	Spc Min: 85 Ω
Max:102.25 Ohms at 0.7049 ns	Min:97.14 Ohms at 0.4705 ns
ΔΩ: 5.11	Avg: 99.69 Ohms
	Result: Pass

TDR For USB3.0 Testing:



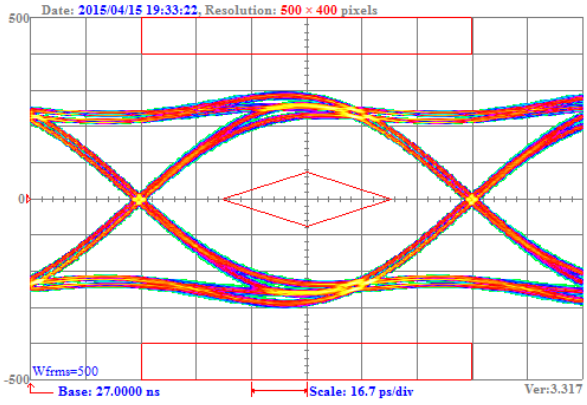
Parameter Name: Choke Impedance C1	
Spc Max: 105 Ω	Spc Min: 75 Ω
Max:99.77 Ohms at 0.6895 ns	Min:84.00 Ohms at 0.4607 ns
ΔΩ: 15.78	Avg: 91.89 Ohms
	Result: Pass

Eye Diagram For HDMI2.0 Testing:



Parameter Name: Choke Eye Diagram C1	
Display Mode: Not a standard mode	
dRate: 6 Gbits/s; 166.7 ps	V: 500 mV;Gain: 0 dB;Off: 0 mV
CAL: DONE,JGen: OFF	Result: Pass

Eye Diagram For USB3.0 Testing:



Parameter Name: Choke Eye Diagram C1	
Display Mode: Not a standard mode	
dRate: 10 Gbits/s; 100.0 ps	V: 250 mV;Gain: 0 dB;Off: 0 mV
CAL: DONE,JGen: OFF	Result: Pass

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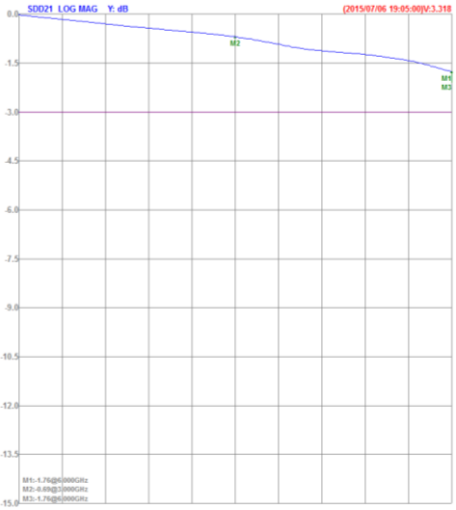
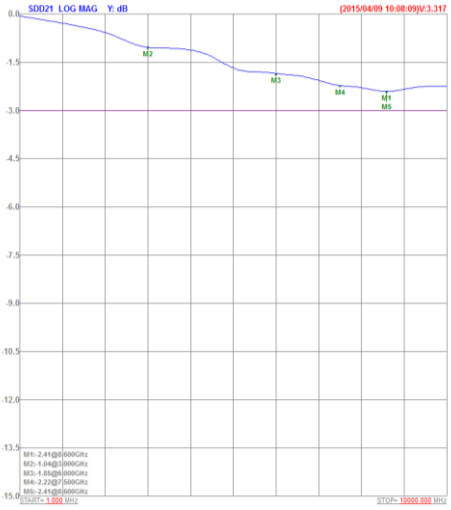
BWCU00201212670Y03

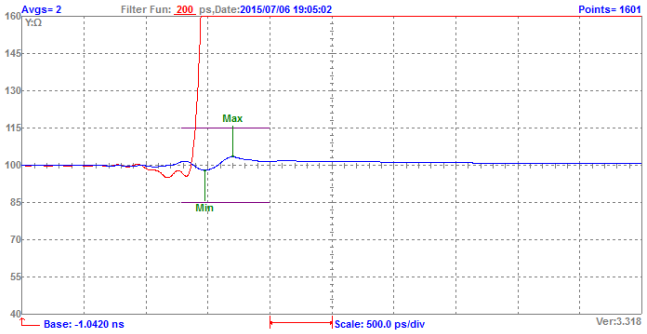
Insertion Loss For HDMI2.0 Testing:



Insertion Loss For USB3.0 Testing:

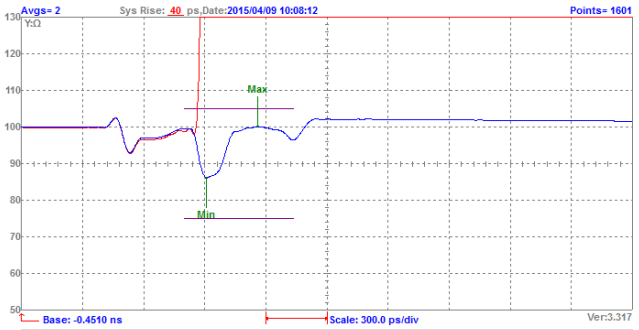


TDR For HDMI2.0 Testing:



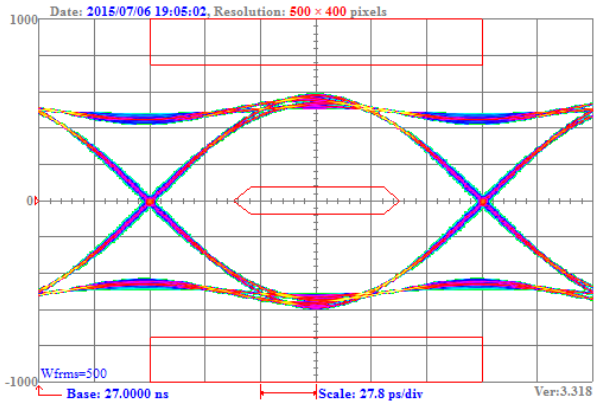
Parameter Name: HDMI Choke Impedance C1	
Spc Max: 115 Ω	Spc Min: 85 Ω
Max:103.47 Ohms at 0.6549 ns	Min:98.20 Ohms at 0.4330 ns
ΔΩ: 5.28	Avg: 100.84 Ohms
	Result: Pass

TDR For USB3.0 Testing:



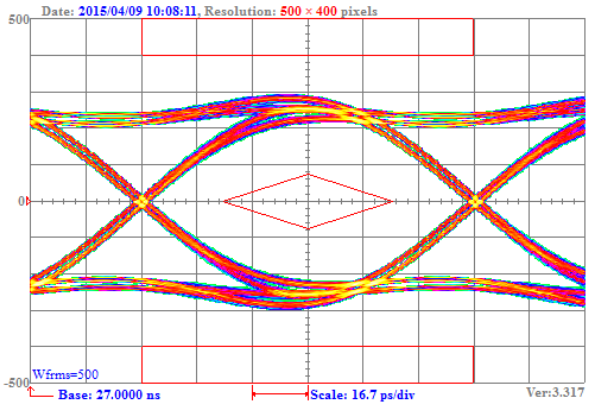
Parameter Name: Choke Impedance C1	
Spc Max: 105 Ω	Spc Min: 75 Ω
Max:100.16 Ohms at 0.7082 ns	Min:86.26 Ohms at 0.4588 ns
ΔΩ: 13.90	Avg: 93.21 Ohms
	Result: Pass

Eye Diagram For HDMI2.0 Testing:



Parameter Name: Choke Eye Diagram C1	
Display Mode: Not a standard mode	
dRate: 6 Gbits/s; 166.7 ps	V: 500 mV;Gain: 0 dB;Off: 0 mV
CAL: DONE,JGen: OFF	Result: Pass

Eye Diagram For USB3.0 Testing:

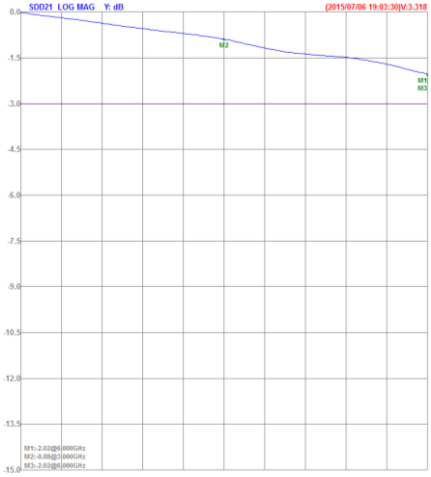


Parameter Name: Choke Eye Diagram C1	
Display Mode: Not a standard mode	
dRate: 10 Gbits/s; 100.0 ps	V: 250 mV;Gain: 0 dB;Off: 0 mV
CAL: DONE,JGen: OFF	Result: Pass

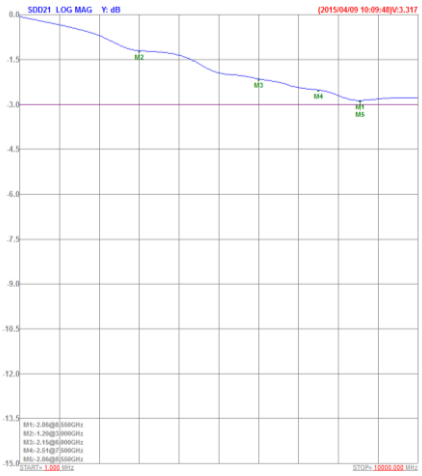
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

BWCU00201212900Y03

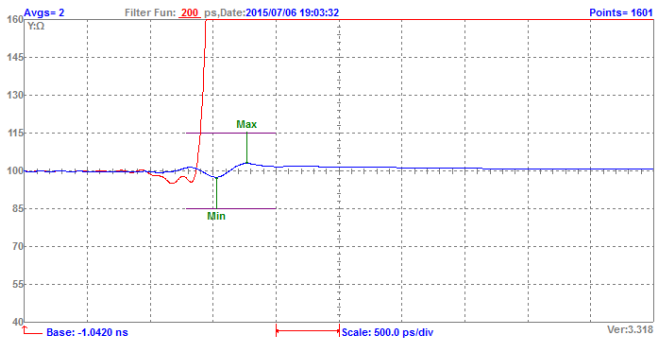
Insertion Loss For HDMI2.0 Testing:



Insertion Loss For USB3.0 Testing:

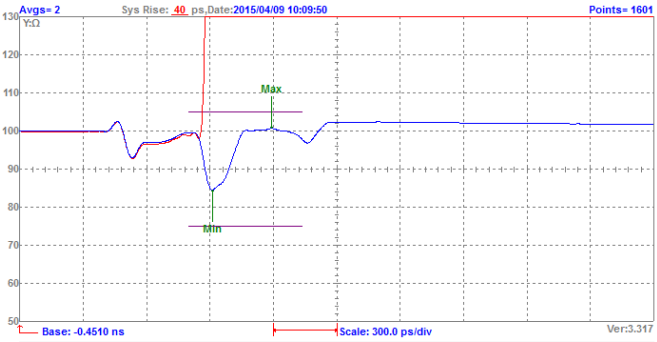


TDR For HDMI2.0 Testing:



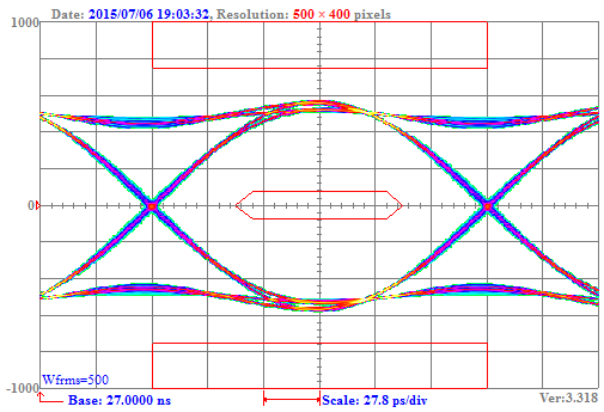
Parameter Name: HDMI Choke Impedance C1	
Spc Max: 115 Ω	Spc Min: 85 Ω
Max:103.05 Ohms at 0.7237 ns	Min:97.62 Ohms at 0.4830 ns
ΔΩ: 5.43	Avg: 100.34 Ohms
	Result: Pass

TDR For USB3.0 Testing:



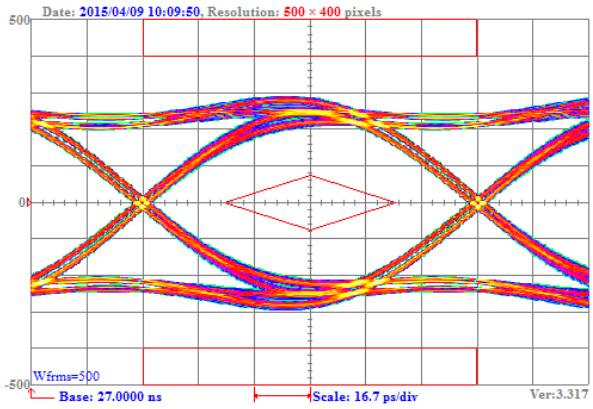
Parameter Name: Choke Impedance C1	
Spc Max: 105 Ω	Spc Min: 75 Ω
Max:100.74 Ohms at 0.7401 ns	Min:84.59 Ohms at 0.4607 ns
ΔΩ: 16.15	Avg: 92.67 Ohms
	Result: Pass

Eye Diagram For HDMI2.0 Testing:



Parameter Name: Choke Eye Diagram C1	
Display Mode: Not a standard mode	
dRate: 6 Gbits/s; 166.7 ps	V: 500 mV;Gain: 0 dB;Off: 0 mV
CAL: DONE,JGen: OFF	Result: Pass

Eye Diagram For USB3.0 Testing:



Parameter Name: Choke Eye Diagram C1	
Display Mode: Not a standard mode	
dRate: 10 Gbits/s; 100.0 ps	V: 250 mV;Gain: 0 dB;Off: 0 mV
CAL: DONE,JGen: OFF	Result: Pass

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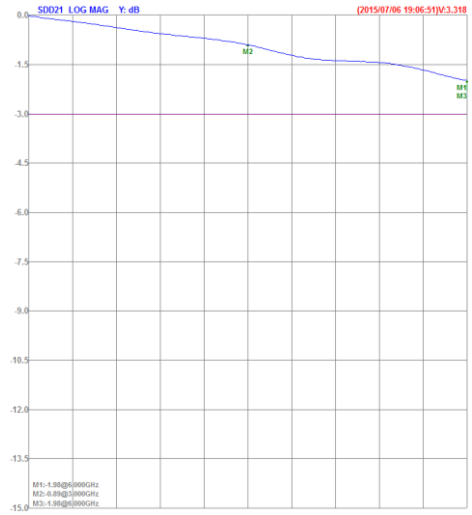
Pulse a YAGEO company

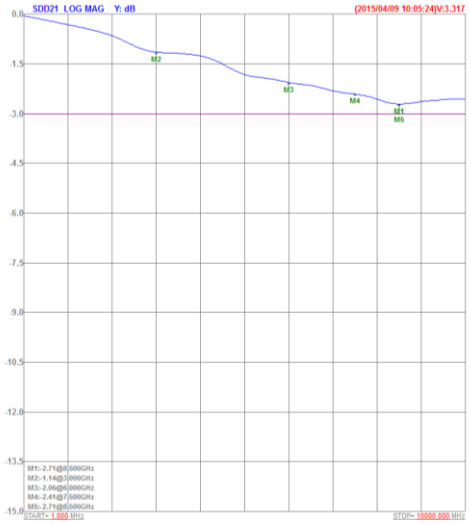
CHILISIN ELECTRONICS CORP.

BWCU00201212121Y03

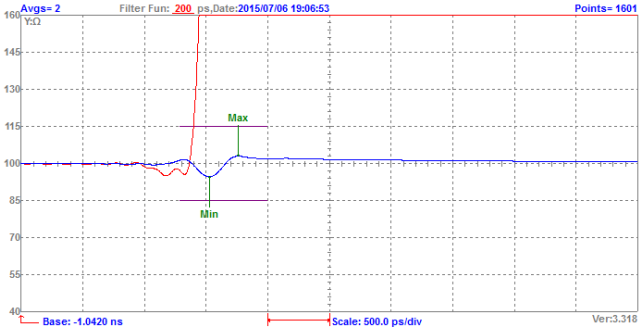
Insertion Loss For HDMI2.0 Testing:



Insertion Loss For USB3.0 Testing:

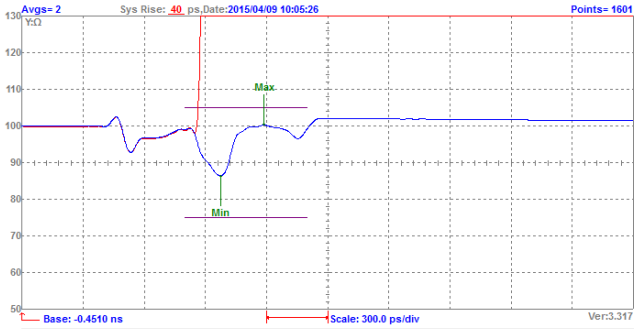


TDR For HDMI2.0 Testing:



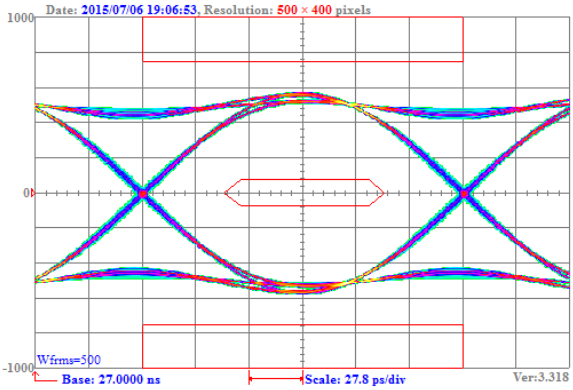
Parameter Name: HDMI Choke Impedance C1	
Spc Max: 115 Ω	Spc Min: 85 Ω
Max:103.06 Ohms at 0.7174 ns	Min:94.74 Ohms at 0.4830 ns
ΔΩ: 8.32	Avg: 98.90 Ohms
	Result: Pass

TDR For USB3.0 Testing:



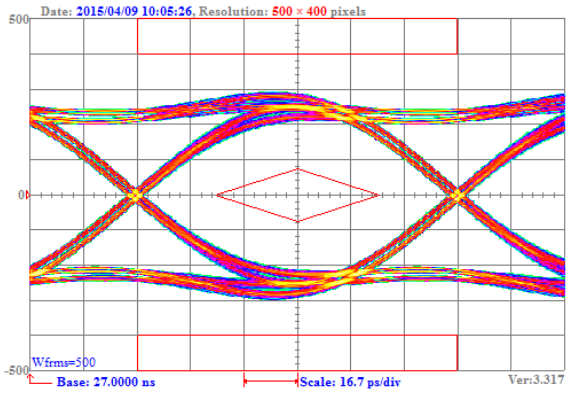
Parameter Name: Choke Impedance C1	
Spc Max: 105 Ω	Spc Min: 75 Ω
Max:100.36 Ohms at 0.7382 ns	Min:86.59 Ohms at 0.5226 ns
ΔΩ: 13.77	Avg: 93.47 Ohms
	Result: Pass

Eye Diagram For HDMI2.0 Testing:



Parameter Name: Choke Eye Diagram C1	
Display Mode: Not a standard mode	
dRate: 6 Gbits/s; 166.7 ps	V: 500 mV;Gain: 0 dB;Off: 0 mV
CAL: DONE,JGen: OFF	Result: Pass

Eye Diagram For USB3.0 Testing:



Parameter Name: Choke Eye Diagram C1	
Display Mode: Not a standard mode	
dRate: 10 Gbits/s; 100.0 ps	V: 250 mV;Gain: 0 dB;Off: 0 mV
CAL: DONE,JGen: OFF	Result: Pass

