Pulse
a YAGEO company

CHILISIN
CHILISIN ELECTRONICS CORP.

Total Solution Provider for Power, EMI and RF.

Inductors
SMD Components

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Power Inductor AKPx Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Noise Suppression | Shield | Multilayer | Ferrite | General Signal line

Part Numbering

A	KPx	00	201610	1R0	M	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
	KPB		1608DZ 1.6x0.8x0.8	R47 0.47	T ±30%	A2
	KPE		201210 2.0x1.25x1.0	1R0 1.0	M ±20%	A6
			201610 2.0x1.6x1.0			
			252010 2.5x2.0x1.0			

This specification applies to Multilayer Chip Inductors for Automotive Electronics based on AEC-Q200 except for Power train and Safety.

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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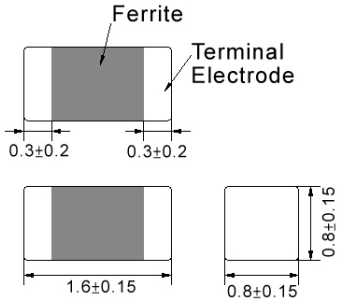
CHILISIN ELECTRONICS CORP.

Power Inductor AKPx Series

Automotive
AEC-Q200

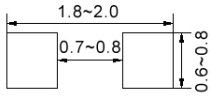
AKPB001608DZ Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat (mA)Max.	Irms(mA)Max. 85℃ *1	Irms(mA)Max. 125℃ *1	Tolerance (±%)
AKPB001608DZR47□A2	0.47	3MHz,200mV	0.15	400	1100	800	20,30
AKPB001608DZ1R0□A2	1.0	3MHz,200mV	0.20	200	950	700	20,30
AKPB001608DZ2R2□A2	2.2	3MHz,200mV	0.30	150	750	550	20,30

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

1. Operating temperature range - 55℃ ~ 125℃
2. Isat for Inductance drop 30% from its value without current
3. Irms for When applied current to the Products, temperature rise caused by self-generated heat shall be limited to 40 ℃ max
4. As for the Rated current marked with *1, Rated Current is depending on the operating temperature
5. Measure Equipment：
   L：Agilent HP4287A+16197A
   RDC：HP 4338B, or equivalent

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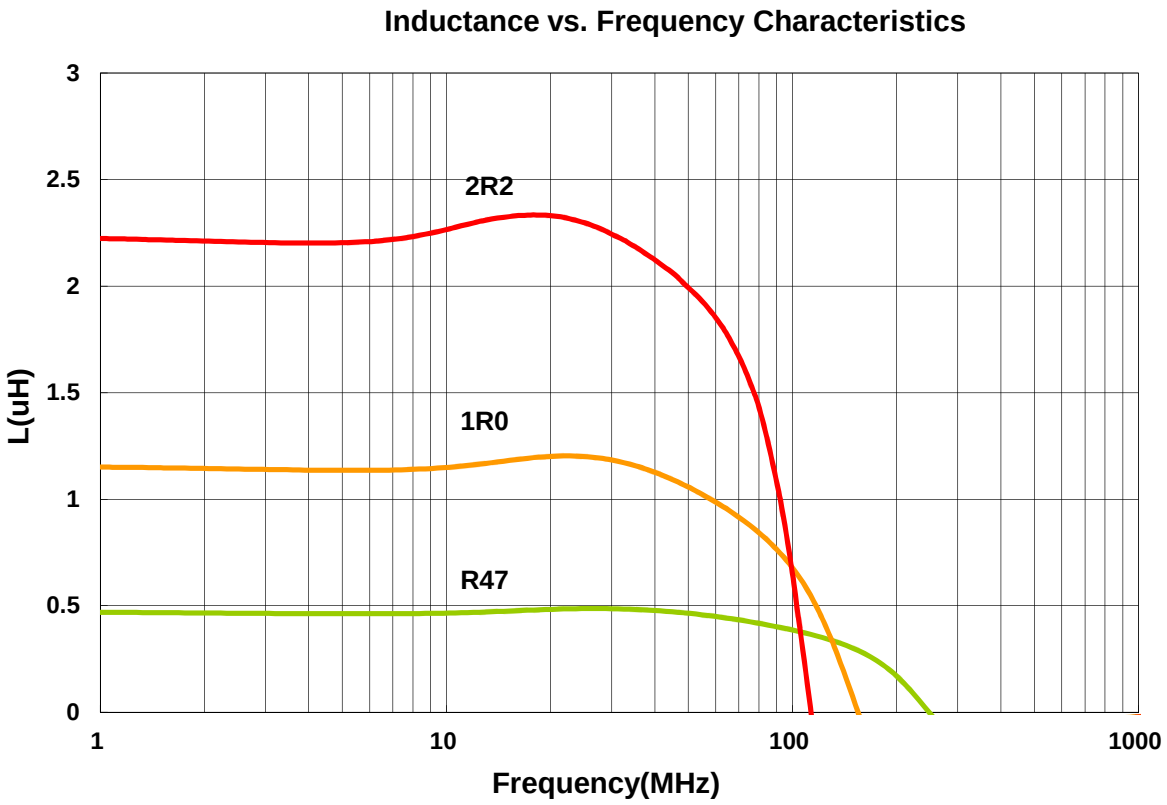
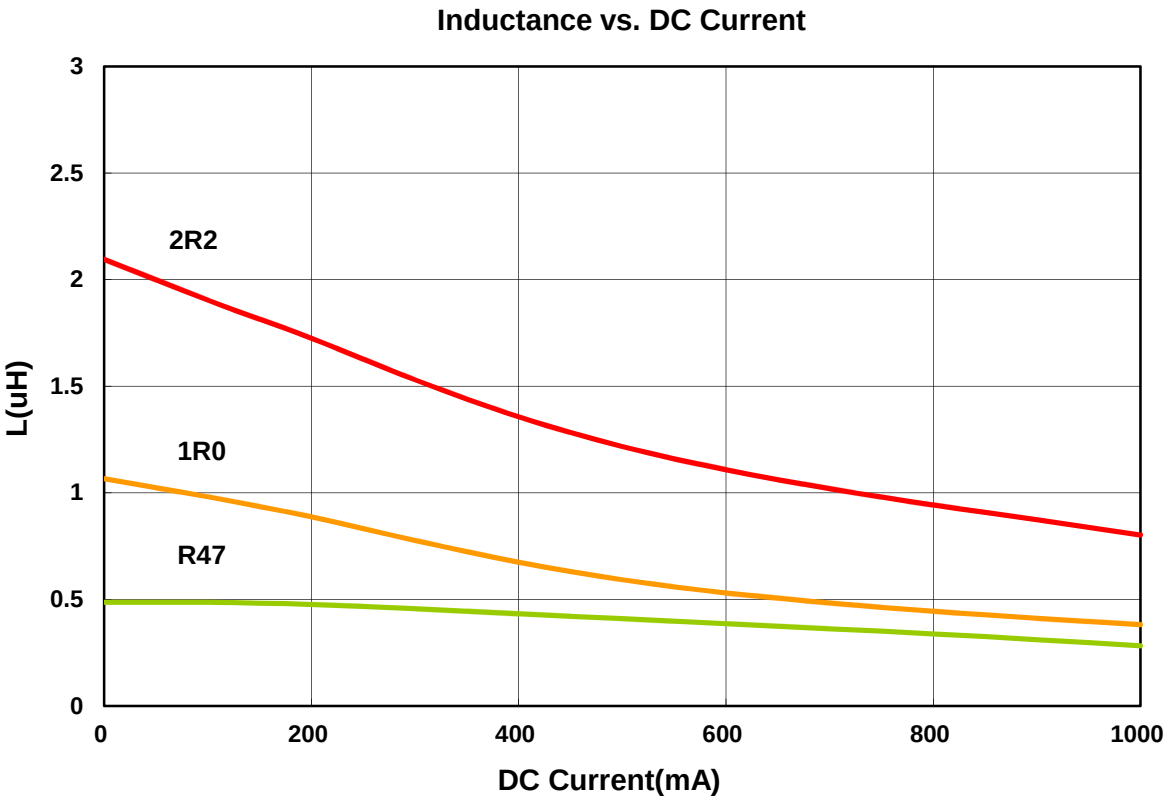
Power Inductor AKPx Series

Automotive
AEC-Q200

AKPB001608DZ Type

■ Characteristics Graph





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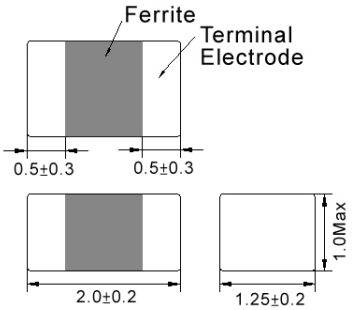
CHILISIN ELECTRONICS CORP.

Power Inductor AKPx Series

Automotive
AEC-Q200

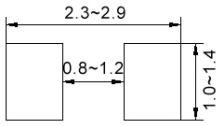
AKPB00201210 Type

Dimensions



unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat (mA)Max.	Irms(mA)Max. 85℃ *1	Irms(mA)Max. 125℃ *1	Tolerance (±%)
AKPB00201210R47□A2	0.47	3MHz,200mV	0.09	1100	1300	950	20,30
AKPB002012101R0□A2	1.0	3MHz,200mV	0.12	650	1200	900	20,30
AKPB002012101R5□A2	1.5	3MHz,200mV	0.15	450	1100	800	20,30
AKPB002012102R2□A2	2.2	3MHz,200mV	0.19	400	1100	800	20,30
AKPB002012103R3□A2	3.3	3MHz,200mV	0.24	300	800	600	20,30
AKPB002012104R7□A2	4.7	3MHz,200mV	0.26	200	700	500	20,30

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

1. Operating temperature range - 55℃ ~ 125℃
2. Isat for Inductance drop 30% from its value without current
3. Irms for When applied current to the Products, temperature rise caused by self-generated heat shall be limited to 40 ℃ max
4. As for the Rated current marked with *1, Rated Current is depending on the operating temperature
5. Measure Equipment：
   L：Agilent HP4287A+16197A
   RDC：HP 4338B, or equivalent

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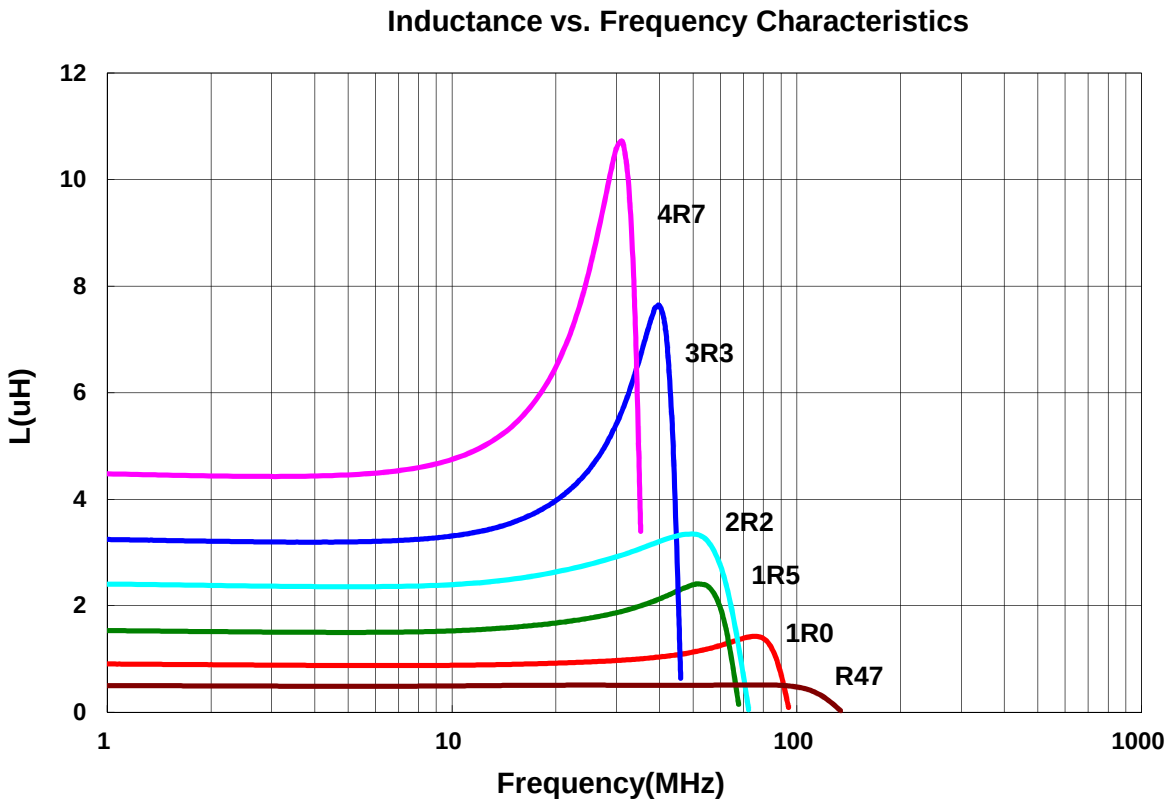
CHILISIN ELECTRONICS CORP.

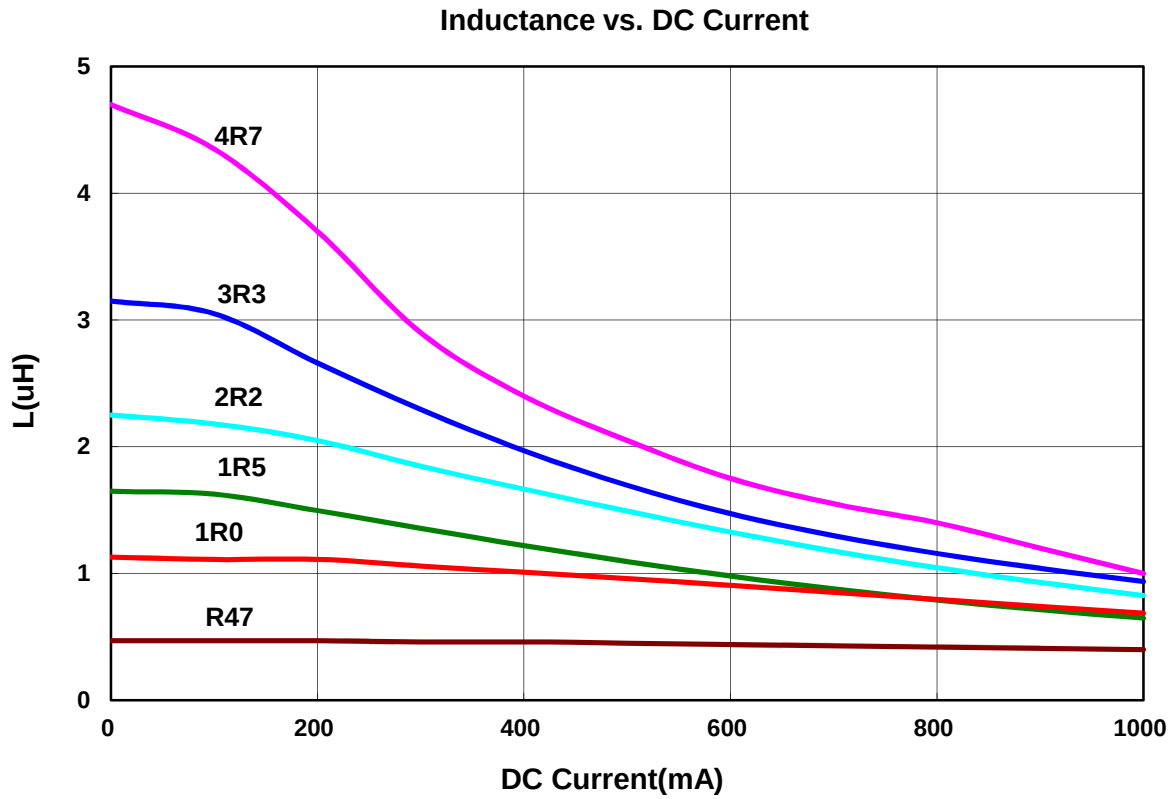
Power Inductor AKPx Series

Automotive
AEC-Q200

AKPB00201210 Type

■ Characteristics Graph





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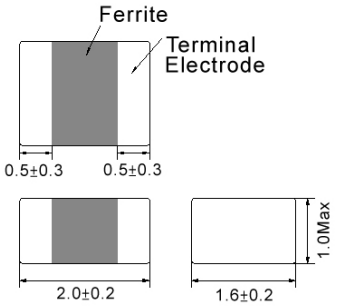
CHILISIN ELECTRONICS CORP.

Power Inductor AKPx Series

Automotive
AEC-Q200

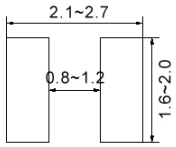
AKPB00201610 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±25%	Isat (mA)Max.	Irms(mA)Max. 85℃ *1	Irms(mA)Max. 125℃ *1	Tolerance (±%)
AKPB00201610R47□A6	0.47	3MHz,200mV	0.06	1200	1600	1200	20,30
AKPB002016101R0□A6	1.0	3MHz,200mV	0.09	850	1300	950	20,30
AKPB002016101R5□A6	1.5	3MHz,200mV	0.11	600	1200	900	20,30
AKPB002016102R2□A6	2.2	3MHz,200mV	0.11	400	1200	900	20,30
AKPB002016103R3□A6	3.3	3MHz,200mV	0.12	350	850	625	20,30
AKPB002016104R7□A6	4.7	3MHz,200mV	0.14	200	1100	800	20,30

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

1. Operating temperature range - 55℃ ~ 125℃
2. Isat for Inductance drop 30% from its value without current
3. Irms for When applied current to the Products, temperature rise caused by self-generated heat shall be limited to 40 ℃ max
4. As for the Rated current marked with *1, Rated Current is depending on the operating temperature
5. Measure Equipment：
   L：Agilent HP4287A+16197A
   RDC：HP 4338B, or equivalent

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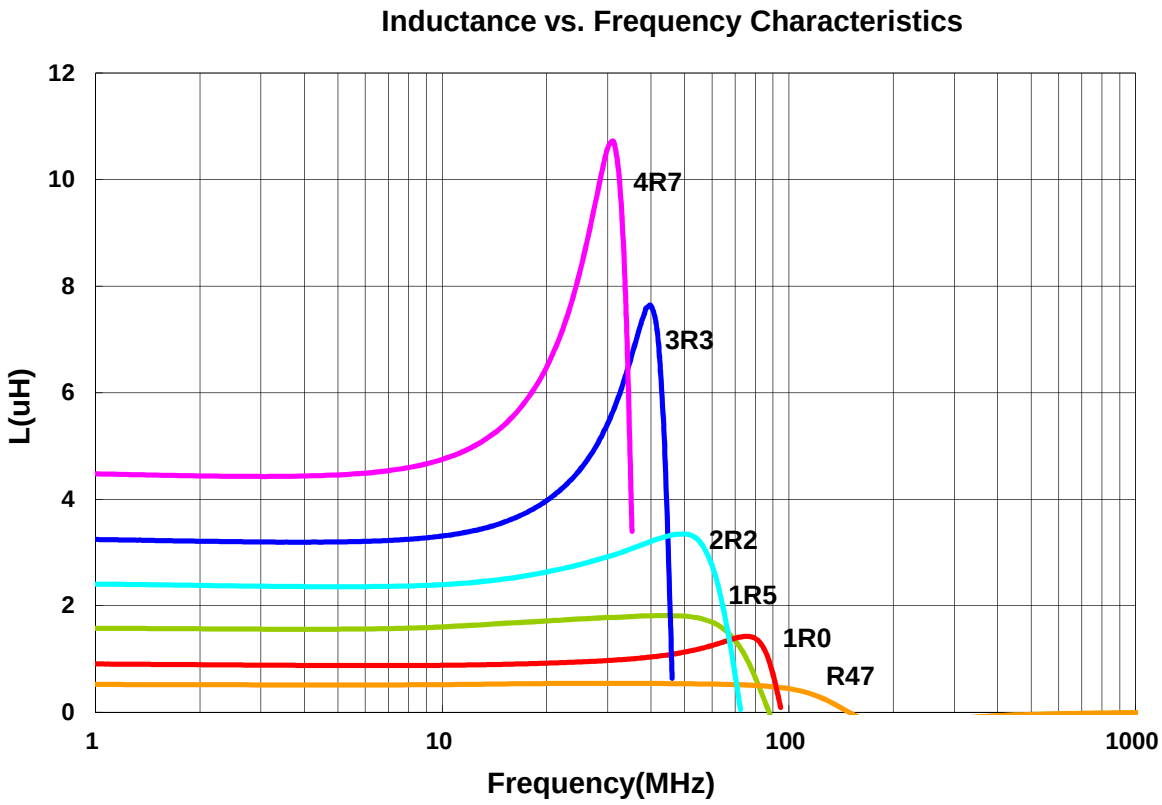
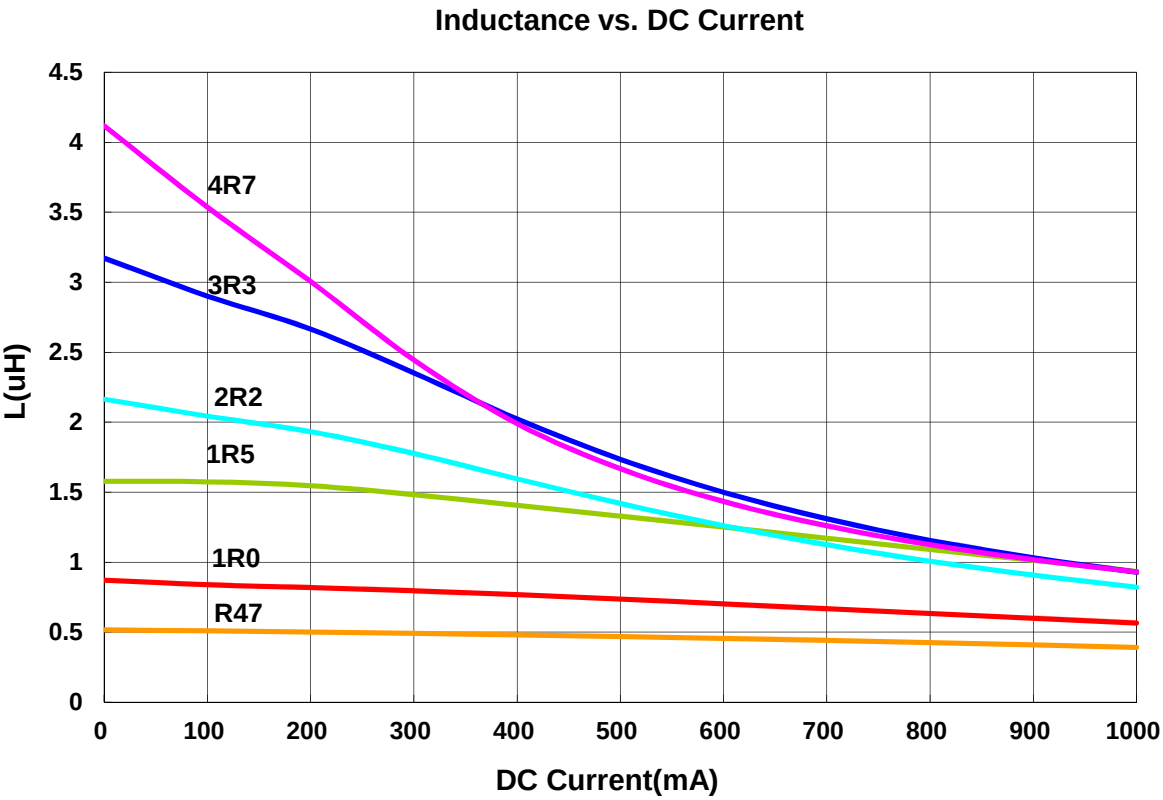
Power Inductor AKPx Series

Automotive
AEC-Q200

AKPB00201610 Type

■ Characteristics Graph





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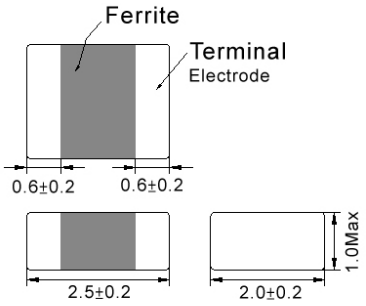
CHILISIN ELECTRONICS CORP.

Power Inductor AKPx Series

Automotive
AEC-Q200

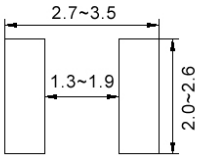
AKPB00252010 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±25%	Isat (mA)Max.	Irms(mA)Max. 85℃*1	Irms(mA)Max. 125℃*1	Tolerance (±%)
AKPB00252010R47□A6	0.47	3MHz,200mV	0.040	1500	1800	1300	20,30
AKPB002520101R0□A6	1.0	3MHz,200mV	0.055	900	1600	1200	20,30
AKPB002520102R2□A6	2.2	3MHz,200mV	0.080	500	1300	950	20,30
AKPB002520103R3□A6	3.3	3MHz,200mV	0.100	400	1200	900	20,30
AKPB002520104R7□A6	4.7	3MHz,200mV	0.110	300	1100	800	20,30

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

1. Operating temperature range - 55℃ ~ 125℃
2. Isat for Inductance drop 30% from its value without current
3. Irms for When applied current to the Products, temperature rise caused by self-generated heat shall be limited to 40 ℃ max
4. As for the Rated current marked with *1, Rated Current is depending on the operating temperature
5. Measure Equipment：
   L：Agilent HP4287A+16197A
   RDC：HP 4338B, or equivalent

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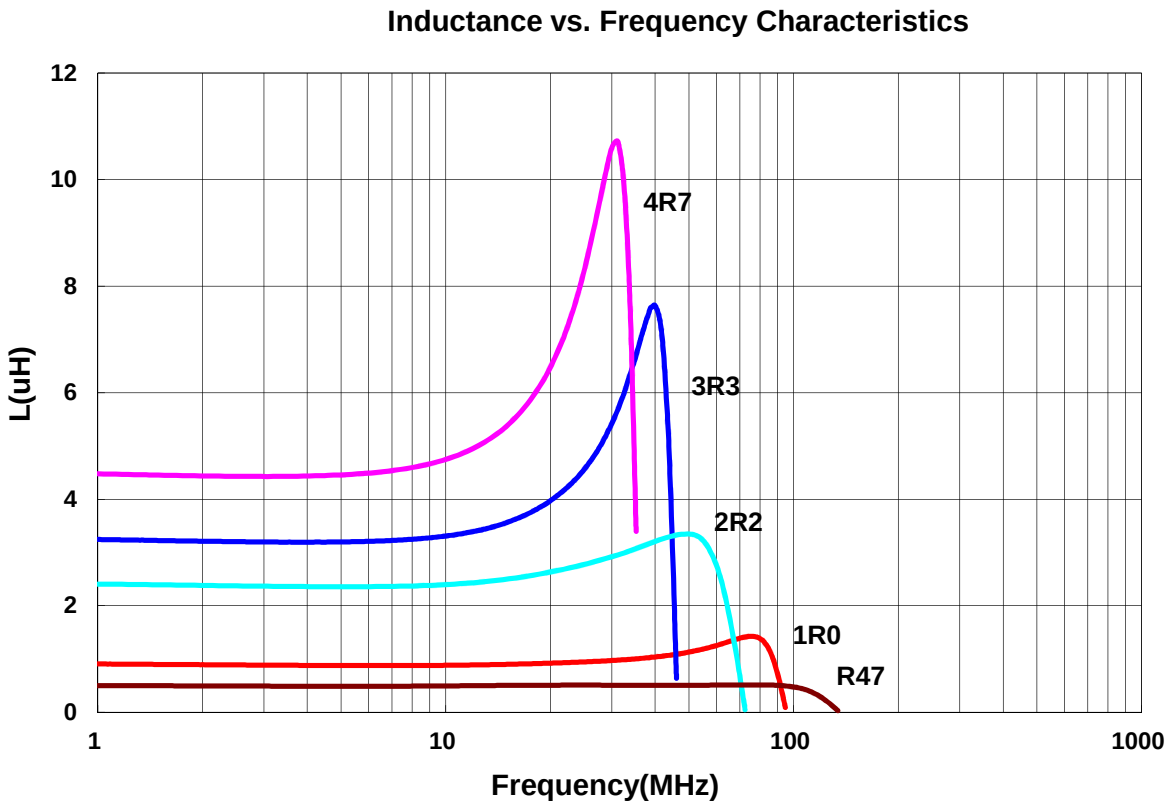
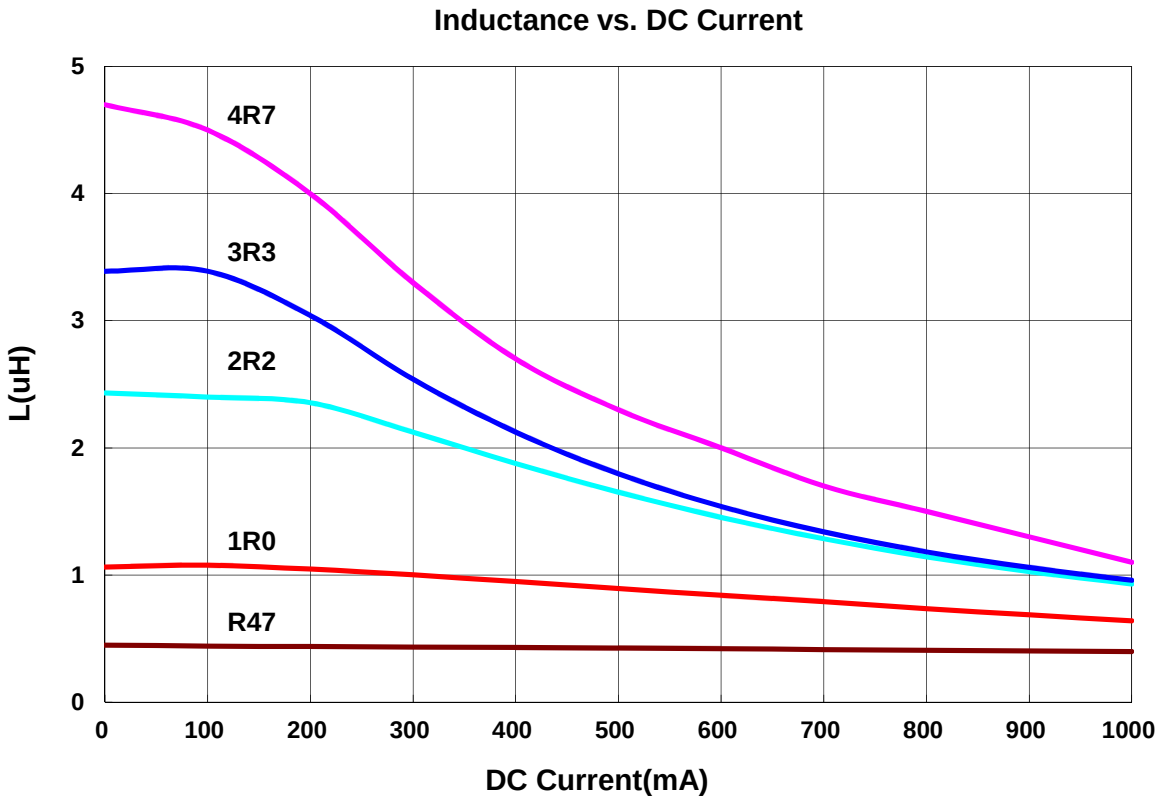
Power Inductor AKPx Series

Automotive
AEC-Q200

AKPB00252010 Type

■ Characteristics Graph





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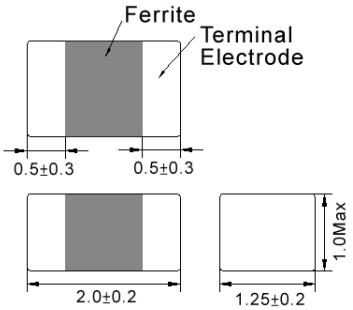
CHILISIN ELECTRONICS CORP.

Power Inductor AKPx Series

Automotive
AEC-Q200

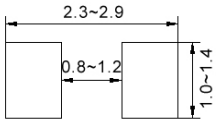
AKPE00201210 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±25%	Isat(mA) Max.	Irms(mA)Max. 85℃ *1	Irms(mA)Max. 125℃ *1	Tolerance (±%)
AKPE002012101R0□A2	1.0	3MHz,200mV	0.100	1400	1800	1300	20,30
AKPE002012102R2□A2	2.2	3MHz,200mV	0.125	500	1600	1200	20,30

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

1. Operating temperature range - 55℃ ~ 125℃
2. Isat for Inductance drop 30% from its value without current
3. Irms for When applied current to the Products, temperature rise caused by self-generated heat shall be limited to 40 ℃ max
4. As for the Rated current marked with *1, Rated Current is depending on the operating temperature
5. Measure Equipment：
   L：Agilent HP4287A+16197A
   RDC：HP 4338B, or equivalent

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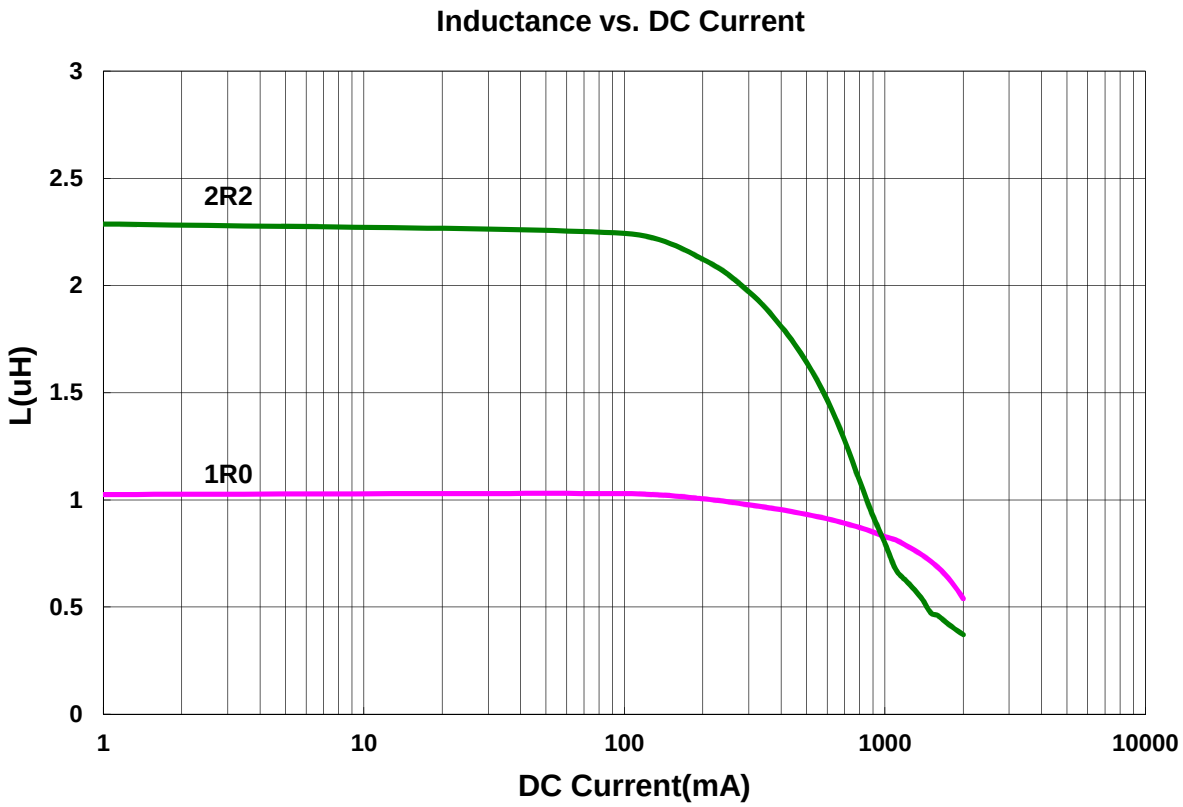
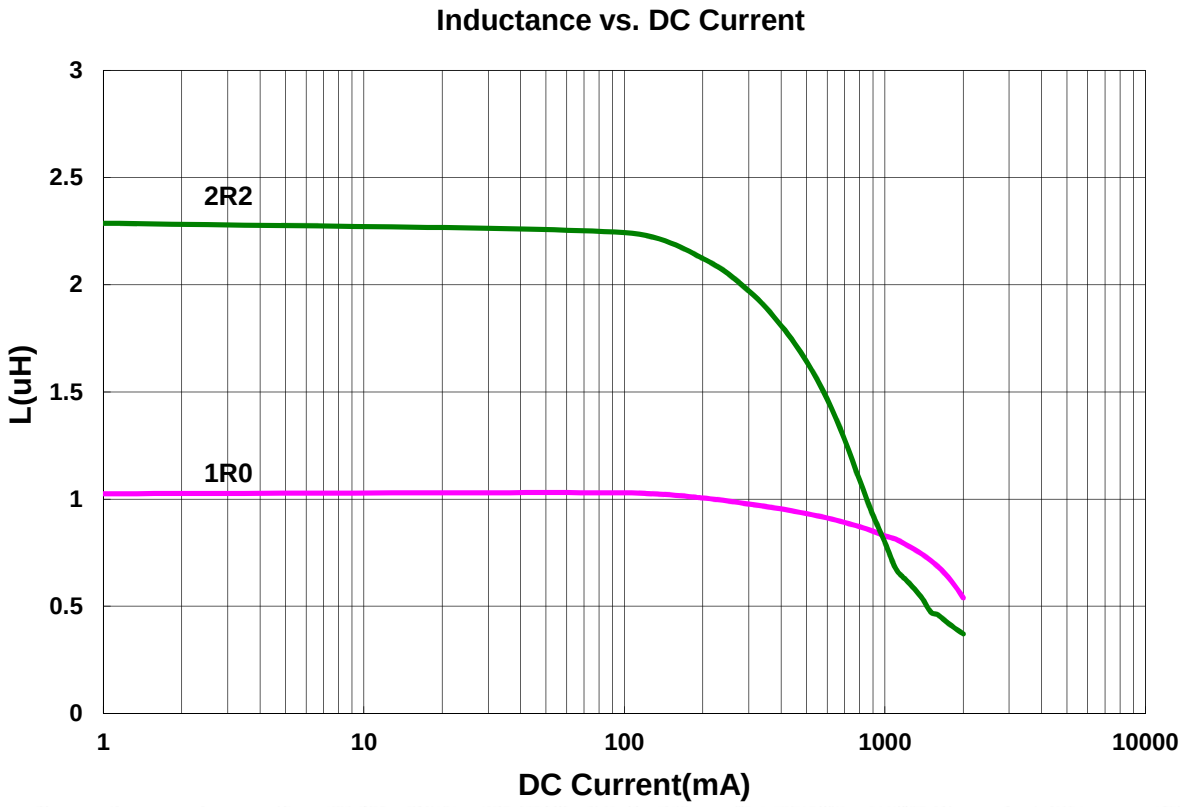
Power Inductor AKPx Series

Automotive
AEC-Q200

AKPE00201210 Type

■ Characteristics Graph





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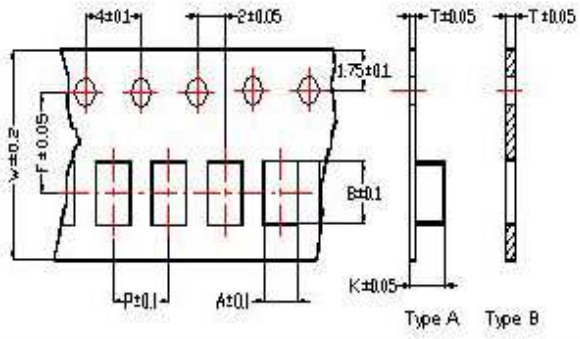
Power Inductor AKPx Series

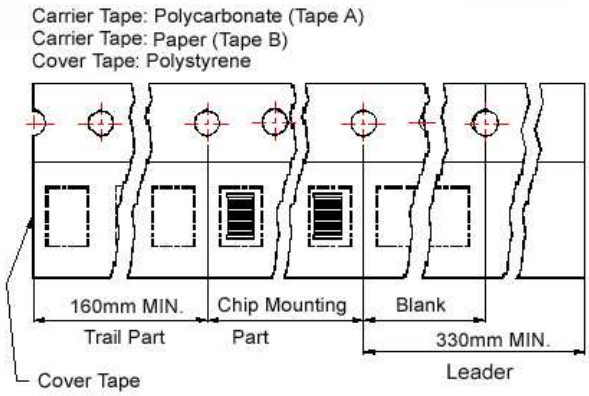
Automotive
AEC-Q200

Packaging

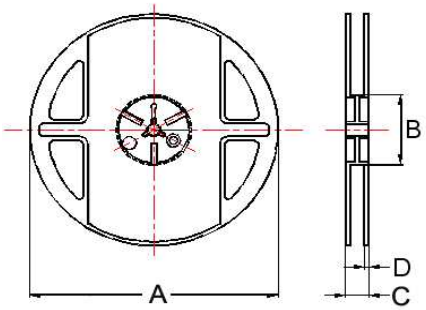
Tape Dimensions



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
AKPx001608DZ	1.05	1.85	0.95	8	4	3.5	-	B	178	60	12	1.5	4000
AKPx00201210	1.45	2.25	0.22	8	4	3.5	1.04	A	178	60	12	1.5	3000
AKPx00201610	1.8	2.2	0.22	8	4	3.5	1.15	A	178	60	12	1.5	3000
AKPx00252010	2.25	2.8	0.25	8	4	3.5	1.35	A	178	60	12	1.5	3000

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CHILISIN ELECTRONICS CORP.

Power Inductor ADCC Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Power Circuit | Shield | Wire Wound | Metal | Ultra High Current

■ Part Numbering

A	DCC	00	201612	1R0	M	C1
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			201612 2.0x1.6x1.2	R15 0.15	M ±20%	
			252012 2.5x2.0x1.2	R24 0.24		
				R33 0.33		
				R47 0.47		
				1R0 1.00		
				1R5 1.50		

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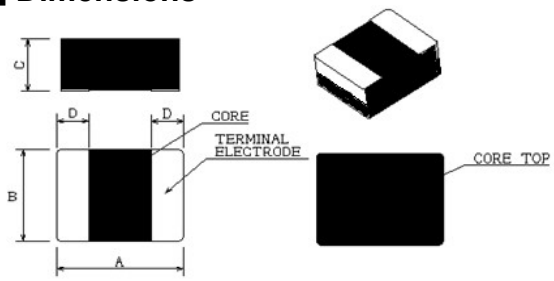
CHILISIN ELECTRONICS CORP.

Power Inductor ADCC Series

Automotive
AEC-Q200

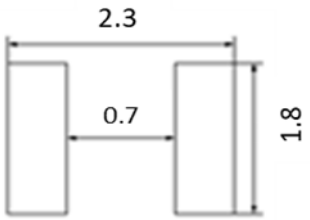
ADCC00201612 Type

Dimensions



unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)	Tolerance (±%)
ADCC00201612R15MC1	0.15	2MHz	16(10)	7.7(8.6)	5.5(6.9)	20
ADCC00201612R24MC1	0.24	2MHz	21(16)	5.9(6.5)	5.0(6.2)	20
ADCC00201612R33MC1	0.33	2MHz	27(22)	5.2(5.8)	4.3(4.8)	20
ADCC00201612R47MC1	0.47	2MHz	30(24)	4.5(5.0)	3.9(4.5)	20
ADCC002016121R0MC1	1.00	2MHz	50(43)	3.3(3.7)	3.1(3.4)	20
ADCC002016121R5MC1	1.50	2MHz	95(90)	2.5(2.8)	2.3(2.6)	20

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

1. Operating temperature range: -40°C~125°C (Including self-temperature rise)
2. Isat for Inductance drop 30% from its initial inductance value without applying current
3. Irms for a 40°C temperature rise from 25°C ambient with applying current
4. Rated current: Isat or Irms, whichever is smaller
5. Absolute maximum voltage: 20VDC
6. Measure Equipment:
   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)

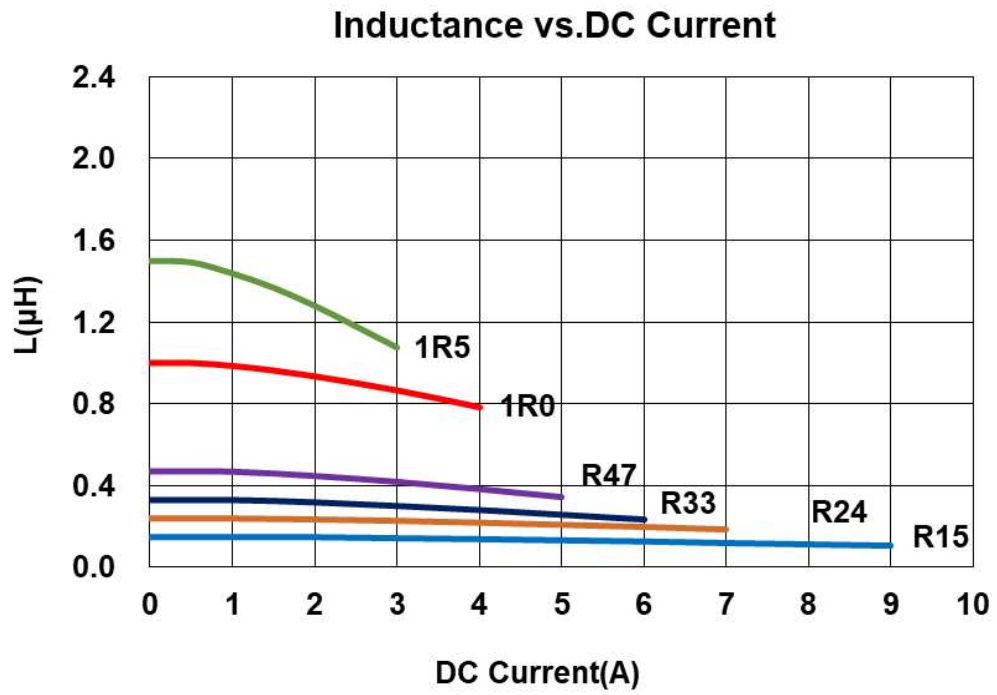
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

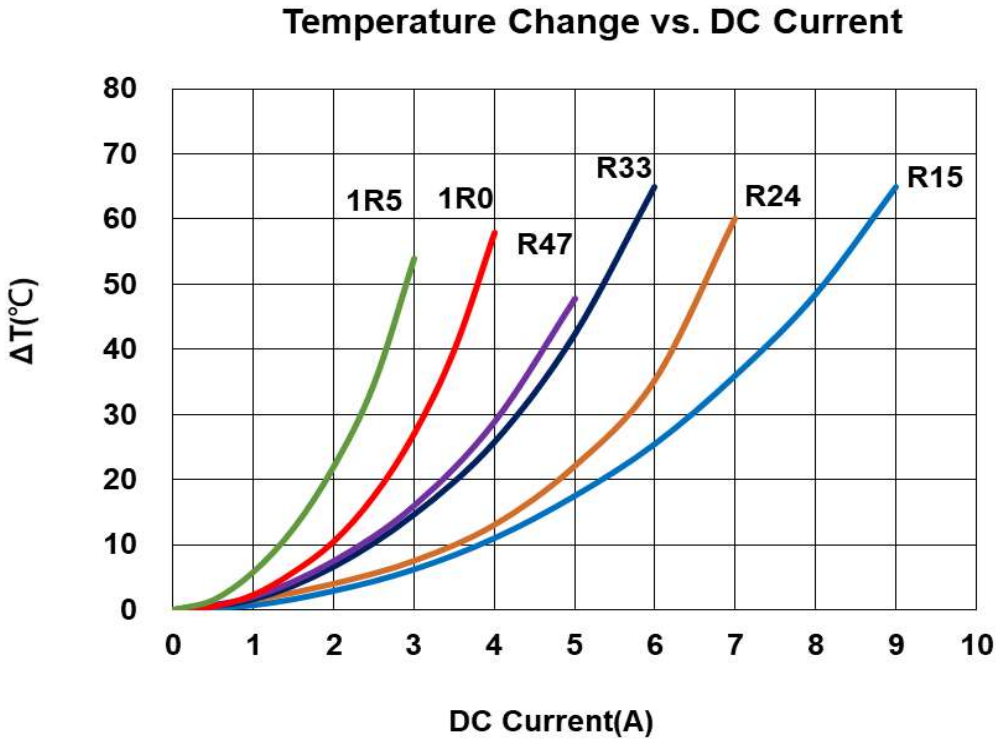
Power Inductor ADCC Series

Automotive
AEC-Q200

ADCC00201612 Type

■ Characteristics Graph





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Pulse a YAGEO company

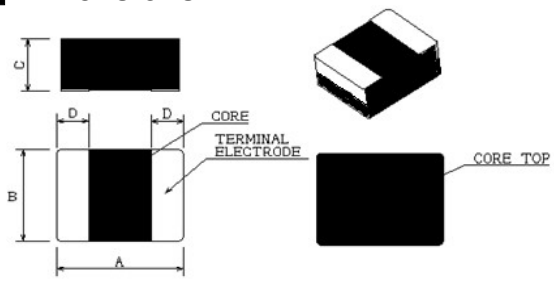
CHILISIN ELECTRONICS CORP.

Power Inductor ADCC Series

Automotive
AEC-Q200

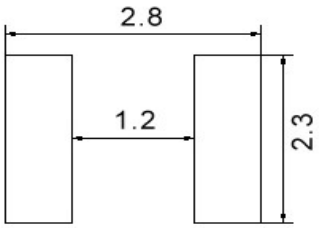
ADCC00252012 Type

Dimensions



unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)	Tolerance (±%)
ADCC00252012R24MC1	0.24	2MHz	13(8)	8.0(9.0)	6.7(8.5)	20
ADCC00252012R33MC1	0.33	2MHz	22(16)	6.2(7.0)	4.7(5.4)	20
ADCC00252012R47MC1	0.47	2MHz	27(21)	5.2(6.1)	4.0(4.7)	20
ADCC002520121R0MC1	1.00	2MHz	42(35)	3.7(4.3)	3.3(3.8)	20
ADCC002520121R5MC1	1.50	2MHz	60(55)	3.4(3.8)	2.6(2.9)	20
ADCC002520122R2MC1	2.20	2MHz	92(85)	2.8(3.1)	2.1(2.3)	20

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

1. Operating temperature range: -40°C~125°C (Including self-temperature rise)
2. Isat for Inductance drop 30% from its initial inductance value without applying current
3. Irms for a 40°C temperature rise from 25°C ambient with applying current
4. Rated current: Isat or Irms, whichever is smaller
5. Absolute maximum voltage: 20VDC
6. Measure Equipment:
   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)

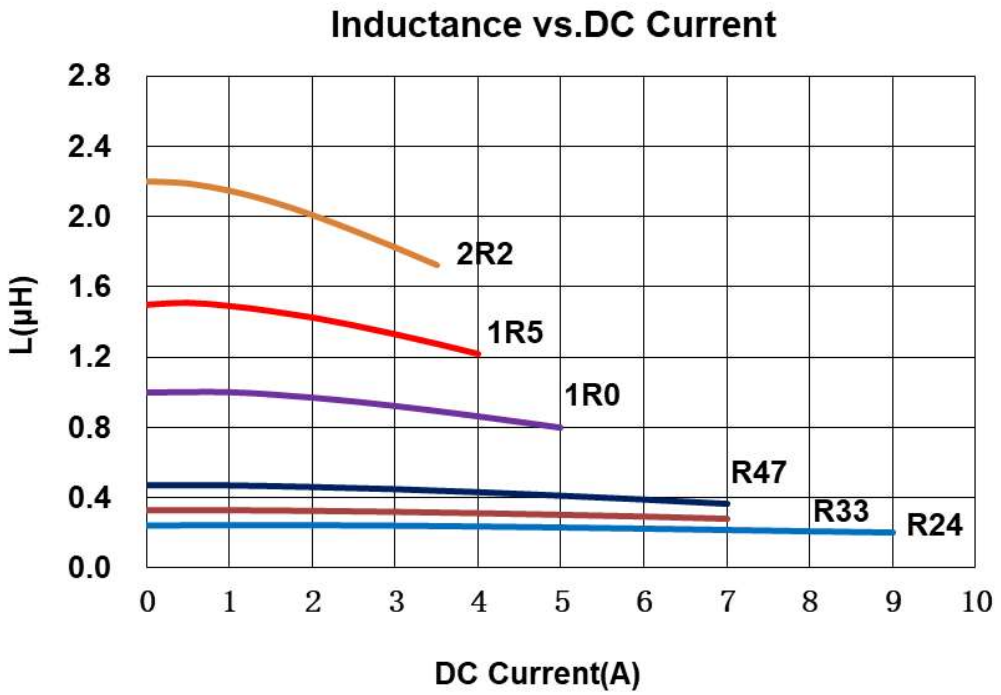
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

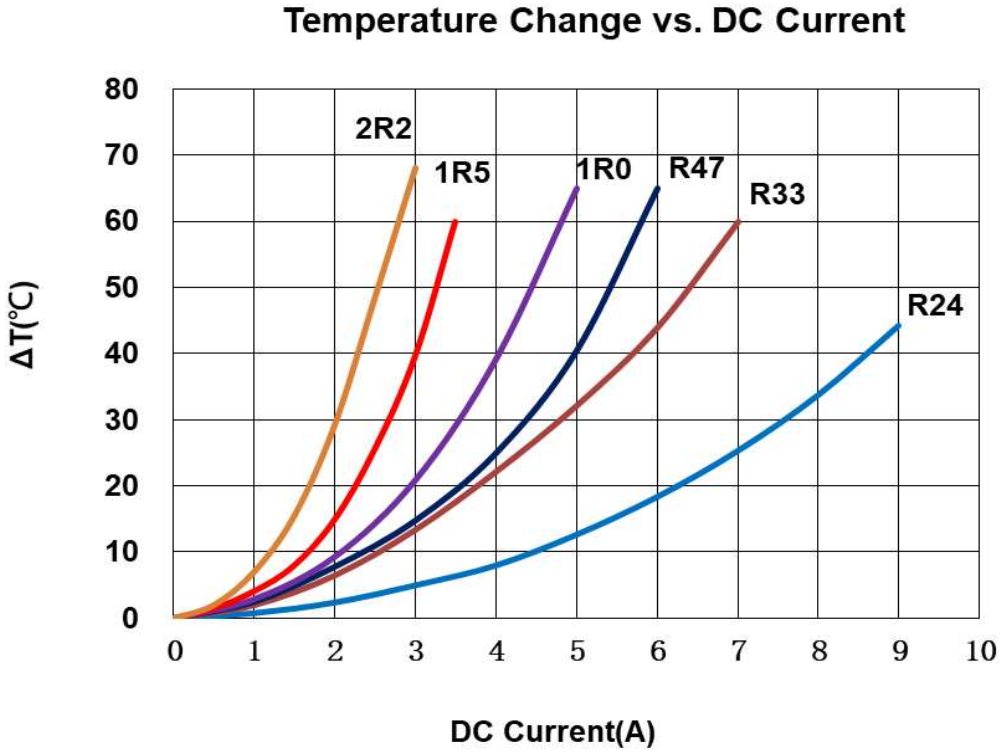
Power Inductor ADCC Series

Automotive
AEC-Q200

ADCC00252012 Type

■ Characteristics Graph





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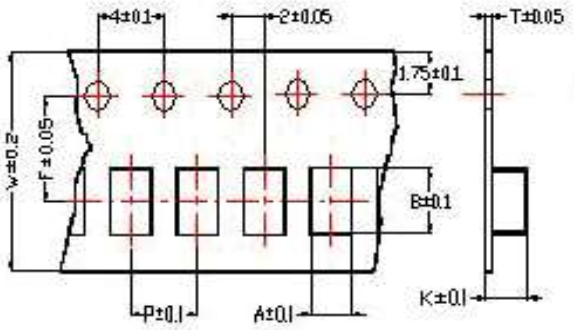
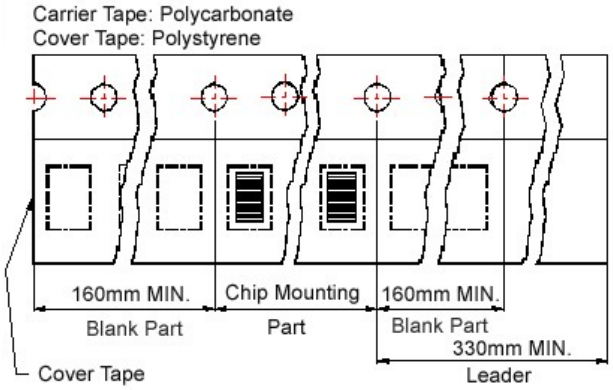
Packaging

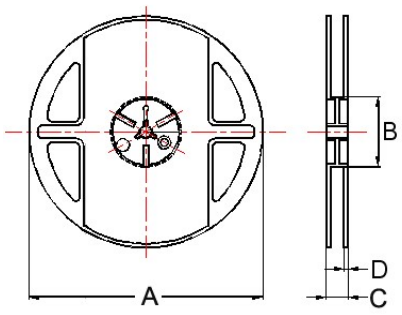
Tape Dimensions



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
ADCC00201612	1.90	2.20	0.22	8	4	3.5	1.15	178	60	12	2	3000
ADCC00252012	2.30	2.80	0.22	8	4	3.5	1.35	178	60	12	2	3000

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Power Inductor AMDC Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Power Circuit | Shield | Wire Wound | Metal | Ultra High Current

■ Part Numbering

A	MDC	00	1010J0	100	M	QA
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			1010J0 10.2x9.5x10.85	100 10	M ±20%	
				150 15		
				220 22		

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Pulse a YAGEO company

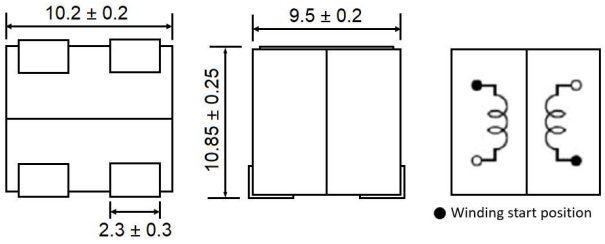
CHILISIN ELECTRONICS CORP.

Power Inductor AMDC Series

Automotive
AEC-Q200

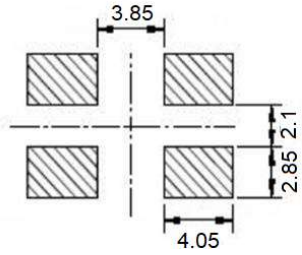
AMDC001010J0 Type

■ Shapes and Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)	Tolerance (±%)	Marking
AMDC001010J0100MQA	10	100kHz/0.5V	22(18)	10(12)	5.2(5.8)	20	100
AMDC001010J0150MQA	15	100kHz/0.5V	40.8(34)	7.7(9.0)	4.0(4.5)	20	150
AMDC001010J0220MQA	22	100kHz/0.5V	56(46)	7.3(8.5)	3.2(3.6)	20	220

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

- Operating temperature range - 40°C ~ 125°C
- Isat for Inductance drop 25% from its value with current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Absolute maximum voltage 30VDC

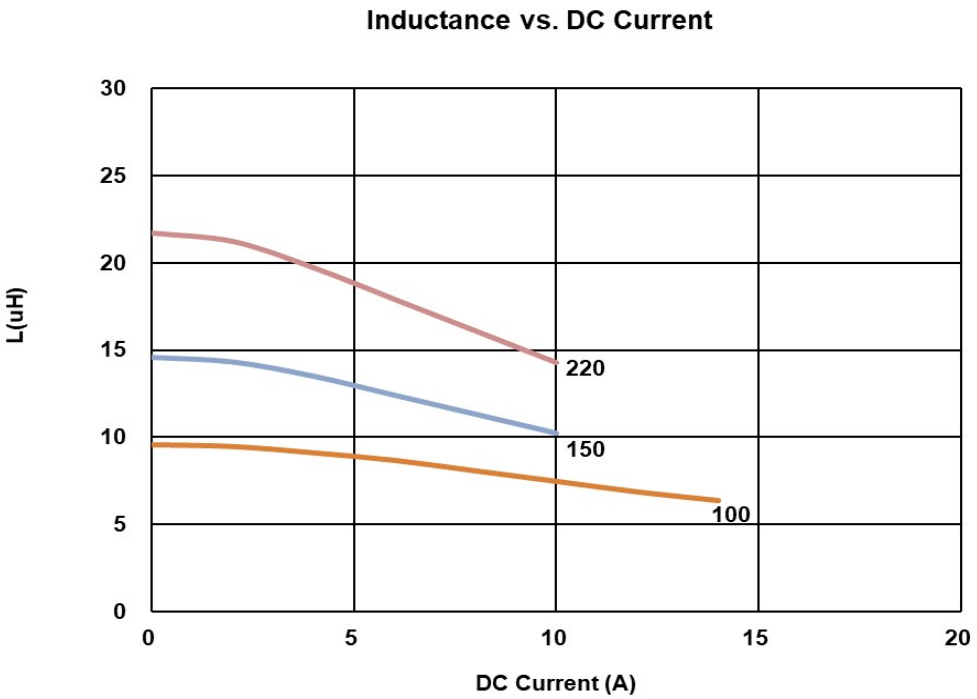
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

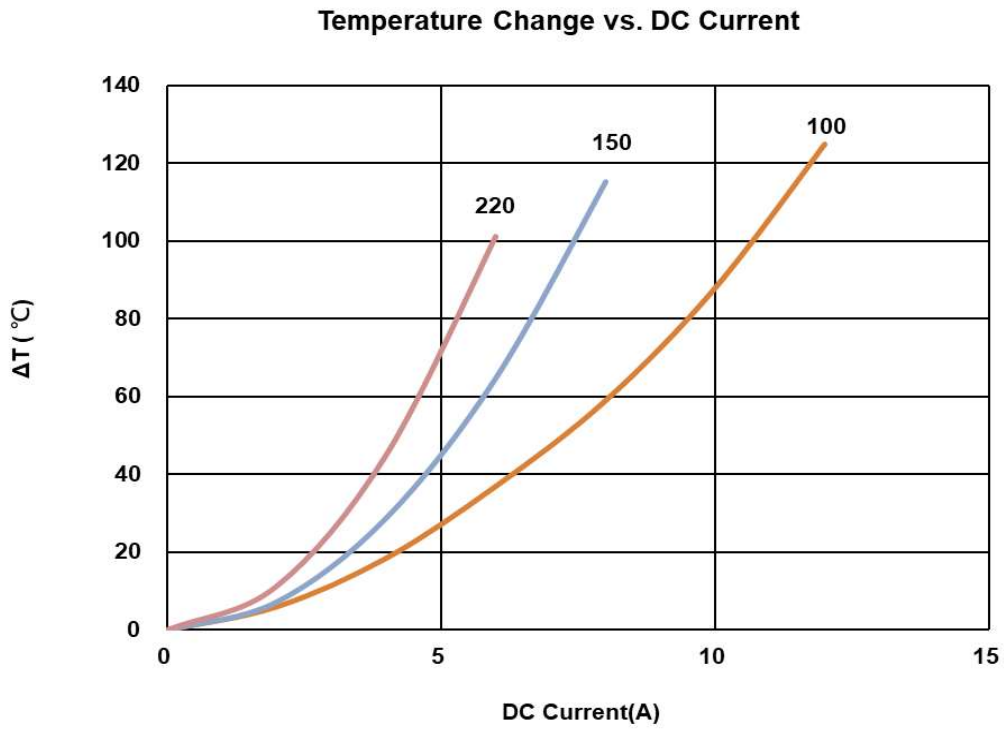
Power Inductor AMDC Series

Automotive
AEC-Q200

AMDC001010J0 Type

■ Characteristics Graph





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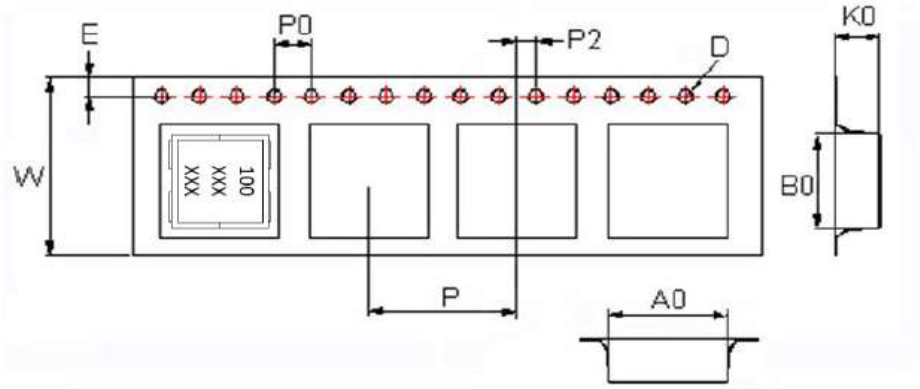
Power Inductor AMDC Series

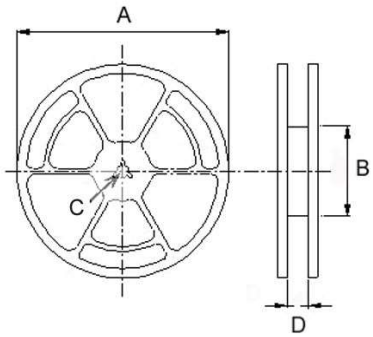
Automotive
AEC-Q200

■ Packaging

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
AMDC001010J0	10.2	10.7	11.5	1.55	1.75	24	16	4	2	330	100	13	24.4	200

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Power Inductor AMDU Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Power Circuit | Shield | Wire Wound | Metal | Ultra High Current

■ Part Numbering

A	MDU	00	060677	100	M	A1
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			060677 6.9x7.7x7.3	100 10	M ±20%	
			101010 10.2x9.5x10.85	220 22.0		

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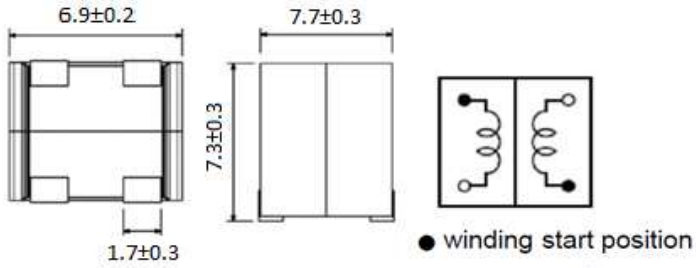
CHILISIN ELECTRONICS CORP.

Power Inductor AMDU Series

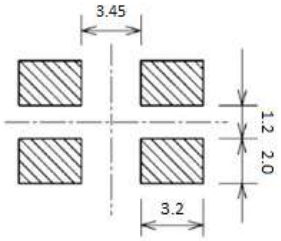
Automotive
AEC-Q200

AMDU00060677 Type

■ Shapes and Dimensions



■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMDU00060677100MA1	10	100kHz/0.5V	49	6.8	3.5	20	100
AMDU00060677220MA1	22	100kHz/0.5V	134	4.3	2.2	20	220

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

- Operating temperature range - 40℃ ~ 125℃
- Isat for Inductance drop 30% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC

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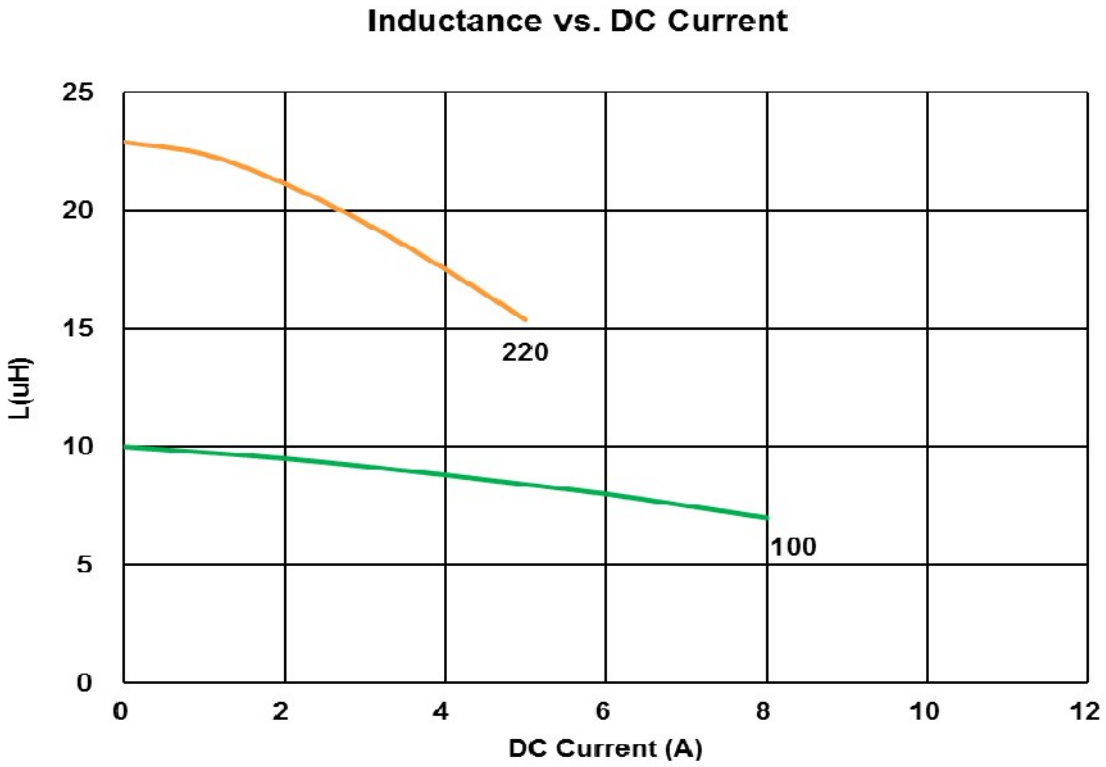
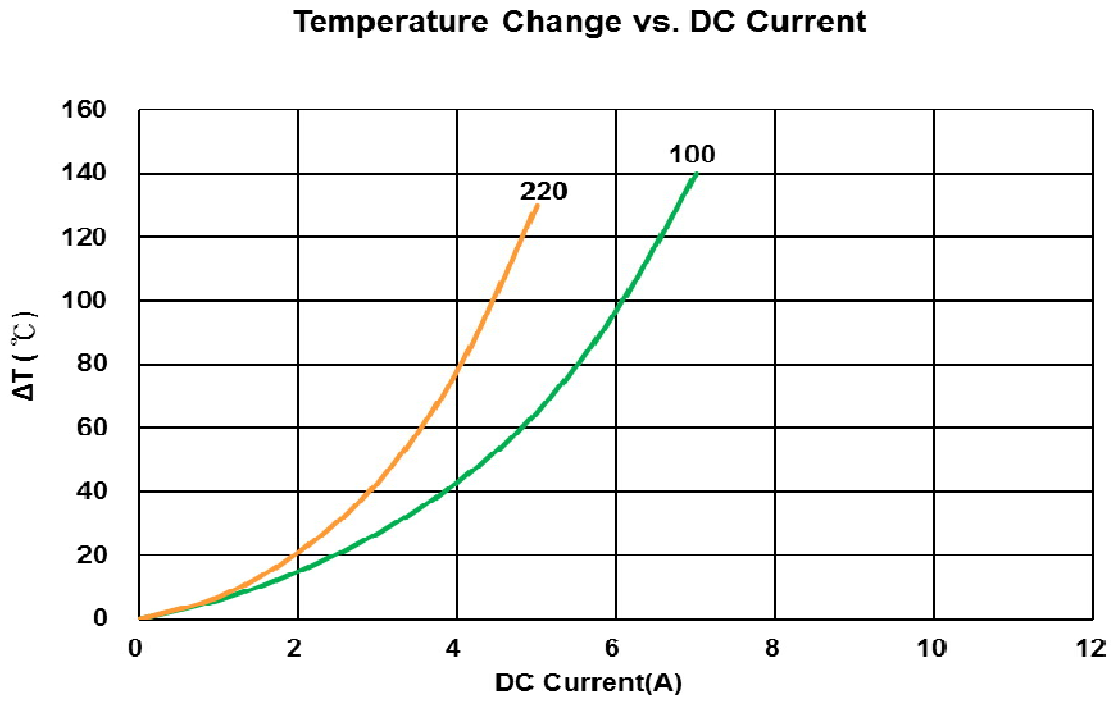
Power Inductor AMDU Series

Automotive
AEC-Q200

AMDU00060677 Type

■ Characteristics Graph





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Pulse a YAGEO company

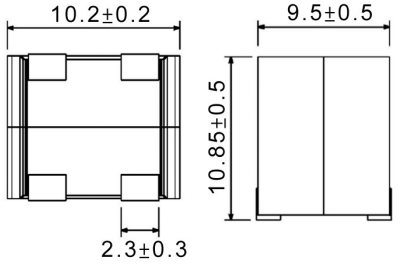
CHILISIN ELECTRONICS CORP.

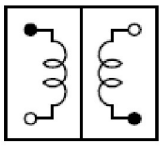
Power Inductor AMDU Series

Automotive
AEC-Q200

AMDU00101010 Type

■ Shapes and Dimensions

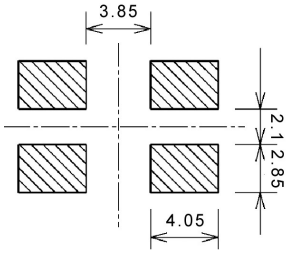




● winding start position

unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMDU00101010100MA1	10	100kHz/0.5V	24	7.5	4.8	20	100
AMDU00101010150MA1	15	100kHz/0.5V	35	5.5	3.8	20	150
AMDU00101010220MA1	22	100kHz/0.5V	53	4.5	3.0	20	220

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

- Operating temperature range - 40°C ~ 125°C
- Isat for Inductance drop 30% from its value with current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Absolute maximum voltage 30VDC

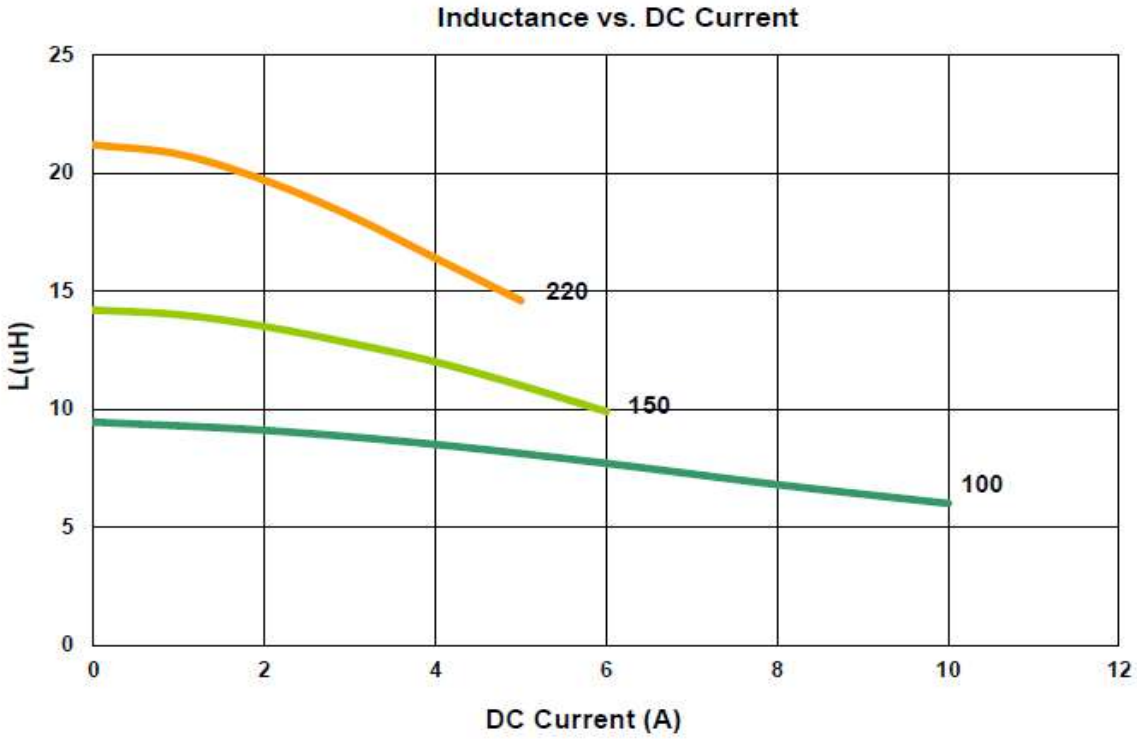
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

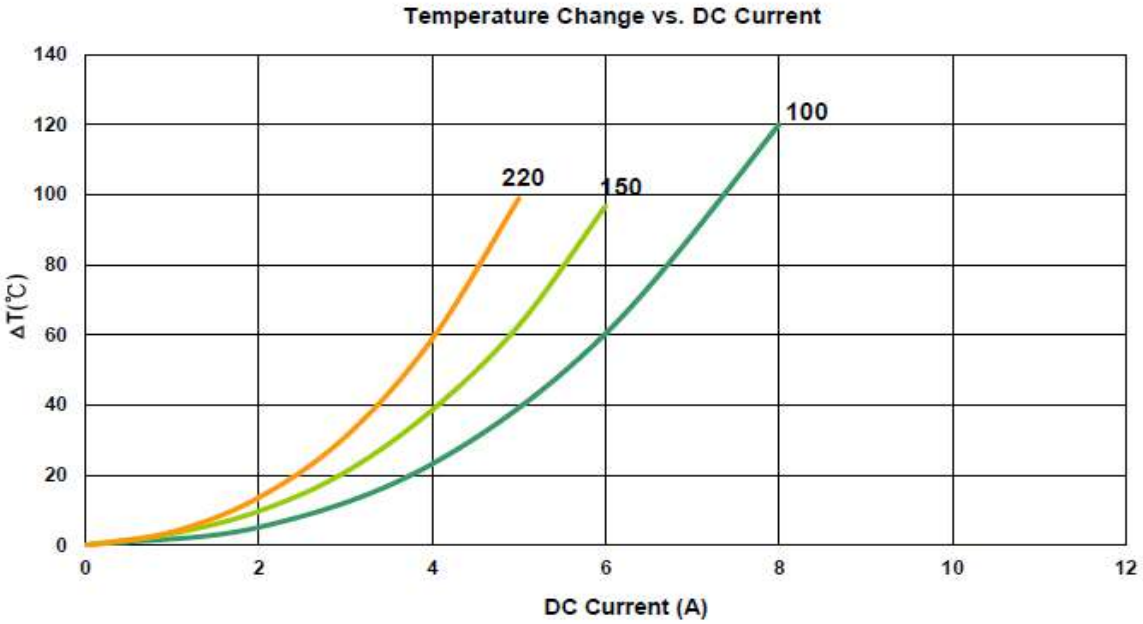
Power Inductor AMDU Series

Automotive
AEC-Q200

AMDU00101010 Type

■ Characteristics Graph





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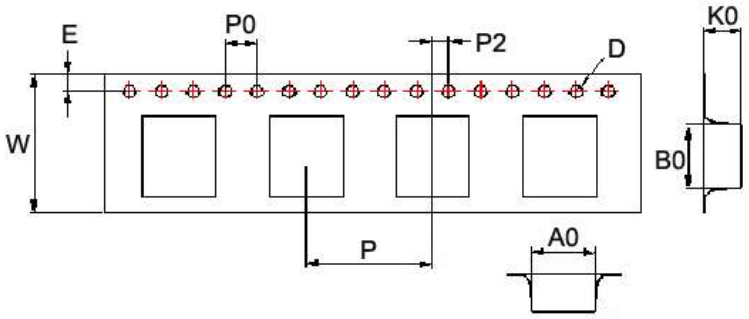
Power Inductor AMDU Series

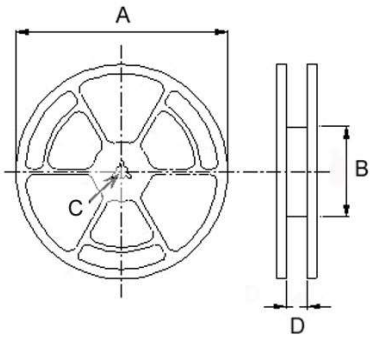
Automotive
AEC-Q200

■ Packaging

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
AMDU00060677	7.3	8.2	7.8	1.55	1.75	16	12	4	2	330	100	13	17.4	500
AMDU00101010	10.2	10.7	11.5	1.55	1.75	24	16	4	2	330	100	13	24.4	200

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Power Inductor AMHP Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Power Circuit | Shield | Wire Wound | Metal | Ultra High Current

■ Part Numbering

A	MHP	00	060630	R68	M	M1
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			060630 6.4x6.0x3.0	R68 0.68	M ±20%	

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Pulse a YAGEO company

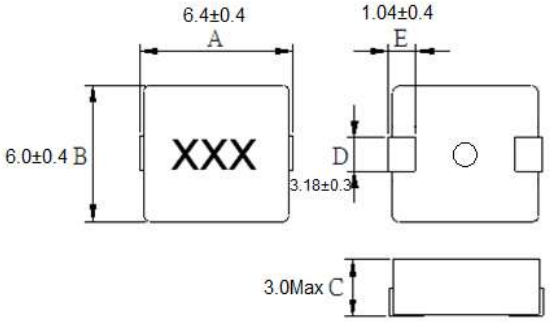
CHILISIN ELECTRONICS CORP.

Power Inductor AMHP Series

Automotive
AEC-Q200

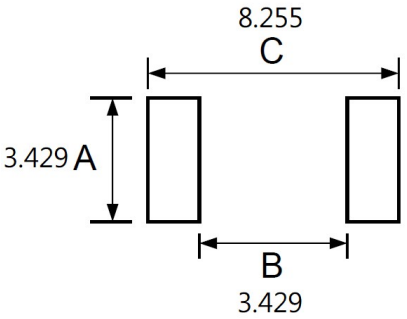
AMHP00060630 Type

■ Shapes and Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMHP00060630R68MM1	0.68	100kHz/0.25V	5.72	20.2	13.2	20	R68
AMHP000606301R0MM1	1	100kHz/0.25V	6.82	16	12.1	20	1R0
AMHP000606301R5MM1	1.5	100kHz/0.25V	12.1	14.2	9.1	20	1R5
AMHP000606302R2MM1	2.2	100kHz/0.25V	15.95	12.8	7.9	20	2R2
AMHP000606303R3MM1	3.3	100kHz/0.25V	26.51	11.5	6.1	20	3R3
AMHP000606304R7MM1	4.7	100kHz/0.25V	31.9	9.8	5.6	20	4R7

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

- Operating temperature range - 55°C ~ 155°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
- Irms for a 40°C temperature rise from 25°C ambient with current

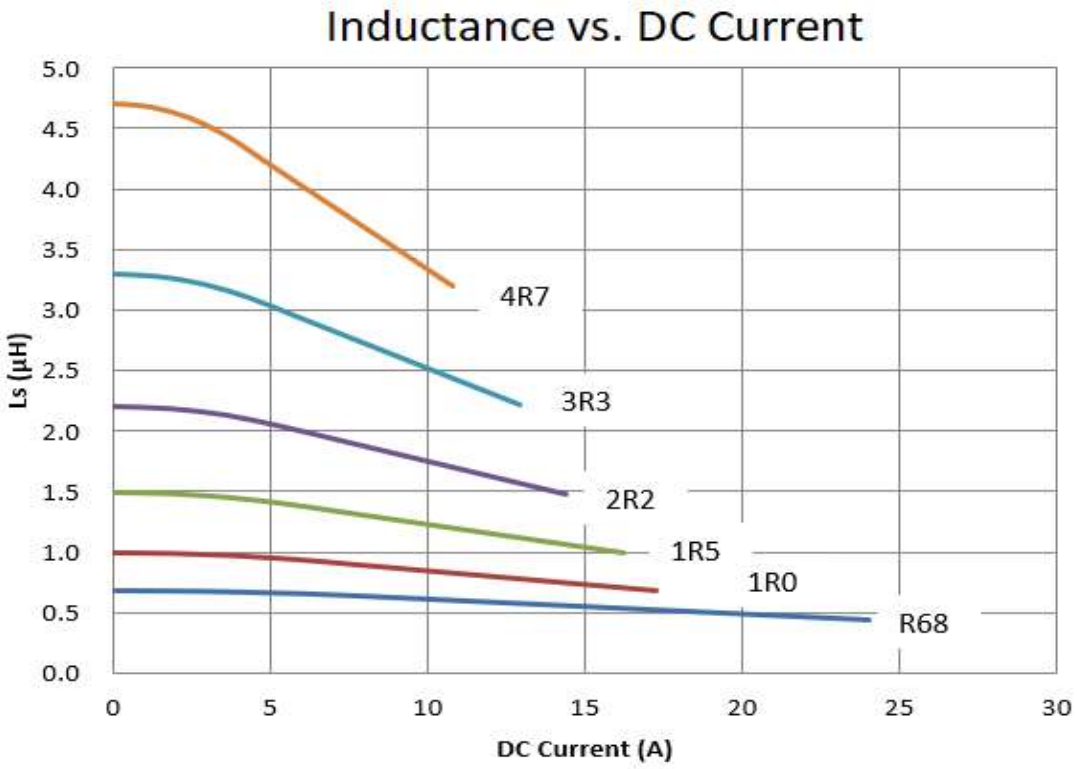
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

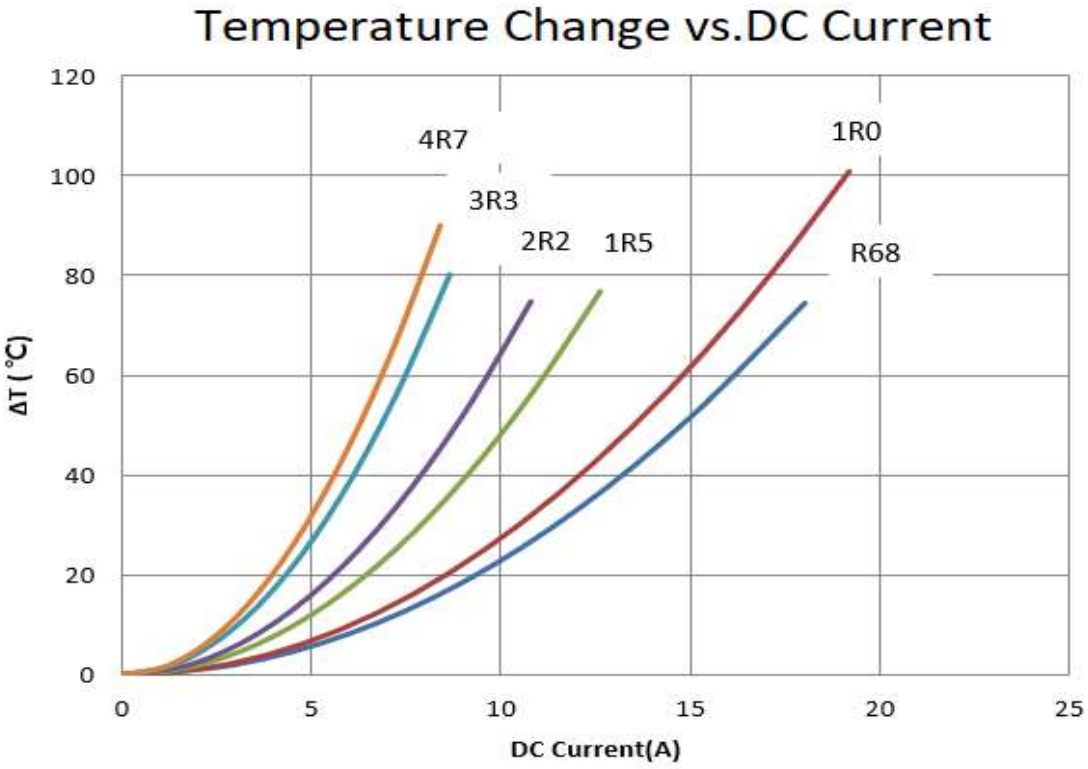
Power Inductor AMHP Series

Automotive
AEC-Q200

AMHP00060630 Type

■ Characteristics Graph





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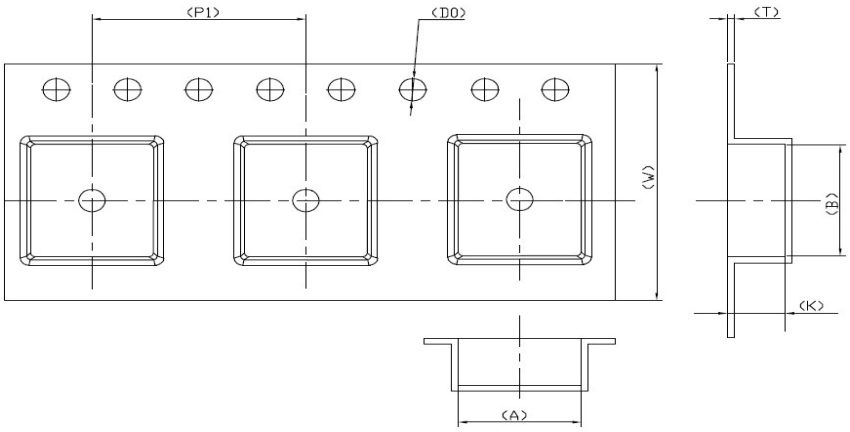
Power Inductor AMHP Series

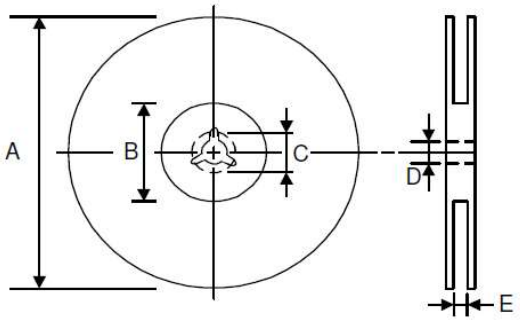
Automotive
AEC-Q200

■ Packaging

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
AMHP0060630	6.6	7	3.4	1.5	16	0.35	12	330	100	21.5	13	16.4	1000

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Power Inductor AMQx Series

Automotive
AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Power Circuit | Shield | Wire Wound | Metal | Ultra High Current

Part Numbering

A	MQU	00	060603	100	M	A1
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			060630 6.8*7.3*2.8	1R0 1	M ±20%	
			101040 10.2*11.6*3.8	2R2 2.2		
				100 10		

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Pulse a YAGEO company

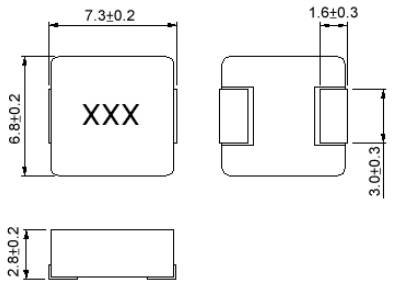
CHILISIN ELECTRONICS CORP.

Power Inductor AMQx Series

Automotive AEC-Q200

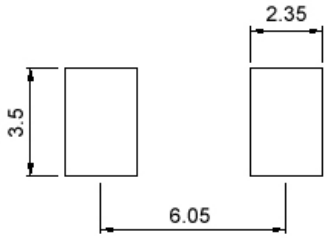
AMQU00060630 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max.(Typ)	Isat(A) Max.(Typ)	Irms(A) Typ.	Tolerance (±%)	Marking
AMQU000606301R0MA1	1	100kHz,0.5V	9.5(8.5)	16(18)	12	20	1R0
AMQU000606301R5MA1	1.5	100kHz,0.5V	14(12.7)	14(16)	10	20	1R5
AMQU000606302R2MA1	2.2	100kHz,0.5V	18.7(17)	11(12)	8	20	2R2
AMQU000606303R3MA1	3.3	100kHz,0.5V	27.5(25)	8.0(9.0)	7	20	3R3
AMQU000606304R7MA1	4.7	100kHz,0.5V	39(35)	7.0(8.0)	6	20	4R7
AMQU000606306R8MA1	6.8	100kHz,0.5V	49(45)	5.5(6.5)	5.5	20	6R8
AMQU00060630100MA1	10	100kHz,0.5V	66(60)	4.8(5.5)	4	20	100

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

1. Operating temperature range - 40℃ ~ 125℃
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Absolute maximum voltage 30VDC
5. Measure Equipment:
   L: WK3260B or WK6500P
   RDC: CHEN HWA502 or 16502
   Isat: WK3260B+WK3265B
   Irms: CHROMA 1810

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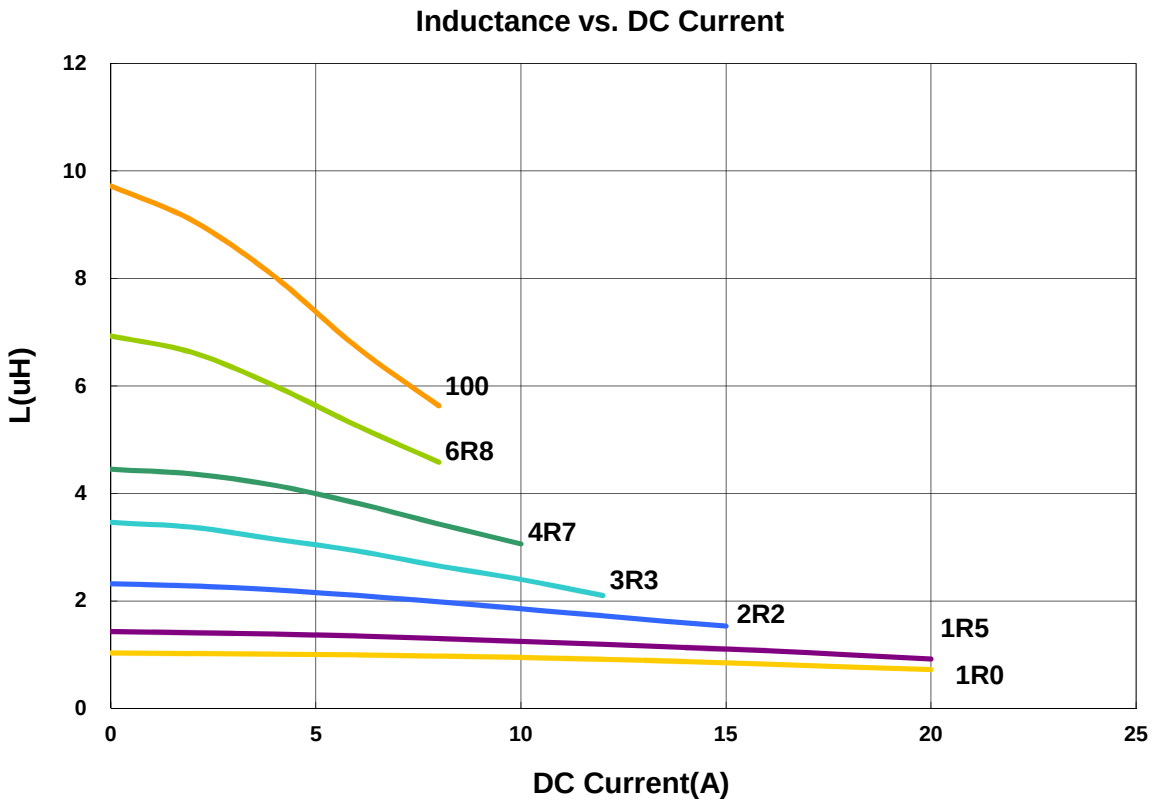
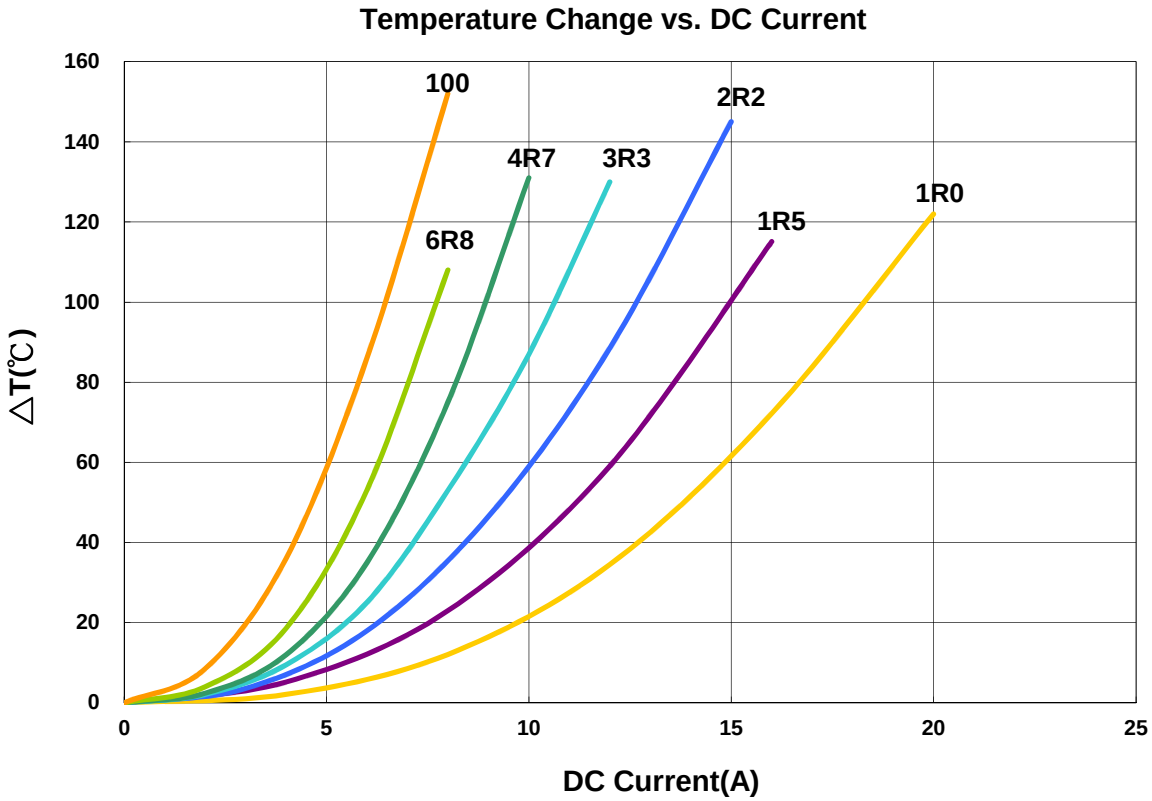
Power Inductor AMQx Series

Automotive
AEC-Q200

AMQU00060630 Type

■ Characteristics Graph





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Pulse a YAGEO company

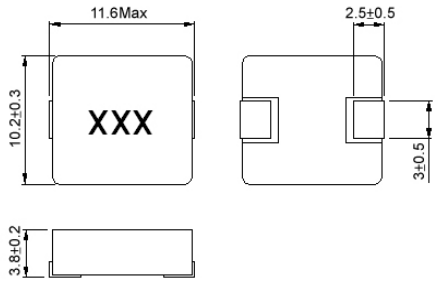
CHILISIN ELECTRONICS CORP.

Power Inductor AMQx Series

Automotive
AEC-Q200

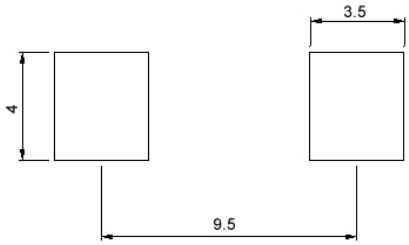
AMQU00101040 Type

Dimensions



unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max.(Typ)	Isat(A) Max.(Typ)	Irms(A) Typ.	Tolerance (±%)	Marking
AMQU001010401R0MA1	1	100kHz,0.5V	3.3(3.0)	20(24)	18	20	1R0
AMQU001010402R2MA1	2.2	100kHz,0.5V	6.5(5.9)	16(19)	14	20	2R2
AMQU001010403R3MA1	3.3	100kHz,0.5V	10.5(9.5)	13(16)	11	20	3R3
AMQU001010404R7MA1	4.7	100kHz,0.5V	15.5(14)	11(13.5)	9	20	4R7
AMQU001010406R8MA1	6.8	100kHz,0.5V	23(20)	9(12)	8	20	6R8
AMQU00101040100MA1	10	100kHz,0.5V	27(25)	6.5(8)	7	20	100

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

1. Operating temperature range - 40℃ ~ 125℃
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Absolute maximum voltage 30VDC
5. Measure Equipment:
   L: WK3260B or WK6500P
   RDC: CHEN HWA502 or 16502
   Isat: WK3260B+WK3265B
   Irms: CHROMA 1810

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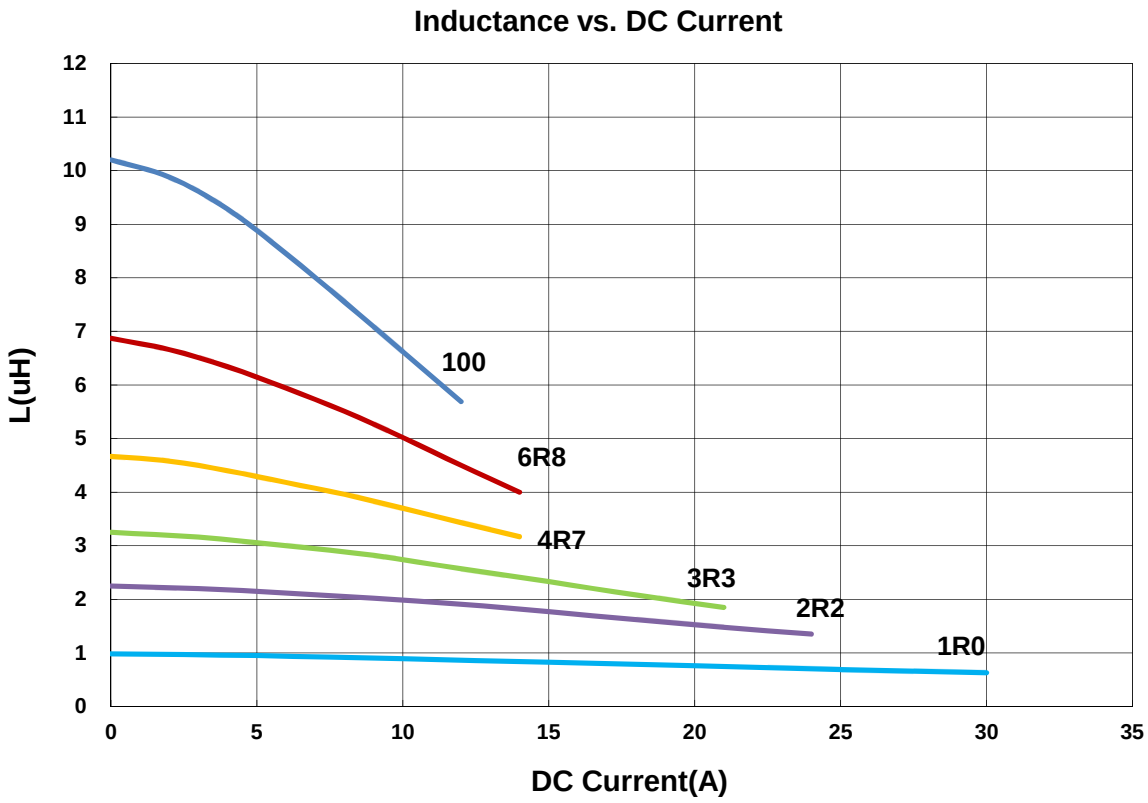
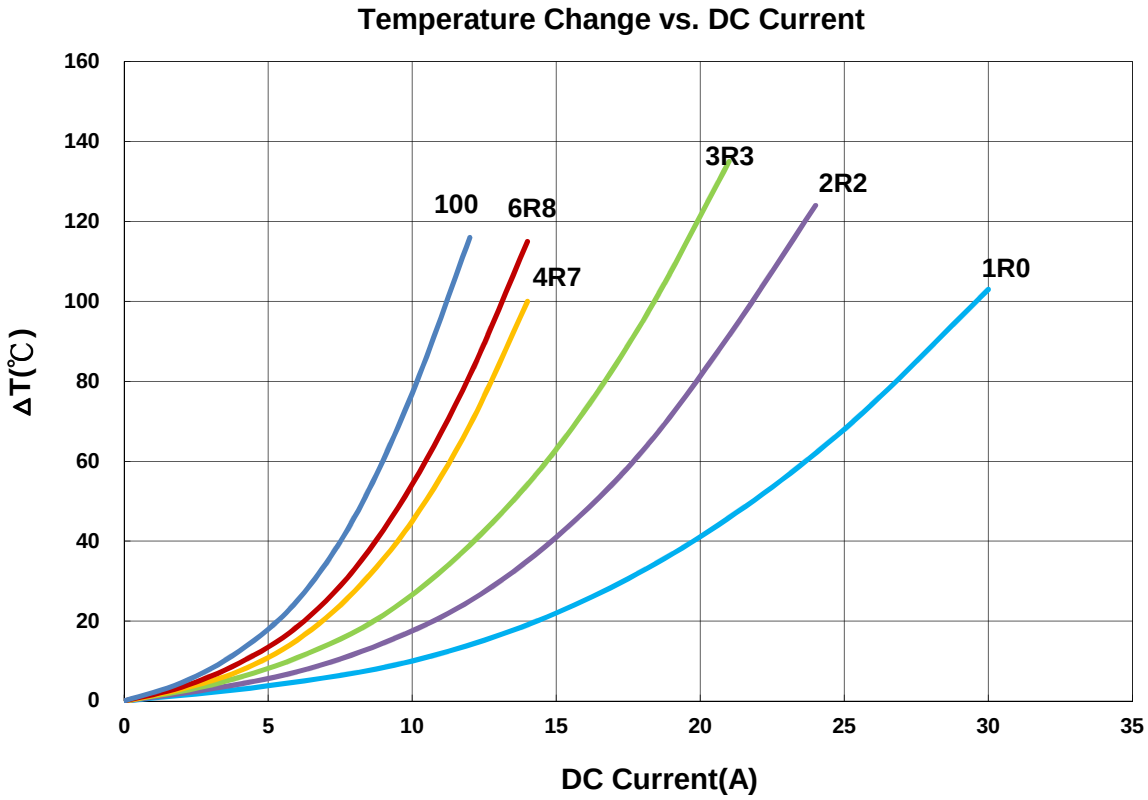
Power Inductor AMQx Series

Automotive
AEC-Q200

AMQU00101040 Type

■ Characteristics Graph





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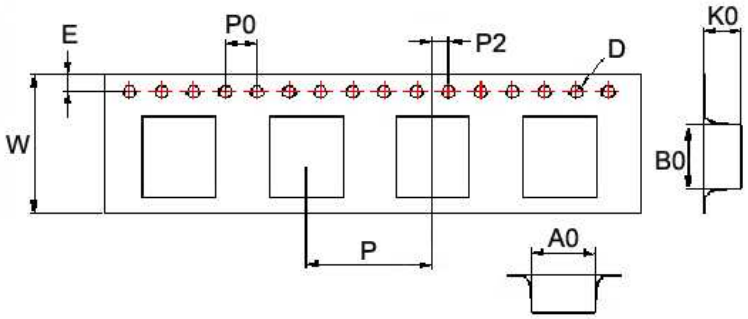
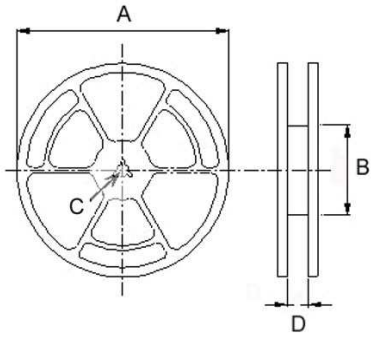
Packaging

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
AMQU00060630	7.1	7.6	3.4	1.55	1.75	16	12	4	2	330	100	13	16	1000
AMQU00101040	10.6	11.7	4.25	1.55	1.75	24	16	4	2	330	100	13	24.4	500

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Power Inductor AMRx Series

Automotive
AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Power Circuit | Shield | Wire Wound | Metal | Ultra High Current

Part Numbering

A	MRU	00	040420	1R0	M	A1
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code

Dimensions Code (mm)	
040412	4.2x4.7x1.2
040420	4.2x4.7x1.8
060630	6.8x7.3x2.8
101040	10.2x11.6x3.8
131365	12.8x13.8x6.5

Inductance (uH)	
R22	0.22
1R0	1.0
3R3	3.3

Tolerance	
M	±20%

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Pulse a YAGEO company

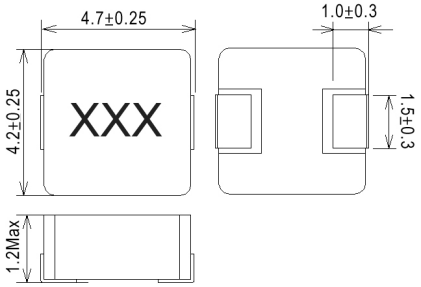
CHILISIN ELECTRONICS CORP.