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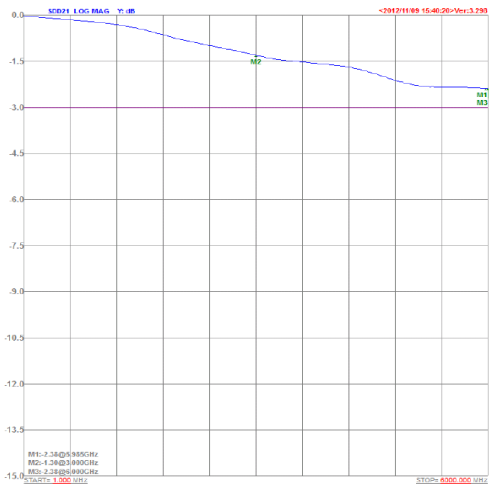
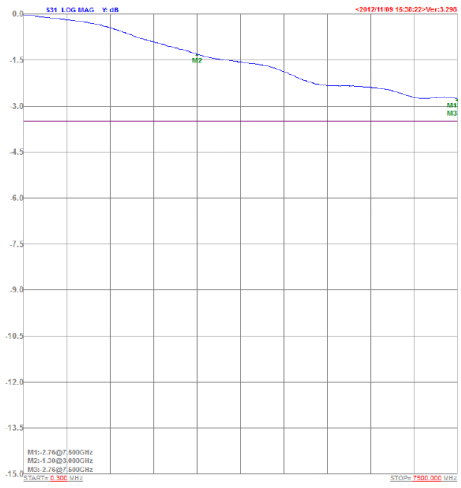
BWCU00201212131Y03

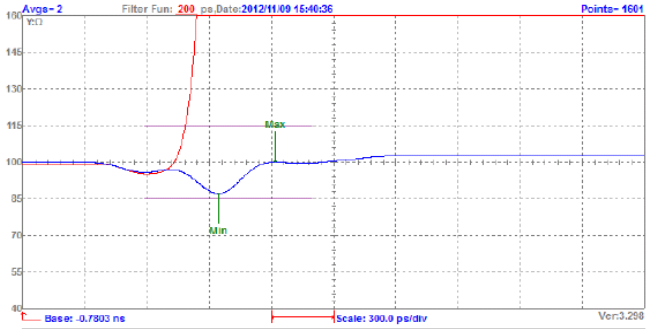
Insertion Loss For HDMI Testing:



Insertion Loss For USB3.0 Testing:

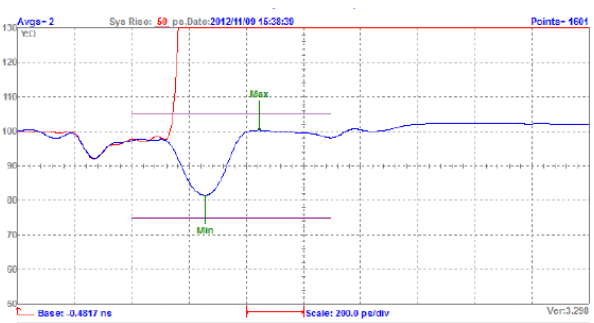


TDR For HDMI Testing:



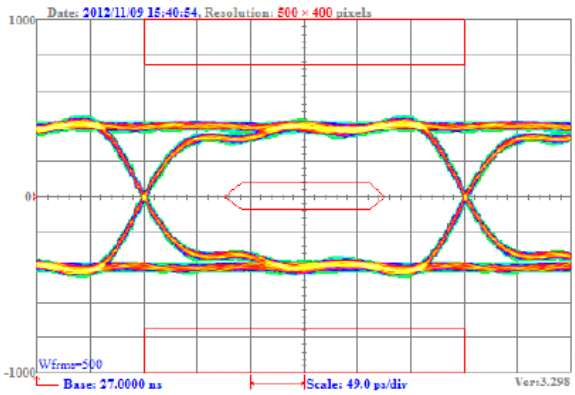
Parameter Name: HDMI Choke Impedance C1	
Spc Max: 115 Ω	Spc Min: 85 Ω
Max:100.10 Ohms at 0.3850 ns	Min:87.27 Ohms at 0.6094 ns
ΔΩ: 12.82	Avg: 93.68 Ohms
	Result: Pass

TDR For USB3.0 Testing:



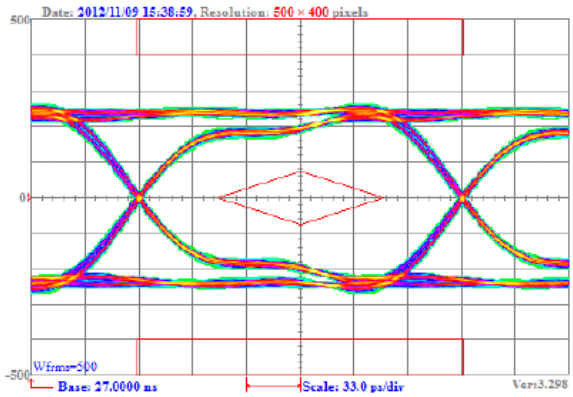
Parameter Name: Choke Impedance C1	
Spc Max: 105 Ω	Spc Min: 75 Ω
Max:100.40 Ohms at 0.3054 ns	Min:81.65 Ohms at 0.6154 ns
ΔΩ: 18.81	Avg: 91.06 Ohms
	Result: Pass

Eye Diagram For HDMI Testing:



Parameter Name: Choke Eye Diagram C1	
Display Mode: Not a standard mode	
dRate: 3.4 Gbits/s; 294.1 ps	V: 400 mV;Gain: 0 dB;Off: 0 mV
CAL: DONE,JGen: OFF	Result: Pass

Eye Diagram For USB3.0 Testing:



Parameter Name: USB3.0 Choke Eye Diagram C1	
Display Mode: Not a standard mode	
dRate: 5 Gbits/s; 200.0 ps	V: 250 mV;Gain: 0 dB;Off: 0 mV
CAL: N/A,JGen: OFF	Result: Pass

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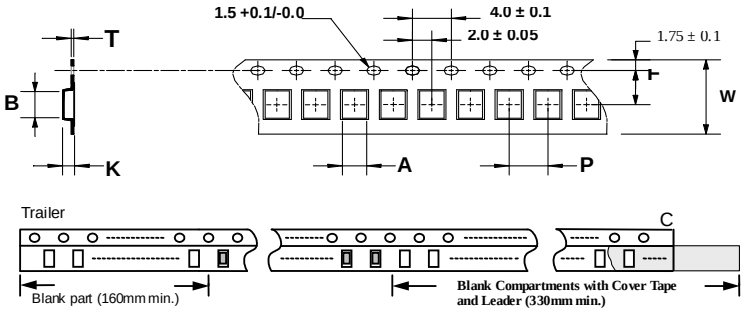
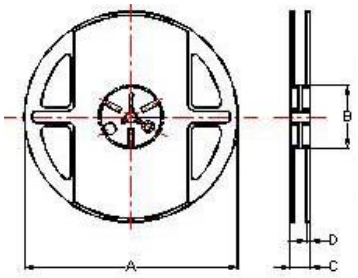
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



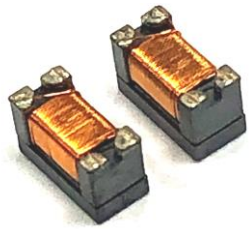
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / Reel
BWCU00121008	1.15	1.45	0.25	8	4	3.5	1.00	178	60	12	1.5	2000
BWCU00201212	1.50	2.25	0.24	8	4	3.5	1.35	178	60	12	1.5	2000

BWDM Series



A full series of common mode choke is designed for excellent noise attenuation with compact sizing for use in wide range of applications. Both standard series and custom designs are available.

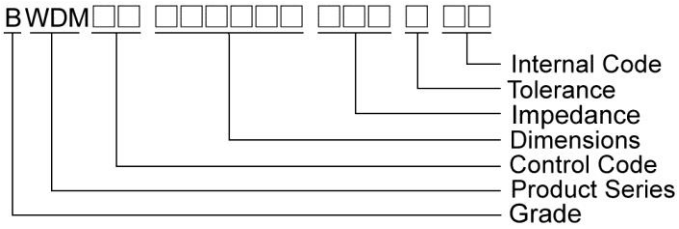
Features

- RoHS Compliant
- Miniature SMD type common mode filter for fully automated assembly
- High Inductance at high frequency effects excellent noise suppression performance
- Excellent solderability

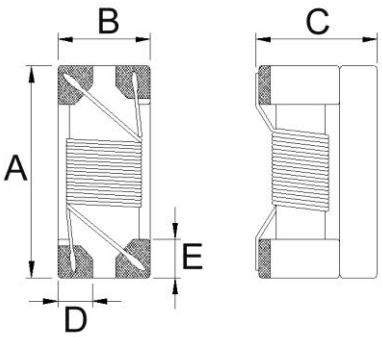
Applications

- USB line for personal computers and peripheral
- IEEE 1394 line for personal computers, DVC, STB
- LVDS, panel line for liquid display panels, graph card etc

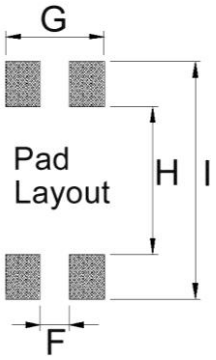
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	E	F	G	H	I
BWDM00341620	3.4±0.2	1.6±0.2	2.0±0.2	0.6	0.6	0.5	1.7	2.3	3.7

Electrical Characteristics

Part Number	Inductance (uH) Min	Test Frequency (kHz)	RDC (Ω) Max	Irms (mA) Max	Rated Voltage (Vdc)	Withstanding Voltage (Vdc)	Insulation Resistance (MΩ) Min
BWDM00341620400X00	40	100	1.5	300	50	125	10
BWDM00341620600X00	60	100	1.7	200	50	125	10
BWDM00341620101X00	105	100	3.0	120	50	125	10

- Operating temperature range - 40℃ ~ 105℃(Including self - temperature rise)
- Irms for a 20℃ temperature rise from 25℃ ambient.
- Measure Equipment：

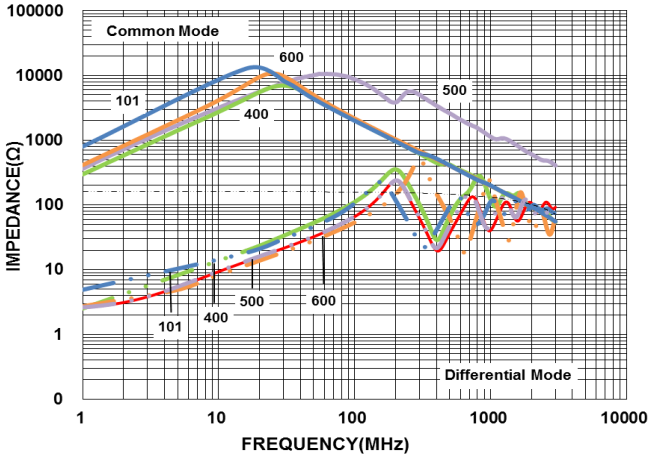
  L：Agilent HP4286A / HP4287A / AgilentE4991A