Power Inductor AMRx Series

Automotive AEC-Q200

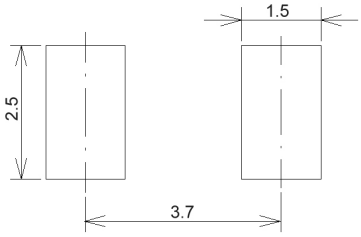
AMRU00040412 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMRU00040412R22MA1	0.22	100kHz/0.5V	12(11)	15	8.5	20	R22
AMRU00040412R47MA1	0.47	100kHz/0.5V	20(18)	9	5	20	R47
AMRU000404121R0MA1	1.0	100kHz/0.5V	43(39)	6	4	20	1R0

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

1. Operating temperature range - 40℃ ~ 125℃
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Absolute maximum voltage 30VDC
5. Measure Equipment:
   L: WK3260B or WK6500P
   RDC: CHEN HWA502 or 16502
   Isat: WK3260B+WK3265B
   Irms: CHROMA 1810

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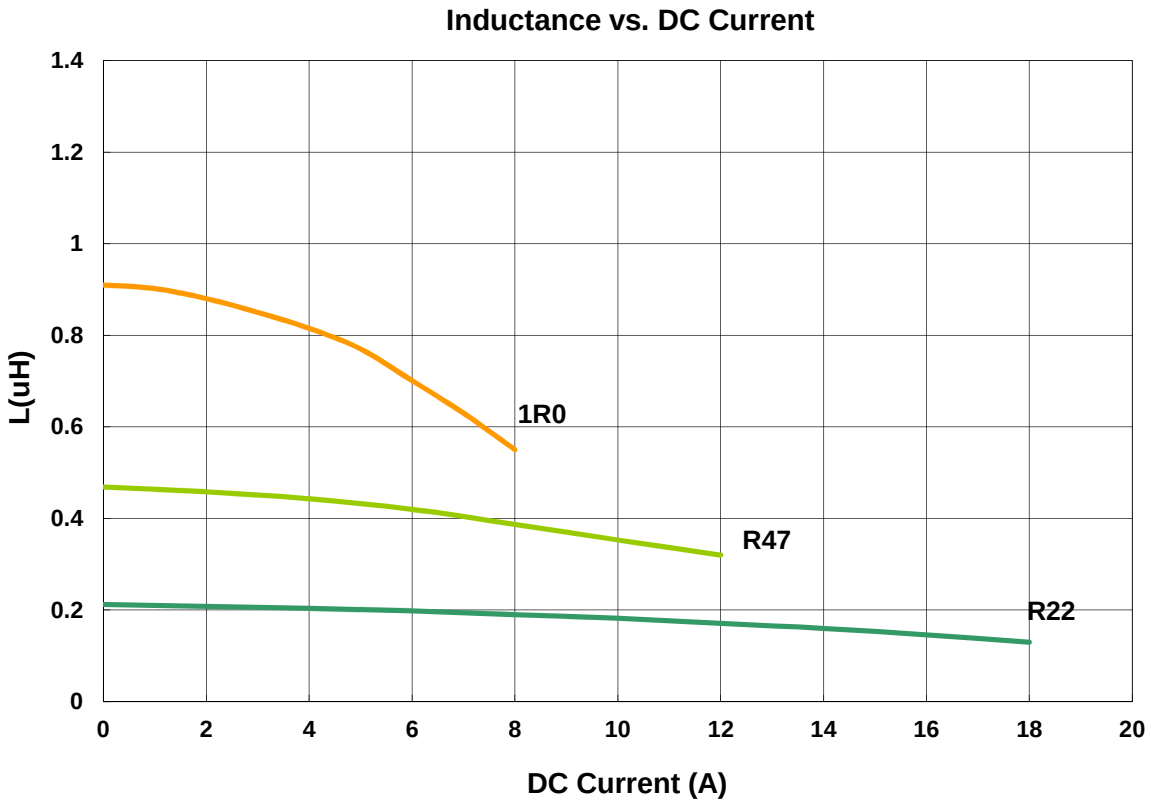
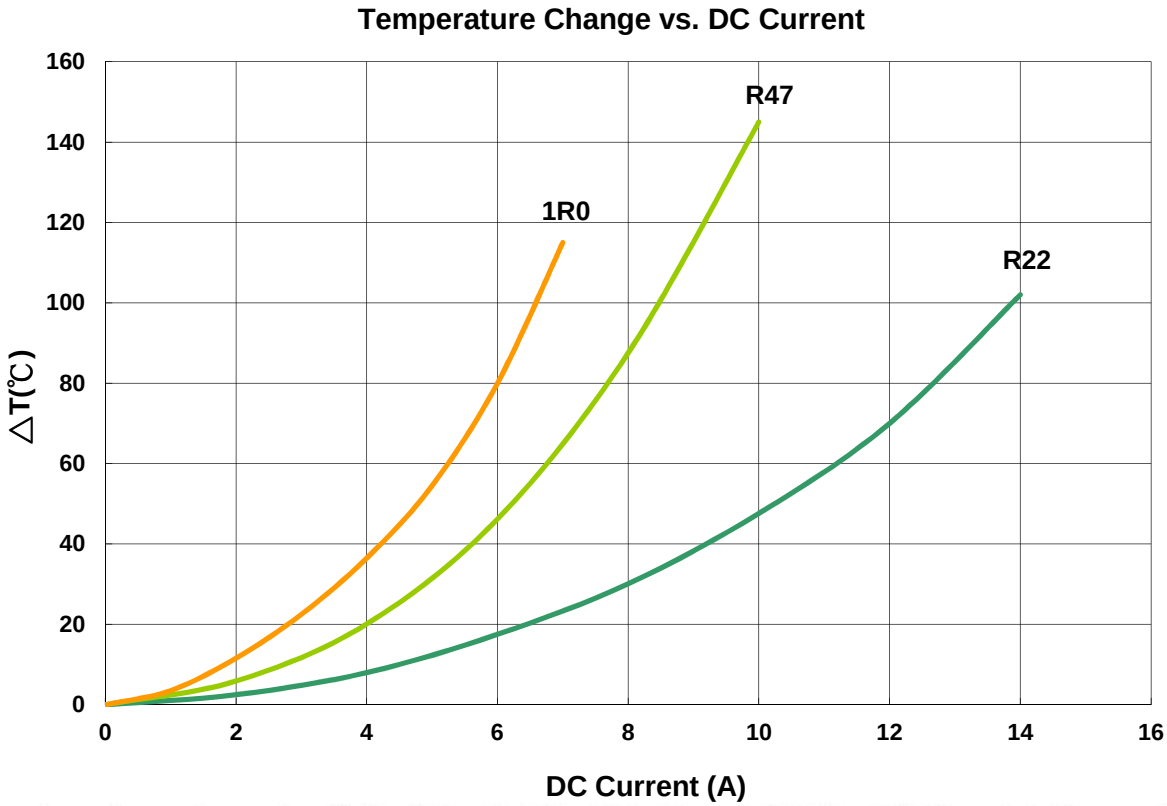
Power Inductor AMRx Series

Automotive
AEC-Q200

AMRU00040412 Type

■ Characteristics Graph





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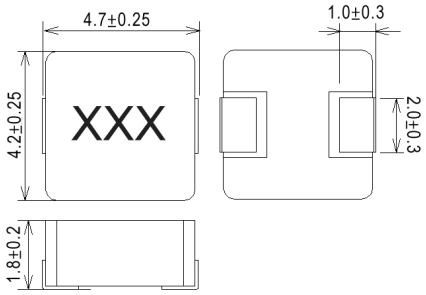
CHILISIN ELECTRONICS CORP.

Power Inductor AMRx Series

Automotive AEC-Q200

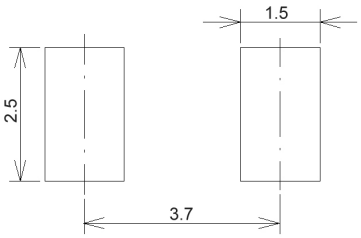
AMRU00040420 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMRU00040420R47MB1	0.47	100kHz/0.5V	14(12)	10	7	20	R47
AMRU000404201R0MB1	1	100kHz/0.5V	27(24)	7	4.5	20	1R0
AMRU000404201R5MB1	1.5	100kHz/0.5V	46(38)	6	4	20	1R5
AMRU000404202R2MB1	2.2	100kHz/0.5V	55(50)	5	3	20	2R2
AMRU000404204R7MB1	4.7	100kHz/0.5V	105(95)	3.5	2.2	20	4R7

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

1. Operating temperature range - 40℃ ~ 125℃
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Absolute maximum voltage 30VDC
5. Measure Equipment:
   L: WK3260B or WK6500P
   RDC: CHEN HWA502 or 16502
   Isat: WK3260B+WK3265B
   Irms: CHROMA 1810

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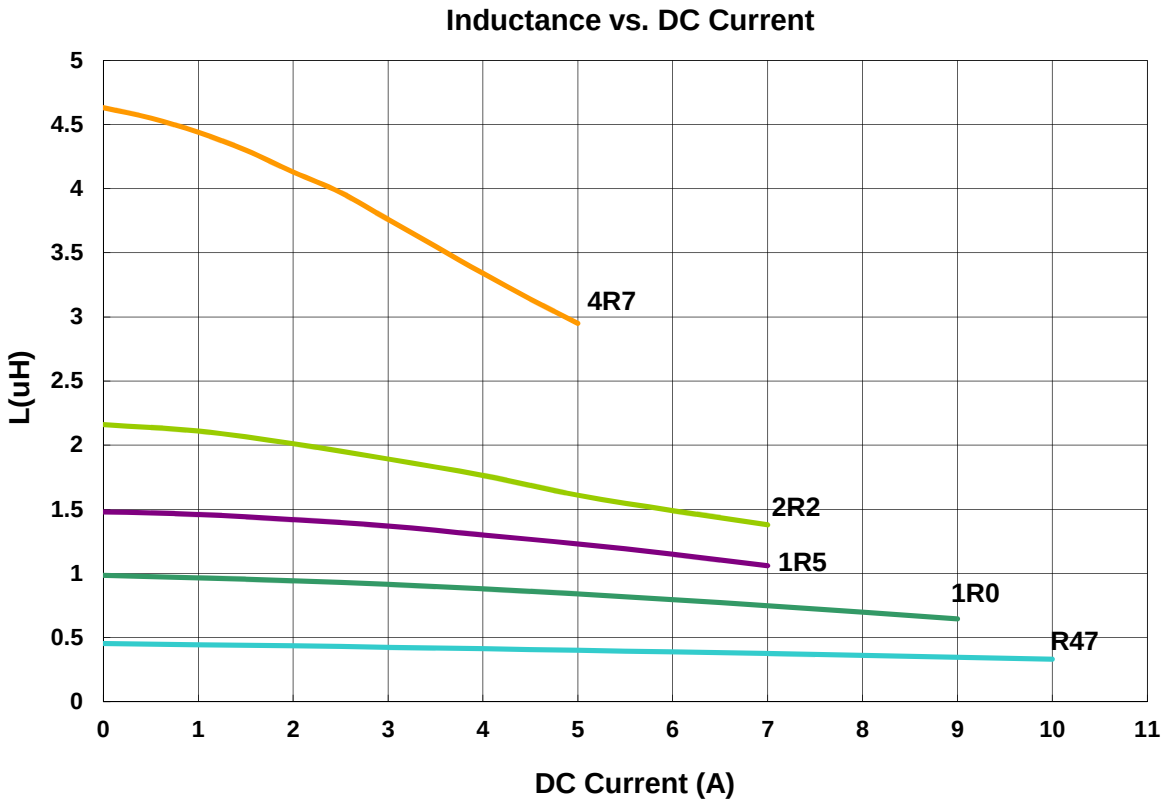
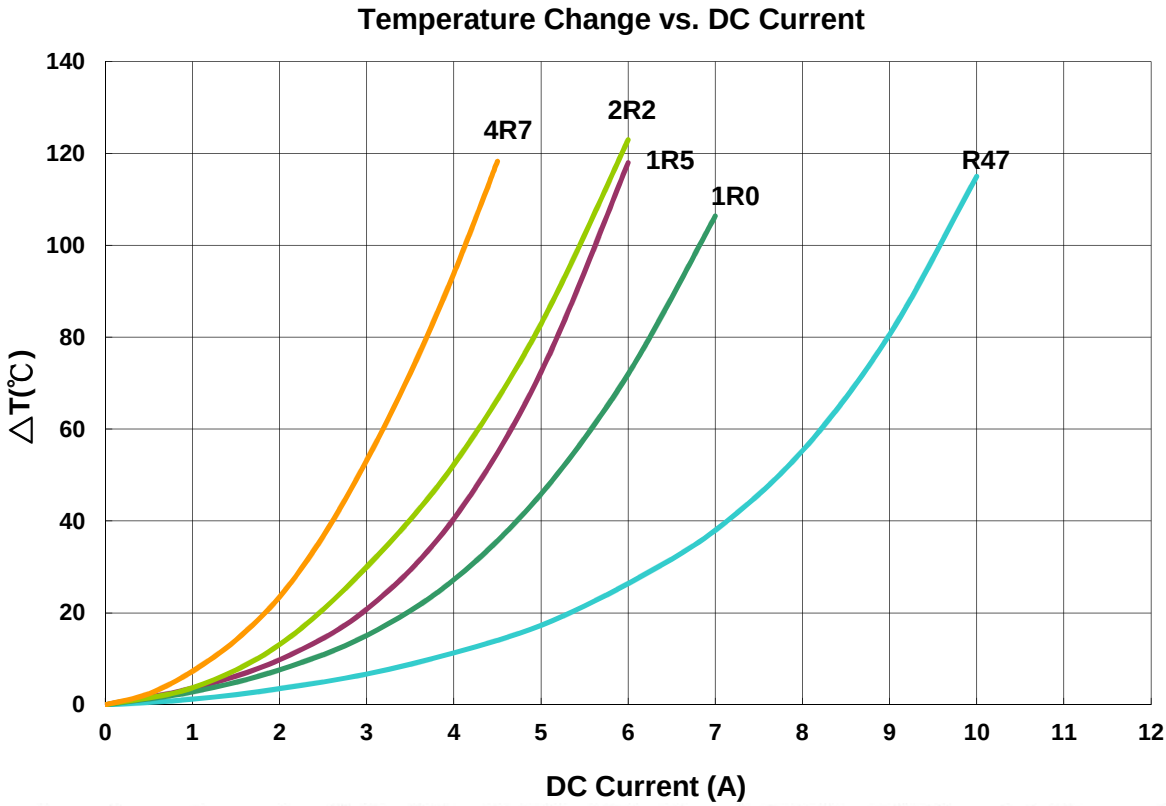
Power Inductor AMRx Series

Automotive
AEC-Q200

AMRU00040420 Type

■ Characteristics Graph





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Pulse a YAGEO company

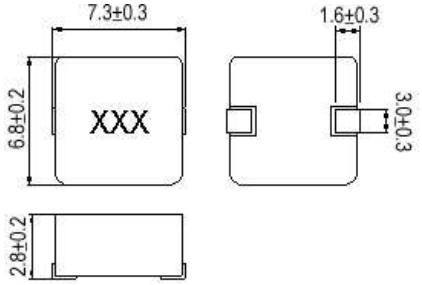
CHILISIN ELECTRONICS CORP.

Power Inductor AMRx Series

Automotive AEC-Q200

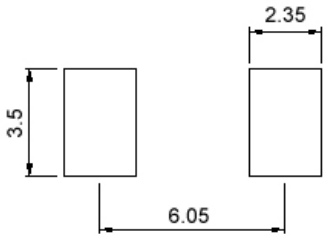
AMRU00060630 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMRU00060630R47MA1	0.47	100kHz,0.5V	4.3(3.9)	20	16.5	20	R47
AMRU000606301R0MA1	1	100kHz,0.5V	10(9)	18	10	20	1R0
AMRU000606301R5MA1	1.5	100kHz,0.5V	14(13)	13	9	20	1R5
AMRU000606302R2MA1	2.2	100kHz,0.5V	20(18)	10	8	20	2R2
AMRU000606303R3MA1	3.3	100kHz,0.5V	28(25)	9	6.5	20	3R3
AMRU000606304R7MA1	4.7	100kHz,0.5V	40(35)	8	5.5	20	4R7
AMRU000606305R6MA1	5.6	100kHz,0.5V	45(38)	7	5	20	5R6
AMRU000606306R8MA1	6.8	100kHz,0.5V	49.5(45)	6	4.5	20	6R8
AMRU000606308R2MA1	8.2	100kHz,0.5V	55(50)	5.2	4.3	20	8R2
AMRU00060630100MA1	10	100kHz,0.5V	68(62)	5	4	20	100
AMRU00060630150MA1	15	100kHz,0.5V	125(110)	4.5	3.2	20	150
AMRU00060630220MA1	22	100kHz,0.5V	145(130)	3.5	3	20	220

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

1. Operating temperature range - 40℃ ~ 125℃
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Absolute maximum voltage 30VDC
5. Measure Equipment:
   L: WK3260B or WK6500P
   RDC: CHEN HWA502 or 16502
   Isat: WK3260B+WK3265B
   Irms: CHROMA 1810

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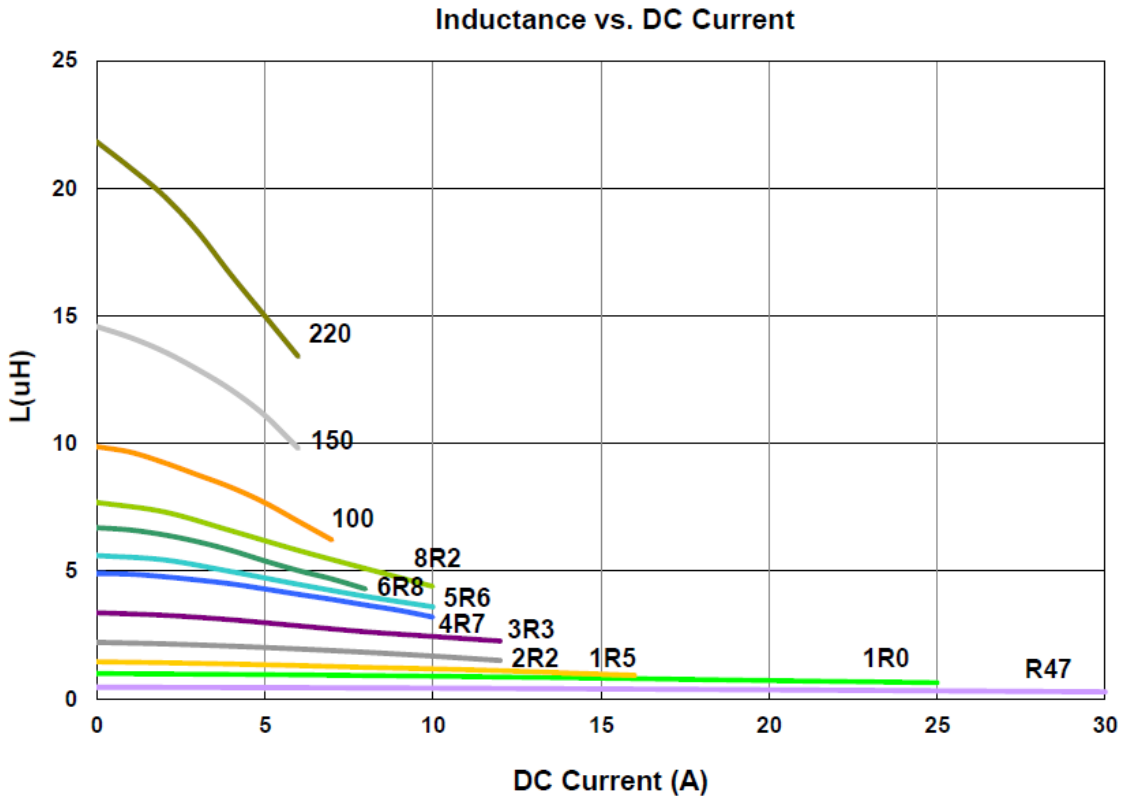
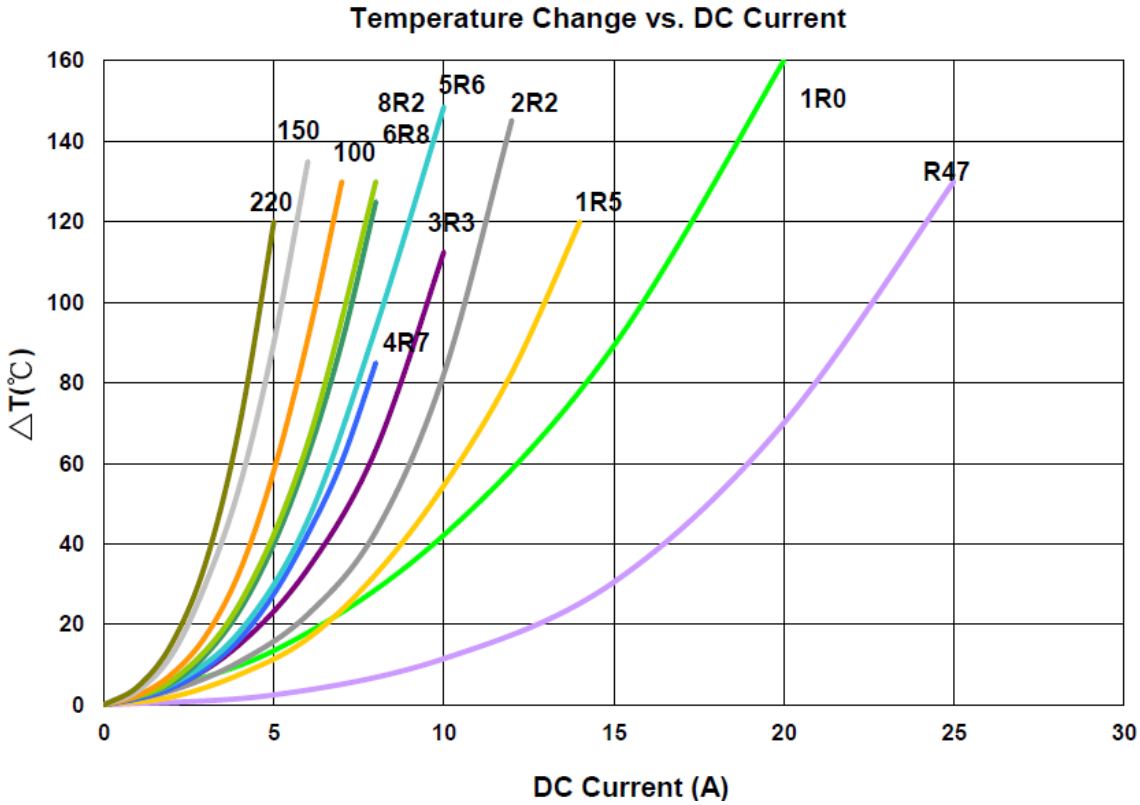
Power Inductor AMRx Series

Automotive
AEC-Q200

AMRU00060630 Type

■ Characteristics Graph





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Pulse a YAGEO company

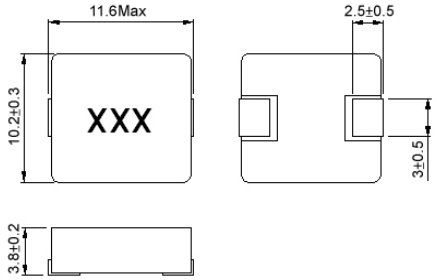
CHILISIN ELECTRONICS CORP.

Power Inductor AMRx Series

Automotive
AEC-Q200

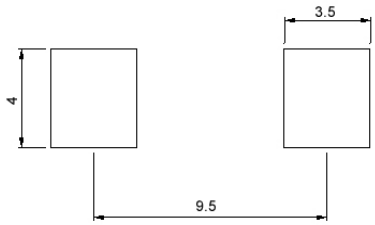
AMRU00101040 Type

Dimensions



unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMRU001010401R0MA1	1	100kHz/0.5V	3.3(3.0)	20	18	20	1R0
AMRU001010402R2MA1	2.2	100kHz/0.5V	6.8(6.0)	16	14	20	2R2
AMRU001010403R3MA1	3.3	100kHz/0.5V	11(10)	13	11	20	3R3
AMRU001010404R7MA1	4.7	100kHz/0.5V	16(14.5)	11	9	20	4R7
AMRU001010406R8MA1	6.8	100kHz/0.5V	24(20)	9	8	20	6R8
AMRU00101040100MA1	10	100kHz/0.5V	30(27)	7	6.5	20	100
AMRU00101040150MA1	15	100kHz/0.5V	45(40)	6.25	6	20	150
AMRU00101040220MA1	22	100kHz/0.5V	66(60)	5	4.5	20	220
AMRU00101040330MA1	33	100kHz/0.5V	100(90)	4	3.5	20	330
AMRU00101040470MA1	47	100kHz/0.5V	165(150)	3.5	3	20	470

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

1. Operating temperature range - 40℃ ~ 125℃
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Absolute maximum voltage 30VDC
5. Measure Equipment:
   L: WK3260B or WK6500P
   RDC: CHEN HWA502 or 16502
   Isat: WK3260B+WK3265B
   Irms: CHROMA 1810

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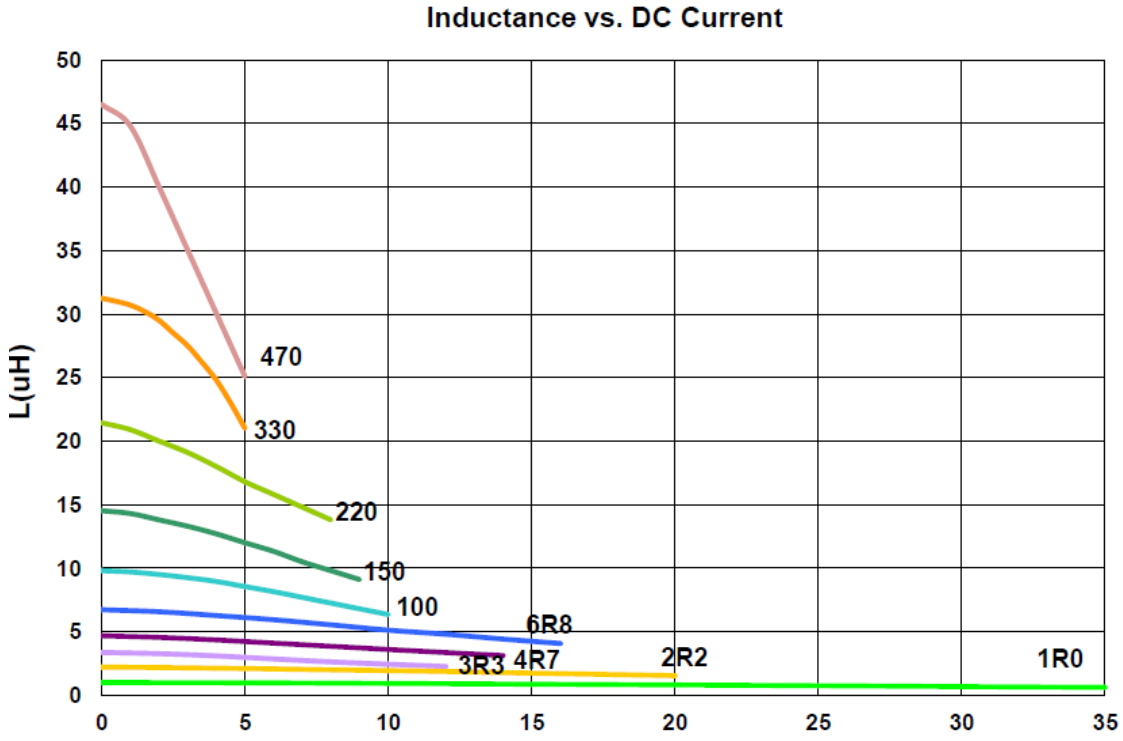
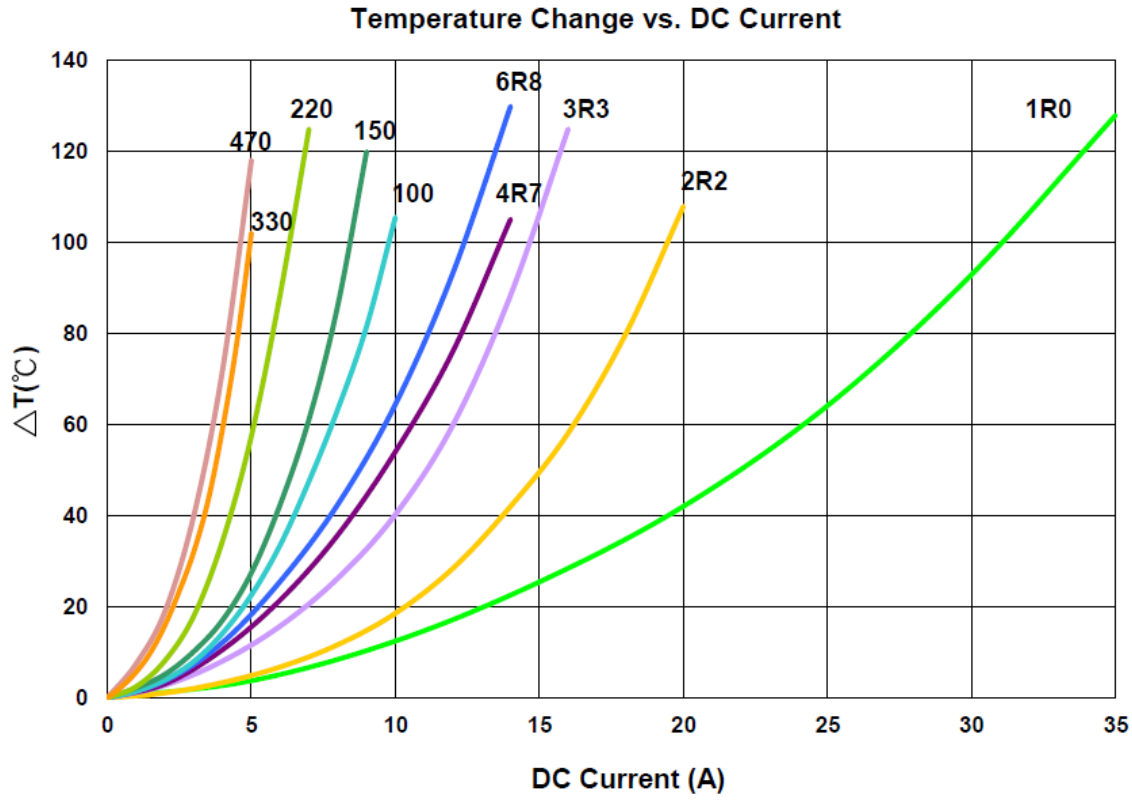
Power Inductor AMRx Series

Automotive
AEC-Q200

AMRU00101040 Type

■ Characteristics Graph





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Pulse a YAGEO company

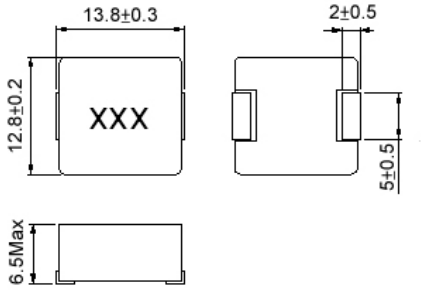
CHILISIN ELECTRONICS CORP.

Power Inductor AMRx Series

Automotive AEC-Q200

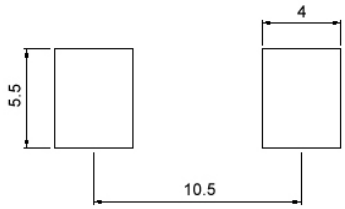
AMRU00131365 Type

Dimensions



unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMRU001313651R0MA1	1	100kHz/0.5V	2.1(1.9)	30	28	20	1R0
AMRU001313651R5MA1	1.5	100kHz/0.5V	3.0(2.7)	28	23	20	1R5
AMRU001313652R2MA1	2.2	100kHz/0.5V	4.4(3.7)	25	18	20	2R2
AMRU001313653R3MA1	3.3	100kHz/0.5V	6.8(5.7)	22	16	20	3R3
AMRU001313654R7MA1	4.7	100kHz/0.5V	7.7(7.0)	18	14	20	4R7
AMRU00131365100MA1	10	100kHz/0.5V	18(16.5)	12	10	20	100
AMRU00131365220MA1	22	100kHz/0.5V	40(35)	7	6	20	220
AMRU00131365330MA1	33	100kHz/0.5V	55(50)	6	5	20	330
AMRU00131365470MA1	47	100kHz/0.5V	100(80)	5	4	20	470

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

1. Operating temperature range - 40℃ ~ 125℃
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Absolute maximum voltage 30VDC
5. Measure Equipment:
   L: WK3260B or WK6500P
   RDC: CHEN HWA502 or 16502
   Isat: WK3260B+WK3265B
   Irms: CHROMA 1810

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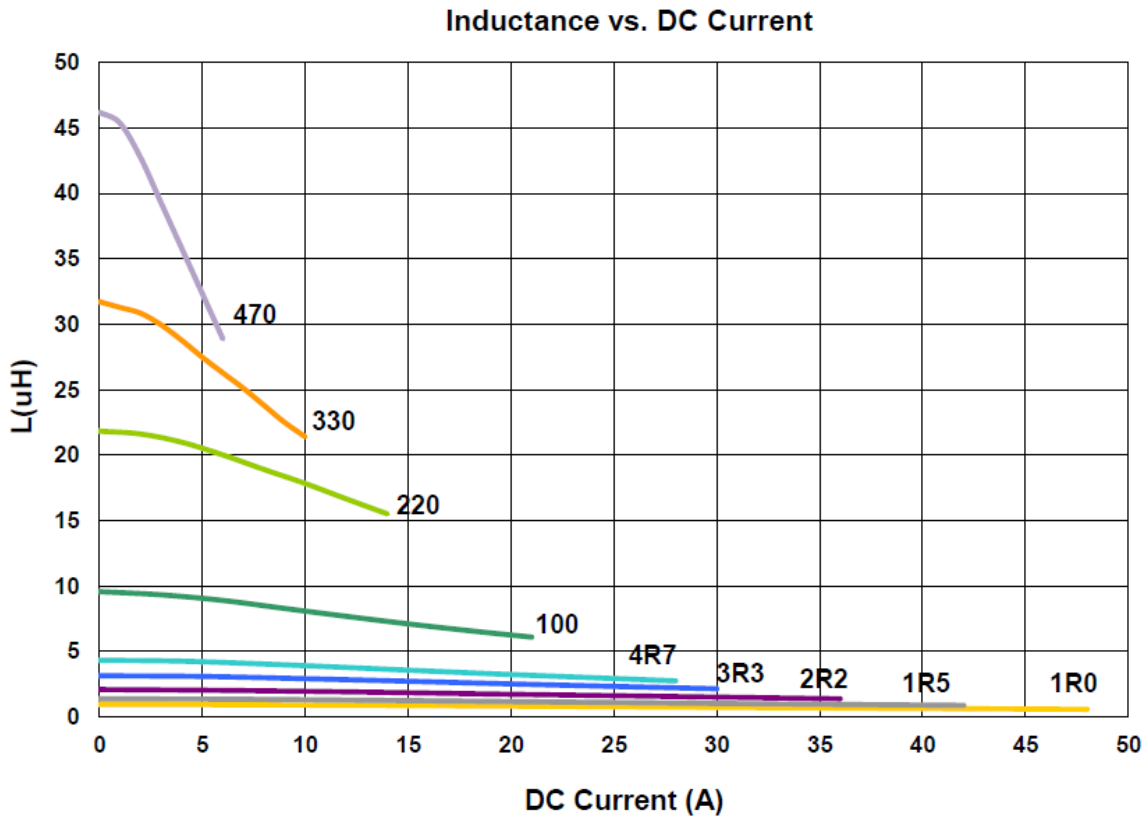
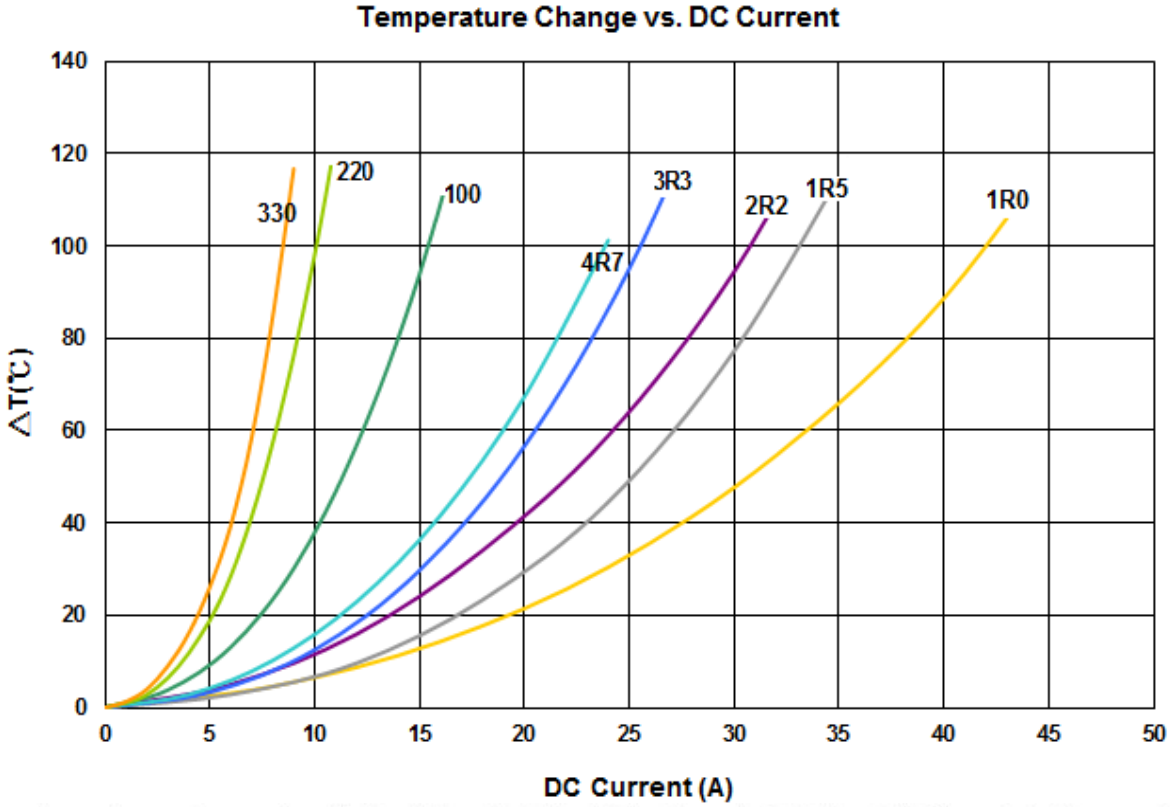
Power Inductor AMRx Series

Automotive
AEC-Q200

AMRU00131365 Type

■ Characteristics Graph





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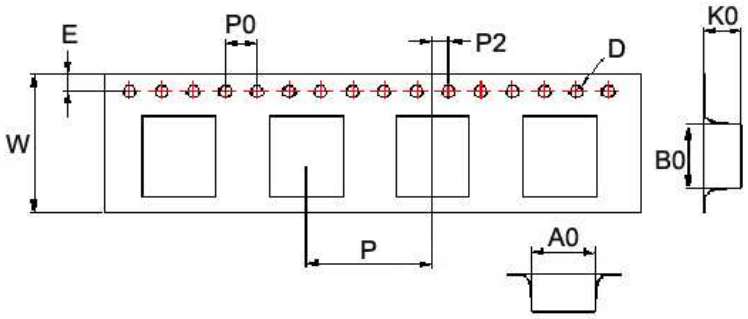
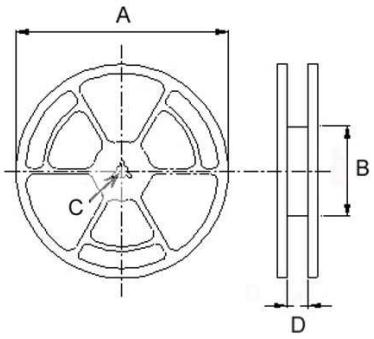
Packaging

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
AMRU00040412	4.4	4.9	1.5	1.55	1.75	12	8	4	2	330	100	13	13.4	2000
AMRU00040420	4.3	4.9	2.4	1.55	1.75	12	8	4	2	330	100	13	13.4	2000
AMRU00060630	7.1	7.6	3.4	1.55	1.75	16	12	4	2	330	100	13	16	1000
AMRU00101040	10.6	11.7	4.25	1.55	1.75	24	16	4	2	330	100	13	24.4	500
AMRU00131365	13.1	14.6	6.75	1.55	1.75	24	16	4	2	330	100	13	24.4	500

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Power Inductor AMRM Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Power Circuit | Shield | Wire Wound | Metal | Ultra High Current

■ Part Numbering

A	MRM	00	101040	1R0	M	A1
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			101040 10.2x11.6x3.8	R22 0.22	M ±20%	
				1R0 1.0		
				3R3 3.3		

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Pulse a YAGEO company

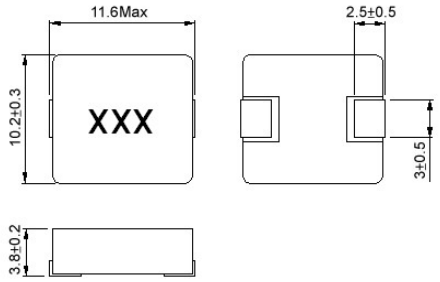
CHILISIN ELECTRONICS CORP.

Power Inductor AMRM Series

Automotive
AEC-Q200

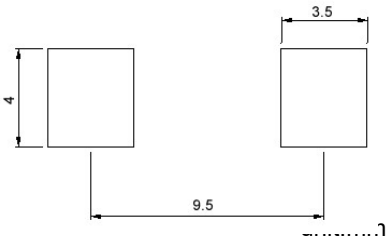
AMRM00101040 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMRM001010401R0MA1	1	100kHz/0.5V	3.3(3.0)	20	18	20	1R0
AMRM001010402R2MA1	2.2	100kHz/0.5V	6.8(6.0)	16	14	20	2R2
AMRM001010403R3MA1	3.3	100kHz/0.5V	11(10)	13	11	20	3R3
AMRM001010404R7MA1	4.7	100kHz/0.5V	16(14.5)	11	9	20	4R7
AMRM001010406R8MA1	6.8	100kHz/0.5V	24(20)	9	8	20	6R8
AMRM00101040100MA1	10	100kHz/0.5V	30(27)	7	6.5	20	100
AMRM00101040150MA1	15	100kHz/0.5V	45(40)	6.25	6	20	150
AMRM00101040220MA1	22	100kHz/0.5V	66(60)	5	4.5	20	220
AMRM00101040330MA1	33	100kHz/0.5V	100(90)	4	3.5	20	330
AMRM00101040470MA1	47	100kHz/0.5V	165(150)	3.5	3	20	470

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

1. Operating temperature range －40℃～125℃
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Absolute maximum voltage 30VDC
5. Measure Equipment:
   L: WK3260B or WK6500P
   RDC: CHEN HWA502 or 16502
   Isat: WK3260B+WK3265B
   Irms: CHROMA 1810

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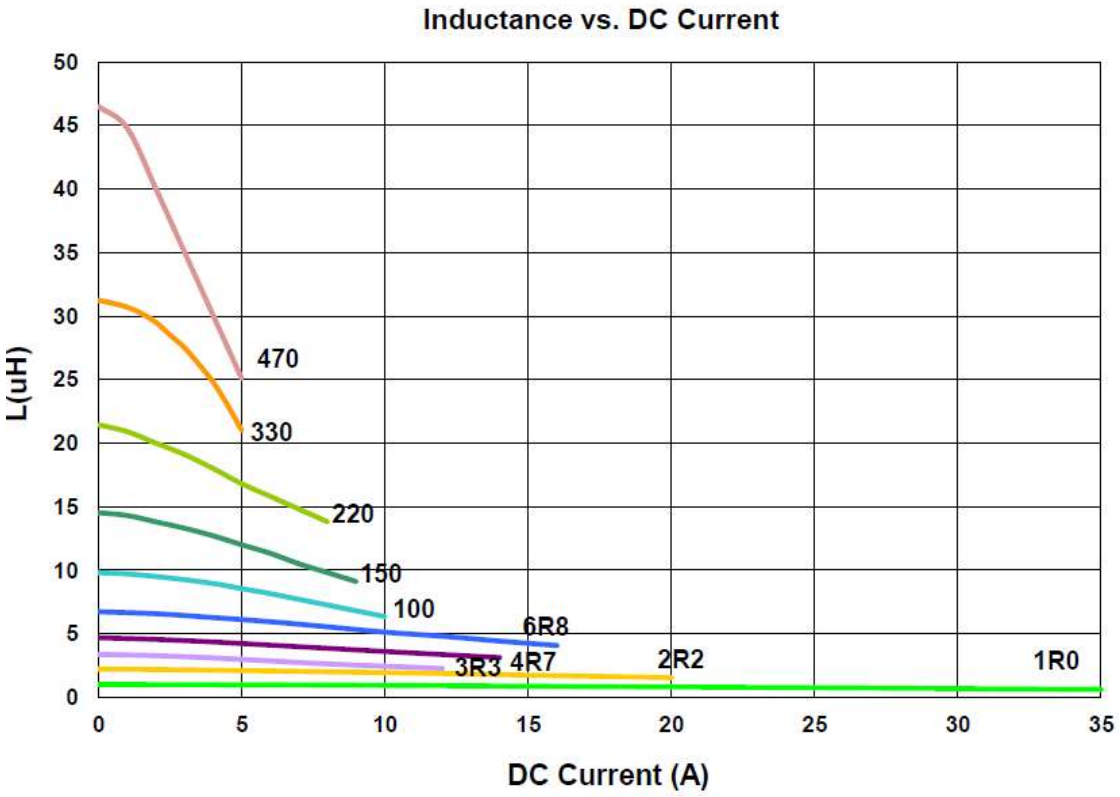
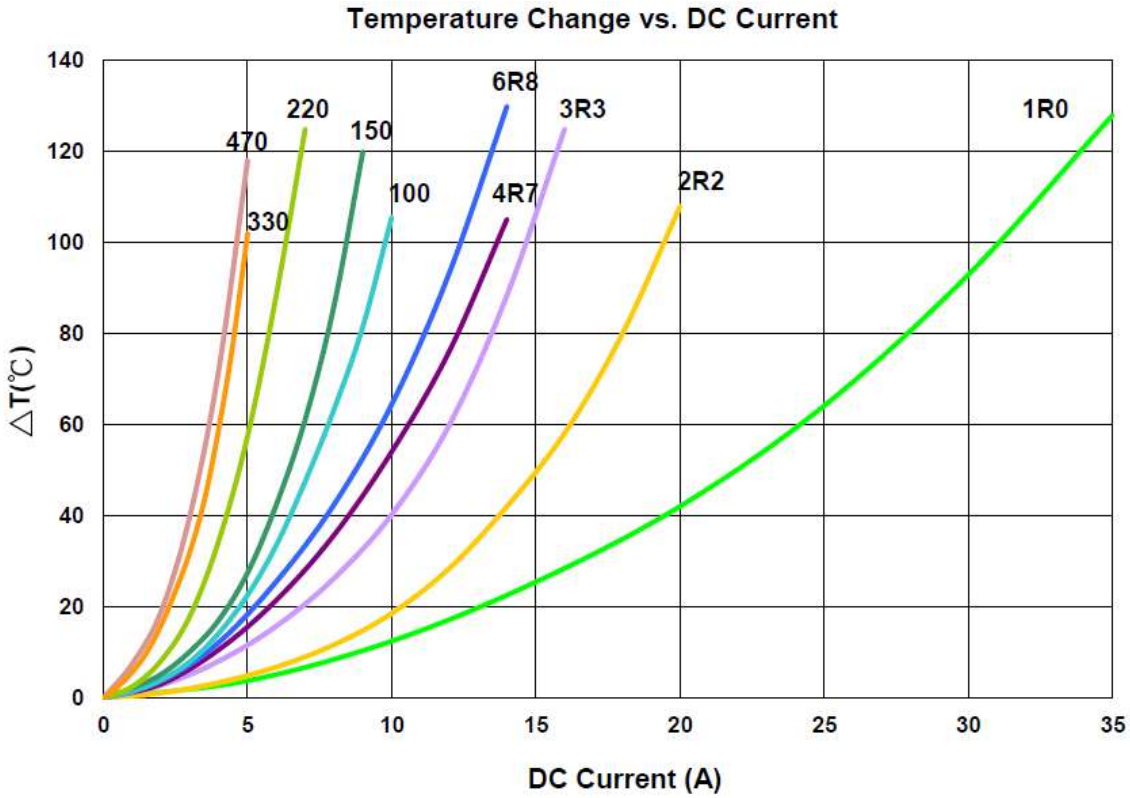
Power Inductor AMRM Series

Automotive
AEC-Q200

AMRM00101040 Type

■ Characteristics Graph





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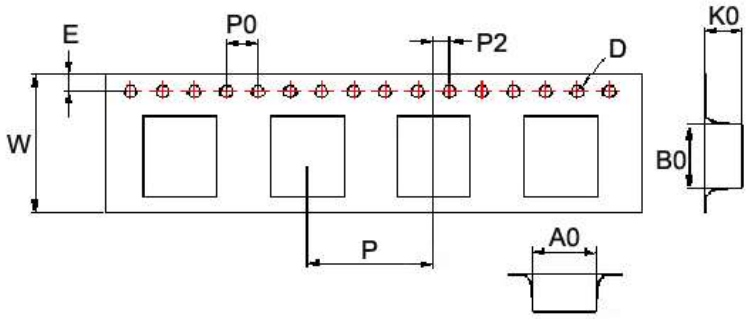
Power Inductor AMRM Series

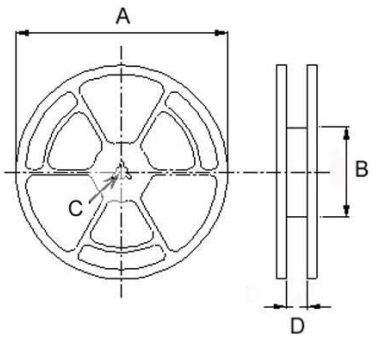
Automotive
AEC-Q200

■ Packaging

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
AMRM00101040	10.6	11.7	4.25	1.55	1.75	24	16	4	2	330	100	13	24.4	500

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Power Inductor AMRZ Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Power Circuit | Shield | Wire Wound | Metal | Ultra High Current

■ Part Numbering

A	MRZ	00	040420	1R0	M	A1
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code

Dimensions Code (mm)	
040412	4.2x4.7x1.2
040420	4.2x4.7x1.8
060630	6.8x7.3x2.8
101040	10.2x11.6x3.8
131365	12.8x13.8x6.5

Inductance (uH)	
R22	0.22
1R0	1.0
3R3	3.3

Tolerance	
M	±20%

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Pulse a YAGEO company

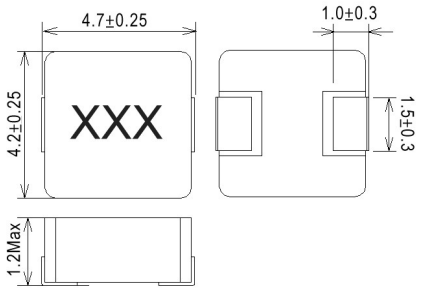
CHILISIN ELECTRONICS CORP.

Power Inductor AMRZ Series

Automotive
AEC-Q200

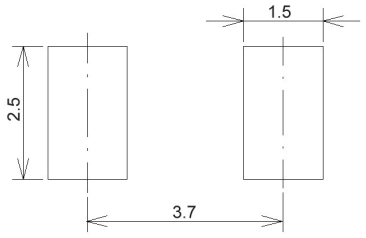
AMRZ00040412 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMRZ00040412R22MA1	0.22	100kHz/0.5V	12(11)	15.0	8.5	20	R22
AMRZ00040412R47MA1	0.47	100kHz/0.5V	20(18)	9.0	5.0	20	R47
AMRZ000404121R0MA1	1	100kHz/0.5V	43(39)	6.0	4.0	20	1R0

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

1. Operating temperature range - 55°C ~ 155°C
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Absolute maximum voltage 30VDC
5. Measure Equipment:
   L: WK3260B or WK6500P
   RDC: CHEN HWA502 or 16502
   Isat: WK3260B+WK3265B
   Irms: CHROMA 1810

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Pulse a YAGEO company

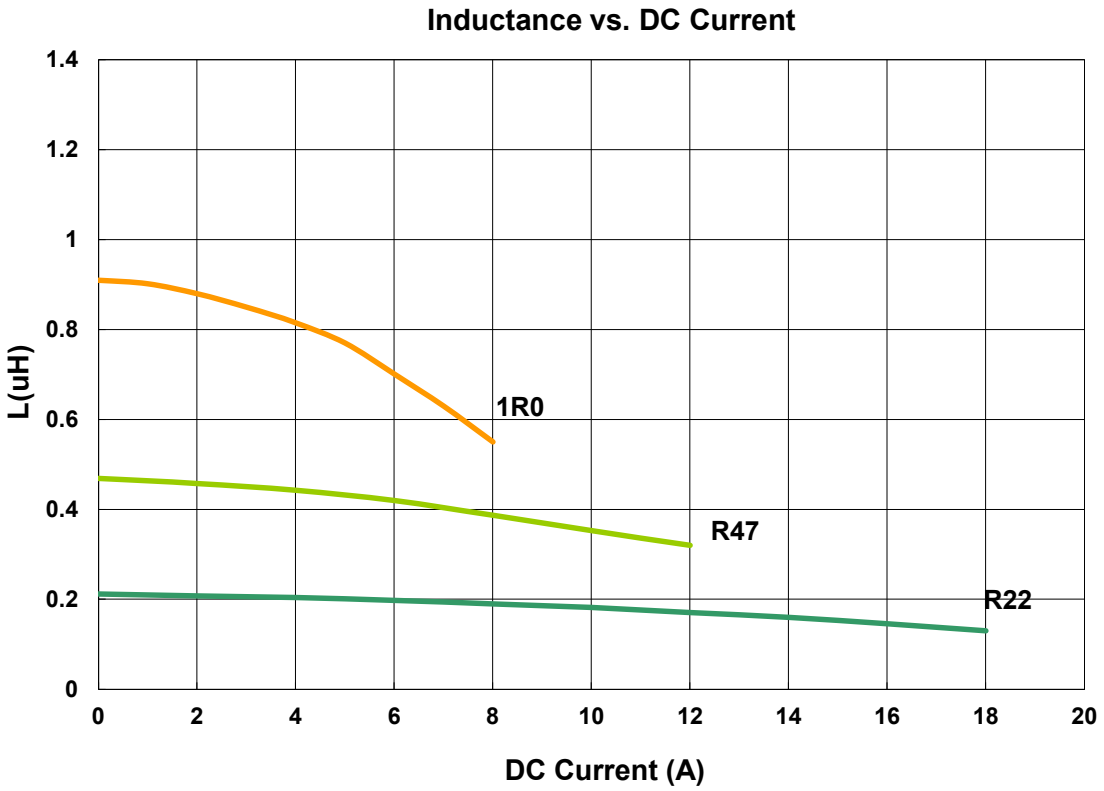
CHILISIN ELECTRONICS CORP.

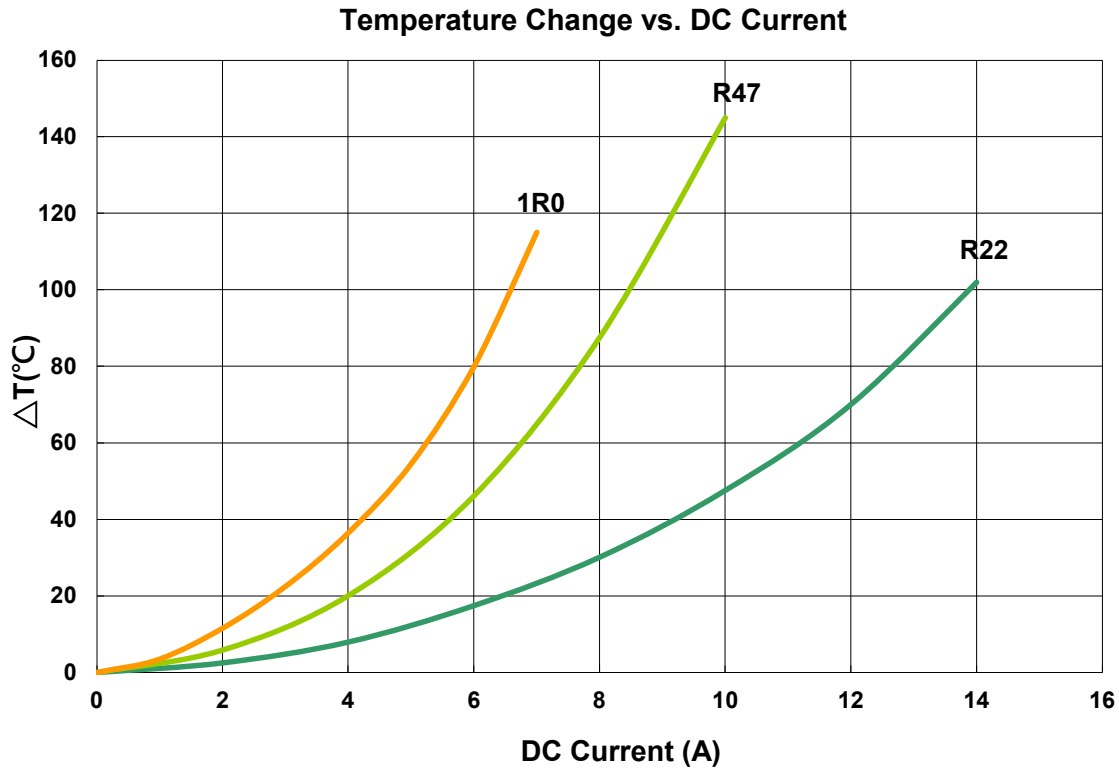
Power Inductor AMRZ Series

Automotive
AEC-Q200

AMRZ00040412 Type

■ Characteristics Graph





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Pulse a YAGEO company

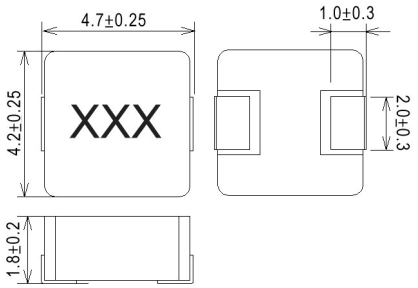
CHILISIN ELECTRONICS CORP.

Power Inductor AMRZ Series

Automotive
AEC-Q200

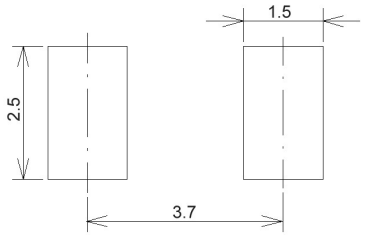
AMRZ00040420 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMRZ00040420R47MB1	0.47	100kHz/0.5V	14(12)	10.0	7.0	20	R47
AMRZ000404201R0MB1	1	100kHz/0.5V	27(24)	7.0	4.5	20	1R0
AMRZ000404201R5MB1	1.5	100kHz/0.5V	46(38)	6.0	4.0	20	1R5
AMRZ000404202R2MB1	2.2	100kHz/0.5V	55(50)	5.0	3.0	20	2R2
AMRZ000404204R7MB1	4.7	100kHz/0.5V	105(95)	3.5	2.2	20	4R7

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

1. Operating temperature range - 55°C ~ 155°C
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Absolute maximum voltage 30VDC
5. Measure Equipment:
   L: WK3260B or WK6500P
   RDC: CHEN HWA502 or 16502
   Isat: WK3260B+WK3265B
   Irms: CHROMA 1810

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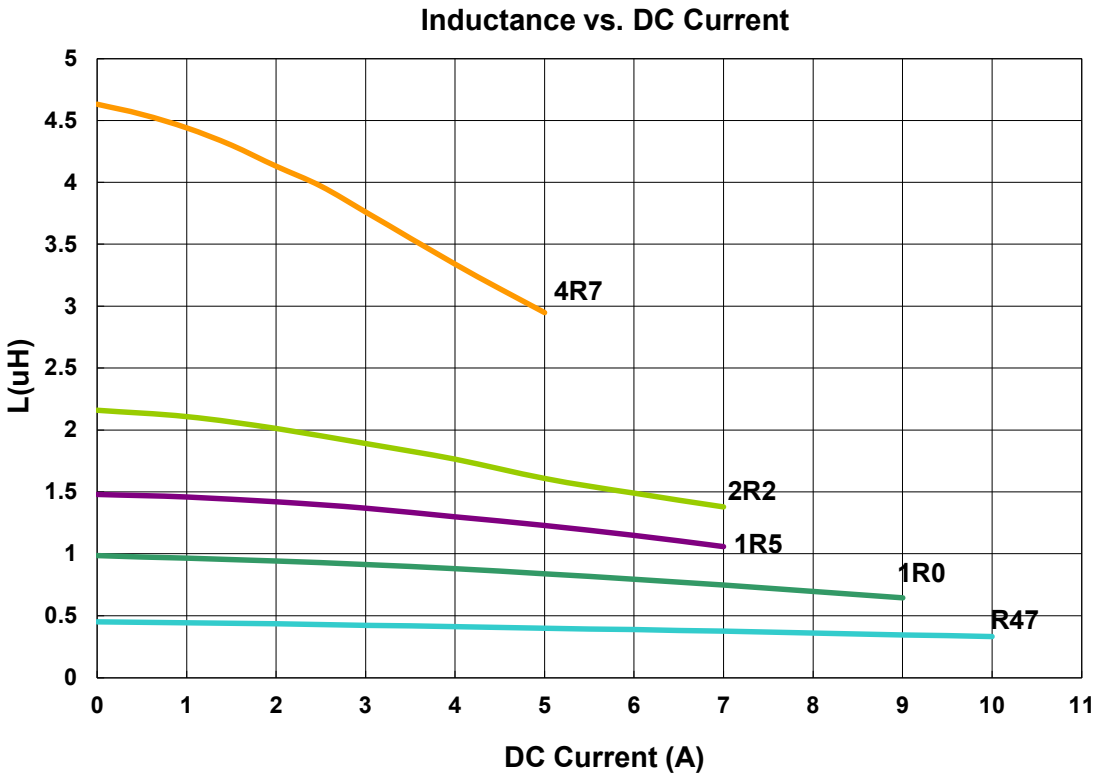
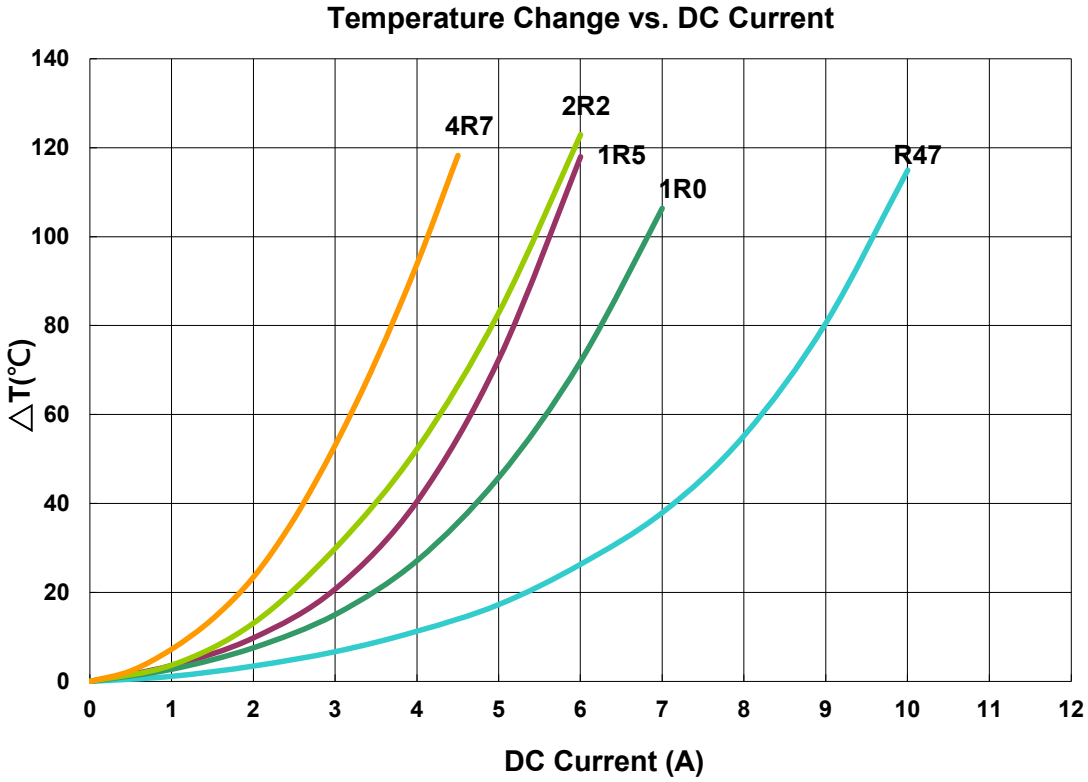
Power Inductor AMRZ Series

Automotive
AEC-Q200

AMRZ00040420 Type

■ Characteristics Graph





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Pulse a YAGEO company

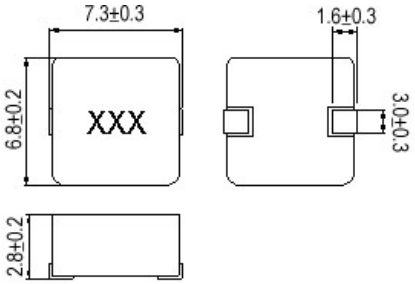
CHILISIN ELECTRONICS CORP.

Power Inductor AMRZ Series

Automotive
AEC-Q200

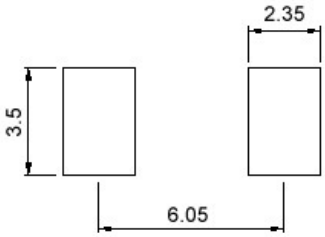
AMRZ00060630 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMRZ00060630R47MA1	0.47	100kHz,0.5V	4.3(3.9)	20.0	16.5	20	R47
AMRZ000606301R0MA1	1	100kHz,0.5V	10(9)	18.0	10.0	20	1R0
AMRZ000606301R5MA1	1.5	100kHz,0.5V	14(13)	13.0	9.0	20	1R5
AMRZ000606302R2MA1	2.2	100kHz,0.5V	20(18)	10.0	8.0	20	2R2
AMRZ000606303R3MA1	3.3	100kHz,0.5V	28(25)	9.0	6.5	20	3R3
AMRZ000606304R7MA1	4.7	100kHz,0.5V	40(35)	8.0	5.5	20	4R7
AMRZ000606305R6MA1	5.6	100kHz,0.5V	45(38)	7.0	5.0	20	5R6
AMRZ000606306R8MA1	6.8	100kHz,0.5V	49.5(45)	6.0	4.5	20	6R8
AMRZ000606308R2MA1	8.2	100kHz,0.5V	55(50)	5.2	4.3	20	8R2
AMRZ00060630100MA1	10	100kHz,0.5V	68(62)	5.0	4.0	20	100
AMRZ00060630150MA1	15	100kHz,0.5V	125(110)	4.5	3.2	20	150
AMRZ00060630220MA1	22	100kHz,0.5V	145(130)	3.5	3.0	20	220

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

1. Operating temperature range - 55°C ~ 155°C
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Absolute maximum voltage 30VDC
5. Measure Equipment:
   L: WK3260B or WK6500P
   RDC: CHEN HWA502 or 16502
   Isat: WK3260B+WK3265B
   Irms: CHROMA 1810

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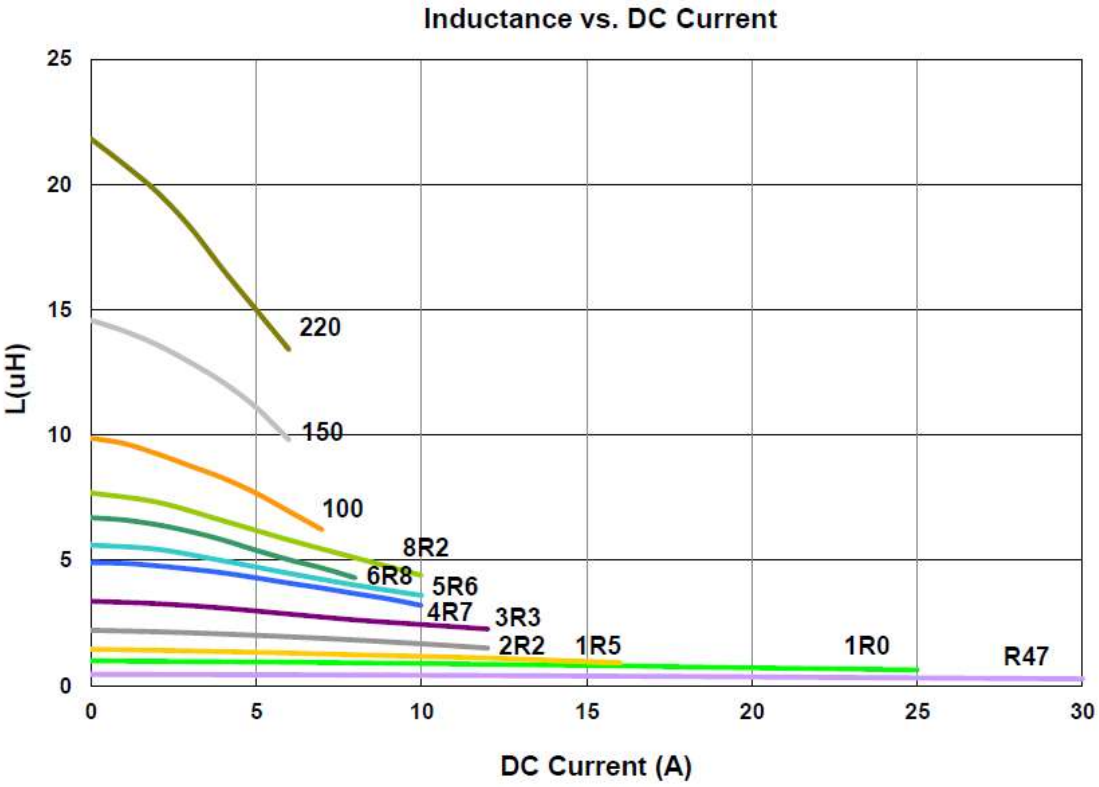
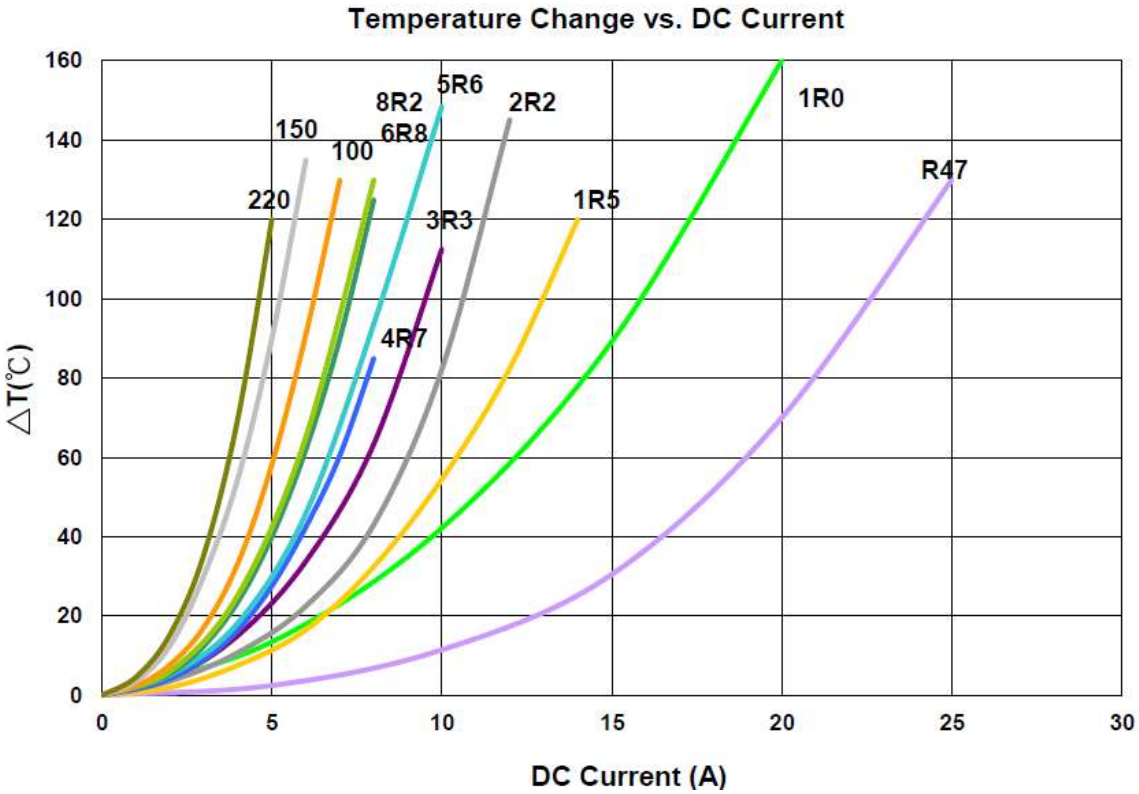
Power Inductor AMRZ Series

Automotive
AEC-Q200

AMRZ00060630 Type

■ Characteristics Graph





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Pulse a YAGEO company

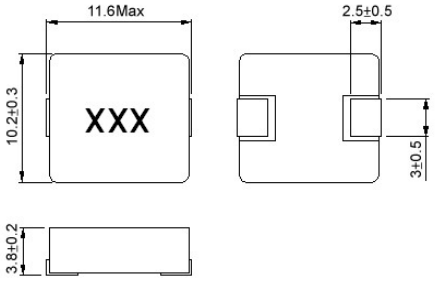
CHILISIN ELECTRONICS CORP.

Power Inductor AMRZ Series

Automotive
AEC-Q200

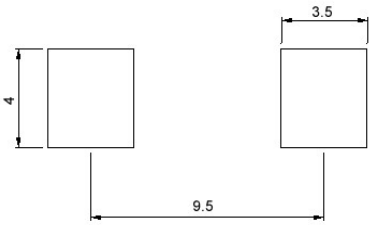
AMRZ00101040 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMRZ001010401R0MA1	1	100kHz/0.5V	3.3(3.0)	20.0	18.0	20	1R0
AMRZ001010402R2MA1	2.2	100kHz/0.5V	6.8(6.0)	16.0	14.0	20	2R2
AMRZ001010403R3MA1	3.3	100kHz/0.5V	11(10)	13.0	11.0	20	3R3
AMRZ001010404R7MA1	4.7	100kHz/0.5V	16(14.5)	11.0	9.0	20	4R7
AMRZ001010406R8MA1	6.8	100kHz/0.5V	24(20)	9.0	8.0	20	6R8
AMRZ00101040100MA1	10	100kHz/0.5V	30(27)	7.0	6.5	20	100
AMRZ00101040150MA1	15	100kHz/0.5V	45(40)	6.3	6.0	20	150
AMRZ00101040220MA1	22	100kHz/0.5V	66(60)	5.0	4.5	20	220
AMRZ00101040330MA1	33	100kHz/0.5V	100(90)	4.0	3.5	20	330
AMRZ00101040470MA1	47	100kHz/0.5V	165(150)	3.5	3.0	20	470

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

1. Operating temperature range - 55°C ~ 155°C
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Absolute maximum voltage 30VDC
5. Measure Equipment:
   L: WK3260B or WK6500P
   RDC: CHEN HWA502 or 16502
   Isat: WK3260B+WK3265B
   Irms: CHROMA 1810

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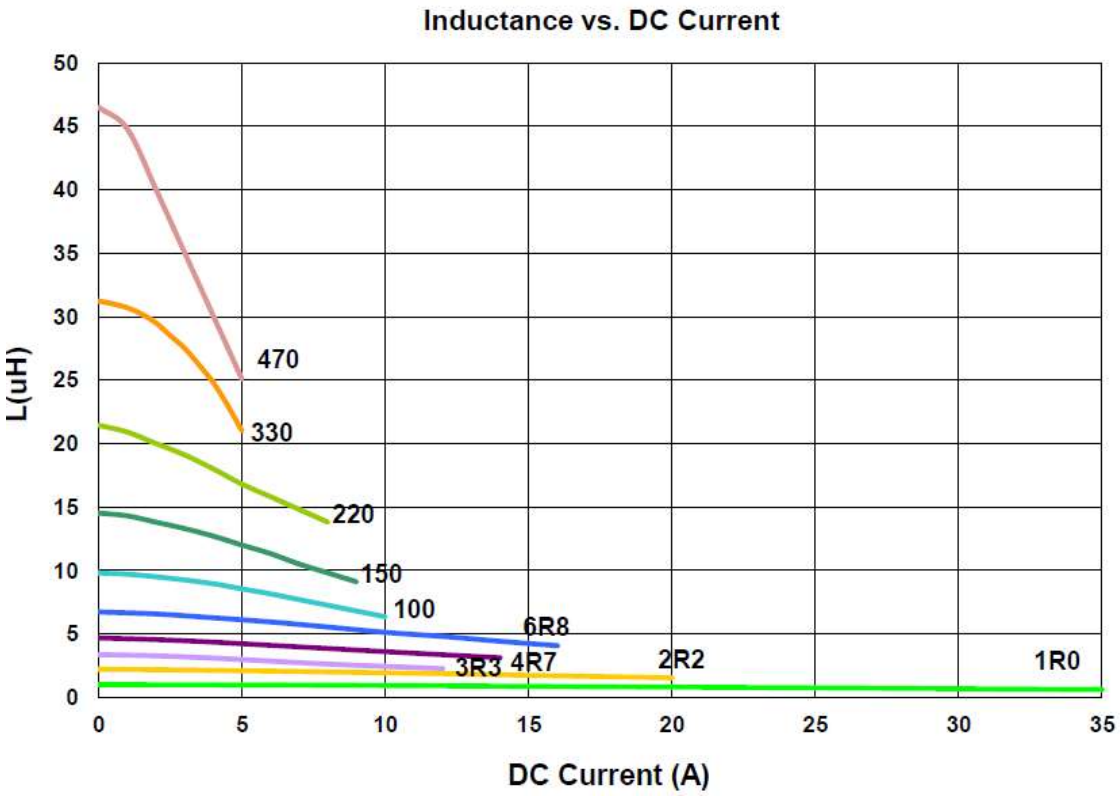
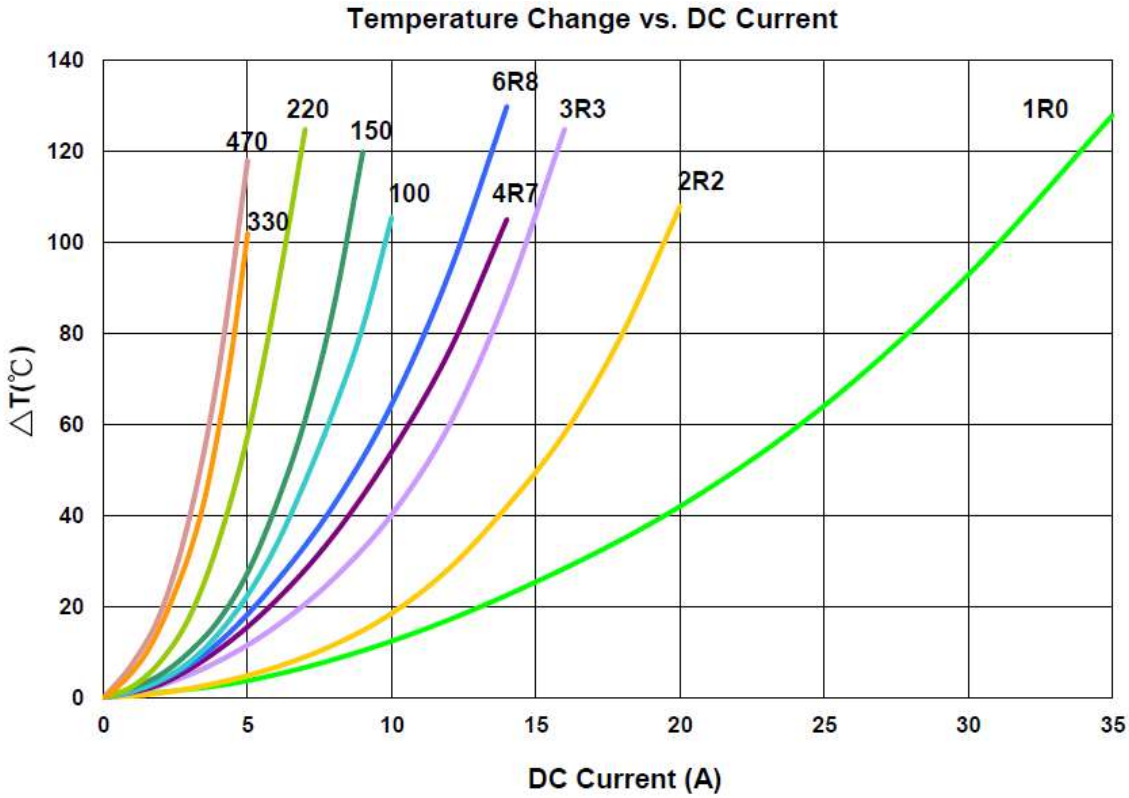
Power Inductor AMRZ Series

Automotive
AEC-Q200

AMRZ00101040 Type

■ Characteristics Graph





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Pulse a YAGEO company

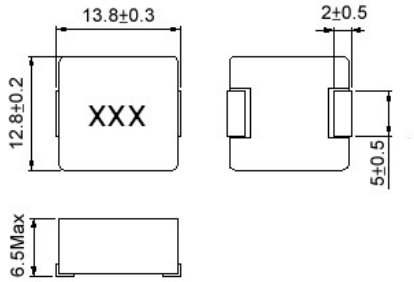
CHILISIN ELECTRONICS CORP.

Power Inductor AMRZ Series

Automotive
AEC-Q200

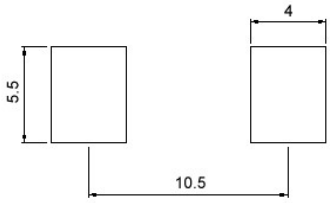
AMRZ00131365 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMRZ001313651R0MA1	1	100kHz/0.5V	2.1(1.9)	30.0	28.0	20	1R0
AMRZ001313651R5MA1	1.5	100kHz/0.5V	3.0(2.7)	28.0	23.0	20	1R5
AMRZ001313652R2MA1	2.2	100kHz/0.5V	4.4(3.7)	25.0	18.0	20	2R2
AMRZ001313653R3MA1	3.3	100kHz/0.5V	6.8(5.7)	22.0	16.0	20	3R3
AMRZ001313654R7MA1	4.7	100kHz/0.5V	7.7(7.0)	18.0	14.0	20	4R7
AMRZ00131365100MA1	10	100kHz/0.5V	18(16.5)	12.0	10.0	20	100
AMRZ00131365220MA1	22	100kHz/0.5V	40(35)	7.0	6.0	20	220
AMRZ00131365330MA1	33	100kHz/0.5V	55(50)	6.0	5.0	20	330
AMRZ00131365470MA1	47	100kHz/0.5V	100(80)	5.0	4.0	20	470

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

1. Operating temperature range - 55°C ~ 155°C
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Absolute maximum voltage 30VDC
5. Measure Equipment:
   L: WK3260B or WK6500P
   RDC: CHEN HWA502 or 16502
   Isat: WK3260B+WK3265B
   Irms: CHROMA 1810

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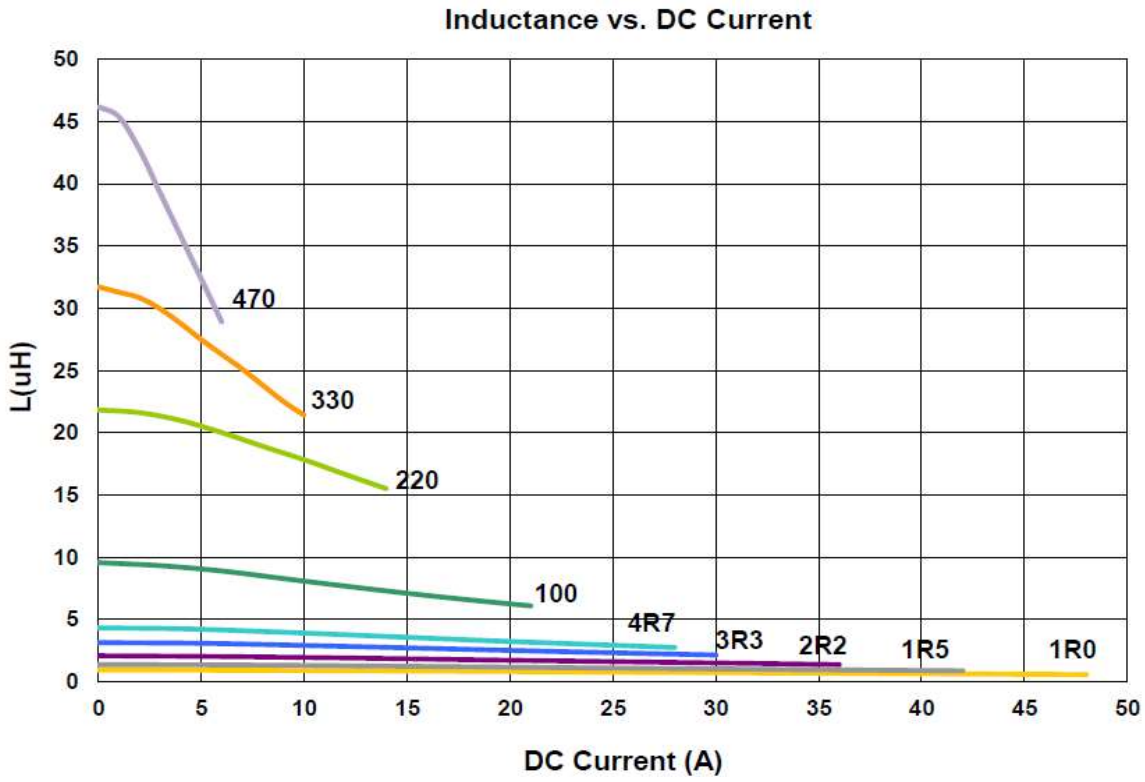
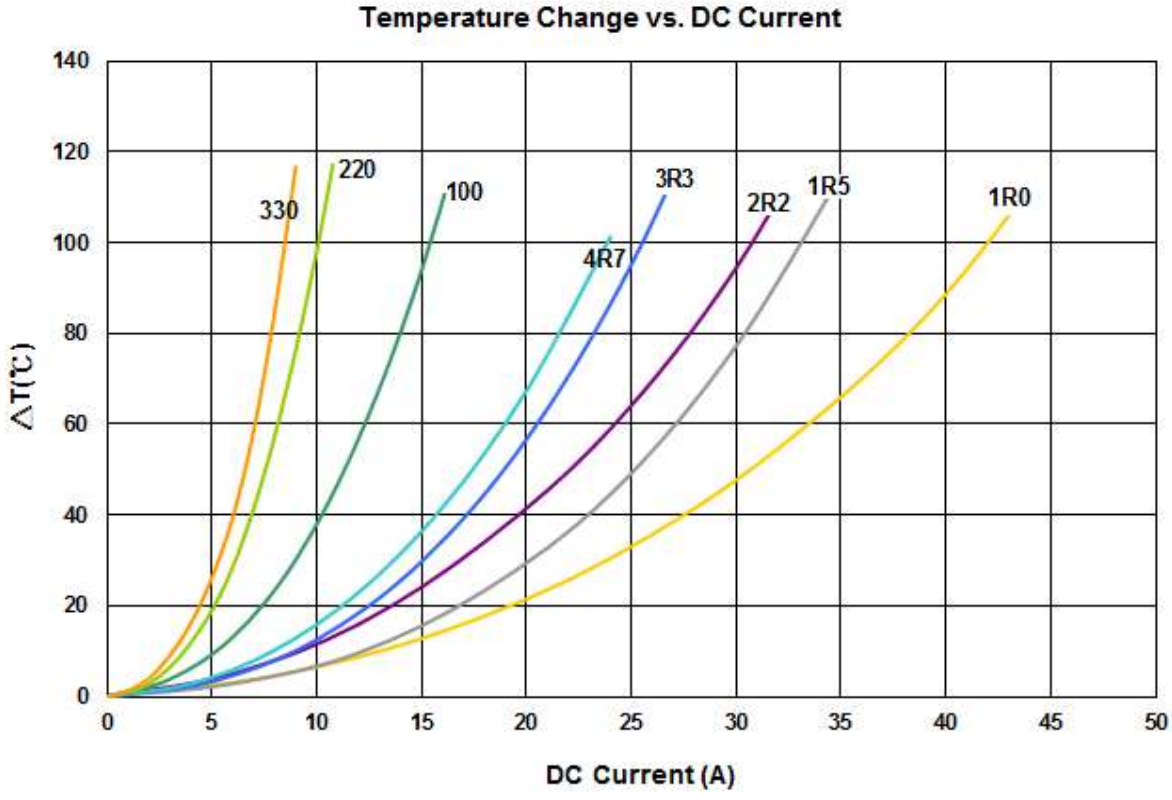
Power Inductor AMRZ Series

Automotive
AEC-Q200

AMRZ00131365 Type

■ Characteristics Graph





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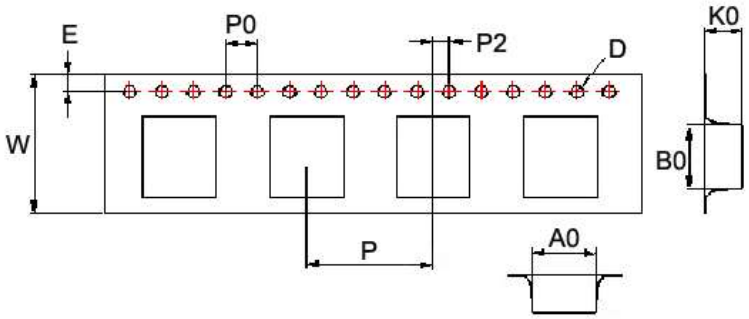
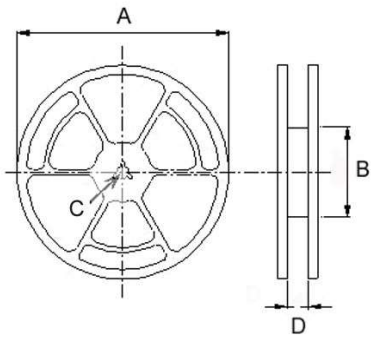
■ Packaging

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
AMRZ00040412	4.4	4.9	1.5	1.55	1.75	12	8	4	2	330	100	13	13.4	2000
AMRZ00040420	4.3	4.9	2.4	1.55	1.75	12	8	4	2	330	100	13	13.4	2000
AMRZ00060630	7.1	7.6	3.4	1.55	1.75	16	12	4	2	330	100	13	16	1000
AMRZ00101040	10.6	11.7	4.25	1.55	1.75	24	16	4	2	330	100	13	24.4	500
AMRZ00131365	13.1	14.6	6.75	1.55	1.75	24	16	4	2	330	100	13	24.4	500

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Power Inductor AMMA Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Power Circuit | Shield | Wire Wound | Metal | Ultra High Current

■ Part Numbering

A	MMA	00	040420	1R0	M	V1
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code

Dimensions Code (mm)	
040420	4.45x4.06x2
050530	5.49x5.18x3
060630	6.86x6.47x3
101040	10.5x10x4
131364	13.2x12.9x6.4

Inductance (uH)	
R22	0.22
1R0	1.0
3R3	3.3

Tolerance	
M	±20%

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Pulse a YAGEO company

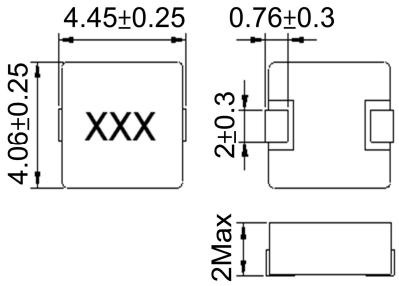
CHILISIN ELECTRONICS CORP.

Power Inductor AMMA Series

Automotive
AEC-Q200

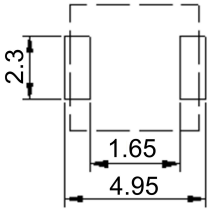
AMMA00040420 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMMA00040420R10MV1	0.10	100kHz/0.25V	5(4.5)	35	11	20	R10
AMMA00040420R22MV1	0.22	100kHz/0.25V	8(7.3)	24	13	20	R22
AMMA00040420R33MV1	0.33	100kHz/0.25V	13(9.6)	18	9	20	R33
AMMA00040420R47MV1	0.47	100kHz/0.25V	18(16)	11.5	5.6	20	R47
AMMA000404201R0MV1	1.0	100kHz/0.25V	37(33)	8.5	3.75	20	1R0
AMMA000404201R2MV1	1.2	100kHz/0.25V	48(41)	7	3.1	20	1R2
AMMA000404202R2MV1	2.2	100kHz/0.25V	90(80)	6	2.85	20	2R2

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

1. Operating temperature range －55℃～125℃
2. Isat for Inductance drop 20% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Withstand voltage : 25VDC
5. Measure Equipment:
   L: Keysight 4285A or equivalent.
   RDC: ADEX AX1152D or equivalent.
   Isat: Keysight 4285A or equivalent.
   Irms: CHROMA 62050P-100-100

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Pulse a YAGEO company

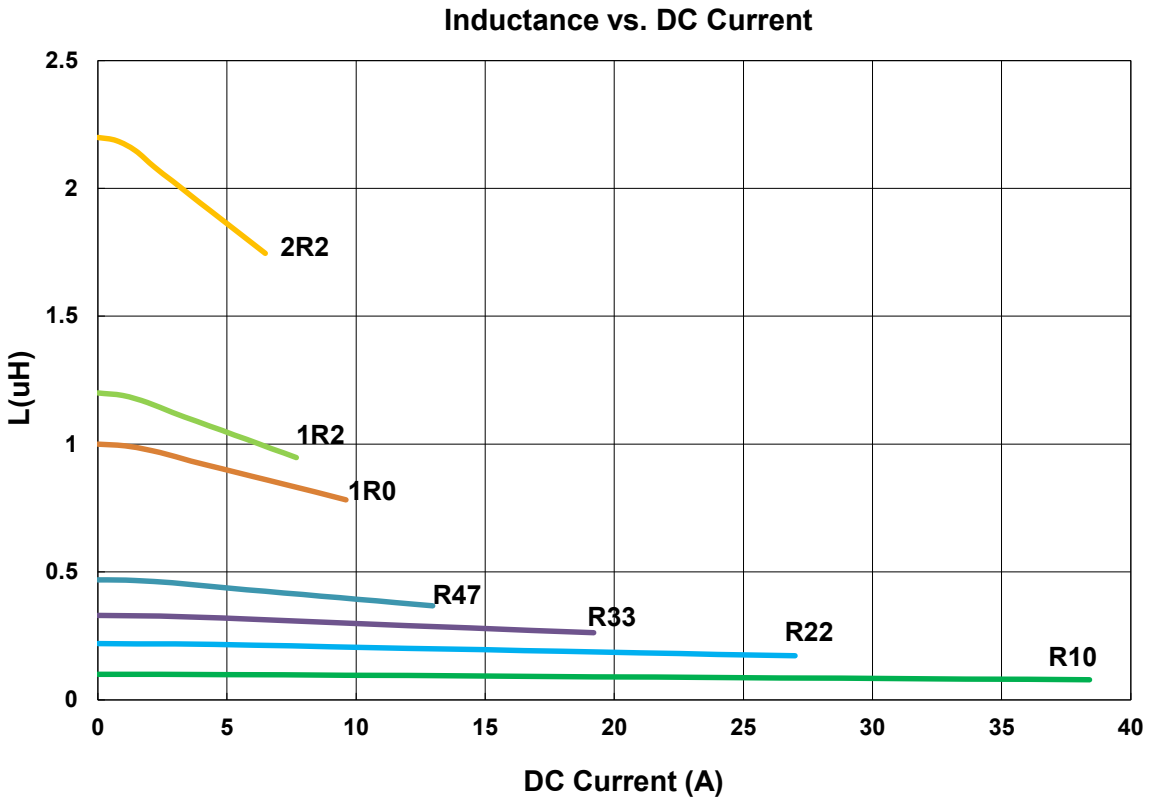
CHILISIN ELECTRONICS CORP.

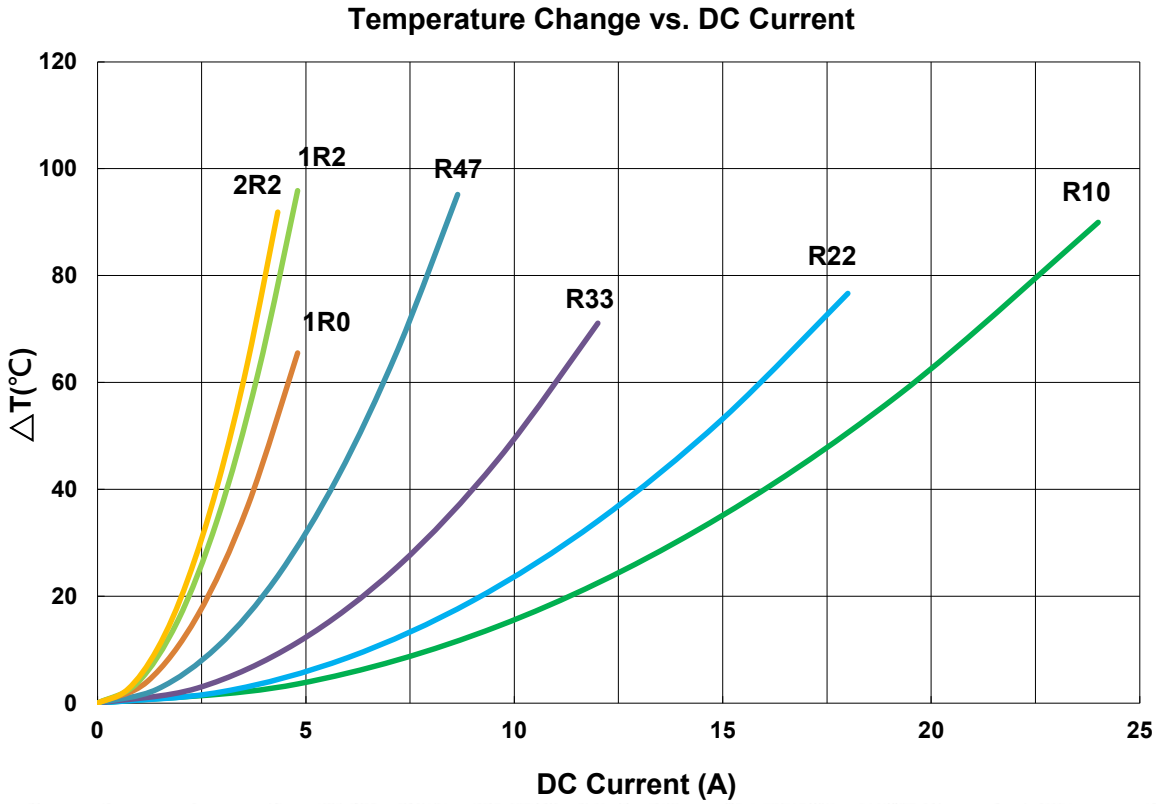
Power Inductor AMMA Series

Automotive
AEC-Q200

AMMA00040420 Type

■ Characteristics Graph





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Pulse a YAGEO company

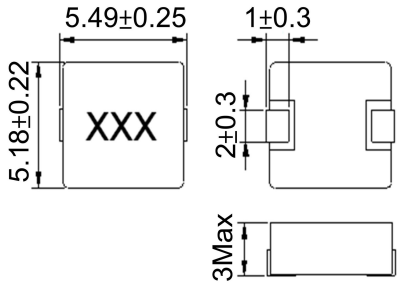
CHILISIN ELECTRONICS CORP.

Power Inductor AMMA Series

Automotive
AEC-Q200

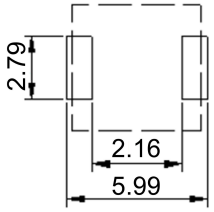
AMMA00050530 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMMA00050530R33MV1	0.33	100kHz/0.25V	5.56(5.3)	19	13.7	20	R33
AMMA00050530R47MV1	0.47	100kHz/0.25V	7.04(6.7)	16	12.2	20	R47
AMMA00050530R68MV1	0.68	100kHz/0.25V	8.96(8.53)	13.5	10.2	20	R68
AMMA000505301R0MV1	1.0	100kHz/0.25V	13.7(13.1)	12	9.2	20	1R0
AMMA000505301R5MV1	1.5	100kHz/0.25V	20.7(19.7)	11	7.2	20	1R5
AMMA000505302R2MV1	2.2	100kHz/0.25V	29.2(27.8)	10	5.8	20	2R2
AMMA000505303R3MV1	3.3	100kHz/0.25V	54.7(52.1)	8.5	5	20	3R3
AMMA000505304R7MV1	4.7	100kHz/0.25V	77.5(73.8)	8.2	3.5	20	4R7
AMMA00050530100MV1	10	100kHz/0.25V	158(152)	4	2.5	20	100
AMMA00050530150MV1	15	100kHz/0.25V	265(252)	2.5	1.9	20	150

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

1. Operating temperature range －55℃～125℃
2. Isat for Inductance drop 20% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Withstand voltage : 25VDC
5. Measure Equipment:
   L: Keysight 4285A or equivalent.
   RDC: ADEX AX1152D or equivalent.
   Isat: Keysight 4285A or equivalent.
   Irms: CHROMA 62050P-100-100

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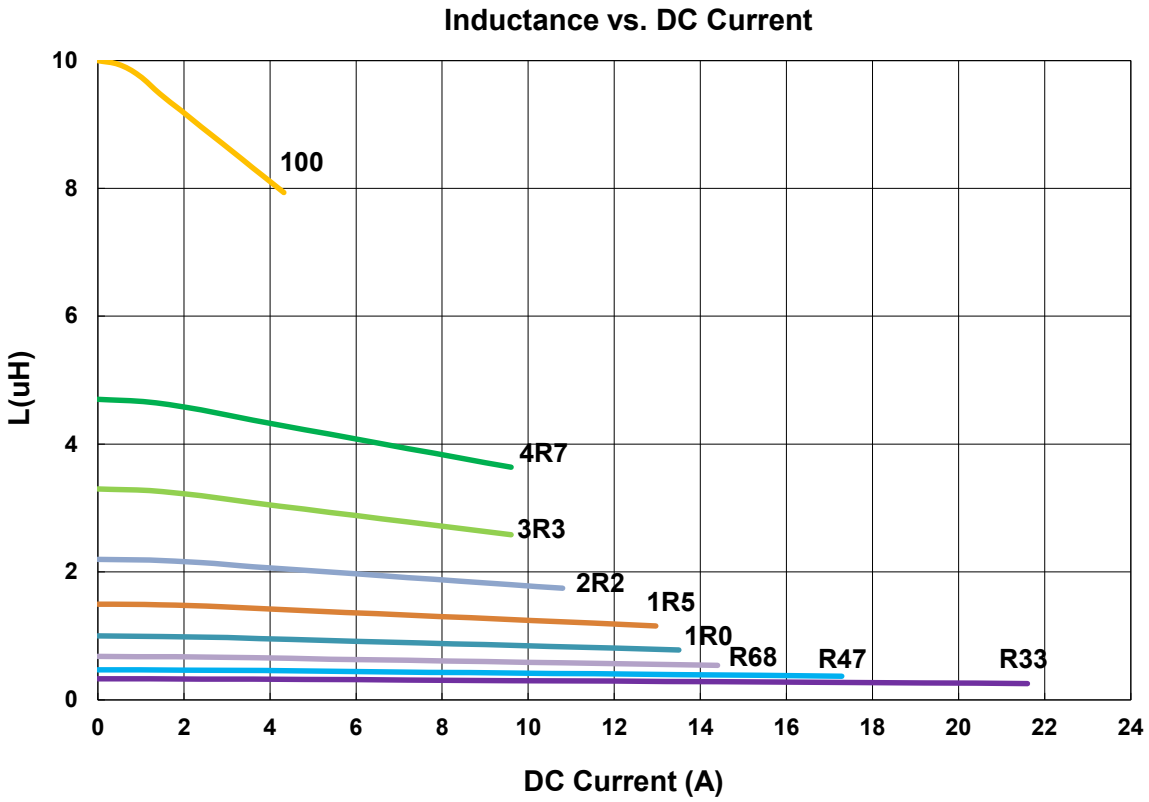
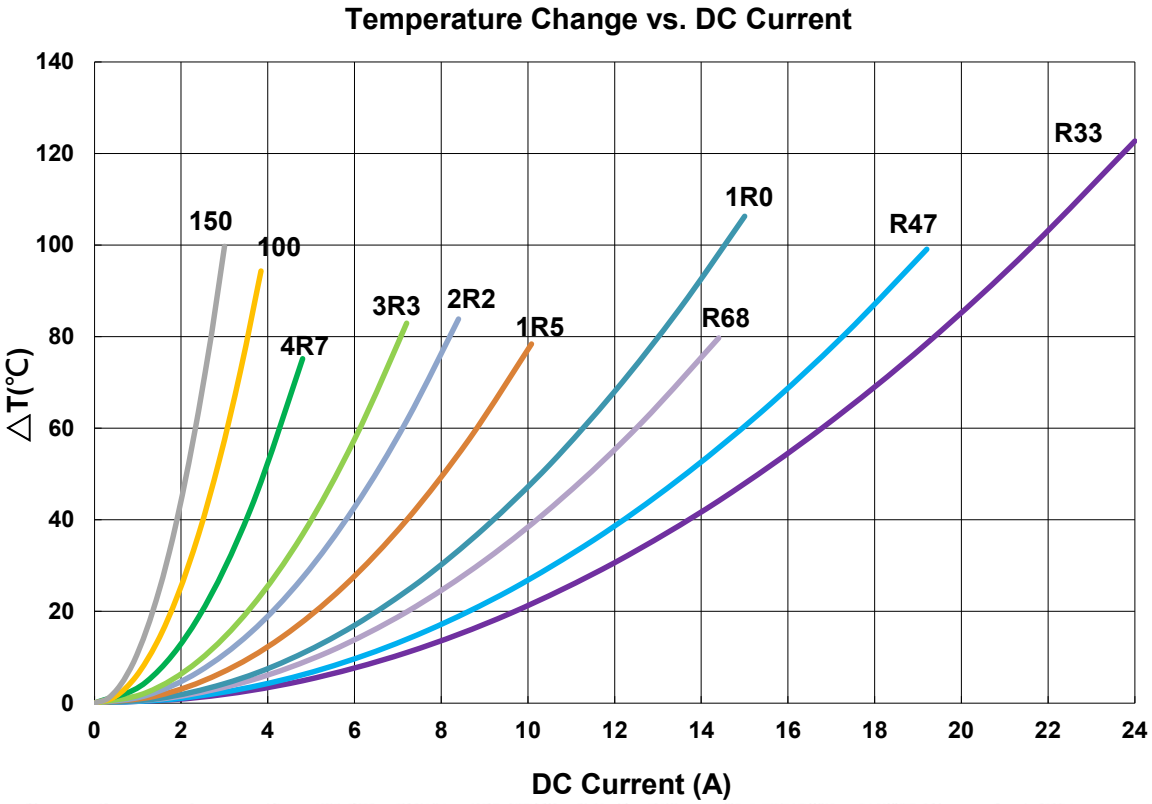
Power Inductor AMMA Series

Automotive
AEC-Q200

AMMA00050530 Type

■ Characteristics Graph





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Pulse a YAGEO company

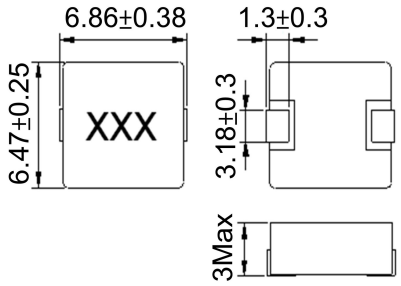
CHILISIN ELECTRONICS CORP.