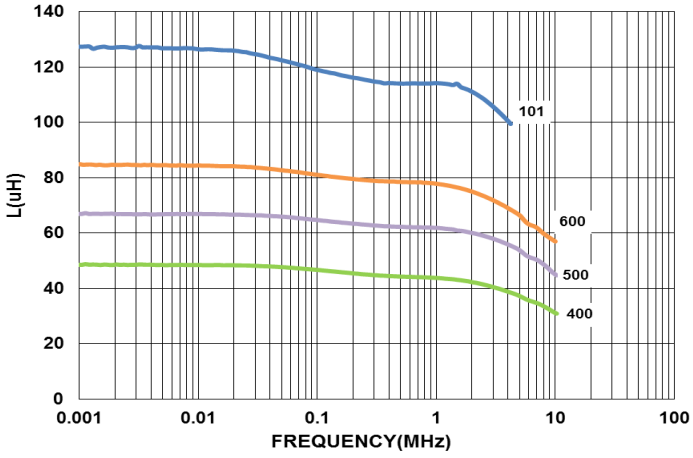
  RDC：Chroma 16502 (Single Wire Test Value)

  Irms：HP4284A+HP42841A/HP4285A+HP42841A

  Insulation Resistance：Agilent HP4339B

Test Instruments：





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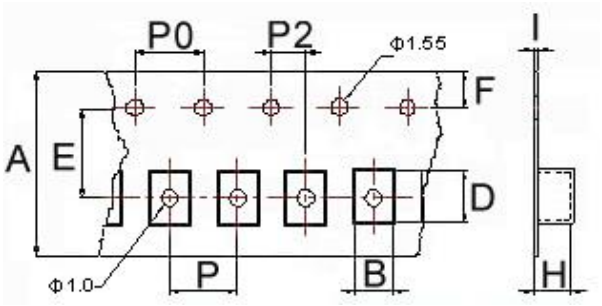
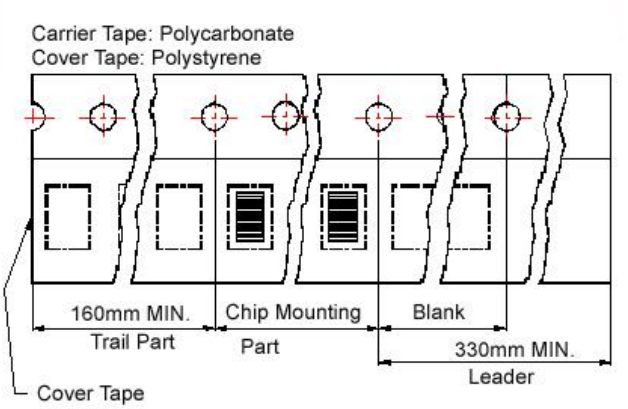
Packaging Specifications

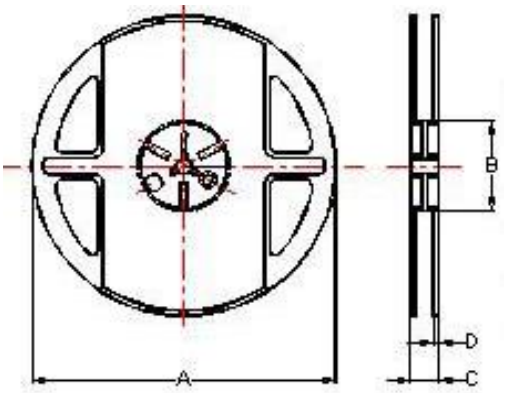
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions										Reel Dimensions				Quantity
	A	B	D	E	F	H	I	P	P0	P2	A	B	C	D	PCS / Reel
BWDM00341620	8	1.76	3.47	3.5	1.75	2.05	0.22	4	4	2	178	60	12	1.5	2000

SMD Common Mode Filter – BPPM Series

A full series of common mode choke is designed for excellent noise attenuation with compact sizing for use in wide range of applications. Both standard series and custom designs are available.

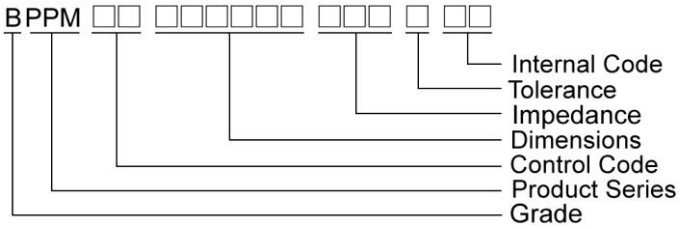
Features

- RoHS Compliant
- Miniature SMD type common mode filter for fully automated assembly
- Wide impedance range (70Ω ~ 3000Ω) for EMI suppression
- Excellent solderability

Applications

- USB line for personal computers and peripheral
- IEEE 1394 line for personal computers, DVC, STB
- LVDS, panel line for liquid display panels, graph card,etc.

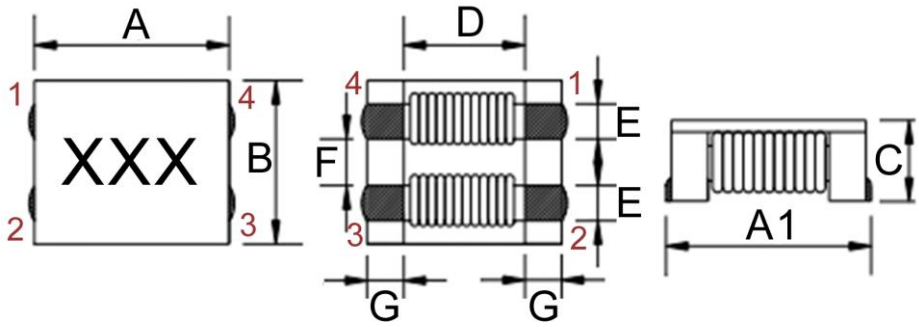
Product Identification

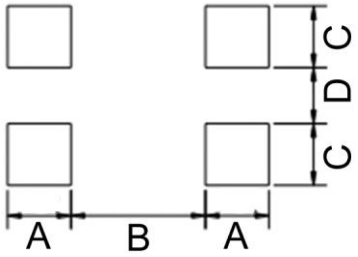


Shape and Dimensions

Recommended Pattern

BPPM00050520/ 070638/ 090748/ 121164/ 151360





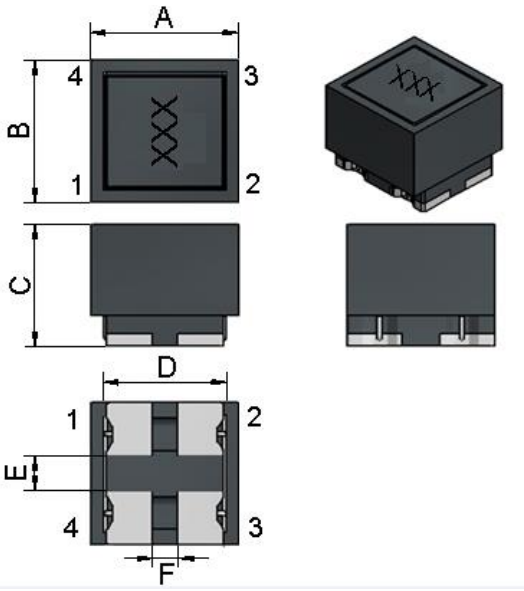
Dimensions in mm

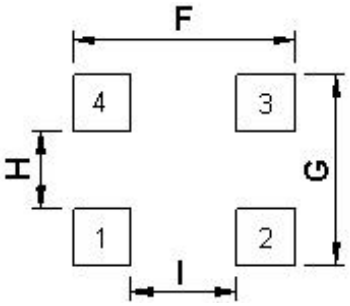
TYPE	Shape and Dimensions								Recommended Pattern			
	A	A1	B	C	D	E	F	G	A	B	C	D
BPPM00050520	4.7±0.5	-	4.5±0.5	2.0 Max	2.7	0.75	1.25	1.0	1.45	2.2	1.2	1.05
BPPM00070638	7.0±0.5	7.5±0.5	6.0±0.5	3.8 Max	3.5	1.5±0.2	1.5±0.2	1.75±0.2	2.9	3.2	1.9	1.3
BPPM00090748	9.0±0.5	9.5±0.5	7.0±0.5	4.8 Max	5.6	1.5±0.2	2.0±0.2	1.7±0.2	3.0	5.0	1.75	1.5
BPPM00121164	12±0.5	12.5±0.5	10.8±0.5	6.4 Max	7.0	2.7±0.2	2.5±0.2	2.5±0.2	3.6	6.6	3.6	2.1
BPPM00151360	15±0.5	15.5±0.5	13±0.4	6.0 Max	9.0	3.4Typ.	2.8Typ.	3.0Typ.	3.5	8.7	3.0	3.2

Shape and Dimensions

Recommended Pattern

BPPM00485023





Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern			
	A	B	C	D	E	F	F	G	H	I
BPPM00485023	4.8±0.3	5.0±0.3	2.3±0.2	3.5±0.2	2.2±0.2	1.1±0.2	4.4	5.5	2.0	0.9

Electrical Characteristics

Part Number	Impedance(Ω)		Test Frequency (MHz)	RDC (mΩ)Max	Rated Current (A)Max	Insulation Resistance (MΩ)Min	Rated Voltage (V)Max	Marking
	Min	Typ						
BPPM00050520301X0E	100	300	100	45	3.0	10	50	301
BPPM00050520401X0E	200	400	100	50	2.5	10	50	401
BPPM00050520701X0E	500	700	100	59	2.2	10	50	701
BPPM00050520102X0E	800	1000	100	68	2.1	10	50	102
BPPM00050520122X0E	1000	1200	100	74	2.0	10	50	122
BPPM00050520142X0E	1200	1400	100	81	1.9	10	50	142

Note: When ordering, please specify tolerance code.