Power Inductor AMMA Series

Automotive
AEC-Q200

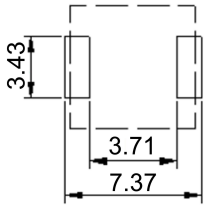
AMMA00060630 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMMA00060630R10MV1	0.10	100kHz/0.25V	1.7(1.5)	60	32.5	20	R10
AMMA00060630R15MV1	0.15	100kHz/0.25V	2.5(1.9)	52	26	20	R15
AMMA00060630R20MV1	0.20	100kHz/0.25V	3(2.4)	41	24	20	R20
AMMA00060630R22MV1	0.22	100kHz/0.25V	2.8(2.5)	40	23	20	R22
AMMA00060630R33MV1	0.33	100kHz/0.25V	3.9(3.5)	30	20	20	R33
AMMA00060630R47MV1	0.47	100kHz/0.25V	4.2(4)	26	17.5	20	R47
AMMA00060630R68MV1	0.68	100kHz/0.25V	5.5(5)	25	15.5	20	R68
AMMA00060630R82MV1	0.82	100kHz/0.25V	8(6.7)	24	13	20	R82
AMMA000606301R0MV1	1.0	100kHz/0.25V	10(9)	22	11	20	1R0
AMMA000606301R5MV1	1.5	100kHz/0.25V	15(14)	18	9	20	1R5
AMMA000606302R2MV1	2.2	100kHz/0.25V	20(18)	14	8	20	2R2
AMMA000606303R3MV1	3.3	100kHz/0.25V	30(28)	13.5	6	20	3R3
AMMA000606304R7MV1	4.7	100kHz/0.25V	40(37)	10	5.5	20	4R7
AMMA000606306R8MV1	6.8	100kHz/0.25V	60(54)	8	4.5	20	6R8
AMMA000606308R2MV1	8.2	100kHz/0.25V	68(64)	7.5	4	20	8R2
AMMA00060630100MV1	10	100kHz/0.25V	105(102)	7	3	20	100

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

1. Operating temperature range －55℃～125℃
2. Isat for Inductance drop 20% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Withstand voltage : 25VDC
5. Measure Equipment:
   L: Keysight 4285A or equivalent.
   RDC: ADEX AX1152D or equivalent.
   Isat: Keysight 4285A or equivalent.
   Irms: CHROMA 62050P-100-100

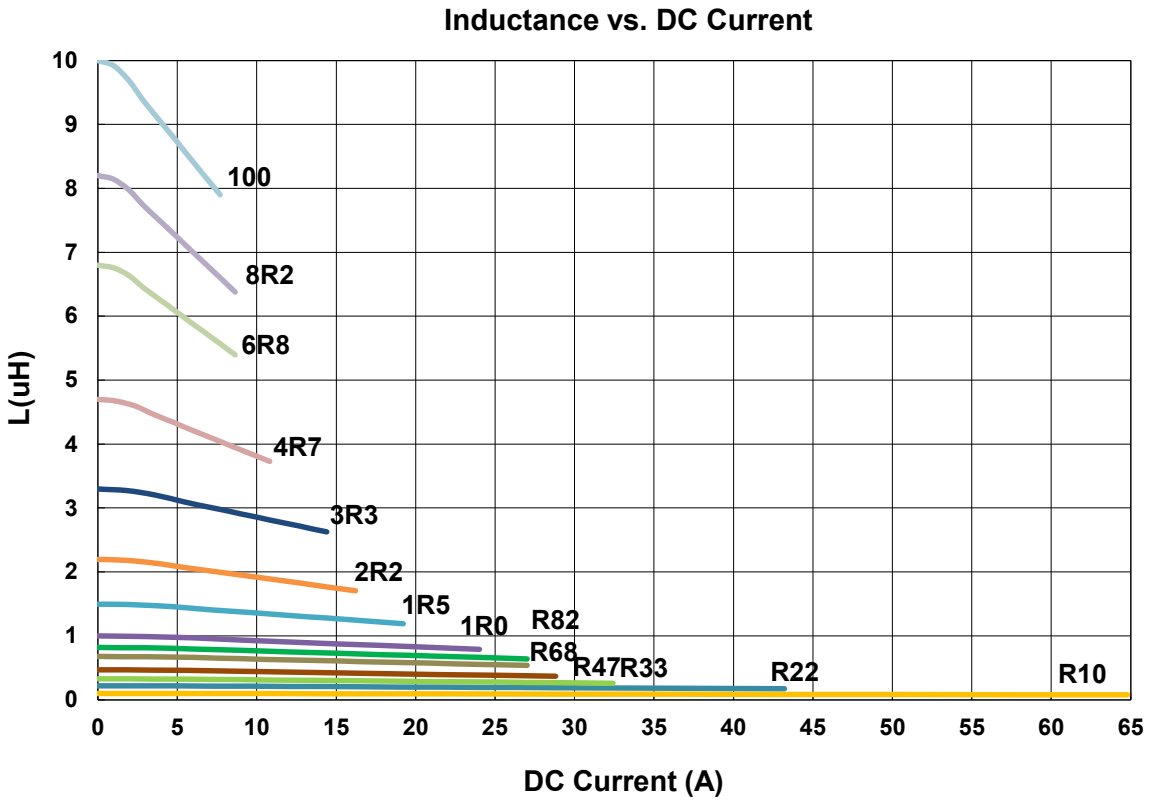
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

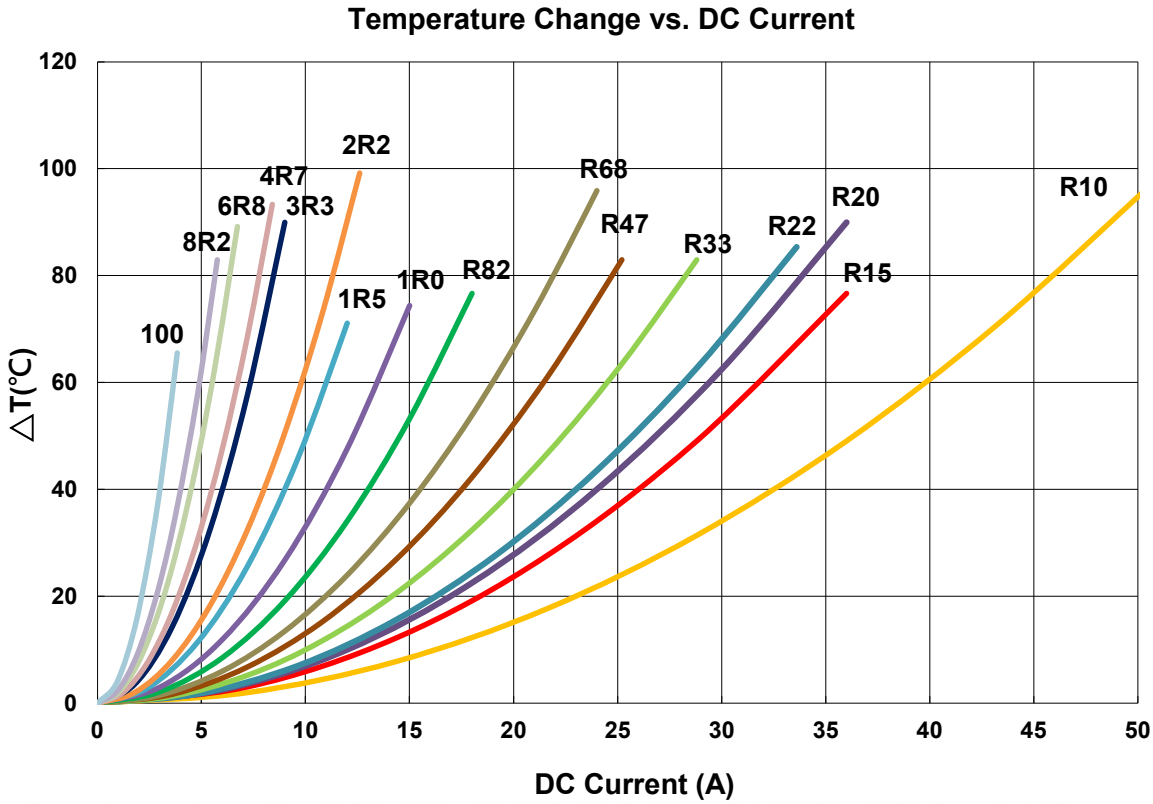
Power Inductor AMMA Series

Automotive
AEC-Q200

AMMA00060630 Type

■ Characteristics Graph





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Pulse a YAGEO company

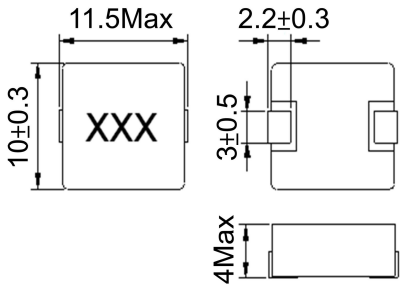
CHILISIN ELECTRONICS CORP.

Power Inductor AMMA Series

Automotive
AEC-Q200

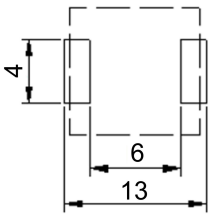
AMMA00101040 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMMA00101040R19MV1	0.19	100kHz/0.25V	0.95(0.87)	90	40	20	R19
AMMA00101040R36MV1	0.36	100kHz/0.25V	1.4(1.3)	60	31.5	20	R36
AMMA00101040R56MV1	0.56	100kHz/0.25V	1.8(1.7)	49	27.5	20	R56
AMMA001010401R0MV1	1.0	100kHz/0.25V	4.1(3.7)	36	17.5	20	1R0
AMMA001010401R5MV1	1.5	100kHz/0.25V	5.8(5.3)	27.5	15	20	1R5
AMMA001010402R2MV1	2.2	100kHz/0.25V	9(8.2)	25.6	12	20	2R2
AMMA001010403R3MV1	3.3	100kHz/0.25V	11.8(10.8)	18.6	10	20	3R3
AMMA001010404R7MV1	4.7	100kHz/0.25V	16.5(15)	17	9.5	20	4R7
AMMA001010405R6MV1	5.6	100kHz/0.25V	19.3(17.6)	16	8.5	20	5R6
AMMA001010406R8MV1	6.8	100kHz/0.25V	23.3(21.2)	13.5	8	20	6R8
AMMA00101040100MV1	10	100kHz/0.25V	36.5(33.2)	12	6.8	20	100

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

1. Operating temperature range －55℃～125℃
2. Isat for Inductance drop 20% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Withstand voltage : 25VDC
5. Measure Equipment:
   L: Keysight 4285A or equivalent.
   RDC: ADEX AX1152D or equivalent.
   Isat: Keysight 4285A or equivalent.
   Irms: CHROMA 62050P-100-100

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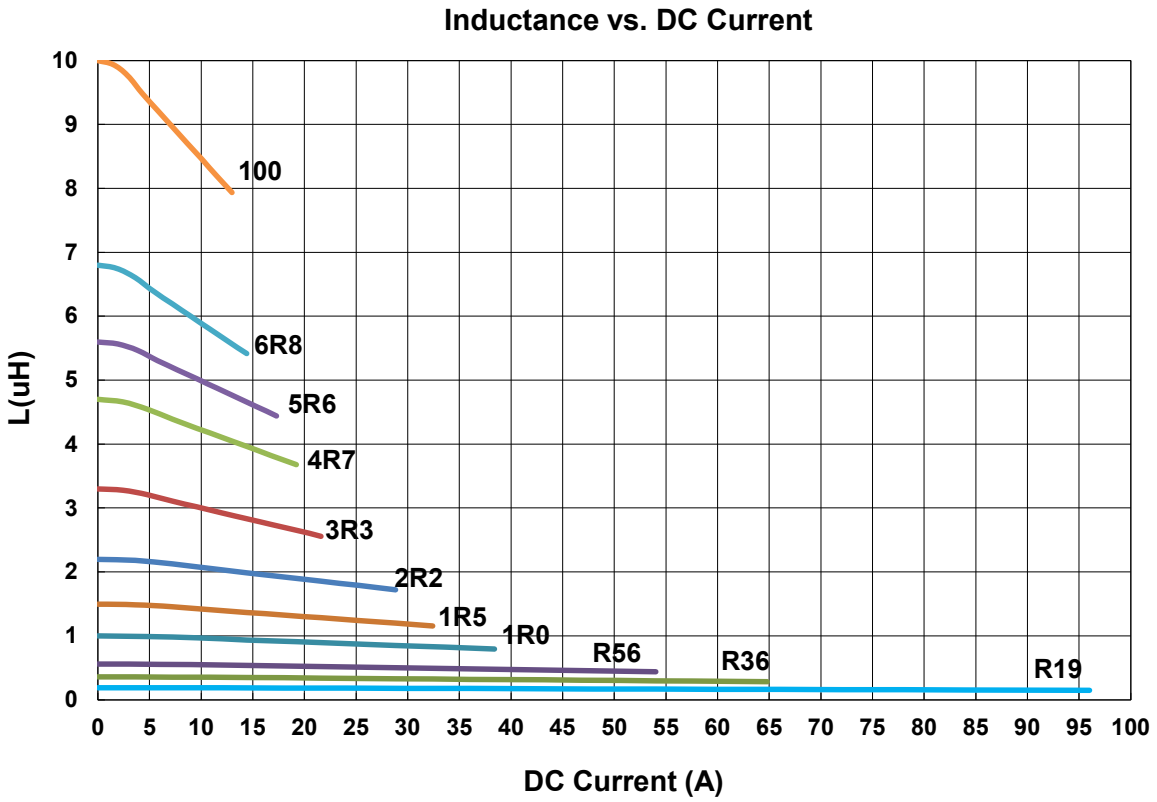
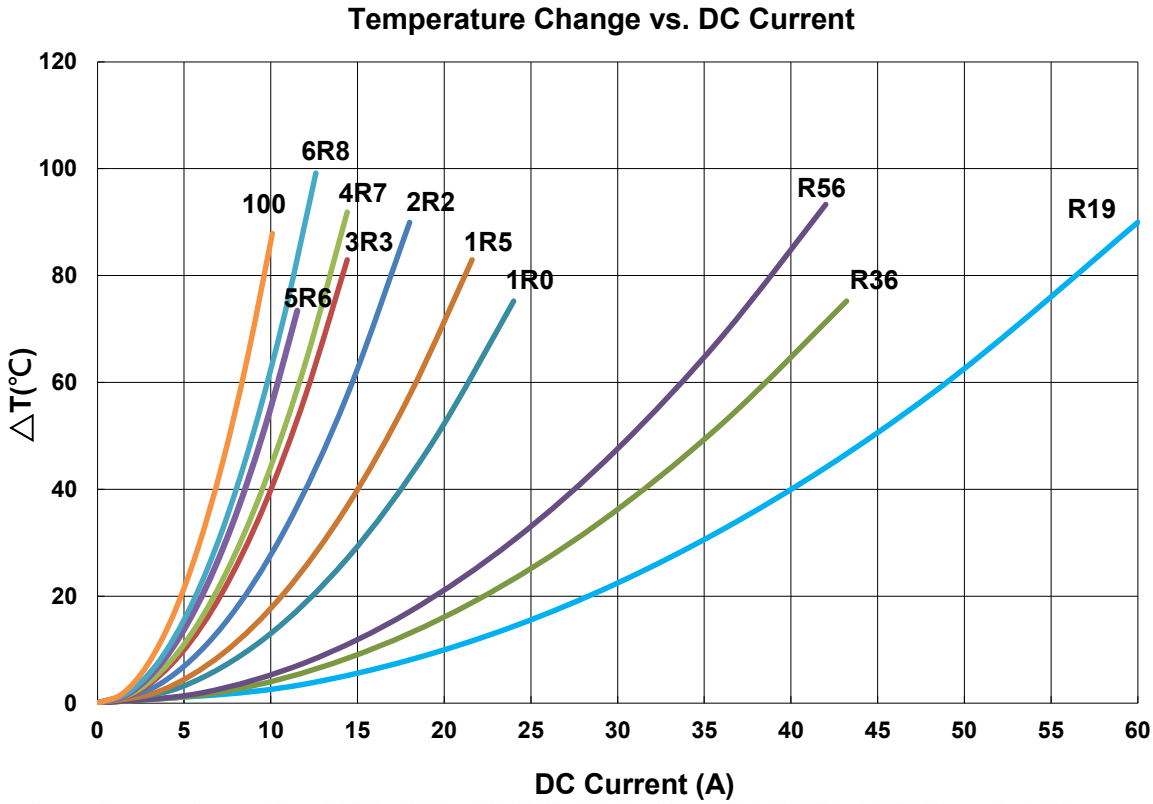
Power Inductor AMMA Series

Automotive
AEC-Q200

AMMA00101040 Type

■ Characteristics Graph





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Pulse a YAGEO company

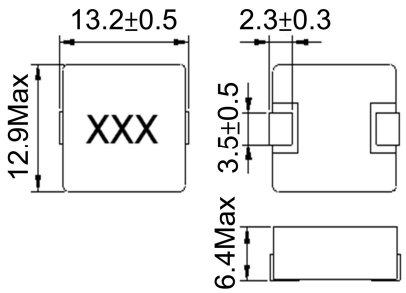
CHILISIN ELECTRONICS CORP.

Power Inductor AMMA Series

Automotive
AEC-Q200

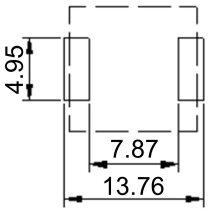
AMMA00131364 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMMA00131364R15MV1	0.15	100kHz/0.25V	0.6(0.53)	118	55	20	R15
AMMA00131364R22MV1	0.22	100kHz/0.25V	0.7(0.63)	112	53	20	R22
AMMA00131364R33MV1	0.33	100kHz/0.25V	0.9(0.83)	65	46	20	R33
AMMA00131364R47MV1	0.47	100kHz/0.25V	1.2(1.0)	63	41	20	R47
AMMA00131364R56MV1	0.56	100kHz/0.25V	1.4(1.2)	62	37	20	R56
AMMA00131364R68MV1	0.68	100kHz/0.25V	1.6(1.4)	60	35	20	R68
AMMA00131364R82MV1	0.82	100kHz/0.25V	1.9(1.6)	50	33	20	R82
AMMA001313641R0MV1	1.0	100kHz/0.25V	2.0(1.7)	49	32	20	1R0
AMMA001313641R5MV1	1.5	100kHz/0.25V	3.0(2.5)	45	27	20	1R5
AMMA001313641R8MV1	1.8	100kHz/0.25V	3.2(2.8)	41	24	20	1R8
AMMA001313642R2MV1	2.2	100kHz/0.25V	4.2(3.5)	40	22	20	2R2
AMMA001313643R3MV1	3.3	100kHz/0.25V	6.8(5.7)	35	18	20	3R3
AMMA001313644R7MV1	4.7	100kHz/0.25V	11.2(9.3)	30	13.5	20	4R7
AMMA001313646R8MV1	6.8	100kHz/0.25V	14(13.1)	16.5	11.5	20	6R8
AMMA001313648R2MV1	8.2	100kHz/0.25V	15.5(14.5)	16	10.5	20	8R2
AMMA00131364100MV1	10	100kHz/0.25V	17.2(16.4)	15.5	10	20	100

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

1. Operating temperature range －55℃～125℃
2. Isat for Inductance drop 20% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Withstand voltage : 25VDC
5. Measure Equipment:
   L: Keysight 4285A or equivalent.
   RDC: ADEX AX1152D or equivalent.
   Isat: Keysight 4285A or equivalent.
   Irms: CHROMA 62050P-100-100

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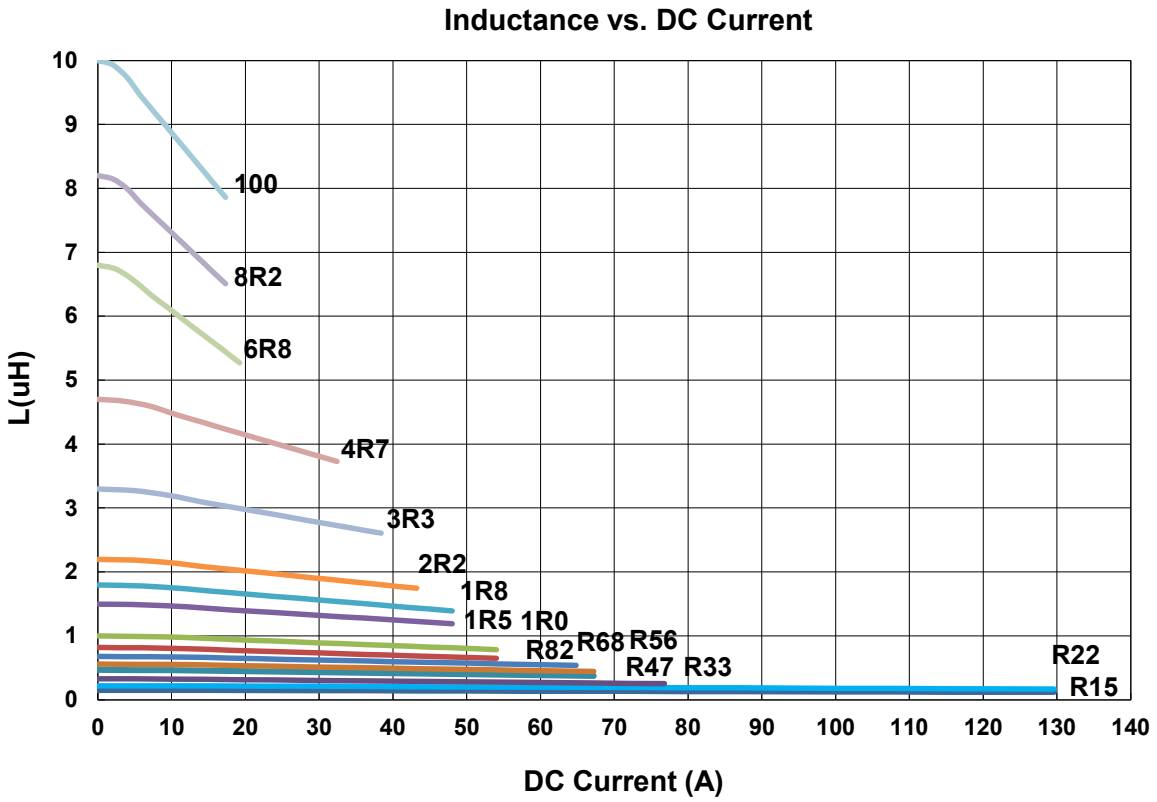
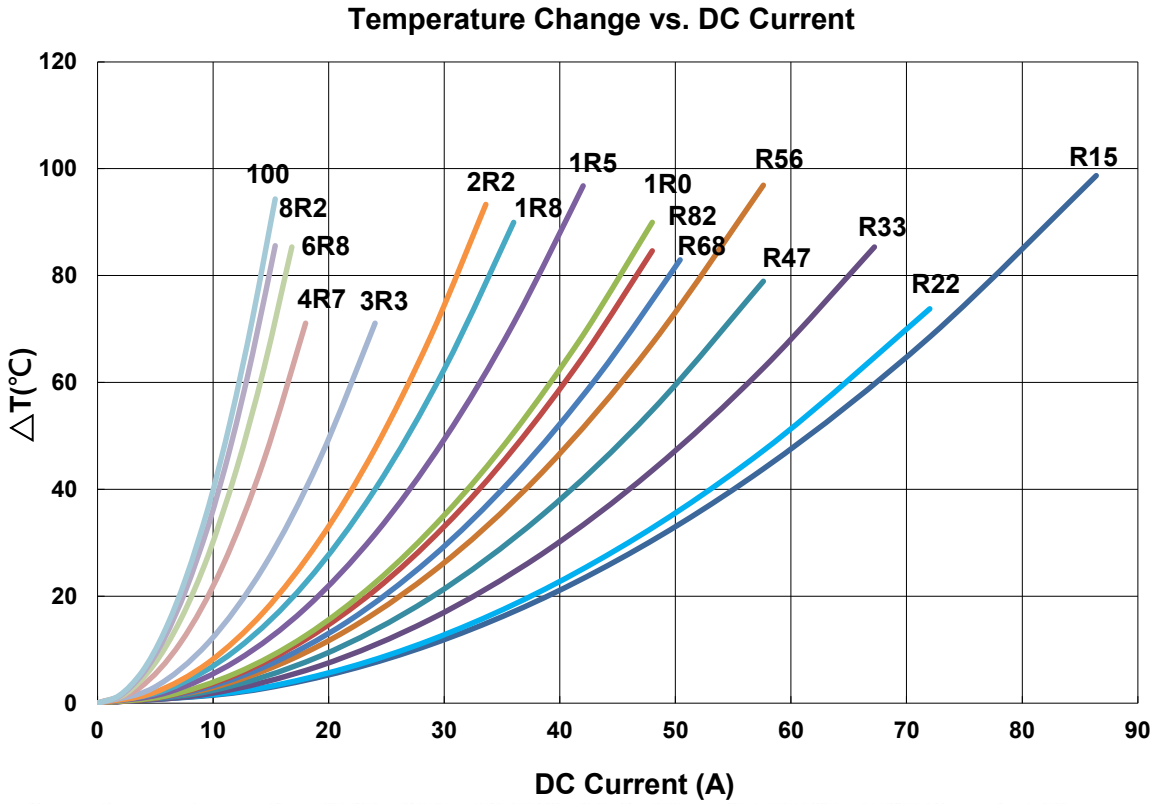
Power Inductor AMMA Series

Automotive
AEC-Q200

AMMA00131364 Type

■ Characteristics Graph





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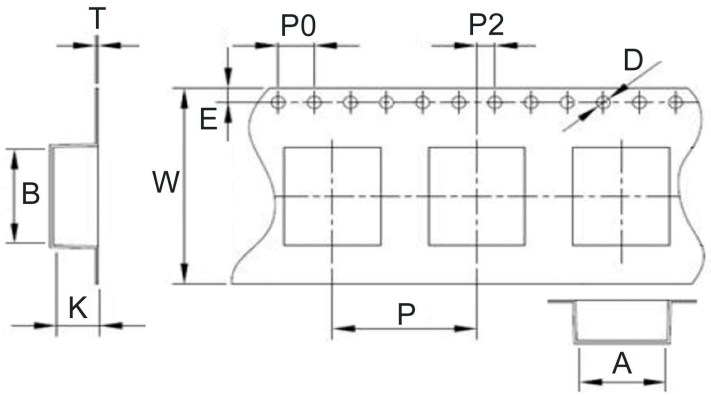
Power Inductor AMMA Series

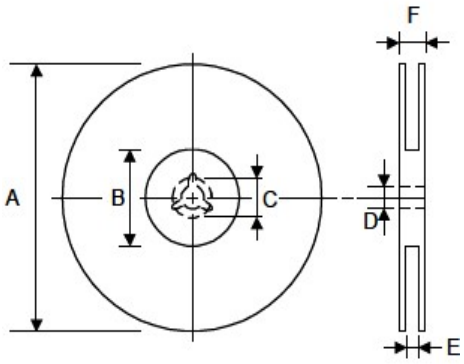
Automotive
AEC-Q200

■ Packaging

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
AMMA00040420	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
AMMA00050530	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
AMMA00060630	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
AMMA00101040	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
AMMA00131364	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

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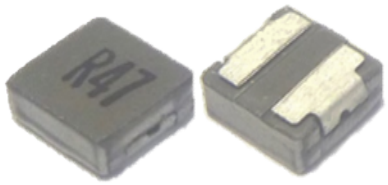
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Power Inductor AMNx Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant



Power Circuit | Shield | Wire Wound | Metal | Ultra High Current

Part Numbering

A	MNx	00	040421	R22	M	XB
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
	MNI		040421 4.0x4.0x2.1	R22 0.22	M ±20%	
	MNN		040431 4.0x4.0x3.1	R40 0.4		
			050531 5.6x5.5x3.1			
			060631 6.36x6.56x3.1			
			060661 6.36x6.56x6.1			
			070720 7.2x7.5x2.0			
			070731 7.2x7.5x3.1			
			070770 7.2x7.5x7.0			

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Pulse a YAGEO company

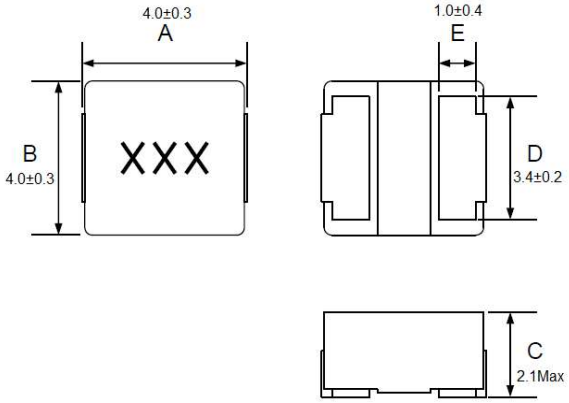
CHILISIN ELECTRONICS CORP.

Power Inductor AMNx Series

Automotive
AEC-Q200

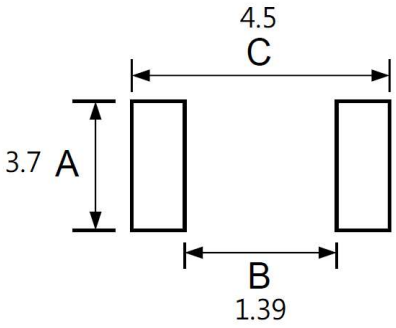
AMNI00040421 Type

■ Shapes and Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMNI00040421R22MXB	0.22	100kHz/0.25V	6.4	18.7	16.8	20	R22
AMNI00040421R40MXB	0.4	100kHz/0.25V	8.3	12.5	14	20	R40
AMNI00040421R60MXB	0.6	100kHz/0.25V	10.45	10.4	11.7	20	R60
AMNI000404211R0MXB	1	100kHz/0.25V	14.6	8.7	9.6	20	1R0
AMNI000404211R5MXB	1.5	100kHz/0.25V	23.6	7.1	7.5	20	1R5
AMNI000404212R2MXB	2.2	100kHz/0.25V	38.7	5.6	5.5	20	2R2

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

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

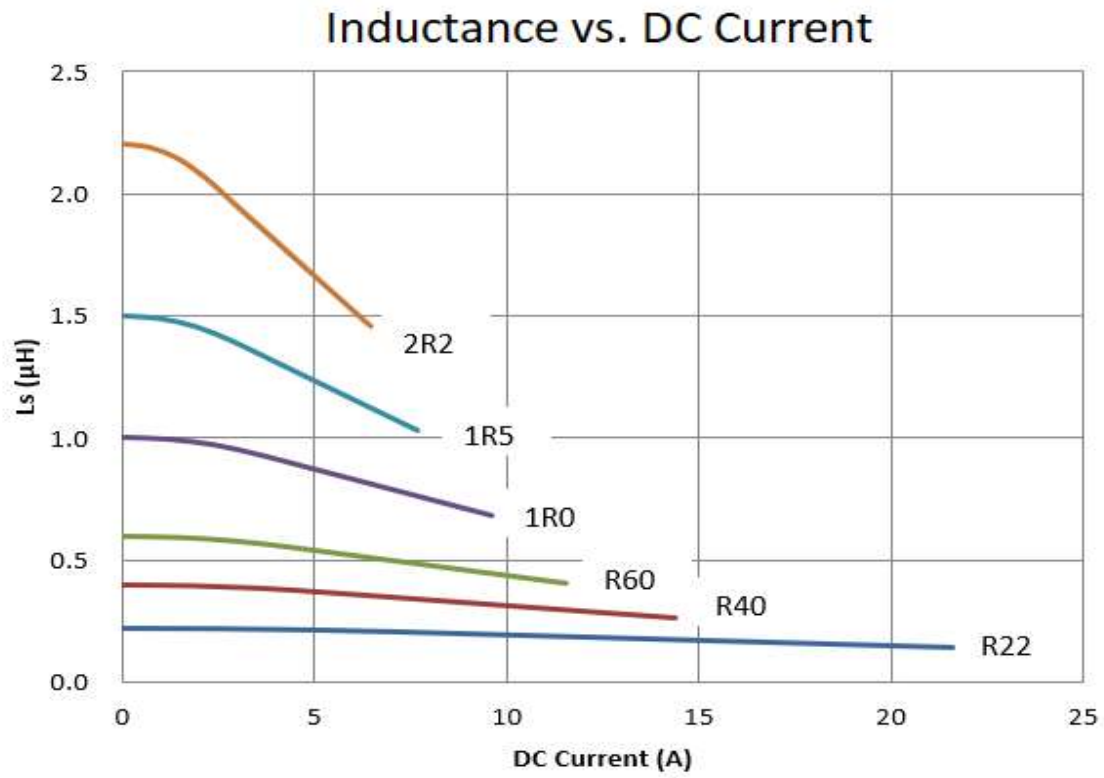
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

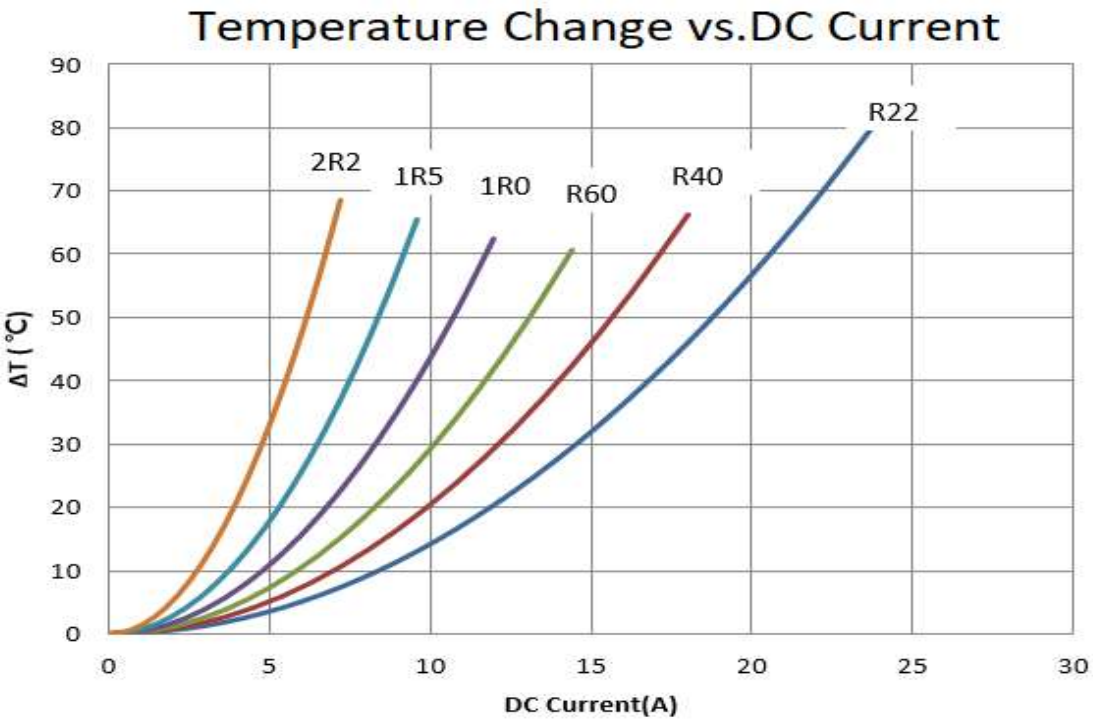
Power Inductor AMNx Series

Automotive
AEC-Q200

AMNI00040421 Type

■ Characteristics Graph





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Pulse a YAGEO company

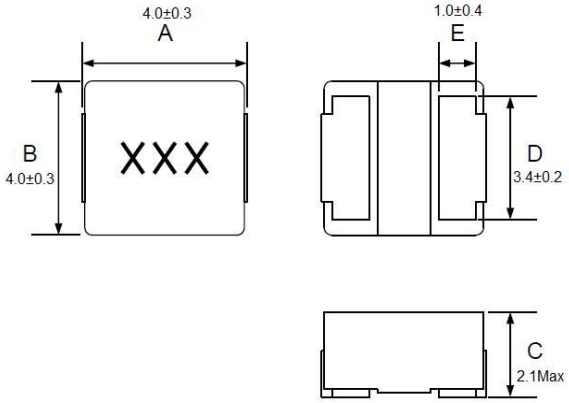
CHILISIN ELECTRONICS CORP.

Power Inductor AMNx Series

Automotive
AEC-Q200

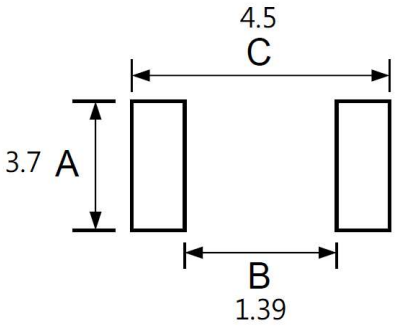
AMNN00040421 Type

■ Shapes and Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMNN000404211R0MXG	1	100kHz/0.25V	11.9	5.4	11	20	1R0
AMNN000404211R5MXG	1.5	100kHz/0.25V	15.8	4.6	9.1	20	1R5
AMNN000404212R2MXG	2.2	100kHz/0.25V	23.5	3.7	8	20	2R2
AMNN000404213R3MXG	3.3	100kHz/0.25V	38.3	2.9	5.2	20	3R3
AMNN000404214R7MXG	4.7	100kHz/0.25V	57.4	2.7	5	20	4R7

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

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

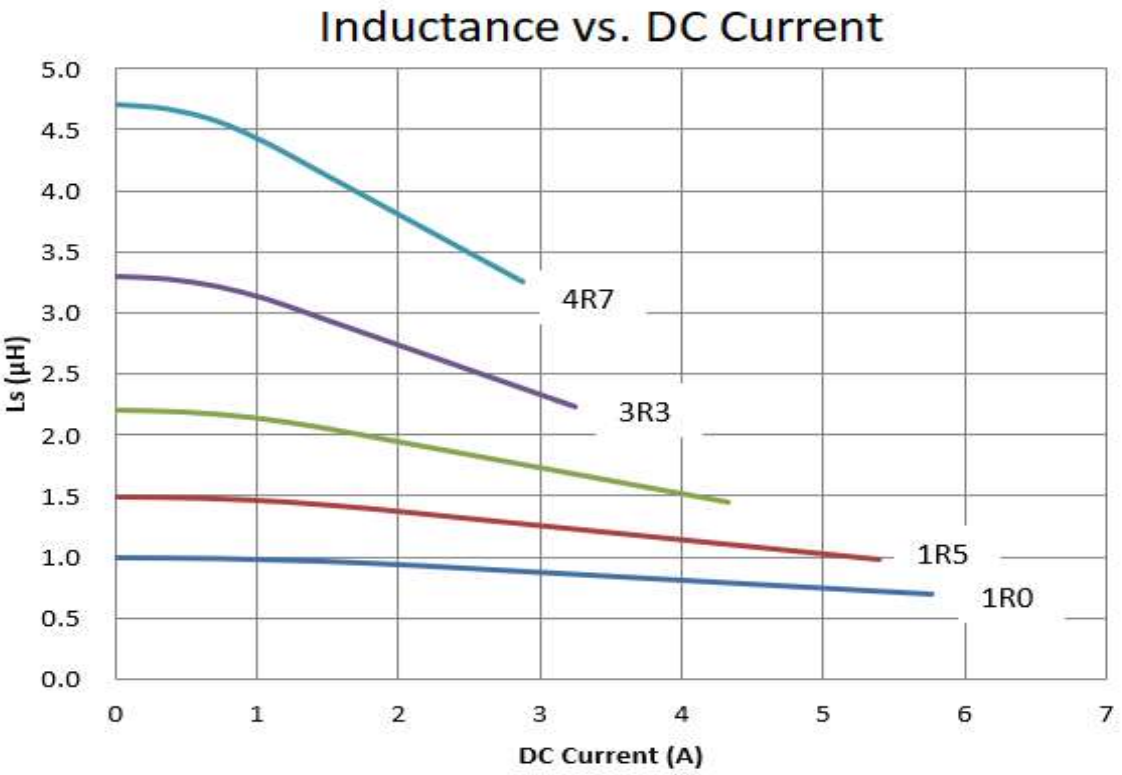
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

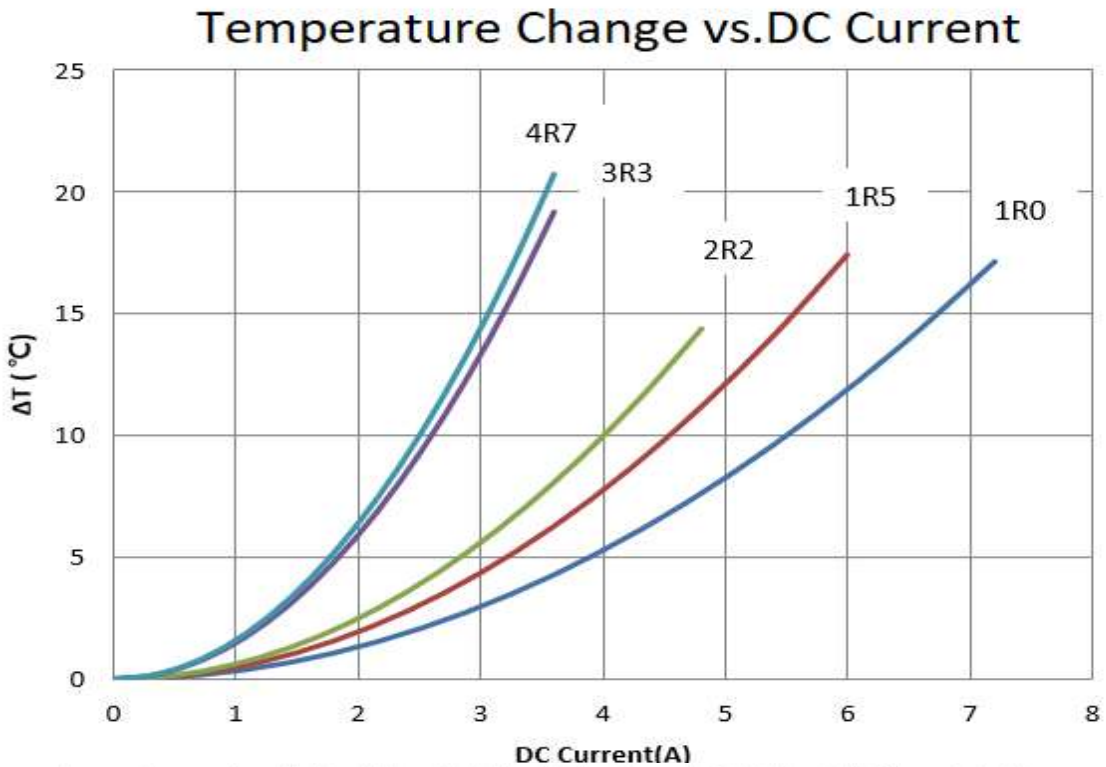
Power Inductor AMNx Series

Automotive
AEC-Q200

AMNN00040421 Type

■ Characteristics Graph





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Pulse a YAGEO company

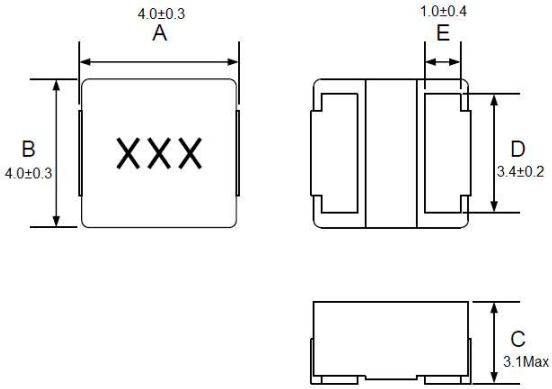
CHILISIN ELECTRONICS CORP.

Power Inductor AMNx Series

Automotive
AEC-Q200

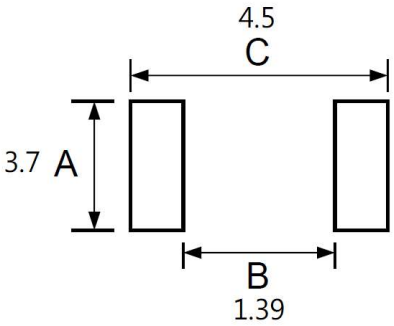
AMNI00040431 Type

■ Shapes and Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMNI000404313R3MXB	3.3	100kHz/0.25V	29	5.5	6.6	20	3R3
AMNI000404314R7MXB	4.7	100kHz/0.25V	44	4.5	5.1	20	4R7
AMNI000404316R8MXB	6.8	100kHz/0.25V	74	3.6	3.9	20	6R8

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

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

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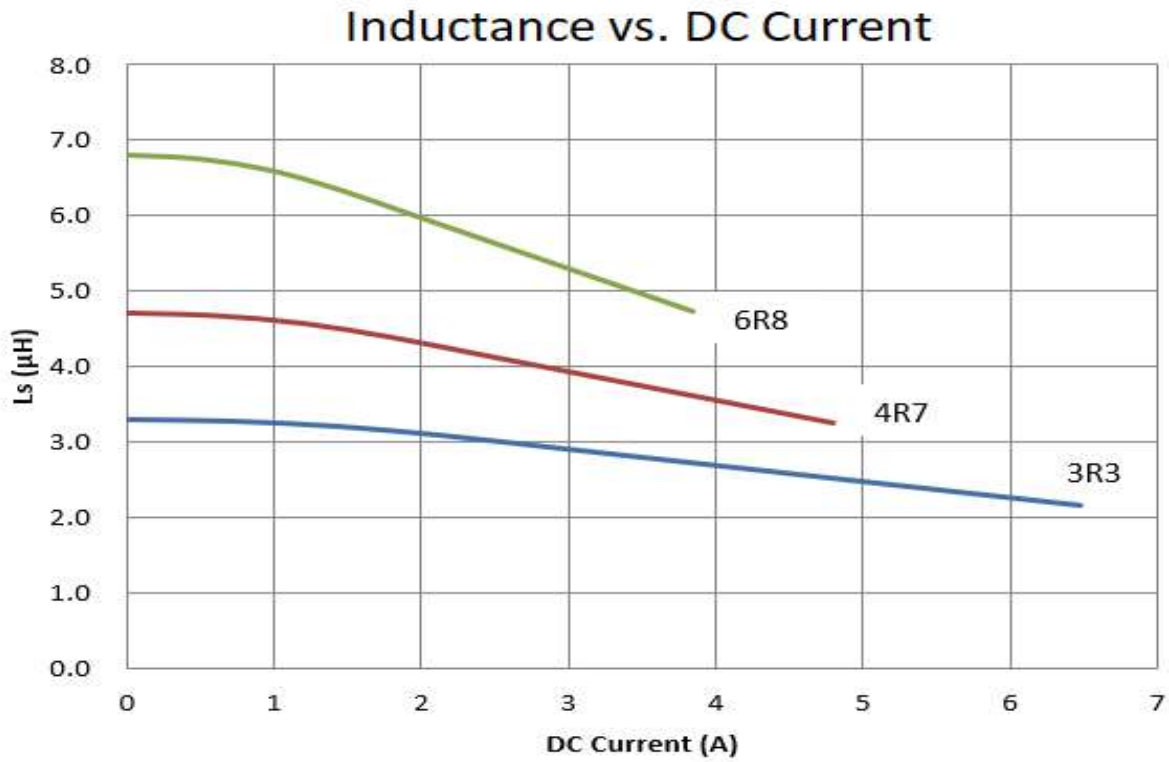
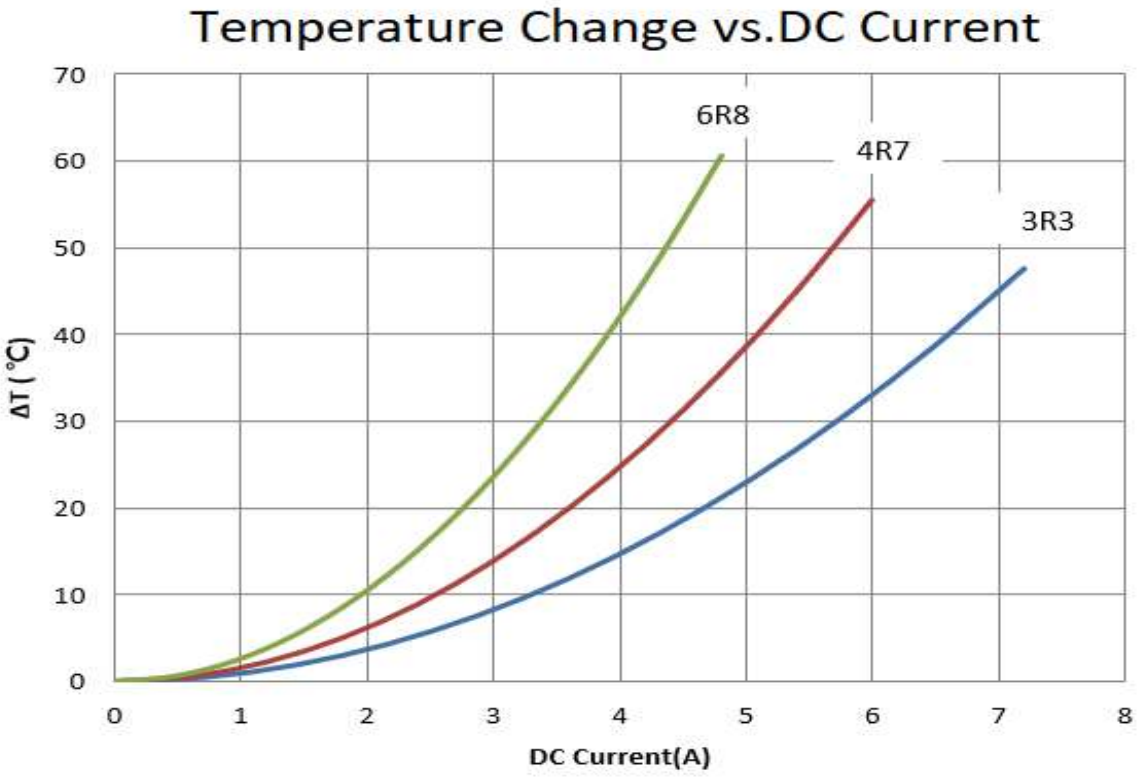
Power Inductor AMNx Series

Automotive
AEC-Q200

AMNI00040431 Type

■ Characteristics Graph





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Pulse a YAGEO company

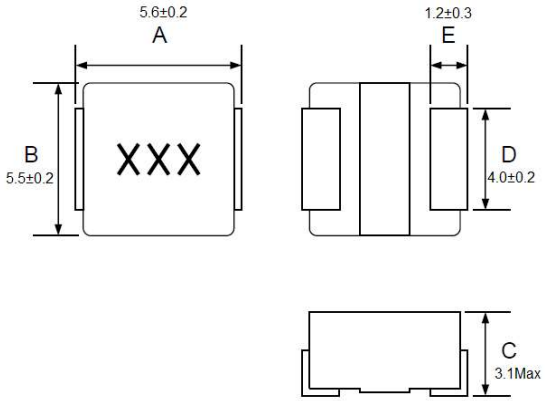
CHILISIN ELECTRONICS CORP.