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current：Based on temperature rise (△T:40℃ Typ.)
- Measure Equipment：

  Z：HP 4291B IMPEDANCE ANALYZER (or equivalent)

  RDC：CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)

  Insulation Resistance：CHROMA MODEL 19073 AC/DC/IR HIPOT TESTER (or equivalent)

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Impedance(Ω)		Test Frequency (MHz)	RDC (mΩ)Max	Rated Current (A)Max	Insulation Resistance (MΩ)Min	Rated Voltage (V)Max	Marking
	Min	Typ						
BPPM00070638400X00	40	70	100	5	15	10	125	400
BPPM00070638101X00	100	140	100	10	9	10	125	101
BPPM00070638301X00	225	300	100	10	5	10	125	301
BPPM00070638501X00	275	350	100	10	5	10	125	501
BPPM00070638701X00	500	700	100	15	4	10	125	701
BPPM00070638102X00	800	1020	100	17	3	10	125	102
BPPM00070638132X00	910	1300	100	21	2.5	10	125	132
BPPM00070638272X00	2000	2700	100	63	1	10	125	272
BPPM00070638302X00	2500	3000	100	75	0.9	10	125	302

Note: When ordering, please specify tolerance code.

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current：Based on temperature rise (△T:40℃ Typ.)
- Measure Equipment：

  Z：HP 4291B IMPEDANCE ANALYZER (or equivalent)

  RDC：CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Impedance(Ω)		Test Frequency (MHz)	RDC (mΩ)Max	Rated Current (A)Max	Insulation Resistance (MΩ)Min	Rated Voltage (V)Max	Marking
	Min	Typ						
BPPM00090748301X00	225	300	100	6	6	10	80	301
BPPM00090748501X00	450	600	100	8	5.5	10	80	501
BPPM00090748701X00	500	700	100	10	5	10	80	701
BPPM00090748102X00	750	1000	100	13	4	10	80	102
BPPM00090748152X00	1100	1500	100	18	3.5	10	80	152
BPPM00090748222X00	1700	2200	100	60	2.5	10	80	222
BPPM00090748272X00	2000	2700	100	86	2	10	80	272

Note: When ordering, please specify tolerance code.

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current：Based on temperature rise (△T:40℃ Typ.)
- Measure Equipment：

  Z：HP 4291B IMPEDANCE ANALYZER (or equivalent)

  RDC：CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)

  Insulation Resistance：CHROMA MODEL 19073 AC/DC/IR HIPOT TESTER (or equivalent)

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Impedance(Ω)		Test Frequency (MHz)	RDC (mΩ)Max	Rated Current (A)Max	Insulation Resistance (MΩ)Min	Rated Voltage (V)Max	Marking
	Min	Typ						
BPPM00121164800X00	80	230	100	2.2Typ	10	10	80	800
BPPM00121164701X00	500	700	100	6	8	10	80	701
BPPM00121164801X00	600	800	100	8	8	10	80	801
BPPM00121164102X00	750	1000	100	14	6	10	80	102
BPPM00121164222X00	2200	2500	10	35	1.8	10	80	222
BPPM00121164272X00	2300	2700	10	50	1.5	10	80	272

Note: When ordering, please specify tolerance code.

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current：Based on temperature rise (△T:40℃ Typ.)
- Measure Equipment：

  Z：HP 4291B IMPEDANCE ANALYZER (or equivalent)

  RDC：CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)

  Insulation Resistance：CHROMA MODEL 19073 AC/DC/IR HIPOT TESTER (or equivalent)

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Impedance (Ω)		Test Frequency (MHz)	RDC (mΩ)Max	Rated Current (A)Max	Insulation Resistance (MΩ)Min	Rated Voltage (V)Max	Marking
	Min	Typ						
BPPM00151360301X00	250	300	100	4.7	13	10	80	301
BPPM00151360551X00	450	550	100	3.8±20%	10	10	80	551
BPPM00151360701X00	500	700	100	7	10	10	80	701
BPPM00151360152X00	1100	1500	100	9	8.5	10	80	152

Note: When ordering, please specify tolerance code.

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current：Based on temperature rise (△T:40℃ Typ.)
- Measure Equipment：

  Z：HP 4291B IMPEDANCE ANALYZER (or equivalent)

  RDC：CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)

  Insulation Resistance：CHROMA MODEL 19073 AC/DC/IR HIPOT TESTER (or equivalent)

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Impedance(Ω) Typ. @10MHz	Impedance(Ω) Typ. @100MHz	RDC (mΩ) ±40%	Irms (A)Max.	Rated Voltage (V)Max.	Withstanding voltage (V)Max.	Insulation Resistance (MΩ)Min.	Marking
BPPM00485023101X00	-	100	10	6	50	125	10	101
BPPM00485023251X00	20	250	14	5	50	125	10	251
BPPM00485023501X00	30	500	19	4	50	125	10	501
BPPM00485023102X00	60	1000	24	3	50	125	10	102
BPPM00485023142X00	100	1400	40	2	50	125	10	142
BPPM00485023152X00	100	1500	40	2	50	125	10	152

Note: When ordering, please specify tolerance code.

- Operating temperature range －４０℃ ~ １２５℃(Including self - temperature rise)
- Irms:Based on temperature rise (△T:40℃ TYP)
- Measure Equipment：

  Z：HP 4291B IMPEDANCE ANALYZER (or equivalent)

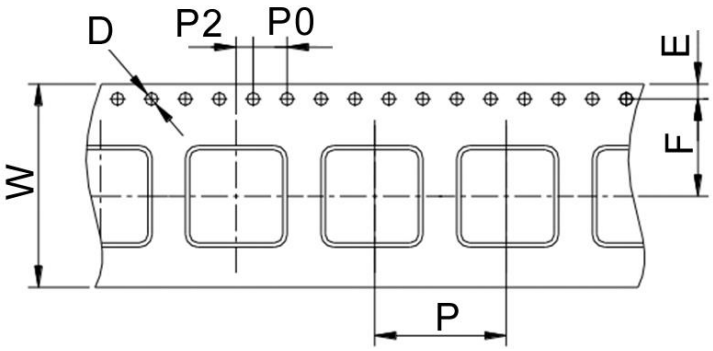
  RDC：CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)

  Insulation Resistance：CHROMA MODEL 19073 AC/DC/IR HIPOT TESTER (or equivalent)

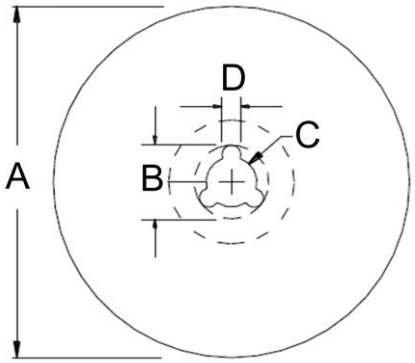
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Packaging Specifications

Tape Dimensions



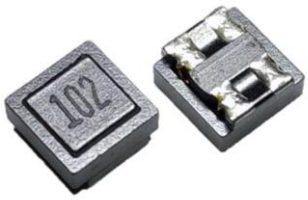
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	W	D	E	F	P	P0	P2	A	B	C	D	PCS / Reel
BPPM00050520	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
BPPM00070638	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1500
BPPM00090748	24	1.5	1.75	11.5	16	4	2.02	330	20	13	2	700
BPPM00121164	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500
BPPM00151360	24	1.5	1.75	11.5	20	4	2	330	20	13	2	450
BPPM00485023	12	1.5	1.75	5.5	8	4	2	330	21.5	13	2	2500

BPPI Series



A full series of common mode choke is designed for excellent noise attenuation with compact sizing for use in wide range of applications. Both standard series and custom designs are available.

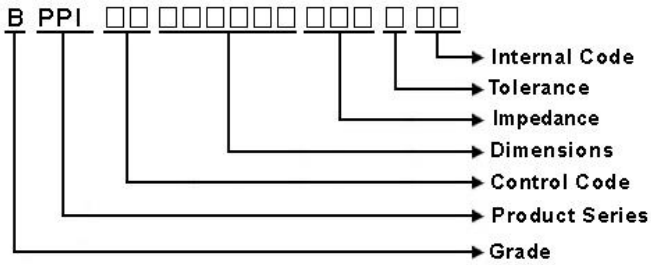
Features

- RoHS Compliant
- Miniature SMD type common mode filter for fully automated assembly
- Excellent solderability

Applications

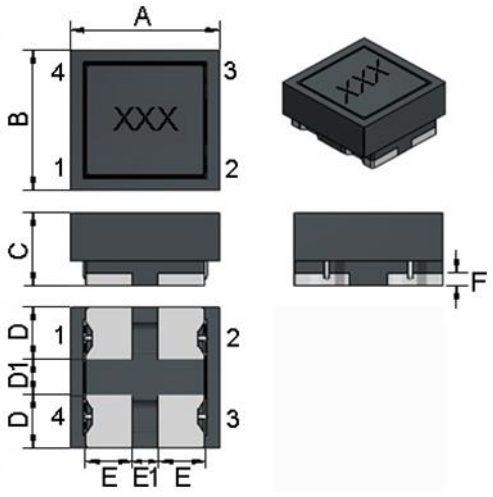
- USB line for personal computers and peripheral
- IEEE 1394 line for personal computers, DVC, STB
- LVDS, panel line for liquid display panels, graph card,etc.

Product Identification

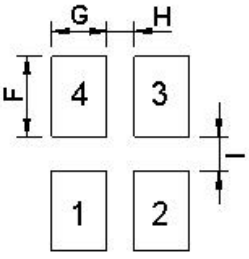


Shape and Dimensions

BPPI00050525



Recommended Pattern



Dimensions in mm

TYPE	Shape and Dimensions								Recommended Pattern			
	A	B	C	D	D1	E	E1	F	F	G	H	I
BPPI00050525	4.8±0.2	5.0±0.2	2.5Max	1.9	1.2	1.35	0.8	0.45	2.3	1.6	0.8	1.0
BPPI00050545	4.8±0.2	5.0±0.2	4.5Max	1.9	1.0	1.35	0.8	0.45	2.3	1.6	0.8	1.0

Standard Specifications

Part Number	Impedance (Ω)Min. @10MHz,0.5V	Impedance (Ω)Typ. @100MHz,0.5V	RDC (mΩ)	Irms (A)Max	Rated Voltage (V)Max	Withstanding voltage (V)Max.	Insulation Resistance (MΩ)Min.	Marking
BPPI00050525101X00	10	100	9±40%	6.0	50	125	10	101
BPPI00050525251X00	20	250	14±40%	5.0	50	125	10	251
BPPI00050525501X00	30	500	19Max.	4.0	50	125	10	501
BPPI00050525102X00	60	1000	24±40%	2.0	50	125	10	102
BPPI00050525142X00	100	1400	40±40%	1.5	50	125	10	142
BPPI00050525152X00	_	1500	40±40%	1.5	50	125	10	152

Note: When ordering, please specify tolerance code.