Power Inductor AMNx Series

Automotive
AEC-Q200

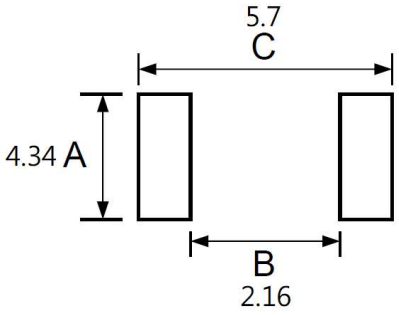
AMNI00050531 Type

■ Shapes and Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMNI00050531R16MXB	0.16	100kHz/0.5V	2.36	31	22.2	20	R16
AMNI00050531R33MXB	0.33	100kHz/0.5V	3.52	26	19.2	20	R33
AMNI00050531R60MXB	0.6	100kHz/0.5V	4.52	19.8	17.7	20	R60
AMNI00050531R80MXB	0.8	100kHz/0.5V	5.65	18.5	13	20	R80
AMNI000505311R0MXB	1	100kHz/0.5V	9.4	14	11.1	20	1R0
AMNI000505312R2MXB	2.2	100kHz/0.5V	14.5	9.2	9.7	20	2R2
AMNI000505313R3MXB	3.3	100kHz/0.5V	23.3	8.7	8.1	20	3R3
AMNI000505314R7MXB	4.7	100kHz/0.5V	40	6.7	5.9	20	4R7

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

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

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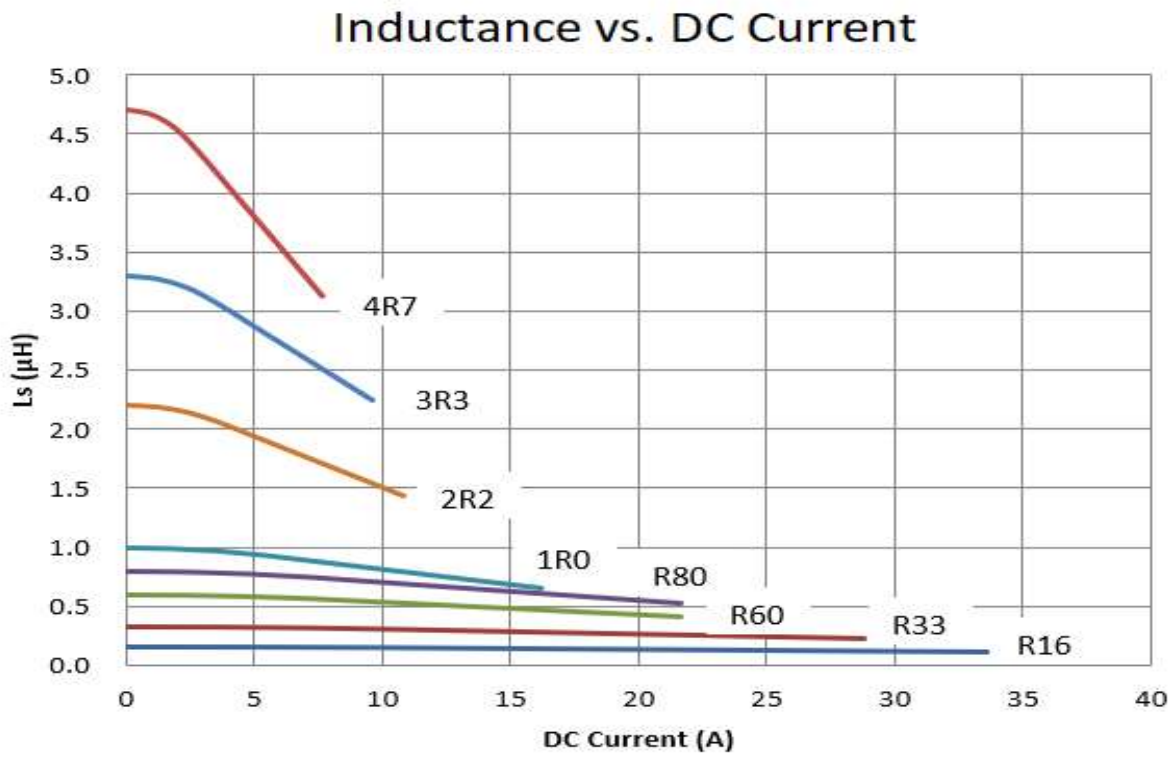
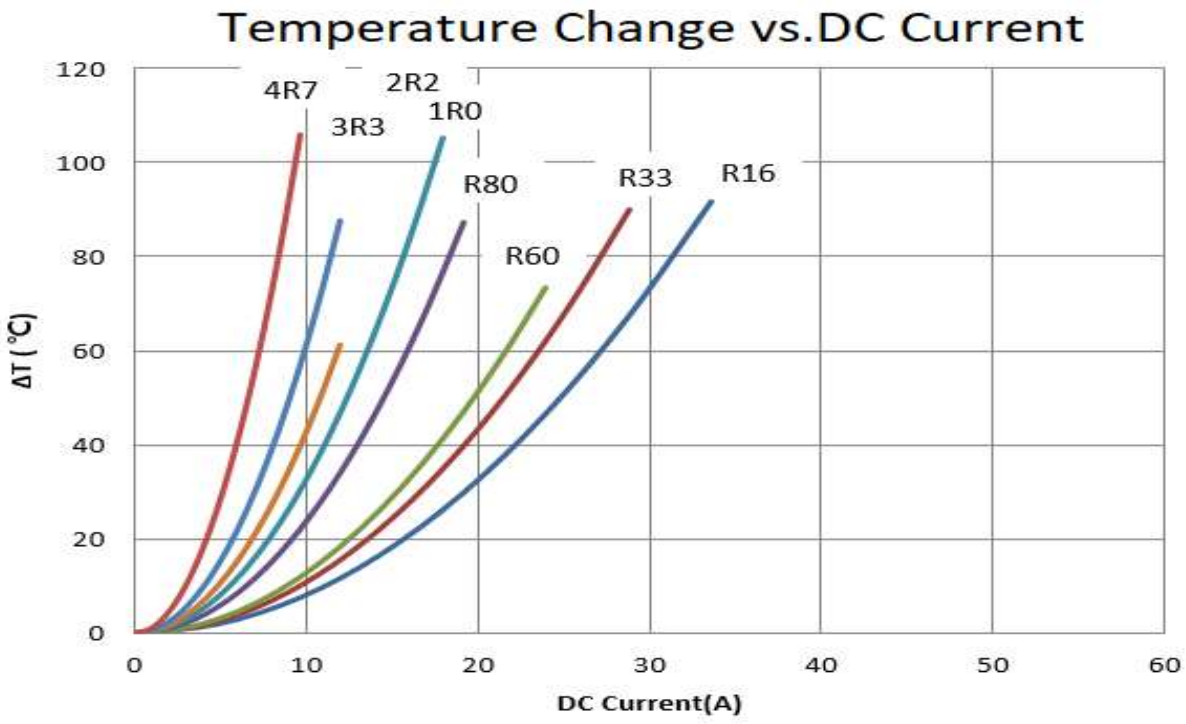
Power Inductor AMNx Series

Automotive
AEC-Q200

AMNI00050531 Type

■ Characteristics Graph





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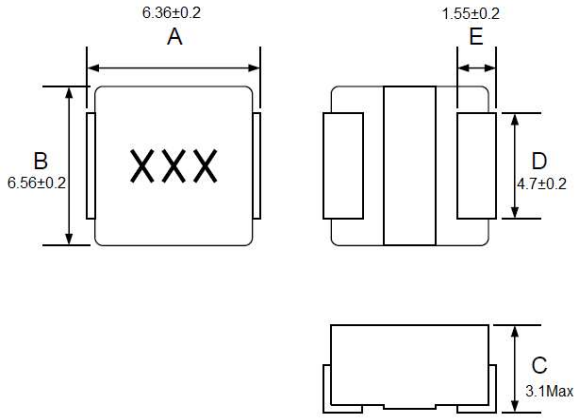
CHILISIN ELECTRONICS CORP.

Power Inductor AMNx Series

Automotive
AEC-Q200

AMNI00060631 Type

■ Shapes and Dimensions



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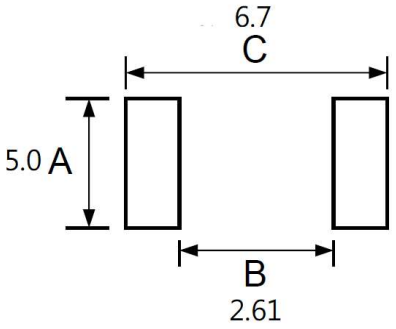
■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMNI00060631R18MXB	0.18	100kHz/0.25V	1.75	39	32	20	R18
AMNI00060631R33MXB	0.33	100kHz/0.25V	2.53	30	25	20	R33
AMNI00060631R56MXB	0.56	100kHz/0.25V	3.31	29	22	20	R56
AMNI000606311R0MXB	1.0	100kHz/0.25V	6.18	23	18	20	1R0
AMNI000606311R2MXB	1.2	100kHz/0.25V	7.5	22	16	20	1R2
AMNI000606311R8MXB	1.8	100kHz/0.25V	10.52	18.2	14	20	1R8
AMNI000606312R2MXB	2.2	100kHz/0.25V	13.97	15.9	10	20	2R2
AMNI000606313R3MXB	3.3	100kHz/0.25V	20.81	12.2	8	20	3R3

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

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

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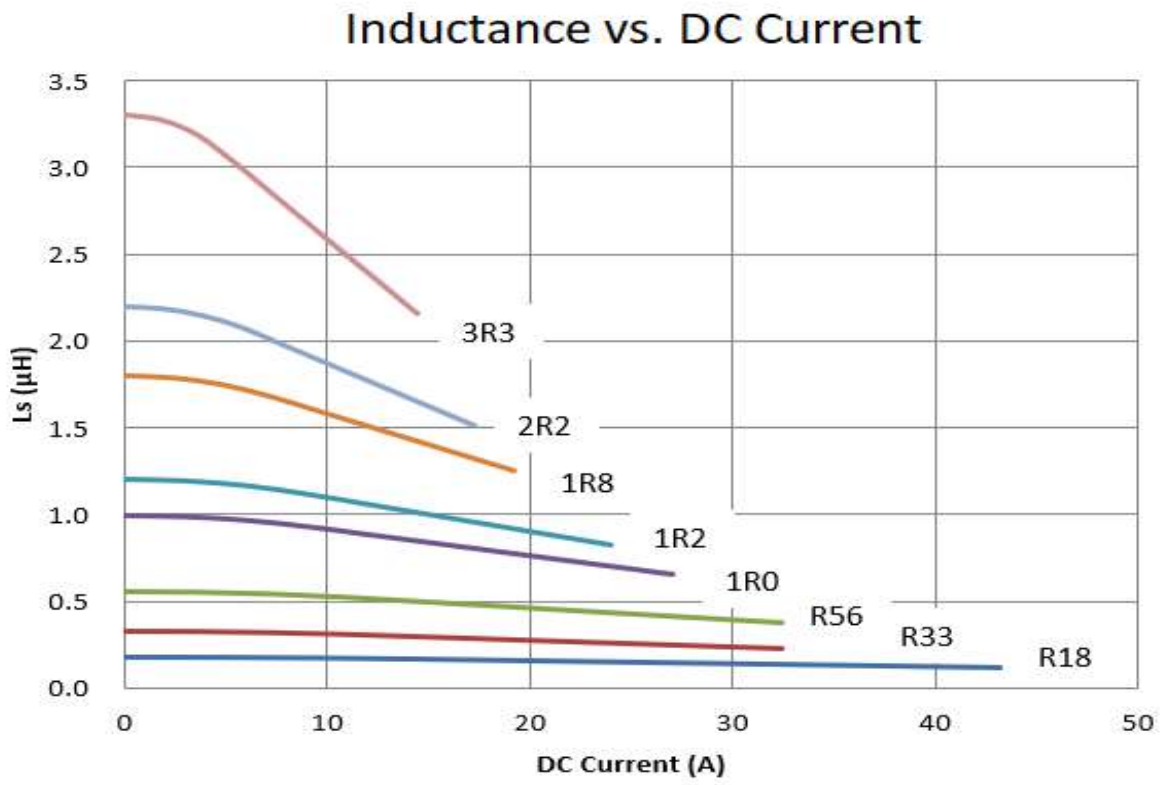
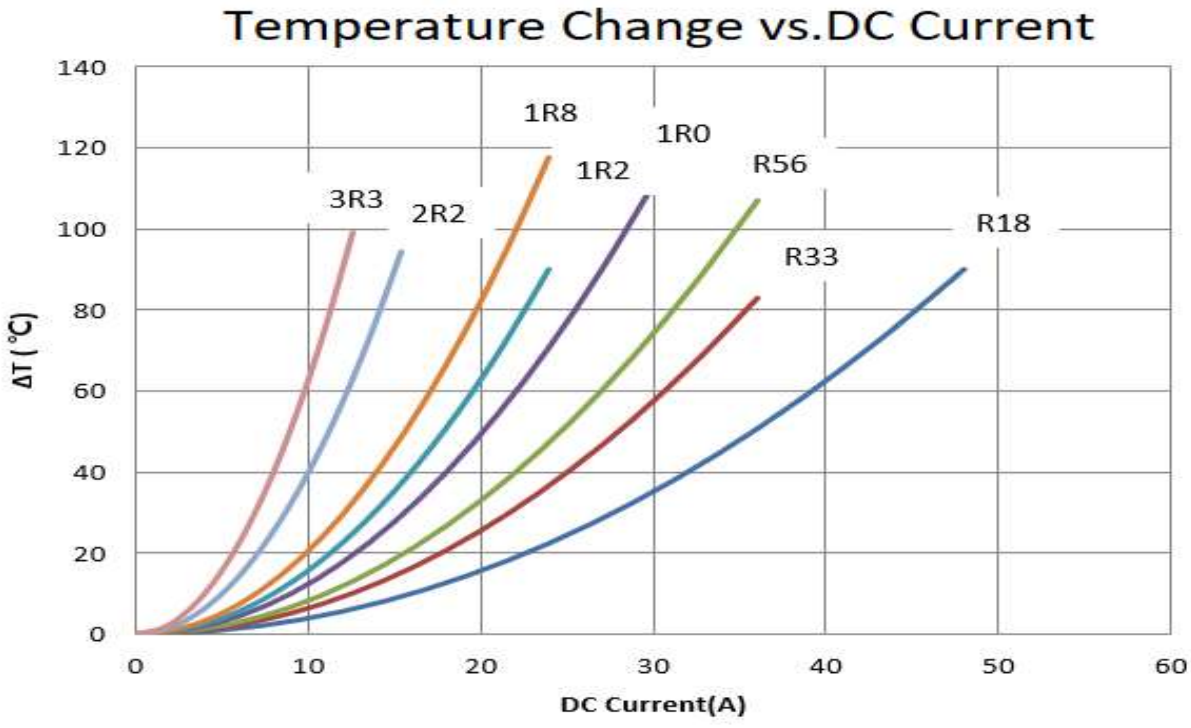
Power Inductor AMNx Series

Automotive
AEC-Q200

AMNI00060631 Type

■ Characteristics Graph





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Pulse a YAGEO company

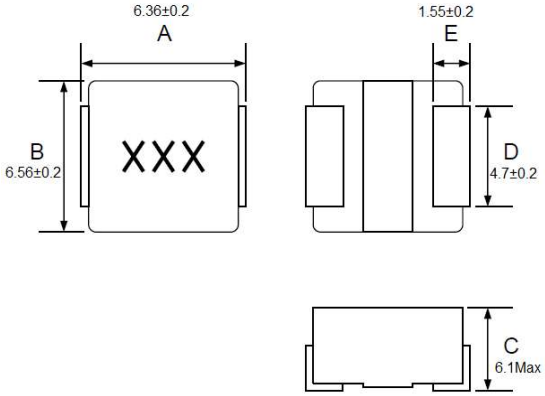
CHILISIN ELECTRONICS CORP.

Power Inductor AMNx Series

Automotive
AEC-Q200

AMNI00060661 Type

■ Shapes and Dimensions



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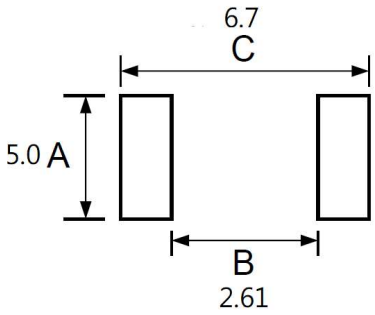
■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMNI000606614R7MXB	4.7	100kHz/0.25V	14.4	10.5	11	20	4R7
AMNI000606615R6MXB	5.6	100kHz/0.25V	15.9	9.9	10	20	5R6
AMNI000606616R8MXB	6.8	100kHz/0.25V	20.8	9.2	9	20	6R8
AMNI000606618R2MXB	8.2	100kHz/0.25V	26.4	8.4	8	20	8R2
AMNI00060661100MXB	10	100kHz/0.25V	29.82	7.6	7	20	100
AMNI00060661150MXB	15	100kHz/0.25V	43.75	5.8	6	20	150
AMNI00060661220MXB	22	100kHz/0.25V	60.63	5.6	5	20	220

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

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

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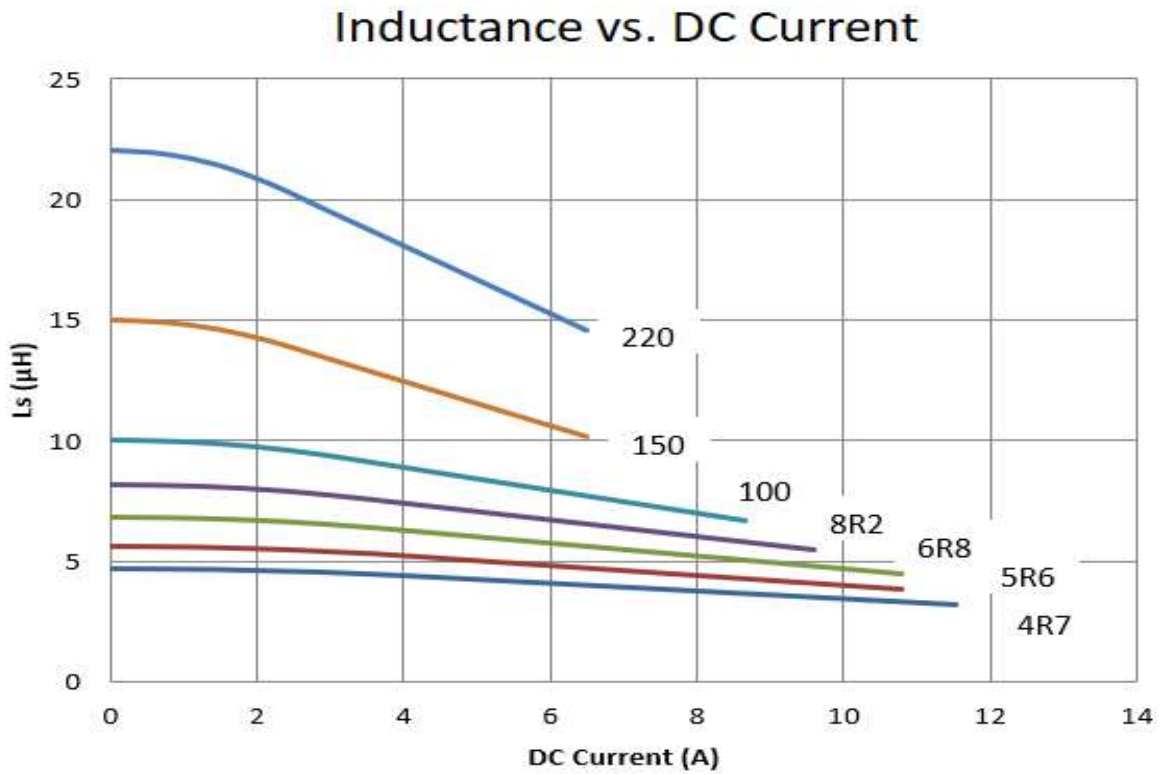
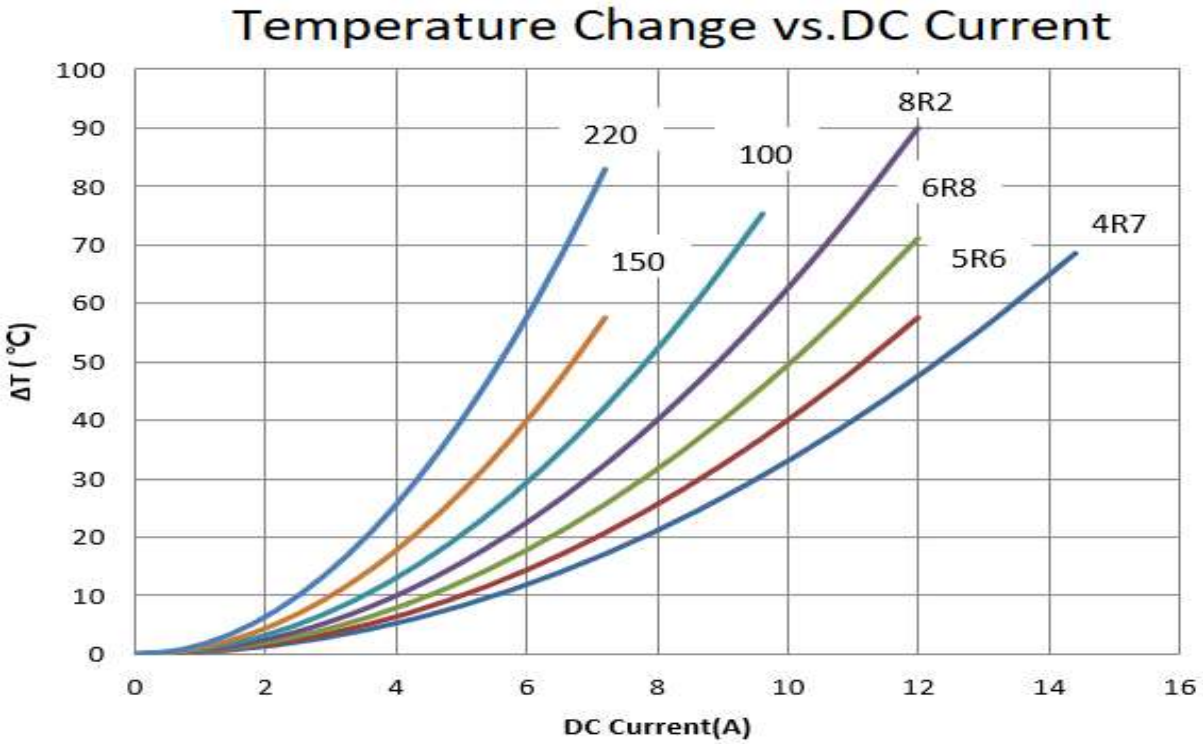
Power Inductor AMNx Series

Automotive
AEC-Q200

AMNI00060661 Type

■ Characteristics Graph





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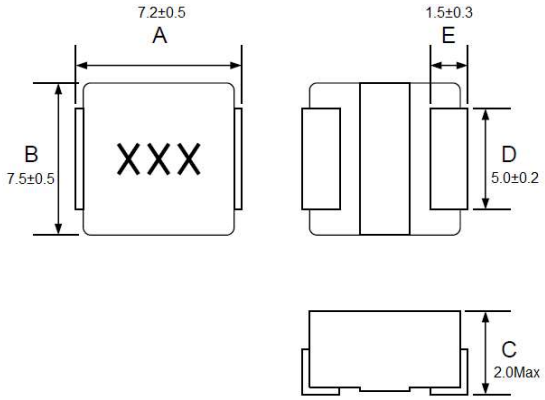
CHILISIN ELECTRONICS CORP.

Power Inductor AMNx Series

Automotive
AEC-Q200

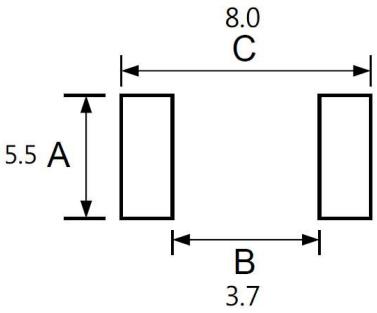
AMNI00070720 Type

■ Shapes and Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMNI000707201R5MXB	1.5	100kHz/0.25V	19.3	15	9	20	1R5
AMNI000707202R2MXB	2.2	100kHz/0.25V	27.5	11.2	7	20	2R2

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

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

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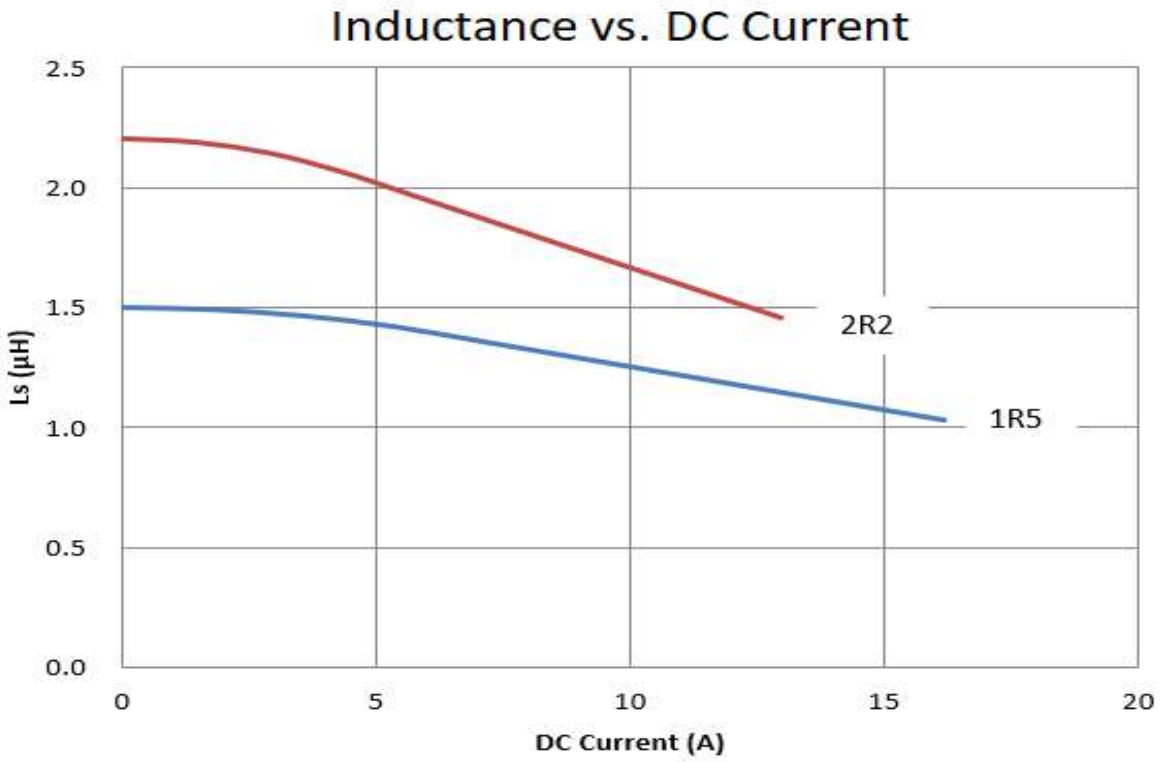
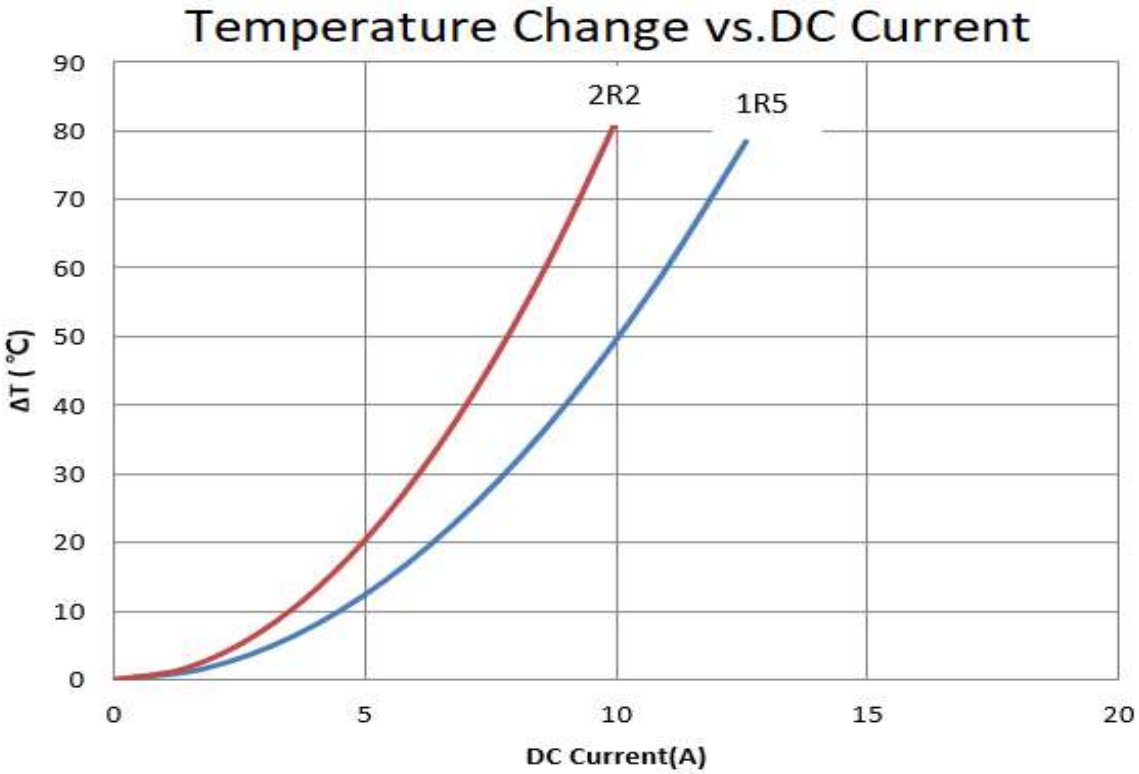
AMNI00070720 Type

■ Characteristics Graph





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Pulse a YAGEO company

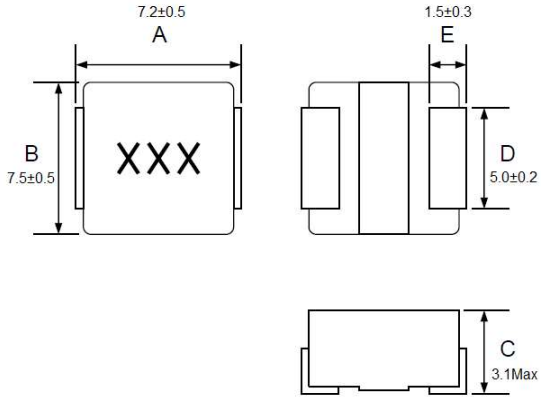
CHILISIN ELECTRONICS CORP.

Power Inductor AMNx Series

Automotive
AEC-Q200

AMNI00070731 Type

■ Shapes and Dimensions



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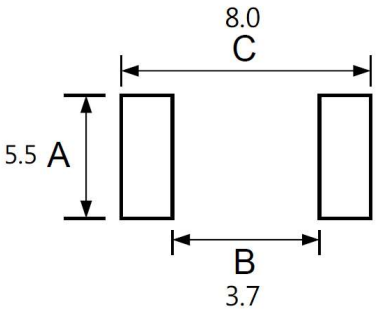
■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMNI000707311R0MXB	1	100kHz/0.25V	5	28	21.8	20	1R0
AMNI000707311R5MXB	1.5	100kHz/0.25V	8.36	23.5	15	20	1R5
AMNI000707312R2MXB	2.2	100kHz/0.25V	15.07	18	12.9	20	2R2
AMNI000707312R7MXB	2.7	100kHz/0.25V	17.3	12.8	11.4	20	2R7
AMNI000707313R3MXB	3.3	100kHz/0.25V	21.45	12.3	10	20	3R3
AMNI000707314R7MXB	4.7	100kHz/0.25V	30	10.1	9	20	4R7
AMNI000707316R8MXB	6.8	100kHz/0.25V	42.57	8.7	6.8	20	6R8

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

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

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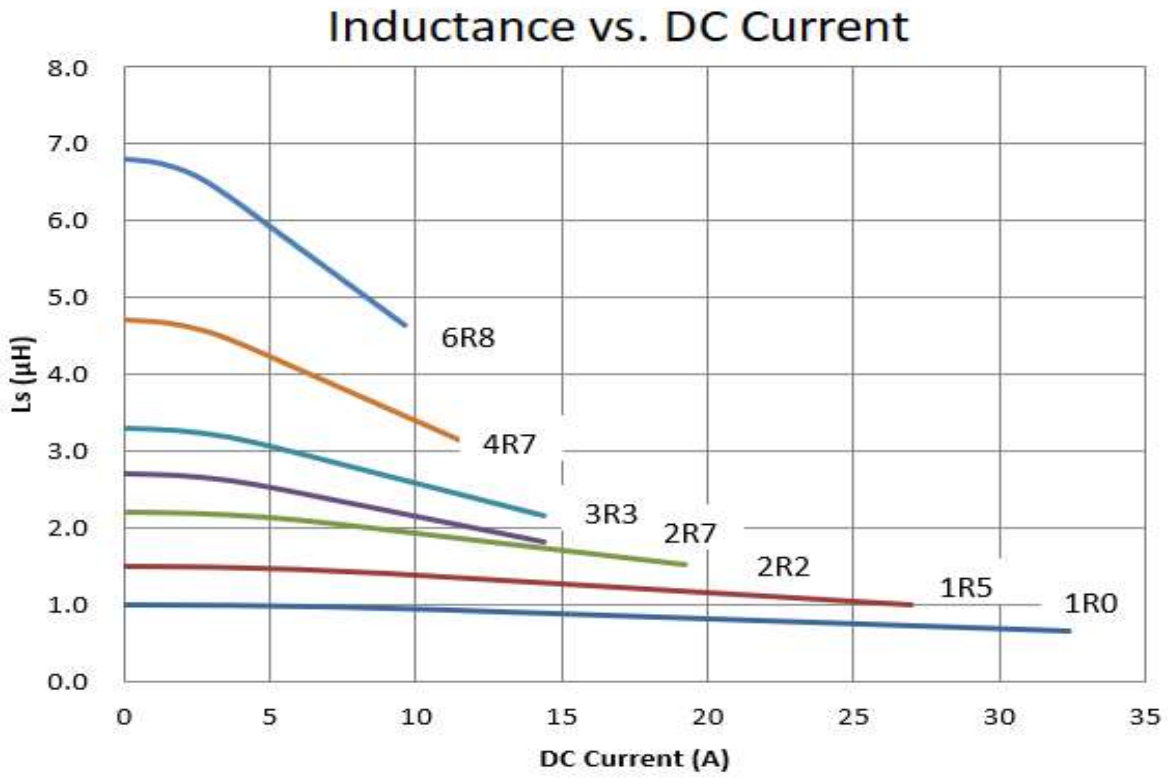
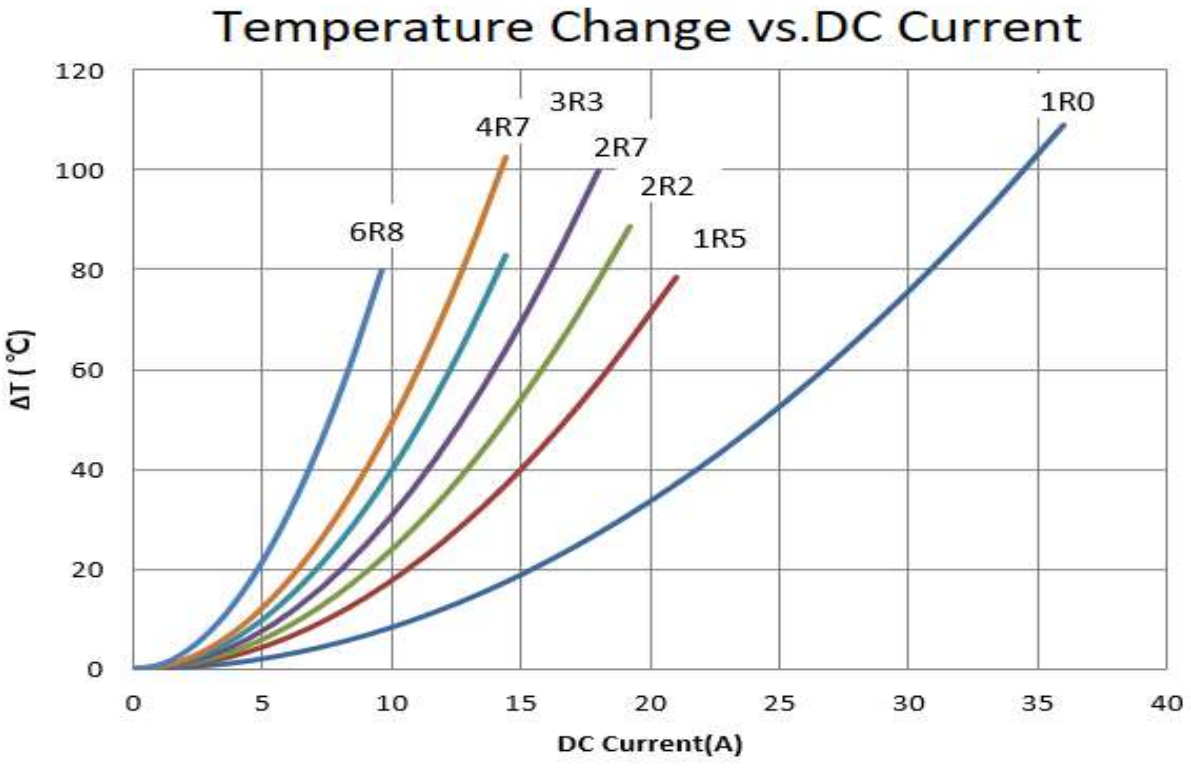
Power Inductor AMNx Series

Automotive
AEC-Q200

AMNI00070731 Type

■ Characteristics Graph





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Pulse a YAGEO company

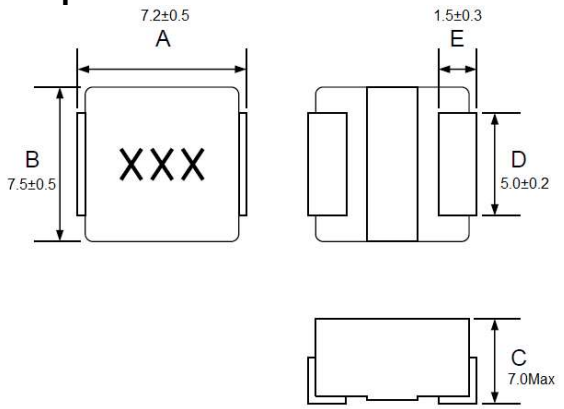
CHILISIN ELECTRONICS CORP.

Power Inductor AMNx Series

Automotive
AEC-Q200

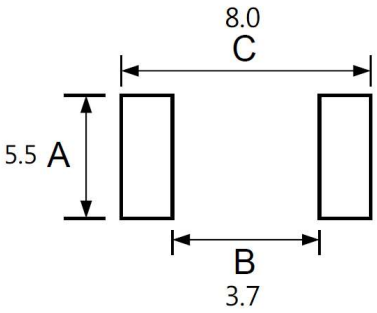
AMNI00070770 Type

■ Shapes and Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMNI000707703R3MXB	3.3	100kHz/0.25V	9.42	19.4	15.1	20	3R3
AMNI000707704R7MXB	4.7	100kHz/0.25V	14.26	15.2	13.6	20	4R7
AMNI000707705R6MXB	5.6	100kHz/0.25V	15	13	11.4	20	5R6

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

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

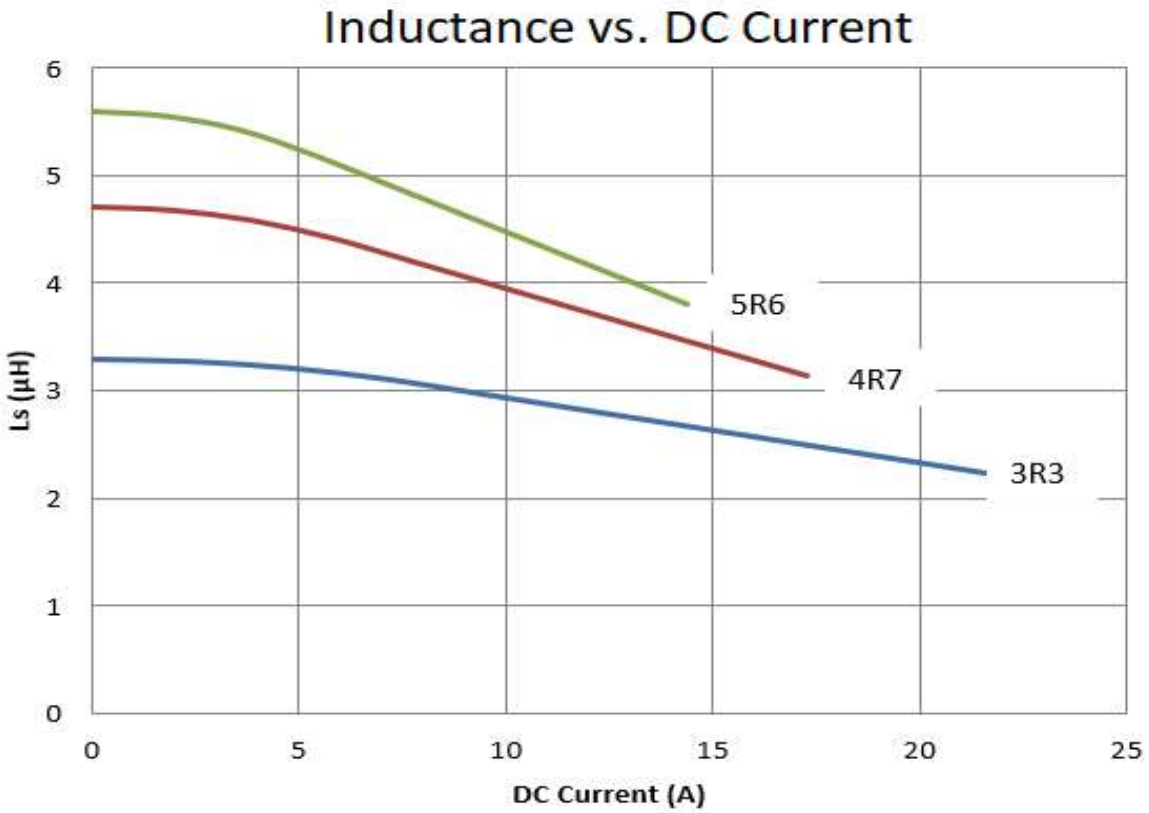
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

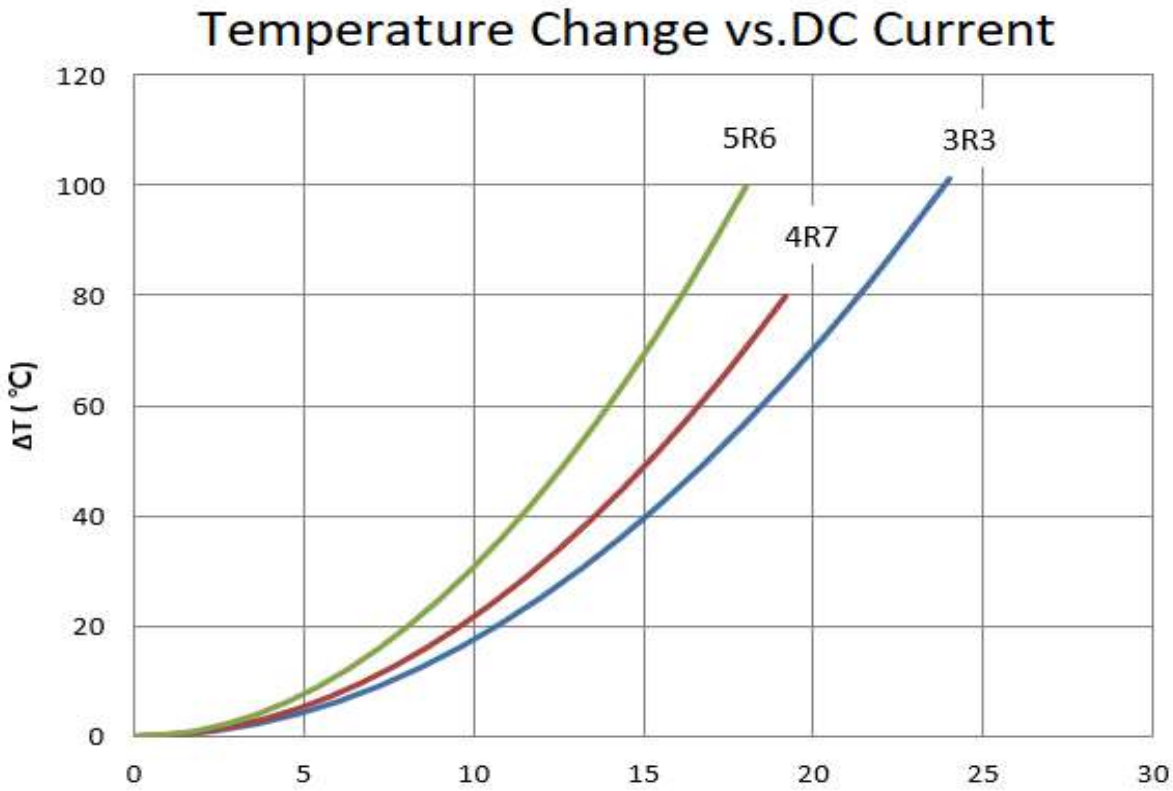
Power Inductor AMNx Series

Automotive
AEC-Q200

AMNI00070770 Type

■ Characteristics Graph





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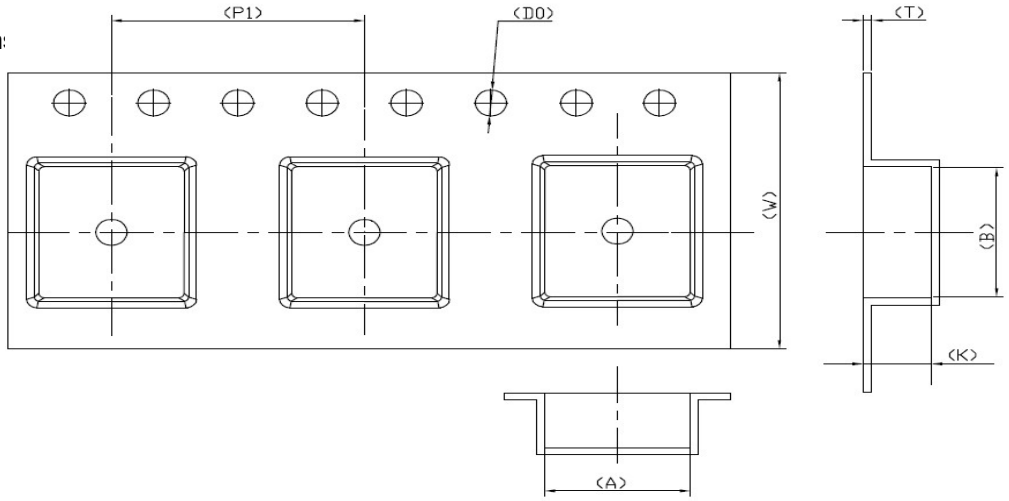
Power Inductor AMNx Series

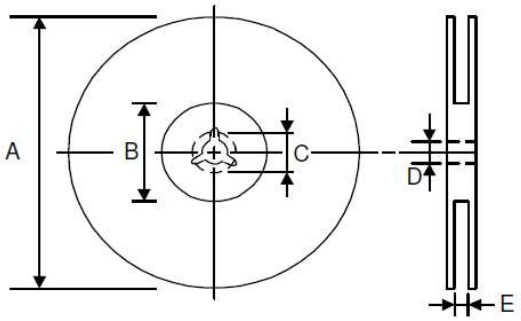
Automotive
AEC-Q200

■ Packaging

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
AMNI00040421	4.3	4.4	2.4	1.5	12	0.35	8	330	100	21.5	13	12.4	2000
AMNN00040421	4.3	4.4	2.4	1.5	12	0.35	8	330	100	21.5	13	12.4	2000
AMNI00040431	4.3	4.4	3.5	1.5	12	0.35	8	330	100	21.5	13	12.4	2000
AMNI00050531	6	6.1	3.3	1.5	12	0.35	8	330	100	21.5	13	12.4	1000
AMNI00060631	6.8	6.56	3.4	1.5	16	0.35	12	330	100	21.5	13	16.4	1000
AMNI00060661	6.8	7	6.3	1.5	16	0.4	12	330	100	21.5	13	16.4	500
AMNI00070720	8.2	7.9	2.3	1.5	16	0.3	12	330	100	21.5	13	16.4	1000
AMNI00070731	8.2	7.9	3.4	1.5	16	0.35	12	330	100	21.5	13	16.4	1000
AMNI00070770	8.2	7.9	7.3	1.5	24	0.4	16	330	100	21.5	13	24.2	300

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Power Inductor AWVS Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Power Circuit | Shield | Magnetic Resin LVx | Ferrite | High Current

Part Numbering

A	WVS	00	606045		1R0		M		00	
Grade	Series Name	Control Code	Dimensions Code (mm)		Inductance (uH)		Tolerance		Internal Code	
			322515	3.2x2.5x1.5	R47	0.47	M	±20%	00	General
			404012	4.0x4.0x1.2	1R0	1.0	T	±30%	L1	Low DCR
			404018	4.0x4.0x1.8	101	100				
			505020	5.0x5.0x2.0						
			505040	5.0x5.0x4.0						
			606020	6.0x6.0x2.0						
			606028	6.0x6.0x2.8						
			606045	6.0x6.0x4.5						
			808040	8.0x8.0x4.0						

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Pulse a YAGEO company

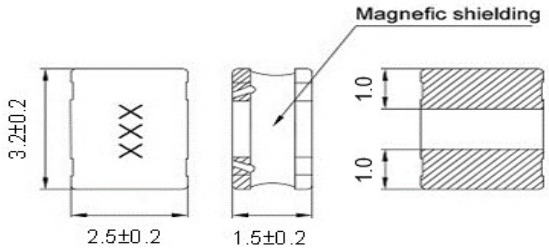
CHILISIN ELECTRONICS CORP.

Power Inductor AWVS Series

Automotive
AEC-Q200

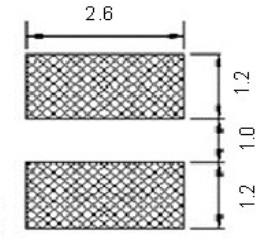
AWVS00322515 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	SRF (MHZ)Min.	RDC (mΩ)±20%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVS00322515R22□00	0.2	1MHz,1V	300	22	4.5(4.0)	4.2(3.7)	20,30	R22
AWVS00322515R47□00	0.47	1MHz,1V	168	27	3.4(3.0)	3.8(3.4)	20,30	R47
AWVS003225151R0□00	1	1MHz,1V	95	40	2.3(2.0)	3.2(2.8)	20,30	1R0
AWVS003225151R5□00	1.5	1MHz,1V	81	47	1.8(1.6)	3.0(2.7)	20,30	1R5
AWVS003225152R2□00	2.2	1MHz,1V	60	57	1.6(1.4)	2.8(2.5)	20,30	2R2
AWVS003225153R3□00	3.3	1MHz,1V	45	77	1.3(1.1)	2.4(2.1)	20,30	3R3
AWVS003225154R7□00	4.7	1MHz,1V	40	110	1.1(0.99)	2.0(1.8)	20,30	4R7
AWVS003225156R8□00	6.8	1MHz,1V	30	160	0.90(0.81)	1.7(1.5)	20,30	6R8
AWVS00322515100□00	10	1MHz,1V	25	220	0.78(0.70)	1.4(1.2)	20,30	100
AWVS00322515150□00	15	1MHz,1V	21	320	0.60(0.54)	1.1(0.99)	20,30	150
AWVS00322515220□00	22	1MHz,1V	17	470	0.50(0.45)	0.95(0.85)	20,30	220
AWVS00322515330□00	33	1MHz,1V	12	700	0.40(0.36)	0.80(0.72)	20,30	330
AWVS00322515470□00	47	1MHz,1V	11	1000	0.34(0.30)	0.65(0.58)	20,30	470
AWVS00322515680□00	68	1MHz,1V	9.5	1400	0.29(0.26)	0.53(0.47)	20,30	680
AWVS00322515101□00	100	1MHz,1V	7.5	1900	0.23(0.20)	0.43(0.38)	20,30	101
AWVS00322515121□00	120	1MHz,1V	6.7	2800	0.20(0.18)	0.36(0.32)	20,30	121
AWVS00322515221□00	220	1MHz,1V	5	4700	0.15(0.13)	0.26(0.23)	20,30	221
AWVS00322515471□00	470	1MHz,1V	3.3	10000	0.10(0.09)	0.17(0.15)	20,30	471
AWVS00322515681□00	680	1MHz,1V	2.5	15000	0.08(0.07)	0.14(0.12)	20,30	681
AWVS00322515102□00	1000	0.1MHz,1V	2	23000	0.06(0.05)	0.11(0.09)	20,30	102

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

1.Operating temperature range -40℃~125℃(Including self - temperature rise)

2. Isat for Inductance drop 30% from its value without current

3. Irms for a 40℃ temperature rise from 25℃ ambient with current

4. Measure Equipment:

L: Agilent HP4284A+Agilent HP42841A

RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent

Isat: Agilent HP4284A

Irms: Agilent HP4284A

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.

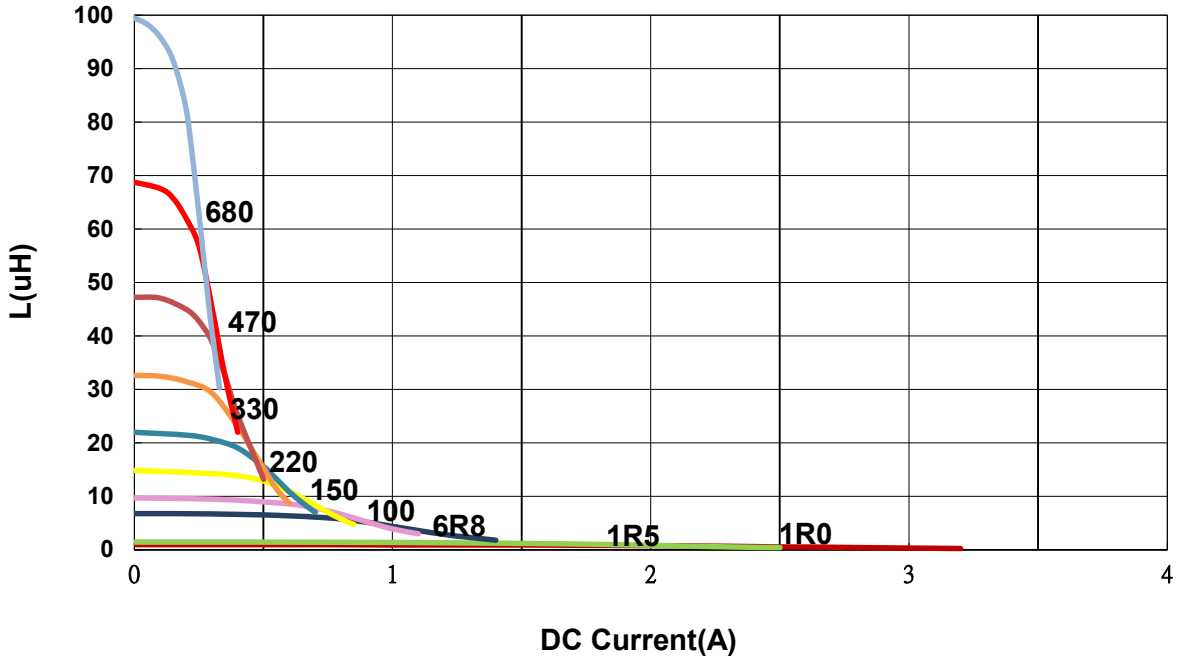
Power Inductor AWVS Series

Automotive
AEC-Q200

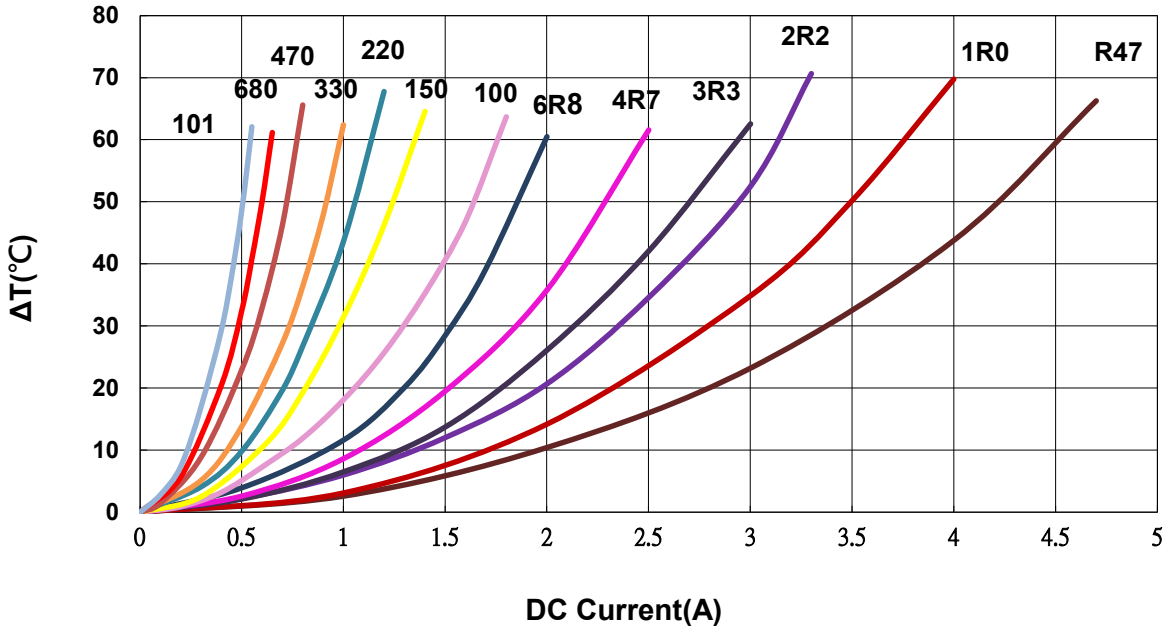
AWVS00322515 Type

■ Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current



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Pulse a YAGEO company

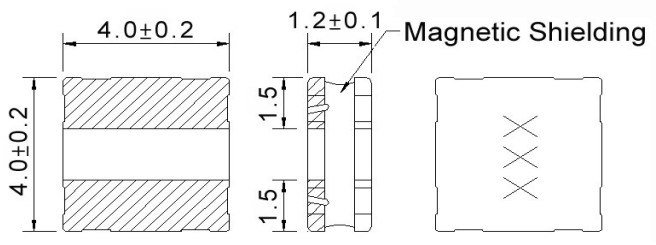
CHILISIN ELECTRONICS CORP.

Power Inductor AWVS Series

Automotive
AEC-Q200

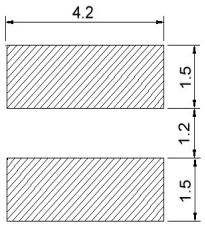
AWVS00404012 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVS004040121R0□00	1.0	100kHz,1V	48	2.50(2.20)	1.70(1.50)	20,30	1R0
AWVS004040121R5□00	1.5	100kHz,1V	58	2.10(1.80)	1.60(1.40)	20,30	1R5
AWVS004040122R2□00	2.2	100kHz,1V	65	1.70(1.50)	1.50(1.30)	20,30	2R2
AWVS004040123R3□00	3.3	100kHz,1V	90	1.30(1.10)	1.40(1.20)	20,30	3R3
AWVS004040124R7□00	4.7	100kHz,1V	110	1.10(0.90)	1.20(1.00)	20,30	4R7
AWVS004040126R8□00	6.8	100kHz,1V	135	0.90(0.81)	1.00(0.94)	20,30	6R8
AWVS00404012100□00	10	100kHz,1V	190	0.78(0.70)	0.90(0.81)	20,30	100
AWVS00404012150□00	15	100kHz,1V	250	0.65(0.58)	0.85(0.76)	20,30	150
AWVS00404012220□00	22	100kHz,1V	400	0.52(0.46)	0.75(0.67)	20,30	220
AWVS00404012330□00	33	100kHz,1V	600	0.44(0.39)	0.70(0.63)	20,30	330
AWVS00404012470□00	47	100kHz,1V	930	0.35(0.31)	0.50(0.45)	20,30	470

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

1.Operating temperature range －４０℃～１２５℃(Including self - temperature rise)

2. Isat for Inductance drop 30% from its value without current

3. Irms for a 40℃ temperature rise from 25℃ ambient with current

4. Measure Equipment:

L: Agilent HP4284A+Agilent HP42841A

RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent

Isat: Agilent HP4284A

Irms: Agilent HP4284A

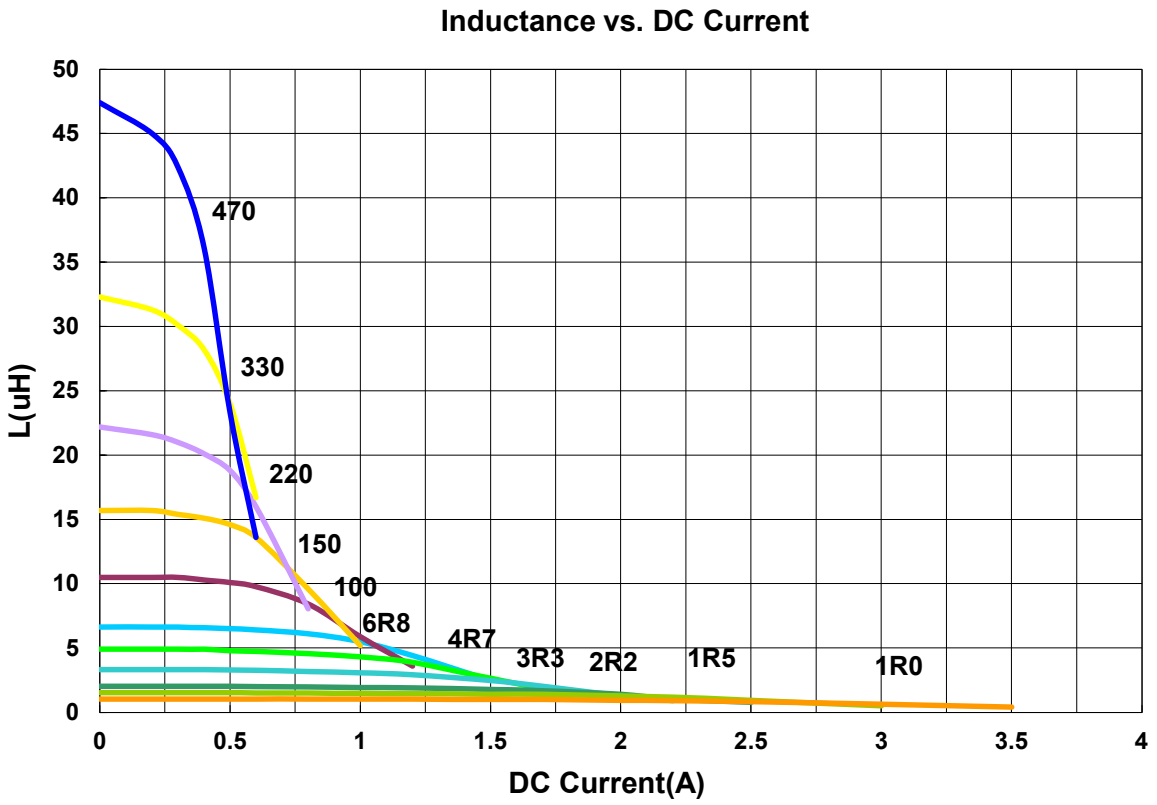
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

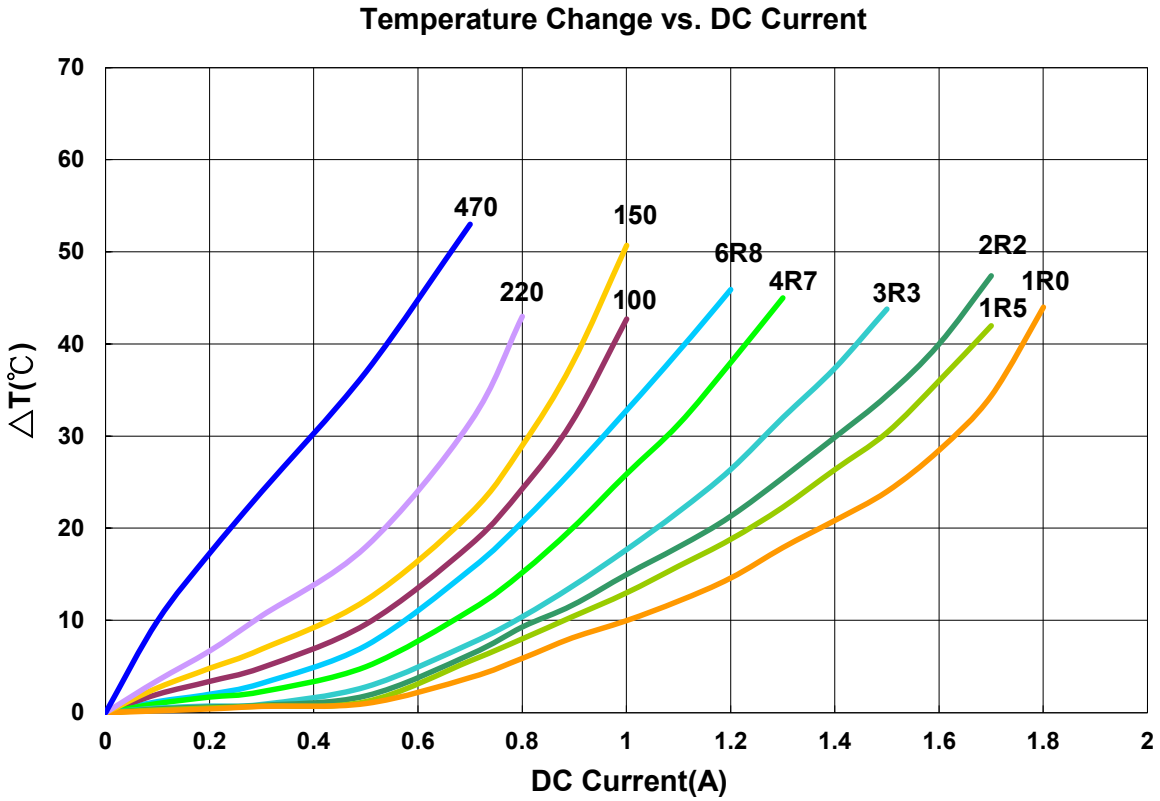
Power Inductor AWVS Series

Automotive
AEC-Q200

AWVS00404012 Type

■ Characteristics Graph





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Pulse a YAGEO company

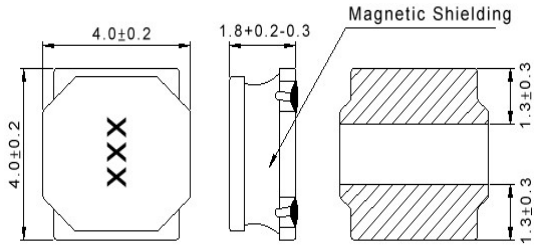
CHILISIN ELECTRONICS CORP.

Power Inductor AWVS Series

Automotive
AEC-Q200

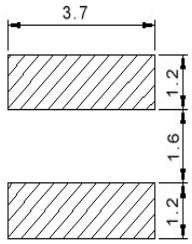
AWVS00404018 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)±20%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVS004040181R0□00	1	100kHz,1V	32	4.10(3.60)	2.80(2.50)	20,30	1R0
AWVS004040181R5□00	1.5	100kHz,1V	40	3.30(2.90)	2.60(2.30)	20,30	1R5
AWVS004040181R8□00	1.8	100kHz,1V	55	2.80(2.50)	2.50(2.20)	20,30	1R8
AWVS004040182R2□00	2.2	100kHz,1V	60	2.80(2.50)	2.50(2.20)	20,30	2R2
AWVS004040182R3□00	2.3	100kHz,1V	60	2.80(2.50)	2.50(2.20)	20,30	2R3
AWVS004040183R3□00	3.3	100kHz,1V	70	2.20(1.90)	2.10(1.80)	20,30	3R3
AWVS004040183R6□00	3.6	100kHz,1V	75	2.10(1.80)	1.90(1.70)	20,30	3R6
AWVS004040183R9□00	3.9	100kHz,1V	75	2.10(1.80)	1.90(1.70)	20,30	3R9
AWVS004040184R7□00	4.7	100kHz,1V	90	2.00(1.80)	1.70(1.50)	20,30	4R7
AWVS004040186R8□00	6.8	100kHz,1V	110	1.60(1.40)	1.50(1.30)	20,30	6R8
AWVS004040188R2□00	8.2	100kHz,1V	155	1.50(1.30)	1.30(1.10)	20,30	8R2
AWVS00404018100□00	10	100kHz,1V	170	1.40(1.20)	1.20(1.00)	20,30	100
AWVS00404018150□00	15	100kHz,1V	250	1.00(0.90)	1.00(0.90)	20,30	150
AWVS00404018220□00	22	100kHz,1V	350	0.90(0.81)	0.85(0.76)	20,30	220
AWVS00404018330□00	33	100kHz,1V	530	0.80(0.72)	0.70(0.63)	20,30	330
AWVS00404018470□00	47	100kHz,1V	720	0.70(0.63)	0.56(0.50)	20,30	470
AWVS00404018680□00	68	100kHz,1V	1000	0.56(0.50)	0.45(0.40)	20,30	680
AWVS00404018101□00	100	100kHz,1V	1500	0.46(0.41)	0.38(0.34)	20,30	101
AWVS00404018121□00	120	100kHz,1V	1600	0.38(0.34)	0.36(0.32)	20,30	121
AWVS00404018151□00	150	100kHz,1V	2500	0.35(0.31)	0.30(0.27)	20,30	151
AWVS00404018221□00	220	100kHz,1V	4000	0.28(0.25)	0.23(0.20)	20,30	221

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

1.Operating temperature range -40℃~125℃(Including self - temperature rise)

2. Isat for Inductance drop 30% from its value without current

3. Irms for a 40℃ temperature rise from 25℃ ambient with current

4. Measure Equipment:

L: Agilent HP4284A+Agilent HP42841A

RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent

Isat: Agilent HP4284A

Irms: Agilent HP4284A

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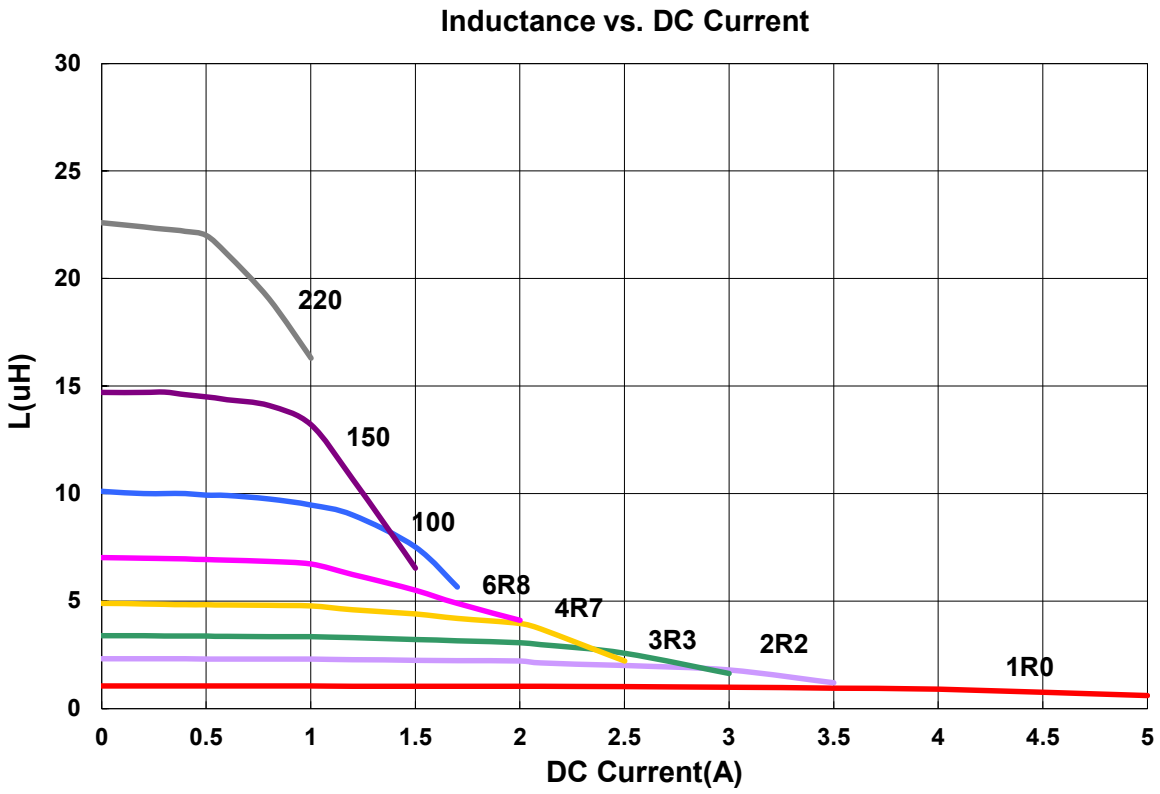
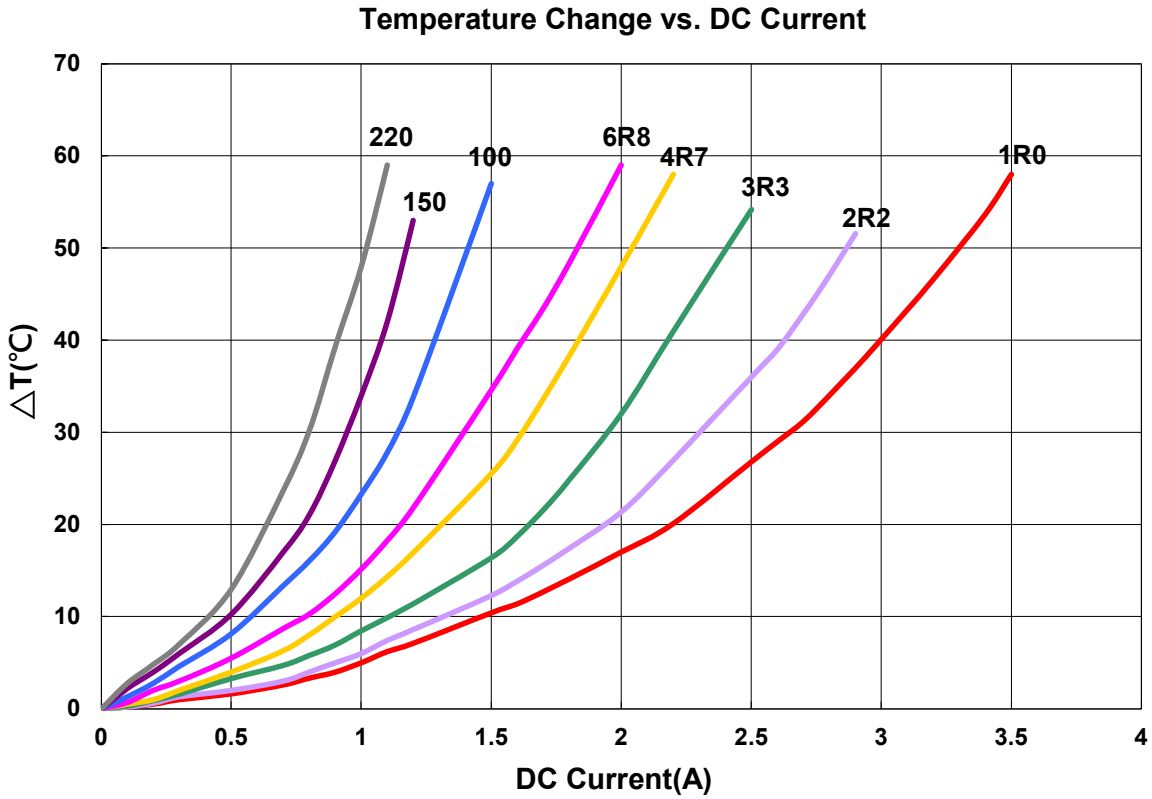
Power Inductor AWVS Series

Automotive
AEC-Q200

AWVS00404018 Type

■ Characteristics Graph





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Pulse a YAGEO company

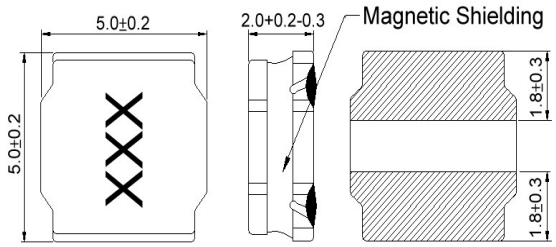
CHILISIN ELECTRONICS CORP.

Power Inductor AWVS Series

Automotive
AEC-Q200

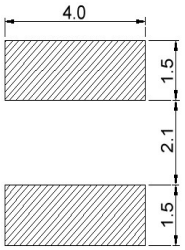
AWVS00505020 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)±20%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVS005050201R0□00	1.0	100kHz,1V	21	5.10(4.50)	4.00(3.60)	20,30	1R0
AWVS005050201R2□00	1.2	100kHz,1V	21	4.80(4.30)	3.80(3.40)	30	1R2
AWVS005050201R5□00	1.5	100kHz,1V	26	4.20(3.70)	3.50(3.10)	20,30	1R5
AWVS005050202R2□00	2.2	100kHz,1V	35	3.40(3.00)	3.20(2.80)	20,30	2R2
AWVS005050202R7□00	2.7	100kHz,1V	38	3.40(3.00)	3.20(2.80)	20,30	2R7
AWVS005050203R3□00	3.3	100kHz,1V	48	3.05(2.70)	2.80(2.50)	20,30	3R3
AWVS005050204R7□00	4.7	100kHz,1V	60	2.20(1.90)	2.90(2.60)	20,30	4R7
AWVS005050205R6□00	5.6	100kHz,1V	82	2.05(1.80)	2.00(1.80)	20,30	5R6
AWVS005050206R8□00	6.8	100kHz,1V	90	2.00(1.80)	1.80(1.60)	20,30	6R8
AWVS00505020100□00	10	100kHz,1V	120	1.60(1.44)	1.60(1.40)	20,30	100
AWVS00505020150□00	15	100kHz,1V	190	1.30(1.17)	1.20(1.00)	20,30	150
AWVS00505020220□00	22	100kHz,1V	260	1.00(0.90)	1.00(0.90)	20,30	220
AWVS00505020330□00	33	100kHz,1V	460	0.80(0.72)	0.75(0.67)	20,30	330
AWVS00505020470□00	47	100kHz,1V	580	0.65(0.58)	0.65(0.58)	20,30	470

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

1.Operating temperature range -40℃~125℃(Including self - temperature rise)

2. Isat for Inductance drop 30% from its value without current

3. Irms for a 40℃ temperature rise from 25℃ ambient with current

4. Measure Equipment:

L: Agilent HP4284A+Agilent HP42841A

RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent

Isat: Agilent HP4284A

Irms: Agilent HP4284A

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

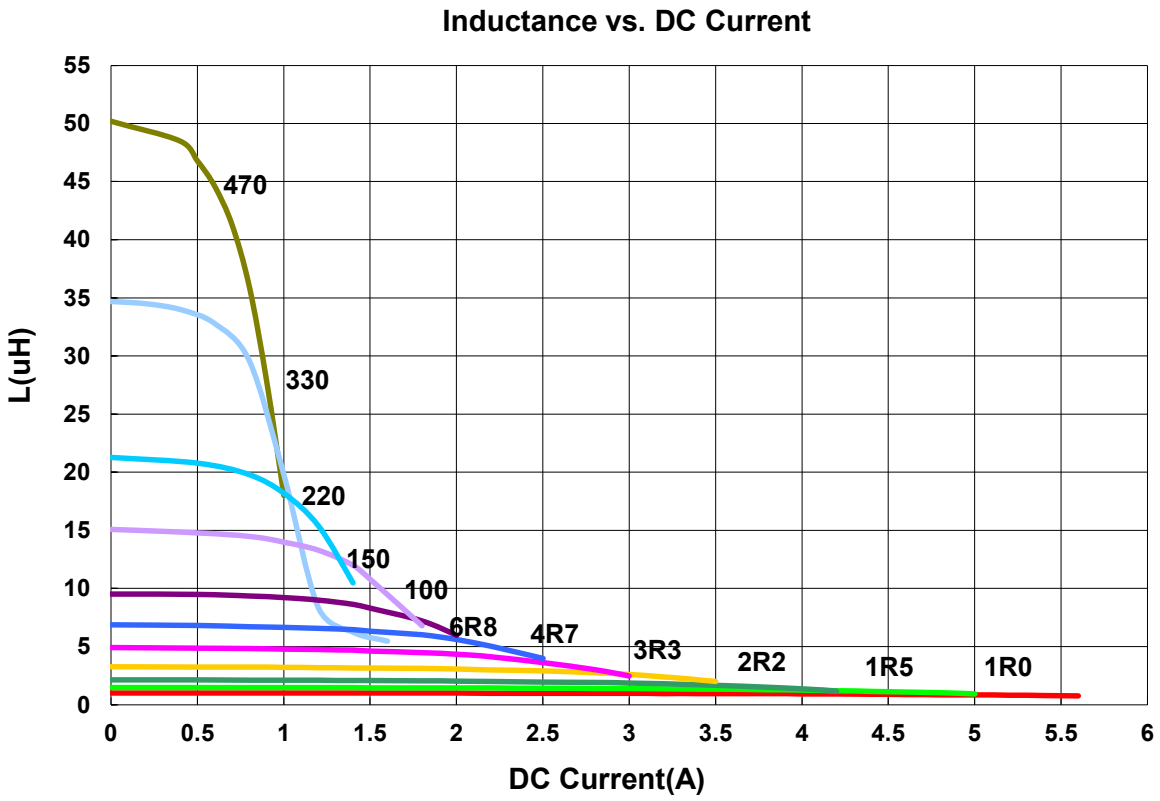
CHILISIN ELECTRONICS CORP.

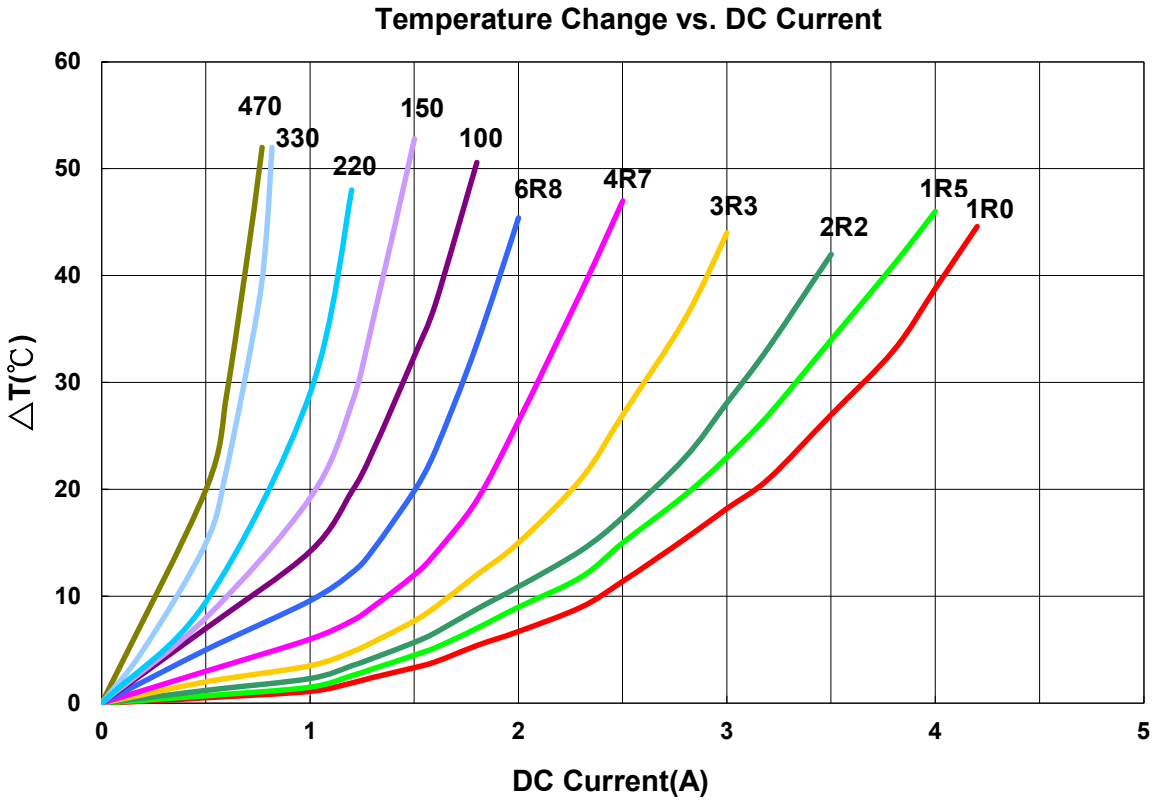
Power Inductor AWVS Series

Automotive
AEC-Q200

AWVS00505020 Type

■ Characteristics Graph





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Pulse a YAGEO company

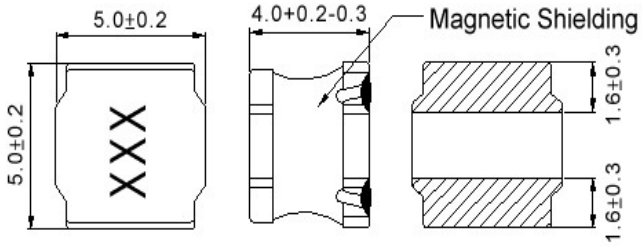
CHILISIN ELECTRONICS CORP.

Power Inductor AWVS Series

Automotive
AEC-Q200

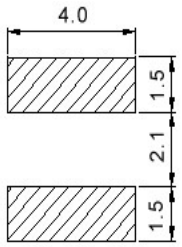
AWVS00505040 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVS00505040R68□00	0.7	100kHz,1V	10	8.4(7.50)	5.6(5.00)	20,30	R68
AWVS005050401R0□00	1.0	100kHz,1V	14	7.5(6.70)	4.6(4.10)	20,30	1R0
AWVS005050401R2□00	1.2	100kHz,1V	15	7.4(6.60)	4.5(4.00)	20,30	1R2
AWVS005050401R5□00	1.5	100kHz,1V	16	7.1(6.30)	4.4(3.90)	20,30	1R5
AWVS005050402R2□00	2.2	100kHz,1V	21	5.7(5.10)	3.7(3.30)	20,30	2R2
AWVS005050403R0□00	3	100kHz,1V	21	4.8(4.30)	3.5(3.10)	20,30	3R0
AWVS005050403R3□00	3.3	100kHz,1V	26	4.8(4.30)	3.5(3.10)	20,30	3R3
AWVS005050403R6□00	3.6	100kHz,1V	31	4.2(3.70)	3.3(2.90)	20,30	3R6
AWVS005050404R7□00	4.7	100kHz,1V	32	4.2(3.70)	3.2(2.80)	20,30	4R7
AWVS005050406R8□00	6.8	100kHz,1V	50	3.3(2.90)	2.4(2.10)	20,30	6R8
AWVS005050408R2□00	8.2	100kHz,1V	58	3.10(2.70)	2.30(2.00)	20,30	8R2
AWVS00505040100□00	10	100kHz,1V	60	2.8(2.50)	2.2(1.90)	20,30	100
AWVS00505040150□00	15	100kHz,1V	90	2.3(2.00)	1.8(1.60)	20,30	150
AWVS00505040220□00	22	100kHz,1V	135	1.8(1.60)	1.4(1.20)	20,30	220
AWVS00505040270□00	27	100kHz,1V	180	1.6(1.40)	1.2(1.00)	20,30	270
AWVS00505040330□00	33	100kHz,1V	190	1.5(1.30)	1.1(0.99)	20,30	330
AWVS00505040470□00	47	100kHz,1V	310	1.2(1.00)	0.9(0.81)	20,30	470
AWVS00505040680□00	68	100kHz,1V	540	1.0(0.90)	0.78(0.7)	20,30	680
AWVS00505040101□00	100	100kHz,1V	800	0.7(0.60)	0.6(0.50)	20,30	101

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

1.Operating temperature range －40℃~125℃(Including self - temperature rise)

2. Isat for Inductance drop 30% from its value without current

3. Irms for a 40℃ temperature rise from 25℃ ambient with current

4. Measure Equipment:

L: Agilent HP4284A+Agilent HP42841A

RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent

Isat: Agilent HP4284A

Irms: Agilent HP4284A

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Pulse a YAGEO company

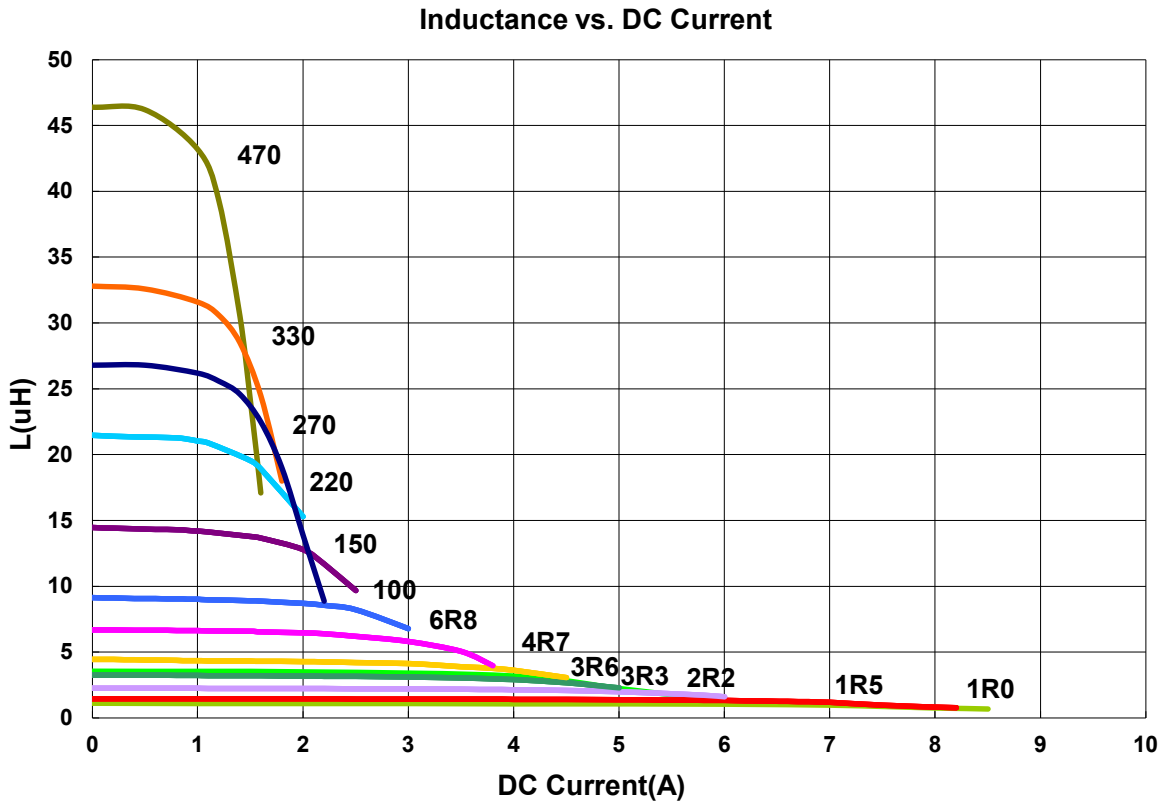
CHILISIN ELECTRONICS CORP.

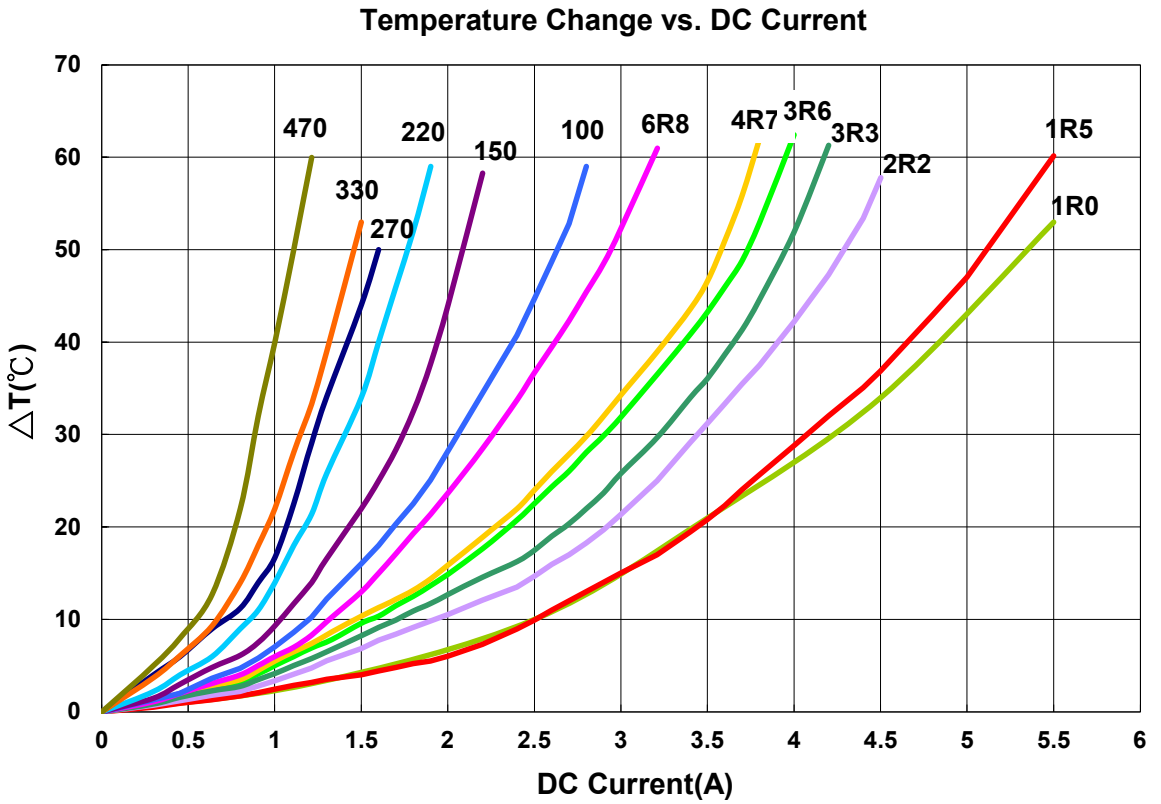
Power Inductor AWVS Series

Automotive
AEC-Q200

AWVS00505040 Type

■ Characteristics Graph





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Pulse a YAGEO company

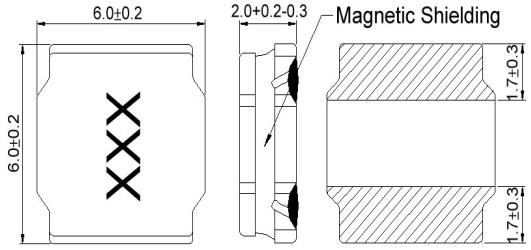
CHILISIN ELECTRONICS CORP.

Power Inductor AWVS Series

Automotive
AEC-Q200

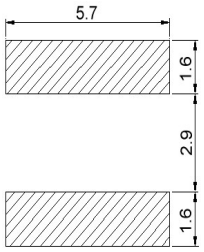
AWVS00606020 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVS00606020R50□00	0.5	100kHz,1V	13	8.0(7.20)	5.3(4.7)	30	R50
AWVS00606020R90□00	0.9	100kHz,1V	18	6.3(5.60)	4.2(3.7)	30	R90
AWVS006060201R0□00	1.0	100kHz,1V	19	6.2(5.50)	4.1(3.6)	30	1R0
AWVS006060201R5□00	1.5	100kHz,1V	26	5.0(4.50)	3.6(3.2)	20,30	1R5
AWVS006060202R2□00	2.2	100kHz,1V	34	4.2(3.70)	3.2(2.8)	20,30	2R2
AWVS006060203R3□00	3.3	100kHz,1V	40	3.2(2.80)	2.7(2.4)	20,30	3R3
AWVS006060204R7□00	4.7	100kHz,1V	58	2.5(2.20)	2.2(1.9)	20,30	4R7
AWVS006060206R8□00	6.8	100kHz,1V	85	2.2(1.90)	1.8(1.6)	20,30	6R8
AWVS00606020100□00	10	100kHz,1V	125	2.0(1.80)	1.6(1.4)	20,30	100
AWVS00606020150□00	15	100kHz,1V	190	1.3(1.10)	1.3(1.1)	20,30	150
AWVS00606020220□00	22	100kHz,1V	260	1.1(0.99)	1.1(0.99)	20,30	220

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

1.Operating temperature range －40℃~125℃(Including self - temperature rise)

2. Isat for Inductance drop 30% from its value without current

3. Irms for a 40℃ temperature rise from 25℃ ambient with current

4. Measure Equipment:

L: Agilent HP4284A+Agilent HP42841A

RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent

Isat: Agilent HP4284A

Irms: Agilent HP4284A

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Pulse a YAGEO company

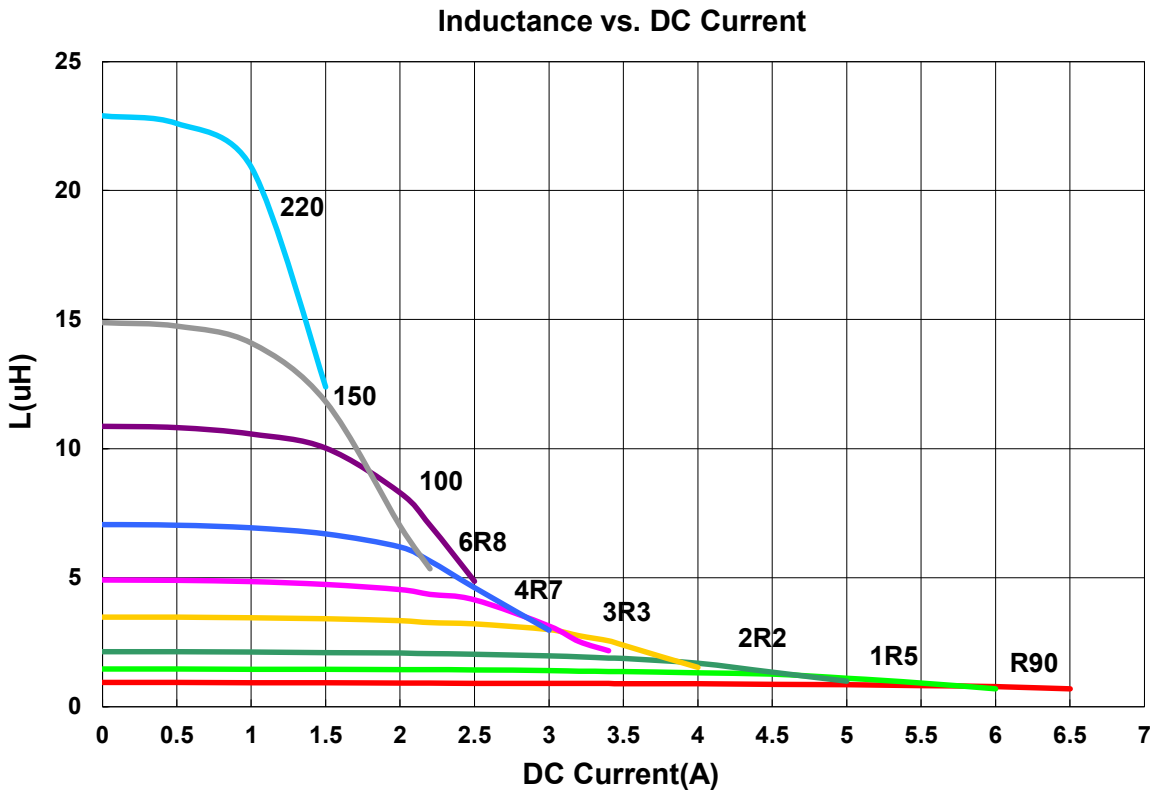
CHILISIN ELECTRONICS CORP.

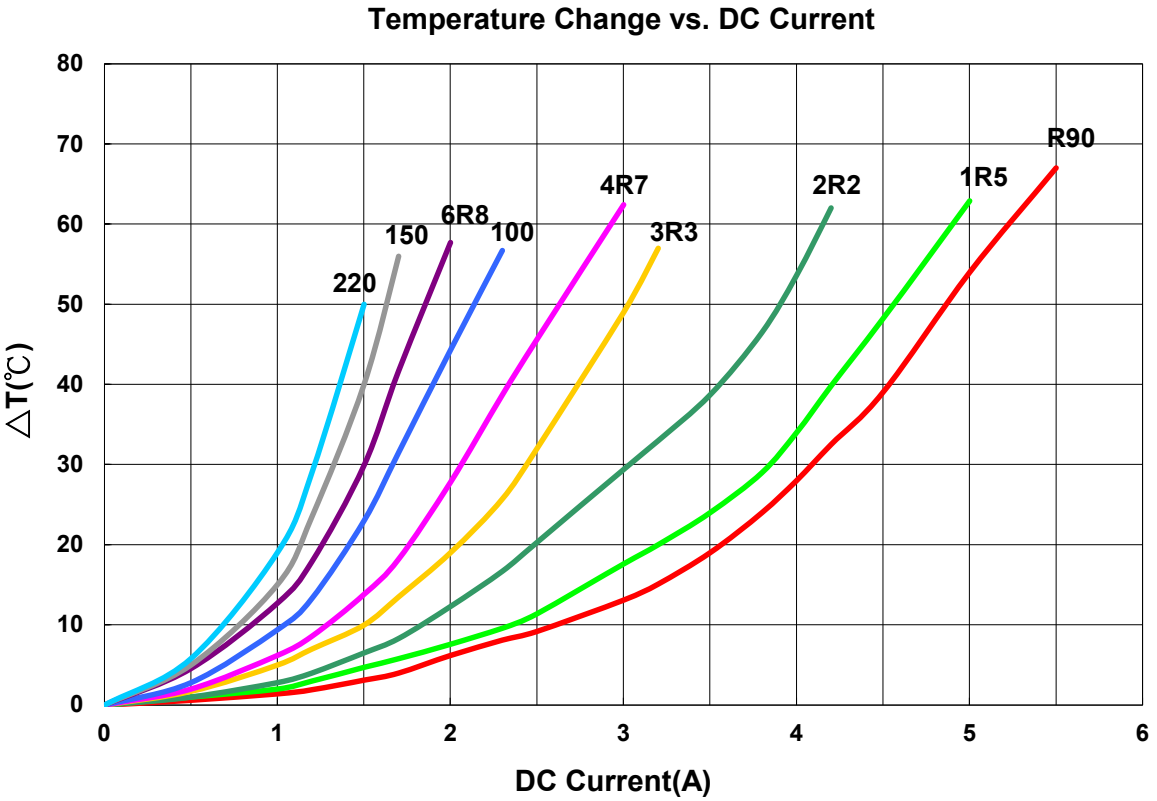
Power Inductor AWVS Series

Automotive
AEC-Q200

AWVS00606020 Type

■ Characteristics Graph





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Pulse a YAGEO company

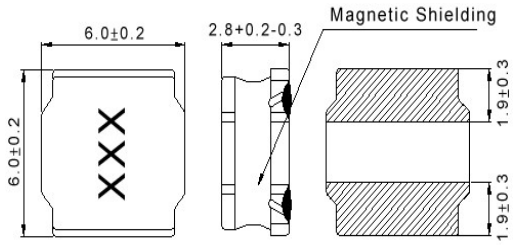
CHILISIN ELECTRONICS CORP.

Power Inductor AWVS Series

Automotive
AEC-Q200

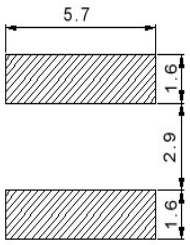
AWVS00606028 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVS006060281R0□00	1	100kHz,1V	13	7.60(6.80)	5.20(4.60)	20,30	1R0
AWVS006060281R5□00	1.5	100kHz,1V	16	6.30(5.60)	4.80(4.30)	30	1R5
AWVS006060282R2□00	2.2	100kHz,1V	20	5.40(4.80)	4.00(3.60)	20,30	2R2
AWVS006060282R7□00	2.7	100kHz,1V	26	4.90(4.40)	3.70(3.30)	20,30	2R7
AWVS006060283R3□00	3.3	100kHz,1V	28	4.30(3.80)	3.50(3.10)	20,30	3R3
AWVS006060284R7□00	4.7	100kHz,1V	38	3.70(3.30)	3.20(2.80)	20,30	4R7
AWVS006060286R0□00	6	100kHz,1V	45	3.30(2.90)	2.80(2.50)	20,30	6R0
AWVS006060286R8□00	6.8	100kHz,1V	50	3.10(2.70)	2.70(2.40)	20,30	6R8
AWVS00606028100□00	10	100kHz,1V	65	2.50(2.20)	2.30(2.00)	20,30	100
AWVS00606028150□00	15	100kHz,1V	95	2.00(1.80)	1.80(1.60)	20,30	150
AWVS00606028220□00	22	100kHz,1V	135	1.60(1.40)	1.50(1.30)	20,30	220
AWVS00606028330□00	33	100kHz,1V	220	1.30(1.10)	1.40(1.20)	20,30	330
AWVS00606028470□00	47	100kHz,1V	320	1.10(0.99)	1.00(0.90)	20,30	470
AWVS00606028680□00	68	100kHz,1V	420	0.98(0.88)	0.90(0.81)	20,30	680
AWVS00606028101□00	100	100kHz,1V	600	0.82(0.73)	0.8(0.72)	20,30	101

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

1.Operating temperature range －40℃~125℃(Including self - temperature rise)

2. Isat for Inductance drop 30% from its value without current

3. Irms for a 40℃ temperature rise from 25℃ ambient with current

4. Measure Equipment:

L: Agilent HP4284A+Agilent HP42841A

RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent

Isat: Agilent HP4284A

Irms: Agilent HP4284A

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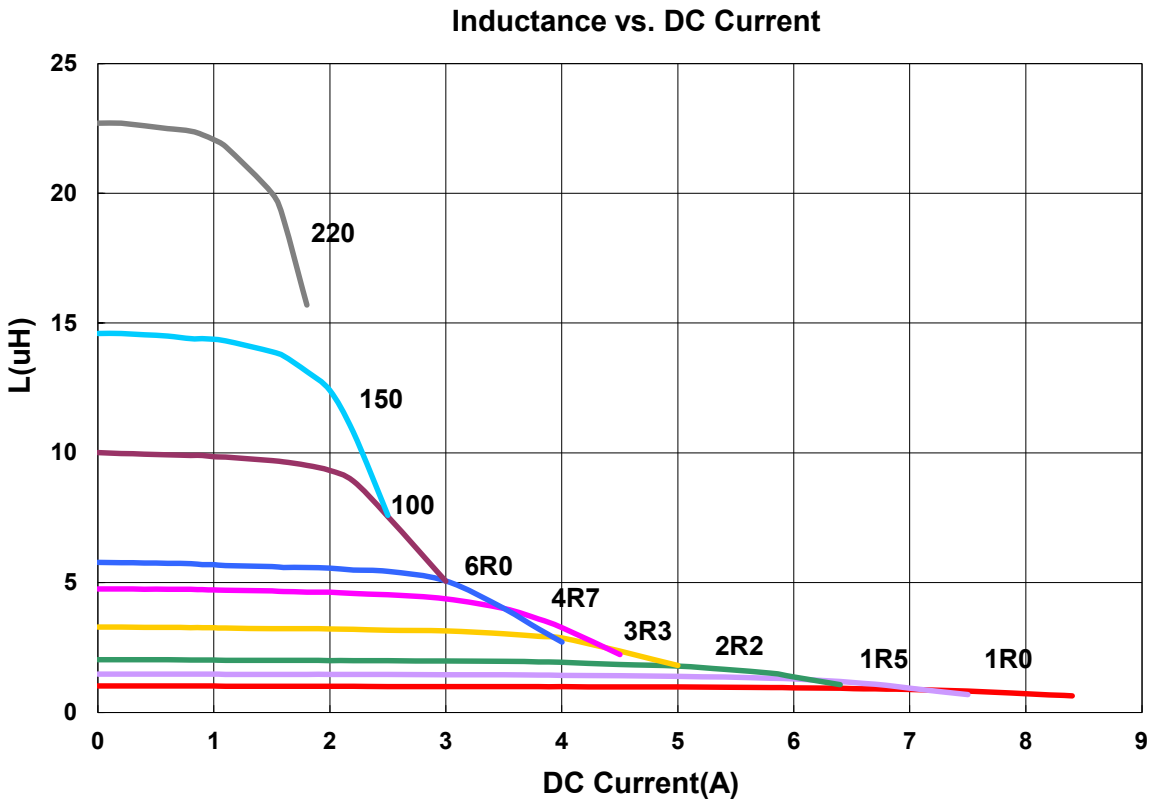
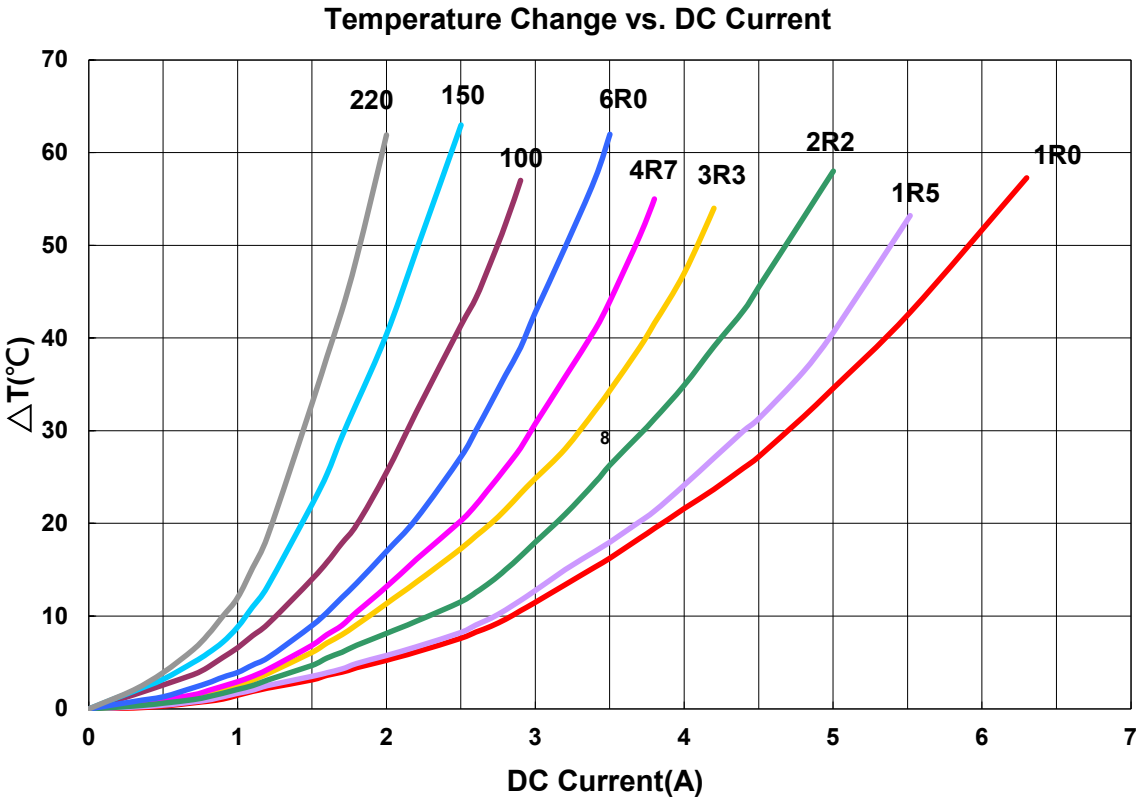
Power Inductor AWVS Series

Automotive
AEC-Q200

AWVS00606028 Type

■ Characteristics Graph





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Pulse a YAGEO company

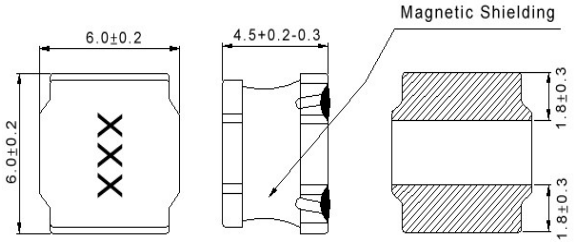
CHILISIN ELECTRONICS CORP.