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Irms:Based on temperature rise (△T:40℃ TYP)
- Measure Equipment：

Z：HP 4291B IMPEDANCE ANALYZER (or equivalent)

RDC：CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)

Insulation Resistance：CHROMA MODEL 19073 AC/DC/IR HIPOT TESTER (or equivalent)

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Impedance (Ω)Typ. @100MHz,0.5V	Inductance (uH)Typ. @100KHz,0.1V	RDC (Ω)Max	Irms (A)Max	Rated Voltage (V)Max	Withstanding voltage (V)Max.	Insulation Resistance (MΩ)Min.	Marking
BPPI00050545191X00	190	0.6	0.02	5.0	50	125	10	191
BPPI00050545351X00	350	1.1	0.04	2.0	50	125	10	351
BPPI00050545102X00	1000	2.7	0.06	1.5	50	125	10	102
BPPI00050545152X00	1500	3.6	0.10	1.0	50	125	10	152
BPPI00050545302X00	3000	6.0	0.20	0.5	50	125	10	302
BPPI00050545402X00	4000	6.0	0.30	0.2	50	125	10	402

Note: When ordering, please specify tolerance code.

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Irms:Based on temperature rise (△T:40℃ TYP)
- Measure Equipment：

  Z：HP 4291B IMPEDANCE ANALYZER (or equivalent)

  L：HP4284A.

  RDC：CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)

  Insulation Resistance：CHROMA MODEL 19073 AC/DC/IR HIPOT TESTER (or equivalent)

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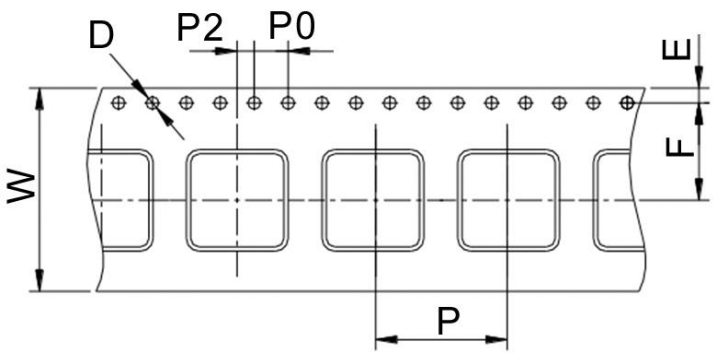
Pulse a YAGEO company

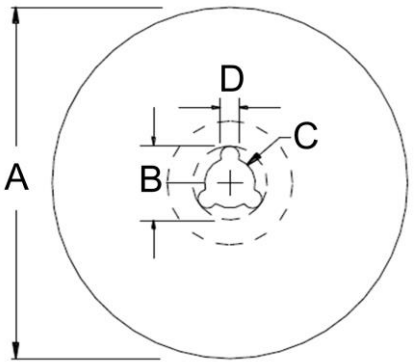
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	W	D	E	F	P	P0	P2	A	B	C	D	PCS / Reel
BPPI00050525	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2500
BPPI00050545	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000

BFDI Series

BFDI series is designed with low RDC and ultra large current. Its molded magnetic shielded type is suitable for high-density mounting and ultra low buzz noise. Soldering conditions can be easily confirmed when mounting onto the board. This series also provides customers with embossed carrier type packaging for automatic mounting machine.

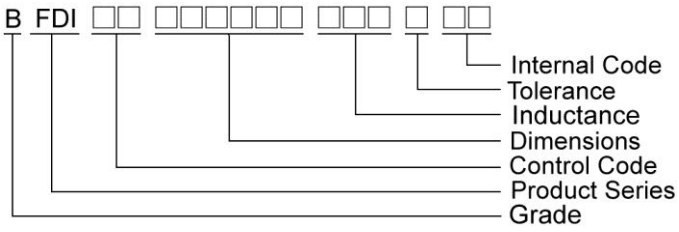
Features

- Shield construction
- Ultra low buzz noise, due to un-assembly structure
- 100% Lead free

Applications

- High density DC/DC converters
- POL convertes
- High current VRM/VRD for notebook / Server / desktop CPUs
- High speed charger

Product Identification



Shapes and Dimensions

FIG 1

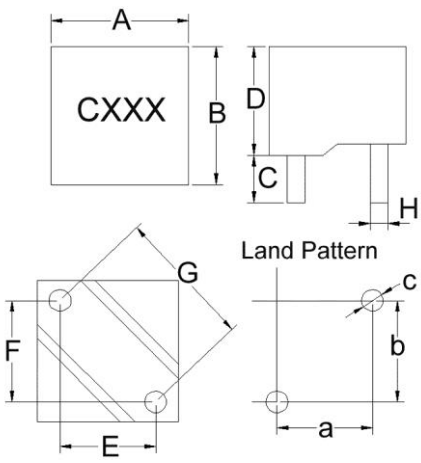


FIG 2

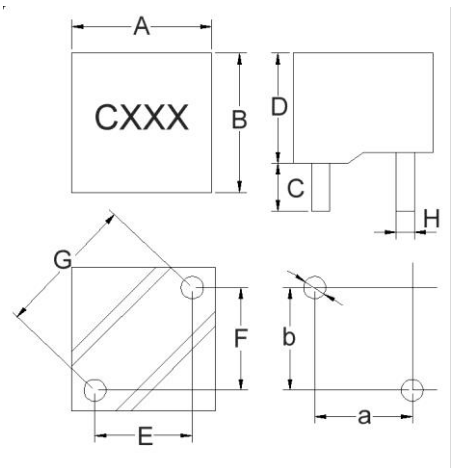
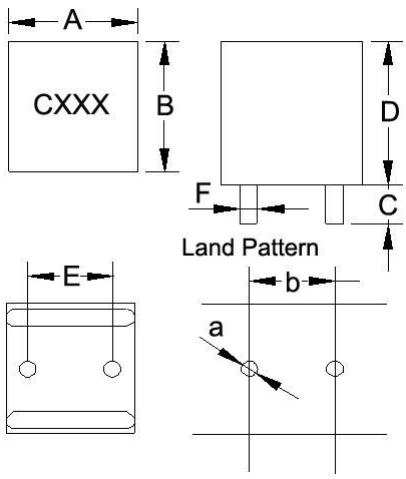


FIG 3



Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Leaded Power Chokes – BFDI Series

Dimensions in mm

TYPE	FIG	A	B	C	D	E	F	G	H	a	b	c
BFDI00070707R40M01	2	7.2±0.5	7.2±0.5	3.4±0.5	7.5Max	3.8±0.5	3.8±0.5	5.4±0.5	0.9Φ±0.1	4.3	4.3	1.4
BFDI00080806R40M01	2	8±0.5	8±0.5	3.4±0.5	5.5±0.5	4.7±0.5	4.7±0.5	6.6±0.5	1.0Φ±0.1	5.2	5.2	1.5
BFDI00080806R47M01	2	8±0.5	8±0.5	3.4±0.5	6Max	4.7±0.5	4.7±0.5	6.6±0.5	1.0Φ±0.1	5.2	5.2	1.5
BFDI000909081R0M01	3	8.5±0.5	8.5±0.5	3.4±0.5	7.5Max	5.0±0.5	0.8ø±0.1	-	-	1.3	5.5	-
BFDI000909091R0M02	3	9Max	9Max	3.4±0.5	9Max	5.0±0.5	0.8ø±0.1	-	-	1.3	5.5	-
BFDI000808091R0M01	1	8.5±0.5	8.5±0.5	3.4±0.5	9.8Max	4.2±0.5	4.2±0.5	5.9±0.5	1.1ø±0.1	4.7	4.7	1.6
BFDI000808092R2M01	1	8.5±0.5	8.5±0.5	3.4±0.5	9.8Max	4.2±0.5	4.2±0.5	5.9±0.5	0.9ø±0.1	4.7	4.7	1.4
BFDI000909091R2M02	1	9Max	9Max	3.4±0.5	9Max	4.6±0.5	4.6±0.5	6.5±0.5	0.9Φ±0.1	5.1	5.1	1.4
BFDI00101008R47M01	2	10±0.5	10±0.5	3.4±0.5	8Max	5.6±0.5	5.6±0.5	7.9±0.5	1.2Φ±0.1	6.1	6.1	1.7
BFDI00101008R56M01	2	10±0.5	10±0.5	3.4±0.5	8Max	5.6±0.5	5.6±0.5	7.9±0.5	1.2Φ±0.1	6.1	6.1	1.7
BFDI00101008R68M01	2	10±0.5	10±0.5	3.4±0.5	8Max	5.6±0.5	5.6±0.5	7.9±0.5	1.2Φ±0.1	6.1	6.1	1.7
BFDI00101008R82M01	2	10±0.5	10±0.5	3.4±0.5	8Max	5.6±0.5	5.6±0.5	7.9±0.5	1.2Φ±0.1	6.1	6.1	1.7
BFDI001010081R0M01	2	10±0.5	10±0.5	3.4±0.5	8Max	5.6±0.5	5.6±0.5	7.9±0.5	1.2Φ±0.1	6.1	6.1	1.7
BFDI001010081R2M01	2	10±0.5	10±0.5	3.4±0.5	8Max	5.6±0.5	5.6±0.5	7.9±0.5	1.2Φ±0.1	6.1	6.1	1.7
BFDI00101009R22M01	2	10±0.5	10±0.5	3.4±0.5	9.8Max	5.6±0.5	5.6±0.5	7.9±0.5	1.2Φ±0.1	6.1	6.1	1.7
BFDI00101009R68M01	2	10.5Max	10.5Max	3.4±0.5	9.8Max	5.6±0.5	5.6±0.5	7.9±0.5	1.4ø±0.1	6.1	6.1	1.9
BFDI00101009R80M01	2	10.5Max	10.5Max	3.4±0.5	9.8Max	4.5±0.5	6.0±0.5	7.5±0.5	1.2Φ±0.1	5.0	6.5	1.7
BFDI001010091R0M01	2	10±0.5	10±0.5	3.4±0.5	9.8Max	5.6±0.5	5.6±0.5	7.9±0.5	1.2Φ±0.1	6.1	6.1	1.7
BFDI001010091R2M02	2	10.5Max	10.5Max	3.4±0.5	9.8Max	5.6±0.5	5.6±0.5	7.9±0.5	1.3ø±0.1	6.1	6.1	1.8
BFDI001007091R0M01	2	10±0.5	7±0.5	3.4±0.5	9.8Max	3.6±0.5	6.2±0.5	7.2±0.5	0.9Φ±0.1	4.1	6.7	1.4
BFDI00100709R47M01	2	10±0.5	7±0.5	3.4±0.5	9.8Max	3.6±0.5	6.2±0.5	7.2±0.5	1.0Φ±0.1	4.1	6.7	1.5
BFDI00100709R56M01	2	10±0.5	7±0.5	3.4±0.5	9.8Max	3.6±0.5	6.2±0.5	7.2±0.5	1.0Φ±0.1	4.1	6.7	1.5
BFDI00100709R68M01	2	10±0.5	7±0.5	3.4±0.5	9.8Max	3.6±0.5	6.2±0.5	7.2±0.5	1.0Φ±0.1	4.1	6.7	1.5
BFDI00100709R82M01	2	10±0.5	7±0.5	3.4±0.5	9.8Max	3.6±0.5	6.2±0.5	7.2±0.5	1.0Φ±0.1	4.1	6.7	1.5
BFDI00111108R36M01	1	11.5±0.5	11.5±0.5	3.5±0.5	7.4±0.2	5.7±0.5	6.3±0.5	8.5±0.5	1.5Φ±0.1	6.2	6.8	2
BFDI00111108R47M01	1	11.5±0.5	11.5±0.5	3.4±0.5	7.5±0.5	6.7±0.5	5.6±0.5	8.73±0.5	1.5Φ±0.1	7.2	6.1	2
BFDI00110908R30M02	1	11.5Max	9.5Max	3.4±0.5	8.5Max	6.6±0.5	4.2±0.5	7.8±0.5	1.5ø±0.1	7.1	4.7	2
BFDI00110909R36M01	1	11.7Max	9.7Max	3.5±0.5	8.8Max	6.6±0.5	4.2±0.5-	7.8±0.5	1.4ø±0.1	7.1	4.7	1.9
BFDI00111108R60M01	1	11.7Max	11.7Max	3.5±0.5	8.5Max	6.3±0.5	5.7±0.5	8.5±0.5	1.5ø±0.1	6.8	6.2	2
BFDI001111081R8M01	1	11.7Max	11.7Max	3.5±0.5	8.5Max	6.6±0.5	6.6±0.5	9.3±0.5	1.2ø±0.1	7.1	7.1	1.7
BFDI001111091R0M01	2	11.8Max	11.8Max	3.4±0.5	9.8Max	6.0±0.5	6.7±0.5	9.0±0.5	1.5Φ±0.1	6.5	7.2	2
BFDI001111091R2M01	2	11.5Max	11.5Max	3.4±0.5	9.8Max	6.7±0.5	6.0±0.5	9+0.3-0.5	1.5ø±0.1	7.2	6.5	2
BFDI001111091R5M02	1	11.5±0.5	11.5±0.5	3.4±0.5	9.5±0.5	7.3±0.5	7.3±0.5	10.3±0.5	1.4ø±0.1	7.8	7.8	1.9
BFDI00111109R30M01	1	11.5±0.5	11.5±0.5	3.4±0.5	9.5±0.5	7.3±0.5	6.0±0.5	9.4±0.5	1.4ø±0.1	7.8	6.5	1.9
BFDI00111009R56M01	1	11.7Max	9.7Max	3.5±0.5	9.5Max	6.6±0.5	4.2±0.5	7.8±0.5	1.3ø±0.1	7.1	4.7	1.8
BFDI00111109R60M01	2	11.8Max	11.8Max	3.4±0.5	9.8Max	6.0±0.5	6.7±0.5	9.0±0.5	1.5Φ±0.1	6.5	7.2	2
BFDI00111110R68M01	2	11.8Max	11.8Max	3.4±0.5	9.8Max	6.7±0.5	6.0±0.5	9+0.3-0.5	1.5ø±0.1	7.2	6.5	2
BFDI001111101R1M01	1	11.6Max	11.6Max	3.2±0.5	10Max	6.7±0.5	6.0±0.5	9.0±0.5	1.4ø±0.1	7.2	6.5	1.9
BFDI00111108R22M01	2	11.5±0.5	11.5±0.5	3.4±0.5	8Max	7.3±0.5	6.0±0.5	9.4±0.5	1.4ø±0.1	7.8	6.5	1.9
BFDI00111108R36M01	1	12Max	12Max	3.5±0.5	8Max	5.7±0.5	6.3±0.5	8.5±0.5	1.5ø±0.1	6.2	6.8	2
BFDI00111108R47M02	2	12Max	12Max	3.4±0.5	8Max	7.3±0.5	6.0±0.5	9.4±0.5	1.4ø±0.1	7.8	6.5	1.9
BFDI00111109R47M01	2	12Max	12Max	3.4±0.5	9Max	7.3±0.5	6.0±0.5	9.4±0.5	1.4ø±0.1	7.8	6.5	1.9
BFDI00111110R68M01	2	12Max	12Max	3.4±0.5	9Max	7.3±0.5	6.0±0.5	9.4±0.5	1.4ø±0.1	7.8	6.5	1.9
BFDI001111091R0M01	2	12Max	12Max	3.4±0.5	9Max	7.3±0.5	6.0±0.5	9.4±0.5	1.5ø±0.1	7.8	6.5	2
BFDI001111092R5M01	1	12Max	12Max	3.4±0.5	9Max	6.6±0.5	6.6±0.5	9.3±0.5	1.2ø±0.1	7.1	7.1	1.7
BFDI00121210100M01	2	12±0.5	12±0.5	3.4±0.5	10Max	7.0±0.5	7.0±0.5	10.0±0.3	1.0Φ±0.1	7.5	7.5	2
BFDI001212104R7M01	1	12Max	12Max	3.4±0.5	10Max	7.0±0.5	7.0±0.5	10±0.5	1.1ø±0.1	7.5	7.5	1.6
BFDI00111109R47M01	1	12Max	12Max	3.4±0.5	10Max	7.3±0.5	6.0±0.5	9.4±0.5	1.4ø±0.1	7.8	6.5	1.9
BFDI001312101RM02	2	13±0.5	12±0.5	3.4±0.5	10Max	7.6±0.5	6.6±0.5	10±0.5	1.5ø±0.2	8.1	7.1	2

BFDI Series

BFDI series is designed with low RDC and ultra large current. Its molded magnetic shielded type is suitable for high-density mounting and ultra low buzz noise. Soldering conditions can be easily confirmed when mounting onto the board. This series also provides customers with embossed carrier type packaging for automatic mounting machine.

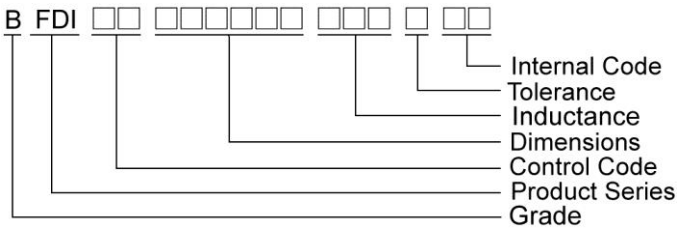
Features

- Shielded type
- Low RDC
- High saturation current
- High rated current
- AEC-Q200 qualified

Applications

- DC/DC converters
- Engine and transmission control units
- Noise suppression for motors
  - -Windshield wipers
  - -Power seats
  - -Heating and ventilation blowers
  - -HID lighting
- LED drivers

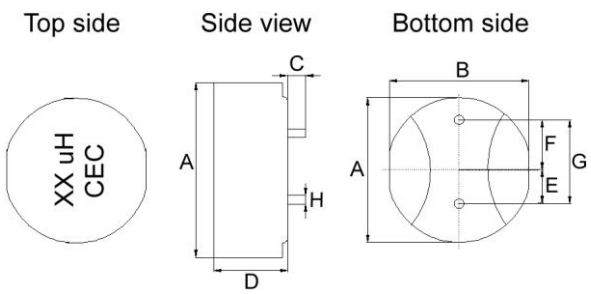
Product Identification

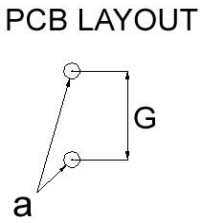


Shapes and Dimensions

Recommended Pattern

FIG 4





Dimensions in mm

TYPE	FIG	A	B	C	D	E	F	G	H	a
BFDI003030121R0M01	4	30±0.4	30±0.4	4±0.5	12±0.5	6.8±0.5	9.2±0.5	16±0.5	2.5φ±0.1	2.9
BFDI003030122R2M01	4	30±0.4	30±0.4	4±0.5	12±0.5	6.8±0.5	9.2±0.5	16±0.5	2.5φ±0.1	2.9
BFDI003030123R3M01	4	30±0.4	30±0.4	4±0.5	12±0.5	6.2±0.5	9.8±0.5	16±0.5	2.0φ±0.1	2.4
BFDI003030124R7M01	4	30±0.4	30±0.4	4±0.5	12±0.5	6.8±0.5	9.2±0.5	16±0.5	2.3φ±0.1	2.7
BFDI003030126R8M01	4	30±0.4	30±0.4	4±0.5	12±0.5	6.8±0.5	9.2±0.5	16±0.5	2.3φ±0.1	2.7
BFDI003030128R2M01	4	30±0.4	30±0.4	4±0.5	12±0.5	6.2±0.5	9.8±0.5	16±0.5	2.0φ±0.1	2.4
BFDI00303012100M01	4	30±0.4	30±0.4	4±0.5	12±0.5	6.2±0.5	9.8±0.5	16±0.5	1.8φ±0.1.	2.2
BFDI00303012150M01	4	30±0.4	30±0.4	4±0.5	12±0.5	6.2±0.5	9.8±0.5	16±0.5	1.8φ±0.1	2.2

Dimensions in mm

TYPE	FIG	A	B	C	D	E	F	G	H	a
BFDI00303012220M01	4	30±0.4	30±0.4	4±0.5	12±0.5	5.75±0.5	9.25±0.5	15±0.5	1.6φ±0.1	2.0
BFDI00303012330M01	4	30±0.4	30±0.4	4±0.5	12±0.5	5.4±0.5	9.6±0.5	15±0.5	1.3φ±0.1	1.7
BFDI00303012470M01	4	30±0.4	30±0.4	4±0.5	12±0.5	5.4±0.5	9.6±0.5	15±0.5	1.3φ±0.1	1.7
BFDI00303012680M01	4	30±0.4	30±0.4	4±0.5	12±0.5	5.7±0.5	9.3±0.5	15±0.5	1.1φ±0.1	1.5
BFDI00303012101M01	4	30±0.4	30±0.4	4±0.5	12±0.5	5.7±0.5	9.3±0.5	15±0.5	1.1φ±0.1	1.5
BFDI00303012121M01	4	30±0.4	30±0.4	4±0.5	12±0.5	5.7±0.5	9.3±0.5	15±0.5	1.1φ±0.1	1.5

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A) Typ.	Irms (A) Typ.
BFDI000909091R0M02	1.00	20	100/ 1V	4.0	12	16
BFDI000808091R0M01	1.00	20	100/ 1V	1.8	23	35
BFDI000808092R2M01	2.20	20	100/ 1V	3.5	13	17
BFDI00110908R30M02	0.30	20	100/ 1V	1.0	50	38
BFDI00110909R36M01	0.36	20	100/ 1V	0.7	50	43
BFDI001111081R8M01	1.80	20	100/ 1V	3.0	24	24
BFDI00111109R56M01	0.56	20	100/ 1V	1.08	50	37
BFDI00111110R68M01	0.68	20	100/ 1V	1.2	40	35
BFDI001111101R1M01	1.10	20	100/ 1V	1.5	35	28
BFDI00111108R22M01	0.22	20	100/ 1V	0.6	75	38
BFDI00111108R47M01	0.47	20	100/ 1V	0.9	55	38
BFDI00111109R47M01	0.47	20	100/ 1V	0.9	50	38
BFDI00111110R68MR1	0.68	20	100/ 1V	1.2	45	35
BFDI001111091R0M01	1.00	20	100/ 1V	1.5	35	35
BFDI001111092R5M01	2.50	20	100/ 1V	2.6	25	27
BFDI00111109R47M01	0.47	20	100/ 1V	1.0	50	30
BFDI001212104R7M01	4.70	20	100/ 1V	6.0	12	17

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (KHz)	RDC (mΩ) Max (Typ)	Isat (A) Typ.	Irms (A) Typ.
BFDI003030121R0M01	1.0	20	100/ 1V	0.6(0.38)	62	75
BFDI003030122R2M01	2.2	20	100/ 1V	1.0(0.7)	43	60
BFDI003030123R3M01	3.3	20	100/ 1V	1.5(1.06)	36	50
BFDI003030124R7M01	4.7	20	100/ 1V	1.6(1.24)	33	46
BFDI003030126R8M01	6.8	20	100/ 1V	2.0(1.7)	27	41
BFDI003030128R2M01	8.2	20	100/ 1V	2.5(2.1)	25	35
BFDI00303012100M01	10	20	100/ 1V	3.0(2.85)	22	31
BFDI00303012150M01	15	20	100/ 1V	4.5(4.11)	19	28
BFDI00303012220M01	22	20	100/ 1V	6.2(5.8)	14	24
BFDI00303012330M01	33	20	100/ 1V	11(8.97)	12	20
BFDI00303012470M01	47	20	100/ 1V	15(13.15)	12.5	16
BFDI00303012680M01	68	20	100/ 1V	25(22.8)	9	12
BFDI00303012101M01	100	20	100/ 1V	32.5(30.3)	8	10
BFDI00303012121M01	120	20	100/ 1V	36.5(34.3)	7	8

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Customized Specifications are welcome
- Isat for Inductance drop 25% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

  L：WK4237

  RDC：CHEN HWA502

  Isat & Irms：WK3260B/ 3265

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A) Typ.	Irms (A) Typ.
BFDI00070707R40M01	0.4	20	100/ 1V	1.60	27	16
BFDI00080806R40M01	0.4	20	100/ 1V	1.45	31	25
BFDI00080806R47M01	0.47	20	100/ 1V	1.50	22 Max	22 Max
BFDI000909081R0M01	1.0	20	100/ 1V	4.00	28	15
BFDI000909091R2M02	1.2	20	100/ 1V	3.00	20 Max	20 Max
BFDI00101008R47M01	0.47	20	100/ 1V	1.05	48	20
BFDI00101008R56M01	0.56	20	100/ 1V	1.25	43	35
BFDI00101008R68M01	0.68	20	100/ 1V	1.35	35	28
BFDI00101008R82M01	0.82	20	100/ 1V	1.50	38	28
BFDI001010081R0M01	1.0	20	100/ 1V	1.6	33	25
BFDI001010081R2M01	1.2	20	100/ 1V	1.65	36	28
BFDI00101009R22M01	0.22	20	100/ 1V	0.7	41 Max	25 Max
BFDI00101009R68M01	0.68	20	100/ 1V	1.2	49	30
BFDI00101009R80M01	0.8	20	100/ 1V	1.2	25 Max	30 Max
BFDI001010091R0M01	1.0	20	100/ 1V	1.65	22 Max	24 Max
BFDI001010091R2M02	1.2	20	100/ 1V	1.7	33	28
BFDI00111108R36M01	0.36	20	100/ 1V	0.8	60 Max	45 Max
BFDI00111108R47M02	0.47	20	100/ 1V	1.0	40	32
BFDI00111108R60M01	0.6	20	100/ 1V	1.0	40	35

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Customized Specifications are welcome
- Isat for Inductance drop 25% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

  L：WK4237

  RDC：CHEN HWA502

  Isat & Irms：WK3260B/ 3265

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A) Typ.	Irms (A) Typ.
BFDI00100709R47M01	0.47	20	100/ 1V	1.3	37	25
BFDI00100709R56M01	0.56	20	100/ 1V	1.6	33	15
BFDI00100709R68M01	0.68	20	100/ 1V	1.9	28	30
BFDI00100709R82M01	0.82	20	100/ 1V	2.2	26	15
BFDI001007091R0M01	1.0	20	100/ 1V	2.9	22	18
BFDI00111109R30M01	0.3	20	100/ 1V	0.7	46	40
BFDI00111109R60M01	0.6	20	100/ 1V	0.93	31 Max	40 Max
BFDI001111091R0M01	1.0	20	100/ 1V	1.37	31 Max	25 Max
BFDI001111091R2M01	1.2	20	100/ 1V	1.2	40	30
BFDI001111091R5M02	1.5	20	100/ 1V	1.85	42	28
BFDI00111108R36M01	0.36	20	100/ 1V	0.8	60	40
BFDI00111109R68M01	0.68	20	100/ 1V	1.2	45	35
BFDI001212104R7M01	4.7	20	200/ 0.1V	6	16	15
BFDI00121210100M01	10	20	200/ 0.1V	9.3	8	8
BFDI001312101R0M02	1.0	20	200/ 0.1V	1.3	40	30

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Customized Specifications are welcome
- Isat for Inductance drop 30% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

  L：WK4237

  RDC：CHEN HWA502

  Isat & Irms：WK3260B/ 3265

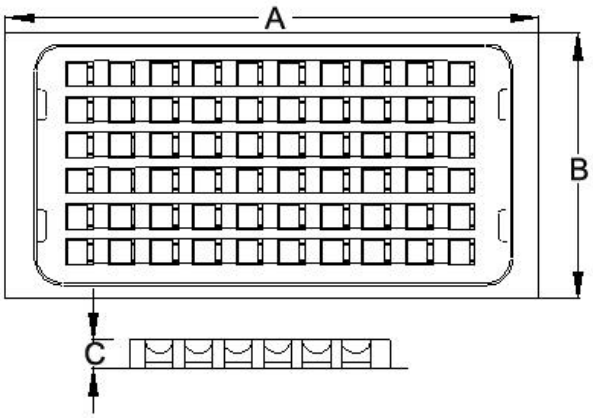
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

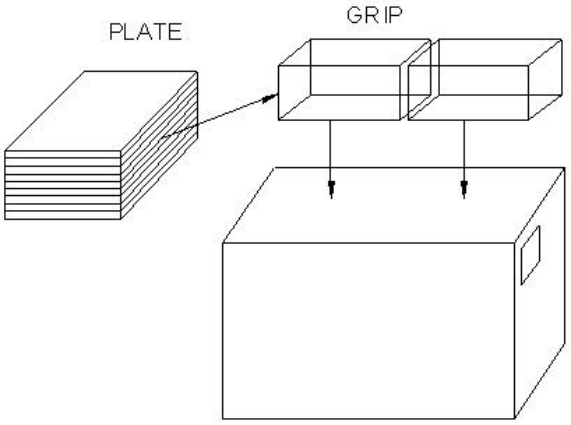
CHILISIN ELECTRONICS CORP.

Packaging

PLATE DIMENSIONS



PACKAGING QUANTITY



Dimensions in mm

TYPE	PLATE DIMENSIONS			QUANTITY				
	A	B	C	BULK	PLATE	PLATE/GRIP	GRIP	BOX
BFDI00070707	250	220	10	ˇ	100	10	2	2000
BFDI00080806	252	140	11	ˇ	140	9	2	2520
BFDI000909xx	250	220	10	ˇ	100	10	2	2000
BFDI00101008	250	220	13.5	ˇ	100	8	8	1600
BFDI00101009	251	138	13.0	ˇ	60	8	2	960
BFDI00100709	250	220	13.5	ˇ	100	8	2	1600
BFDI001109xx	250	220	13.5	ˇ	100	8	2	1600
BFDI00111009	250	220	13.5	ˇ	100	8	2	1600
BFDI001111xx	250	220	13.5	ˇ	100	8	2	1600
BFDI00121210	250	220	13.5	ˇ	100	8	2	1600
BFDI00131210	250	220	12	ˇ	50	8	2	800
BFDI00301210	250	220	24	ˇ	25	5	2	250