Power Inductor AWVS Series

Automotive
AEC-Q200

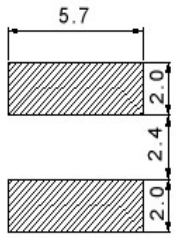
AWVS00606045 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVS006060451R0□00	1.0	100kHz,1V	12	12.2(10.50)	6.5(5.80)	20,30	1R0
AWVS006060451R2□00	1.2	100kHz,1V	13	10.6(9.50)	5.9(5.30)	20,30	1R2
AWVS006060451R5□00	1.5	100kHz,1V	15	10.4(9.30)	5.9(5.30)	20,30	1R5
AWVS006060451R8□00	1.8	100kHz,1V	17	9.6(8.60)	5.6(5.00)	20,30	1R8
AWVS006060452R2□00	2.2	100kHz,1V	18	8.8(7.90)	5.1(4.50)	20,30	2R2
AWVS006060452R3□00	2.3	100kHz,1V	19	8.8(7.90)	5.0(4.50)	20,30	2R3
AWVS006060453R0□00	3	100kHz,1V	22	7.8(7.00)	4.4(3.90)	20,30	3R0
AWVS006060453R3□00	3.3	100kHz,1V	24	7.5(6.70)	4.3(3.80)	20,30	3R3
AWVS006060453R6□00	3.6	100kHz,1V	24	7.5(6.70)	4.3(3.80)	20,30	3R6
AWVS006060453R9□00	3.9	100kHz,1V	26	7.0(6.30)	4.0(3.60)	20,30	3R9
AWVS006060454R5□00	4.5	100kHz,1V	31	6.7(6.00)	3.9(3.50)	20,30	4R5
AWVS006060454R7□00	4.7	100kHz,1V	31	6.7(6.00)	3.9(3.50)	20,30	4R7
AWVS006060455R1□00	5.1	100kHz,1V	33	6.0(5.40)	3.5(3.10)	20,30	5R1
AWVS006060455R6□00	5.6	100kHz,1V	40	5.5(4.90)	3.3(2.90)	20,30	5R6
AWVS006060456R3□00	6.3	100kHz,1V	40	5.5(4.90)	3.3(2.90)	20,30	6R3
AWVS006060456R8□00	6.8	100kHz,1V	43	5.3(4.70)	3.2(2.80)	20,30	6R8
AWVS006060458R2□00	8.2	100kHz,1V	53	4.6(4.10)	2.9(2.60)	20,30	6R8
AWVS00606045100□00	10	100kHz,1V	57	4.5(4.00)	2.7(2.40)	20,30	100
AWVS00606045150□00	15	100kHz,1V	80	3.4(3.00)	2.2(1.90)	20,30	150
AWVS00606045180□00	18	100kHz,1V	100	3.1(2.70)	1.8(1.60)	20,30	180
AWVS00606045220□00	22	100kHz,1V	125	3.0(2.70)	1.9(1.70)	20,30	220
AWVS00606045270□00	27	100kHz,1V	160	2.5(2.20)	1.3(1.10)	20,30	270
AWVS00606045330□00	33	100kHz,1V	165	2.3(2.00)	1.4(1.20)	20,30	330
AWVS00606045470□00	47	100kHz,1V	245	1.9(1.70)	1.2(1.00)	20,30	470
AWVS00606045560□00	56	100kHz,1V	310	1.7(1.50)	1.1(0.99)	20,30	560
AWVS00606045680□00	68	100kHz,1V	330	1.6(1.40)	1.0(0.90)	20,30	680
AWVS00606045101□00	100	100kHz,1V	500	1.3(1.10)	0.8(0.72)	20,30	101
AWVS00606045221□00	220	100kHz,1V	1300	0.82(0.73)	0.38(0.34)	20,30	221
AWVS00606045331□00	330	100kHz,1V	1800	0.7(0.63)	0.35(0.31)	20,30	331
AWVS00606045102□00	1000	100kHz,1V	6000	0.4(0.36)	0.22(0.19)	20,30	102

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

1.Operating temperature range -40℃~125℃(Including self - temperature rise)

2. Isat for Inductance drop 30% from its value without current

3. Irms for a 40℃ temperature rise from 25℃ ambient with current

4. Measure Equipment:

L: Agilent HP4284A+Agilent HP42841A

RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent

Isat: Agilent HP4284A

Irms: Agilent HP4284A

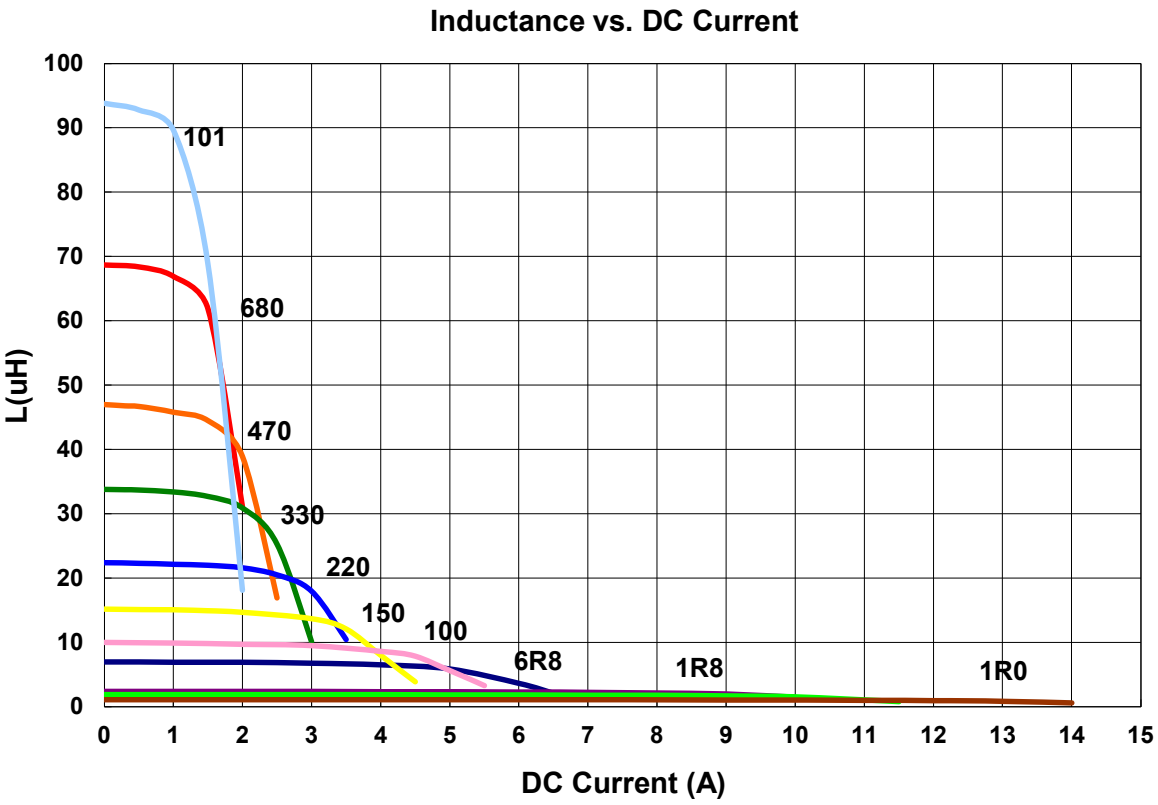
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

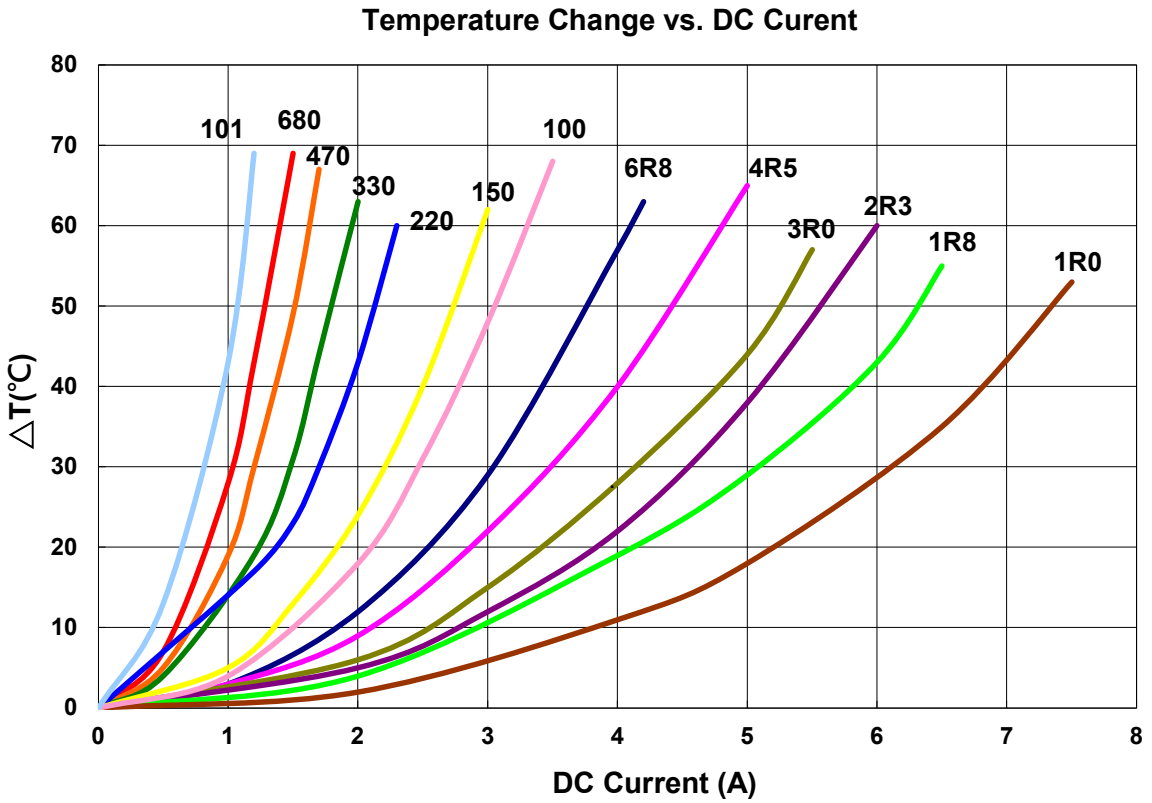
Power Inductor AWVS Series

Automotive
AEC-Q200

AWVS00606045 Type

■ Characteristics Graph





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Pulse a YAGEO company

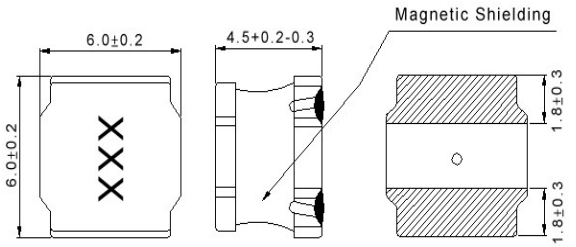
CHILISIN ELECTRONICS CORP.

Power Inductor AWVS Series

Automotive
AEC-Q200

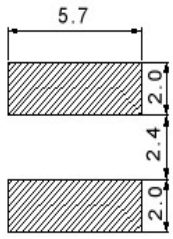
AWVS00606045 - L1 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)Max.	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVS00606045R47□L1	0.47	100kHz,1V	8	14(12.0)	8.0(7.20)	30	R47
AWVS00606045R50□L1	0.5	100kHz,1V	9	11(9.90)	8.0(7.20)	30	R50
AWVS00606045R68□L1	0.68	100kHz,1V	10	10(9.00)	7.2(6.48)	20,30	R68
AWVS006060452R2□L1	2.2	100kHz,1V	17	6.8(6.10)	5.5(4.90)	20,30	2R2
AWVS006060453R3□L1	3.3	100kHz,1V	24	5.5(4.90)	4.7(4.20)	20,30	3R3
AWVS006060454R7□L1	4.7	100kHz,1V	30	4.6(4.10)	4.0(3.60)	20,30	4R7
AWVS006060456R8□L1	6.8	100kHz,1V	40	4.0(3.60)	3.5(3.10)	20,30	6R8
AWVS006060451L1□L1	10	100kHz,1V	50	3.2(2.80)	3.2(2.80)	20,30	100
AWVS00606045150□L1	15	100kHz,1V	80	2.6(2.30)	2.5(2.20)	20,30	150
AWVS00606045220□L1	22	100kHz,1V	120	2.1(1.80)	2.0(1.80)	20,30	220
AWVS00606045330□L1	33	100kHz,1V	170	1.7(1.50)	1.6(1.40)	20,30	330
AWVS00606045101□L1	100	100kHz,1V	595	0.95(0.85)	0.92(0.82)	20,30	101
AWVS00606045151□L1	150	100kHz,1V	800	0.88(0.79)	0.82(0.73)	20,30	151
AWVS00606045221□L1	220	100kHz,1V	1300	0.75(0.67)	0.65(0.58)	20,30	221

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

1.Operating temperature range -40℃~125℃(Including self - temperature rise)

2. Isat for Inductance drop 30% from its value without current

3. Irms for a 40℃ temperature rise from 25℃ ambient with current

4. Measure Equipment:

L: Agilent HP4284A+Agilent HP42841A

RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent

Isat: Agilent HP4284A

Irms: Agilent HP4284A

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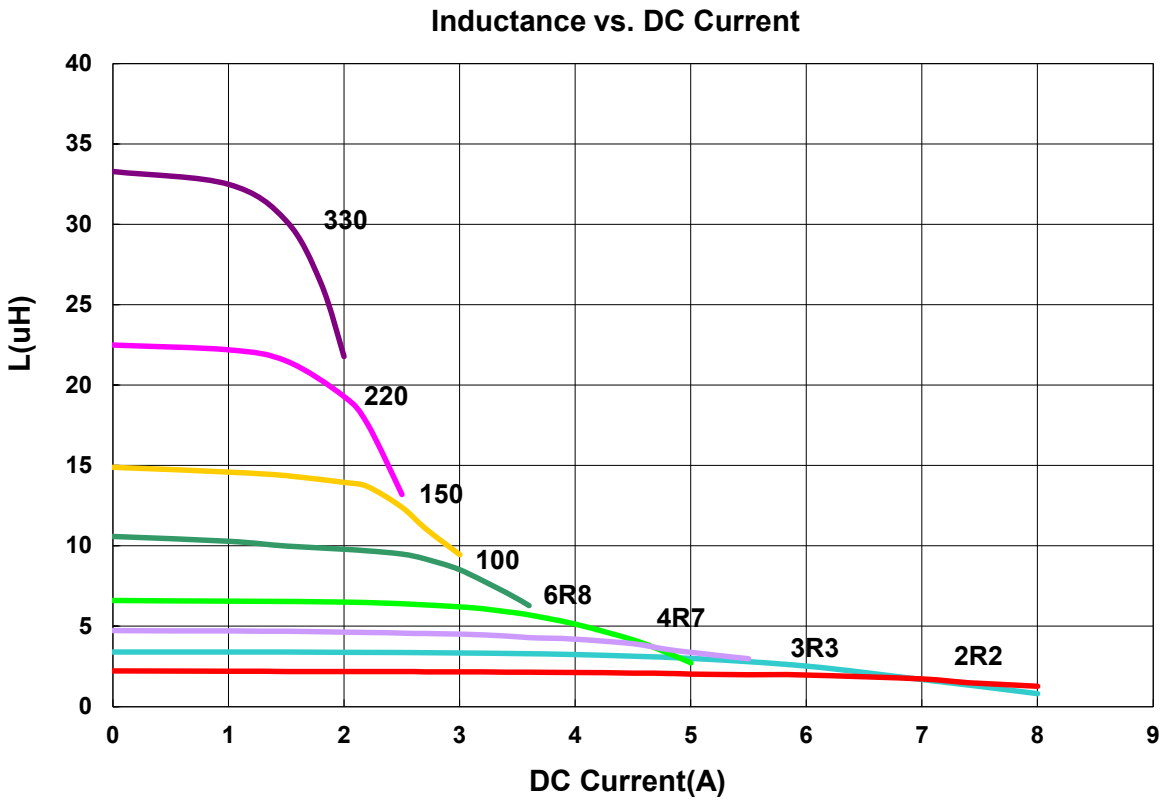
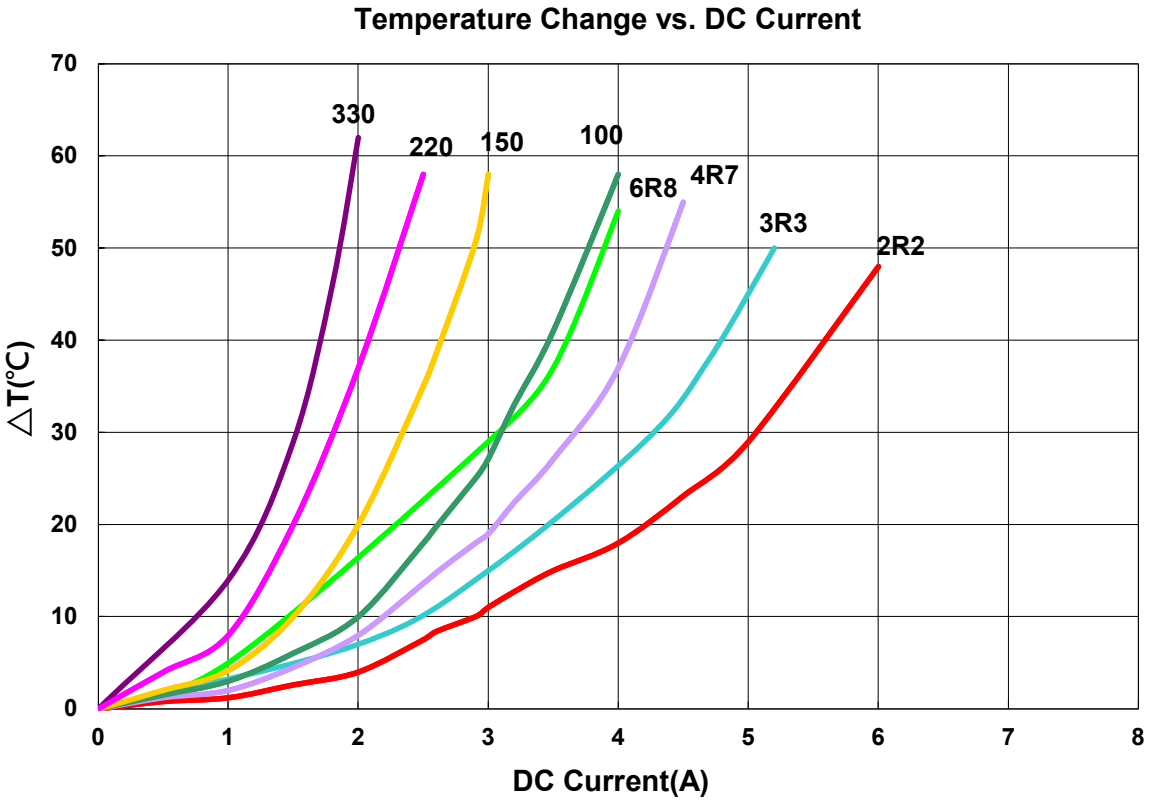
Power Inductor AWVS Series

Automotive
AEC-Q200

AWVS00606045 - L1 Type

■ Characteristics Graph





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Pulse a YAGEO company

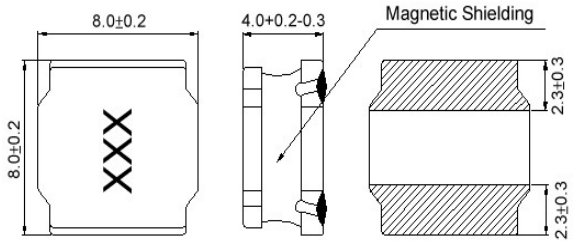
CHILISIN ELECTRONICS CORP.

Power Inductor AWVS Series

Automotive
AEC-Q200

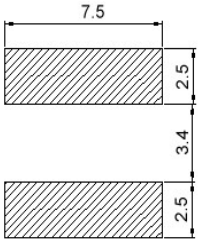
LVS808040 - AU Type

Dimensions



unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVS00808040R90□00	0.9	100kHz,1V	7	13.8(12.00)	8.05(7.10)	30	R90
AWVS008080401R0□00	1.0	100kHz,1V	8	13.0(11.50)	7.95(7.00)	30	1R0
AWVS008080401R4□00	1.4	100kHz,1V	9	10.8(9.50)	7.80(6.90)	30	1R4
AWVS008080401R5□00	1.5	100kHz,1V	10	10.0(9.00)	7.70(6.80)	30	1R5
AWVS008080402R0□00	2	100kHz,1V	11	9.60(8.50)	7.40(6.50)	20,30	2R0
AWVS008080402R2□00	2.2	100kHz,1V	12	9.20(8.10)	7.20(6.30)	20,30	2R2
AWVS008080402R5□00	2.5	100kHz,1V	13	8.20(7.20)	6.30(5.50)	20,30	2R5
AWVS008080403R3□00	3.3	100kHz,1V	15	7.50(6.60)	6.00(5.30)	20,30	3R3
AWVS008080403R9□00	3.9	100kHz,1V	18	6.10(5.40)	5.50(4.90)	20,30	3R9
AWVS008080404R7□00	4.7	100kHz,1V	18	6.00(5.30)	5.50(4.80)	20,30	4R7
AWVS008080405R6□00	5.6	100kHz,1V	23	5.70(5.00)	5.20(4.50)	20,30	5R6
AWVS008080406R8□00	6.8	100kHz,1V	25	5.40(4.70)	5.10(4.40)	20,30	6R8
AWVS00808040100□00	10	100kHz,1V	38	4.30(3.70)	3.80(3.30)	20,30	100
AWVS00808040120□00	12	100kHz,1V	45	3.80(3.30)	3.50(3.00)	20,30	120
AWVS00808040150□00	15	100kHz,1V	50	3.60(3.10)	3.20(2.70)	20,30	150
AWVS00808040180□00	18	100kHz,1V	68	3.10(2.60)	2.70(2.30)	20,30	180
AWVS00808040220□00	22	100kHz,1V	80	2.80(2.40)	2.60(2.20)	20,30	220
AWVS00808040330□00	33	100kHz,1V	110	2.30(2.00)	2.00(1.70)	20,30	330
AWVS00808040470□00	47	100kHz,1V	160	1.90(1.60)	1.75(1.40)	20,30	470
AWVS00808040680□00	68	100kHz,1V	240	1.70(1.40)	1.45(1.20)	20,30	680
AWVS00808040101□00	100	100kHz,1V	340	1.40(1.10)	1.10(0.95)	20,30	101
AWVS00808040121□00	120	100kHz,1V	425	1.10(0.95)	1.00(0.80)	20,30	121
AWVS00808040151□00	150	100kHz,1V	480	1.00(0.88)	0.90(0.75)	20,30	151
AWVS00808040181□00	180	100kHz,1V	650	0.98(0.88)	0.70(0.63)	20,30	181
AWVS00808040221□00	220	100kHz,1V	670	0.94(0.80)	0.60(0.50)	20,30	221
AWVS00808040271□00	270	100kHz,1V	900	0.83(0.73)	0.55(0.45)	20,30	271
AWVS00808040331□00	330	100kHz,1V	1600	0.80(0.72)	0.46(0.41)	20,30	331
AWVS00808040471□00	470	100kHz,1V	1800	0.70(0.63)	0.40(0.36)	20,30	471
AWVS00808040821□00	820	100kHz,1V	2800	0.40(0.35)	0.38(0.30)	20,30	821

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

1.Operating temperature range -40℃~125℃(Including self - temperature rise)

2. Isat for Inductance drop 30% from its value without current

3. Irms for a 40℃ temperature rise from 25℃ ambient with current

4. Measure Equipment:

L: Agilent HP4284A+Agilent HP42841A

RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent

Isat: Agilent HP4284A

Irms: Agilent HP4284A

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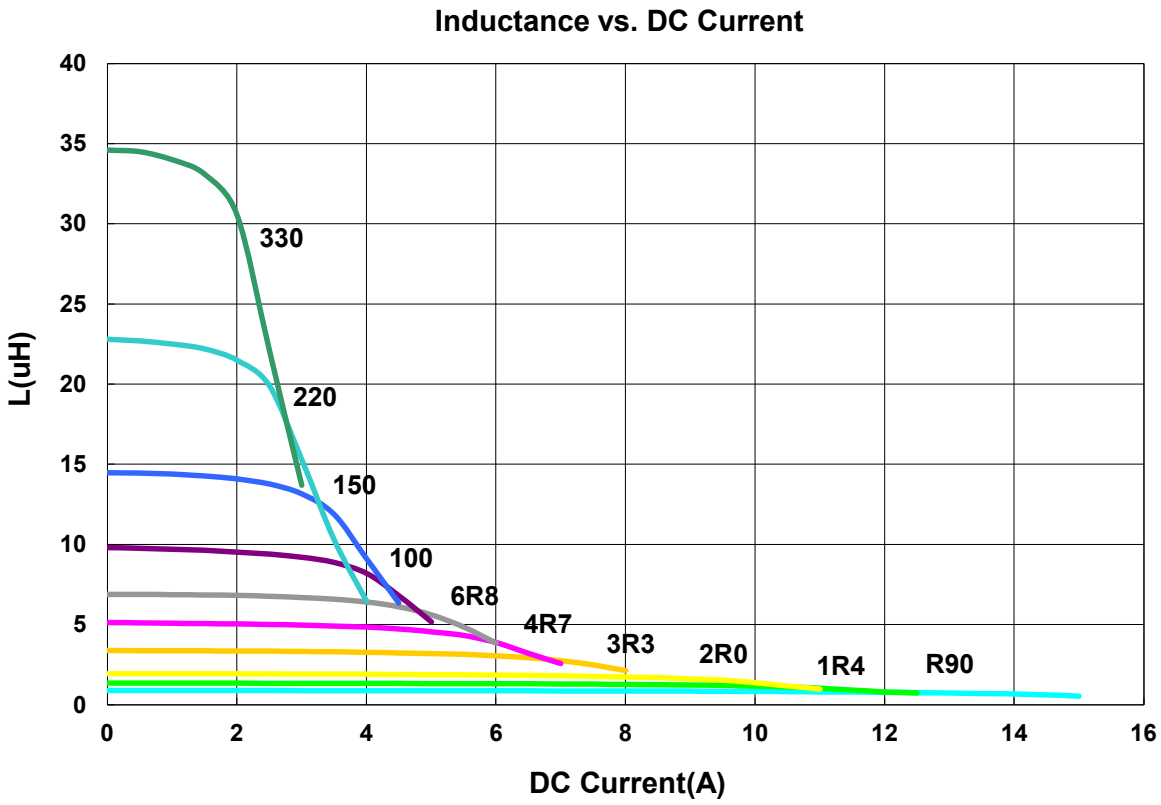
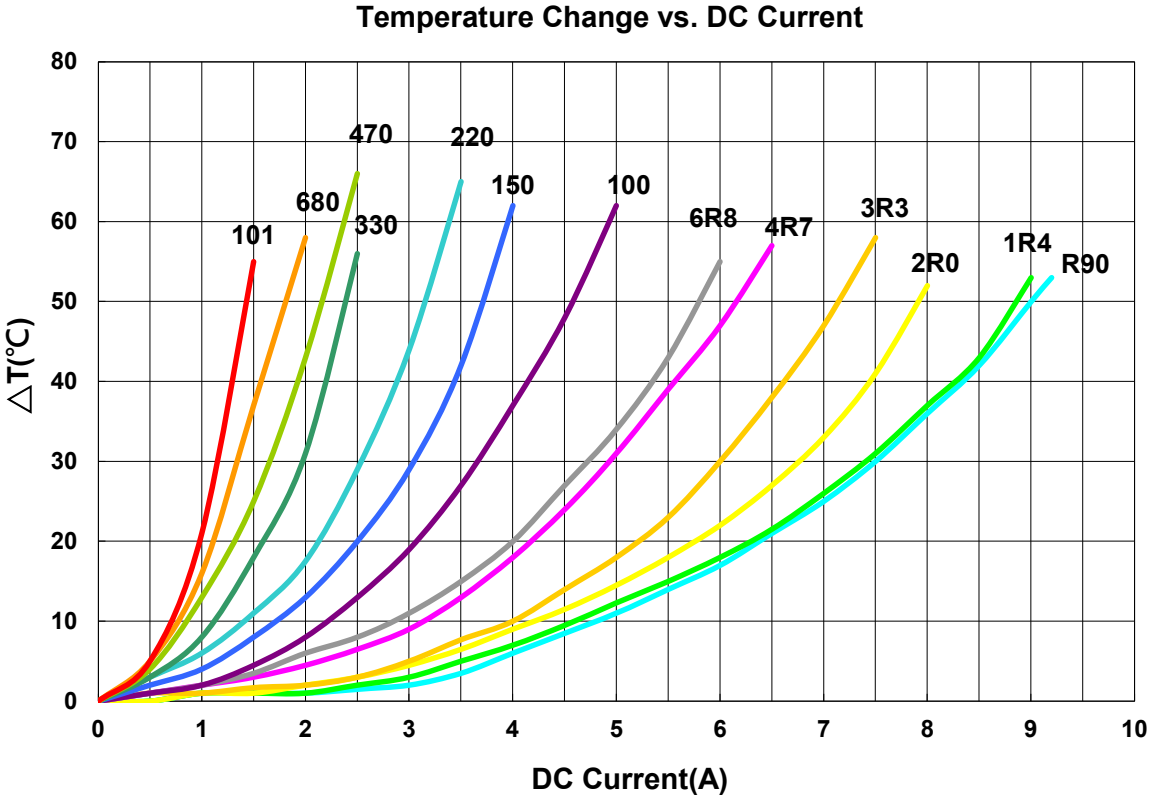
Power Inductor AWVS Series

Automotive
AEC-Q200

LVS808040 - AU Type

■ Characteristics Graph





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Pulse a YAGEO company

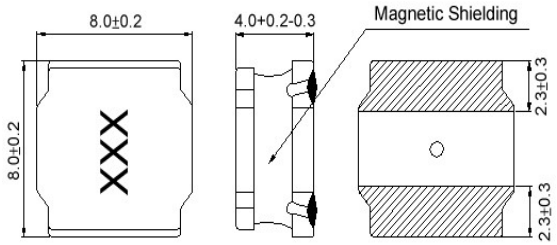
CHILISIN ELECTRONICS CORP.

Power Inductor AWVS Series

Automotive
AEC-Q200

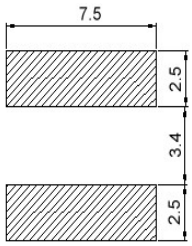
AWVS00808040 - L1 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)Max.	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVS008080401R0□L1	1.0	100kHz,1V	10	9.5(8.40)	8.5(7.50)	30	1R0
AWVS008080402R2□L1	2.2	100kHz,1V	12	7.2(6.30)	7.3(6.40)	20,30	2R2
AWVS008080403R3□L1	3.3	100kHz,1V	19	5.6(4.99)	6.0(5.30)	20,30	3R3
AWVS008080404R7□L1	4.7	100kHz,1V	22	4.4(3.80)	5.0(4.40)	20,30	4R7
AWVS008080408R2□L1	8.2	100kHz,1V	37	3.6(3.10)	3.8(3.30)	20,30	8R2
AWVS008080401L1□L1	10	100kHz,1V	42	3.1(2.60)	3.5(3.00)	20,30	100
AWVS00808040150□L1	15	100kHz,1V	58	2.5(2.10)	3.0(2.60)	20,30	150
AWVS00808040220□L1	22	100kHz,1V	85	2.0(1.70)	2.5(2.10)	20,30	220
AWVS00808040471□L1	470	100kHz,1V	1690	0.65(0.58)	0.67(0.60)	20,30	471

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

1.Operating temperature range －40℃~125℃(Including self - temperature rise)

2. Isat for Inductance drop 30% from its value without current

3. Irms for a 40℃ temperature rise from 25℃ ambient with current

4. Measure Equipment:

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RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent

Isat: Agilent HP4284A

Irms: Agilent HP4284A

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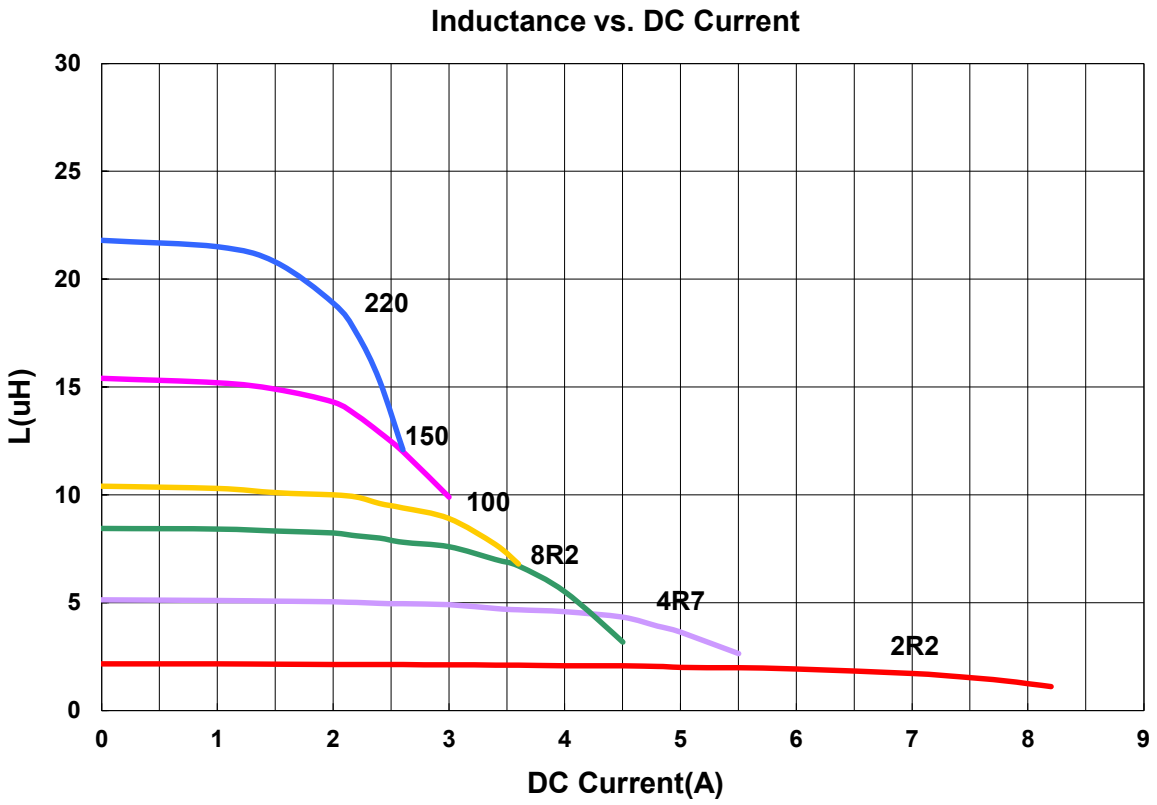
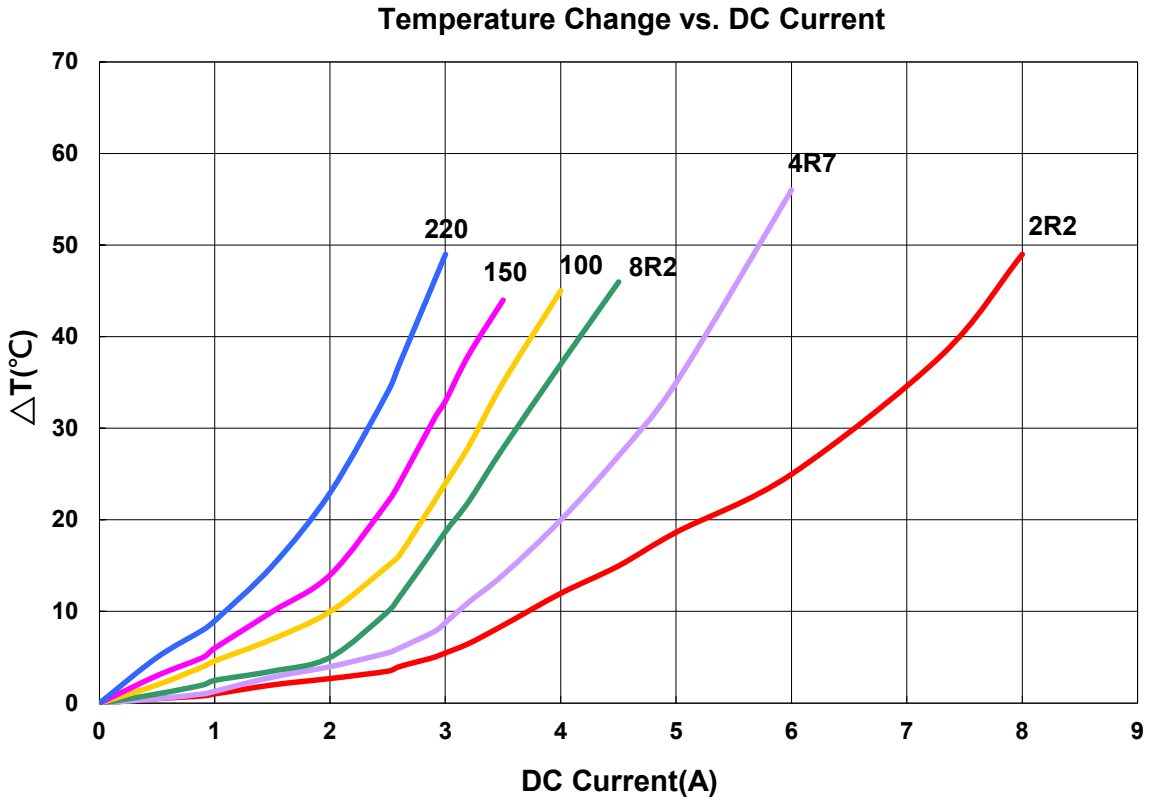
Power Inductor AWVS Series

Automotive
AEC-Q200

AWVS00808040 - L1 Type

■ Characteristics Graph





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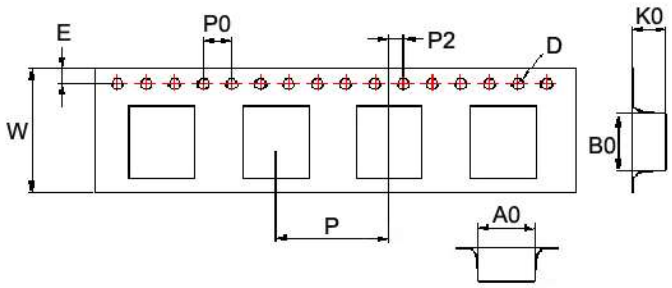
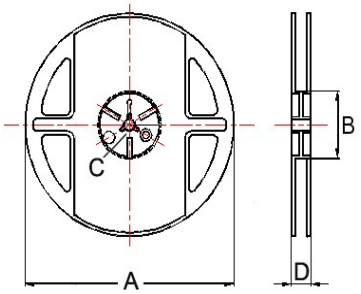
■ Packaging

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
AWVS00322515	2.85	3.56	1.8	1.55	1.75	5.5	8	4	4	2	178	60	9	1.5	2000
AWVS00404012	4.25	4.25	1.3	1.55	1.75	5.5	12	8	4	2	180	60	13	13.2	1000
AWVS00404018	4.25	4.25	2.10	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	800
AWVS00505020	5.25	5.25	2.2	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	2000
AWVS00505040	5.2	5.2	4.2	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	1500
AWVS00606020	6.25	6.25	2.2	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	2000
AWVS00606028	6.25	6.25	3.00	1.55	1.75	7.5	16	12	4	2	330	100	13	16.0	1500
AWVS00606045	6.25	6.25	4.65	1.55	1.75	7.5	16	12	4	2	330	100	13	16.0	1000
AWVS00808040	8.25	8.25	4.15	1.55	1.75	7.5	16	12	4	2	330	100	13	16.0	1000

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Power Inductor AWVF Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Power Circuit | Shield | Magnetic Resin LVx | Ferrite | High Current

Part Numbering

A	WVF	00	404018	1R0	M	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code

Dimensions Code	(mm)
201612	2.0x1.6x1.2
252010	2.5x2.0x1.02
252012	2.5x2.0x1.2
303010	3.0x3.0x1.02
303012	3.0x3.0x1.2
303015	3.0x3.0x1.5
404012	4.0x4.0x102
404015	4.0x4.0x1.5
404018	4.0x4.0x1.9
404026	4.0x4.0x2.6
505020	5.0x5.0x2.0
606020	6.0x6.0x2.0
606028	6.0x6.0x2.8
808040	8.0x8.0x4.0

Inductance	(uH)
R47	0.47
1R0	1.0
101	100

Tolerance	
M	±20%
T	±30%

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Pulse a YAGEO company

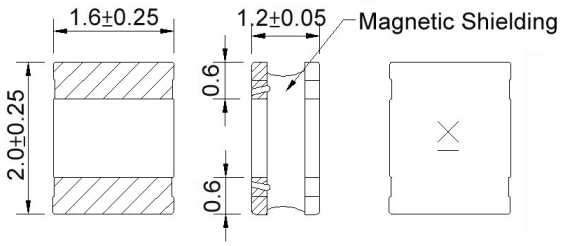
CHILISIN ELECTRONICS CORP.

Power Inductor AWVF Series

Automotive
AEC-Q200

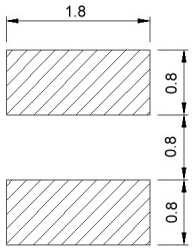
AWVF00201612 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVF00201612R47□00	0.47	1MHz,200mV	0.051	2.70(2.40)	2.30(2.00)	20,30	A
AWVF00201612R68□00	0.68	1MHz,200mV	0.074	2.20(1.90)	2.00(1.80)	20,30	L
AWVF002016121R5□00	1.5	1MHz,200mV	0.130	1.60(1.40)	1.40(1.30)	20,30	D
AWVF002016126R8□00	6.8	1MHz,200mV	0.465	0.82(0.73)	0.78(0.70)	20,30	H

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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Pulse a YAGEO company

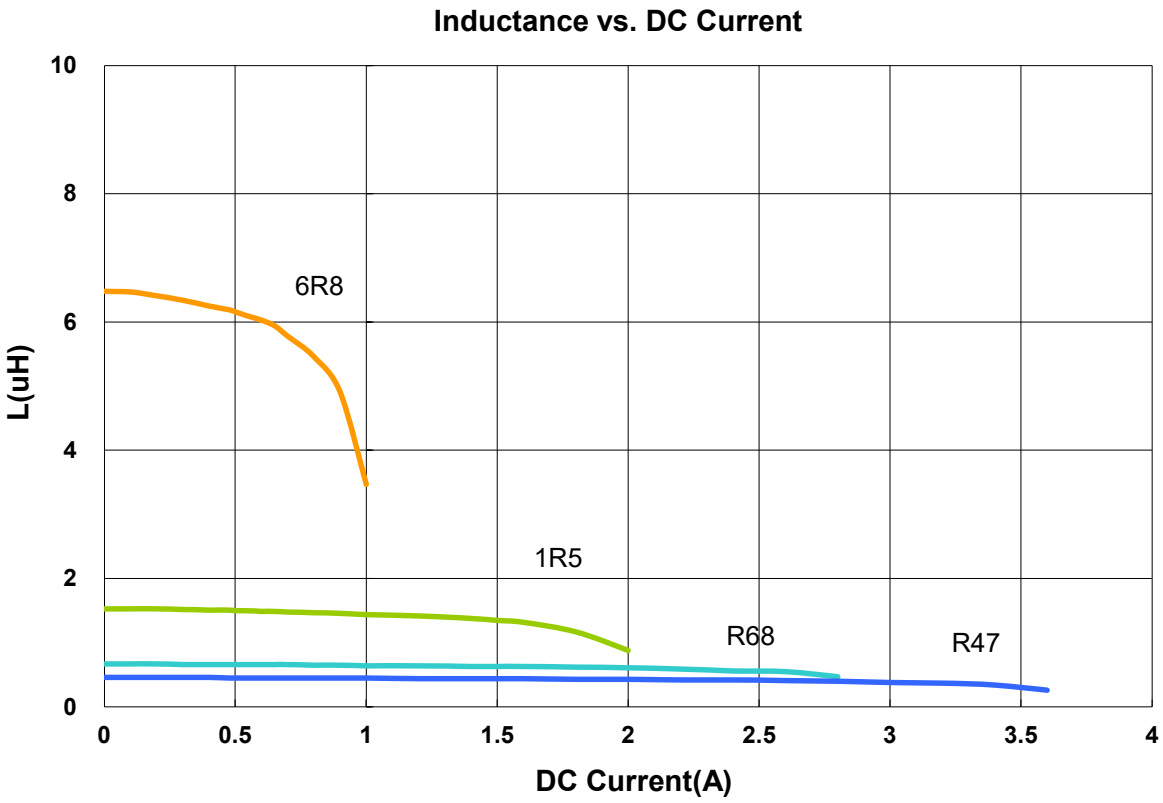
CHILISIN ELECTRONICS CORP.

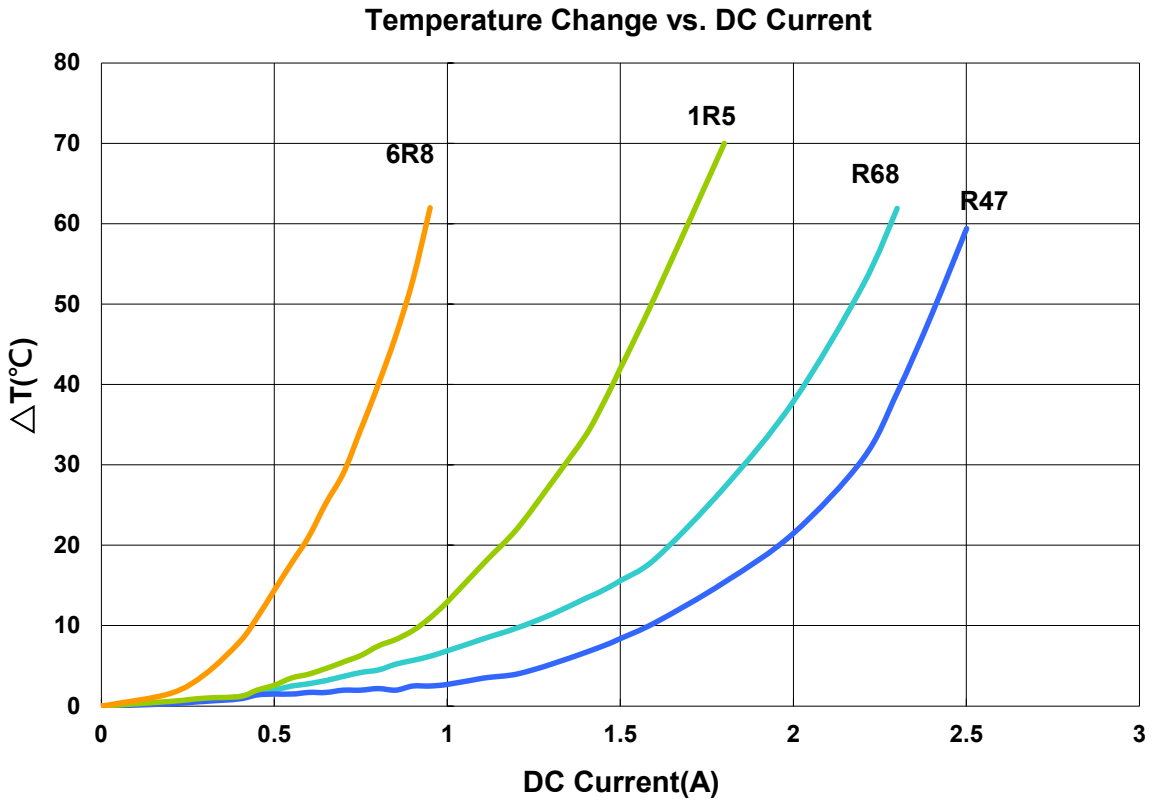
Power Inductor AWVF Series

Automotive
AEC-Q200

AWVF00201612 Type

■ Characteristics Graph





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Pulse a YAGEO company

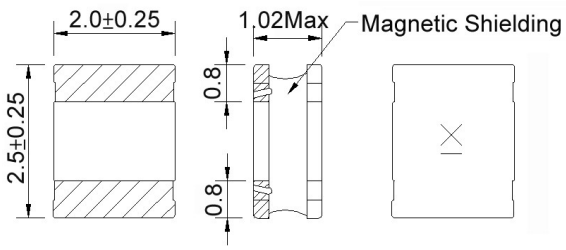
CHILISIN ELECTRONICS CORP.

Power Inductor AWVF Series

Automotive
AEC-Q200

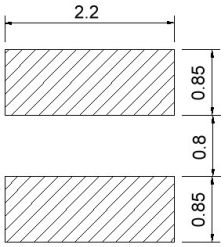
AWVF00252010 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVF00252010R47□00	0.47	1MHz,200mV	0.045	2.80(2.50)	2.30(2.00)	20,30	A
AWVF002520101R0□00	1.0	1MHz,200mV	0.066	1.90(1.70)	2.00(1.80)	20,30	B
AWVF002520101R5□00	1.5	1MHz,200mV	0.095	1.70(1.50)	1.80(1.60)	20,30	C
AWVF002520104R7□00	4.7	1MHz,200mV	0.285	0.92(0.82)	0.95(0.85)	20,30	F
AWVF00252010100□00	10	1MHz,200mV	0.535	0.60(0.54)	0.70(0.63)	20,30	H
AWVF00252010150□00	15	1MHz,200mV	0.810	0.50(0.45)	0.55(0.49)	20,30	I
AWVF00252010220□00	22	1MHz,200mV	1.200	0.40(0.36)	0.44(0.39)	20,30	J

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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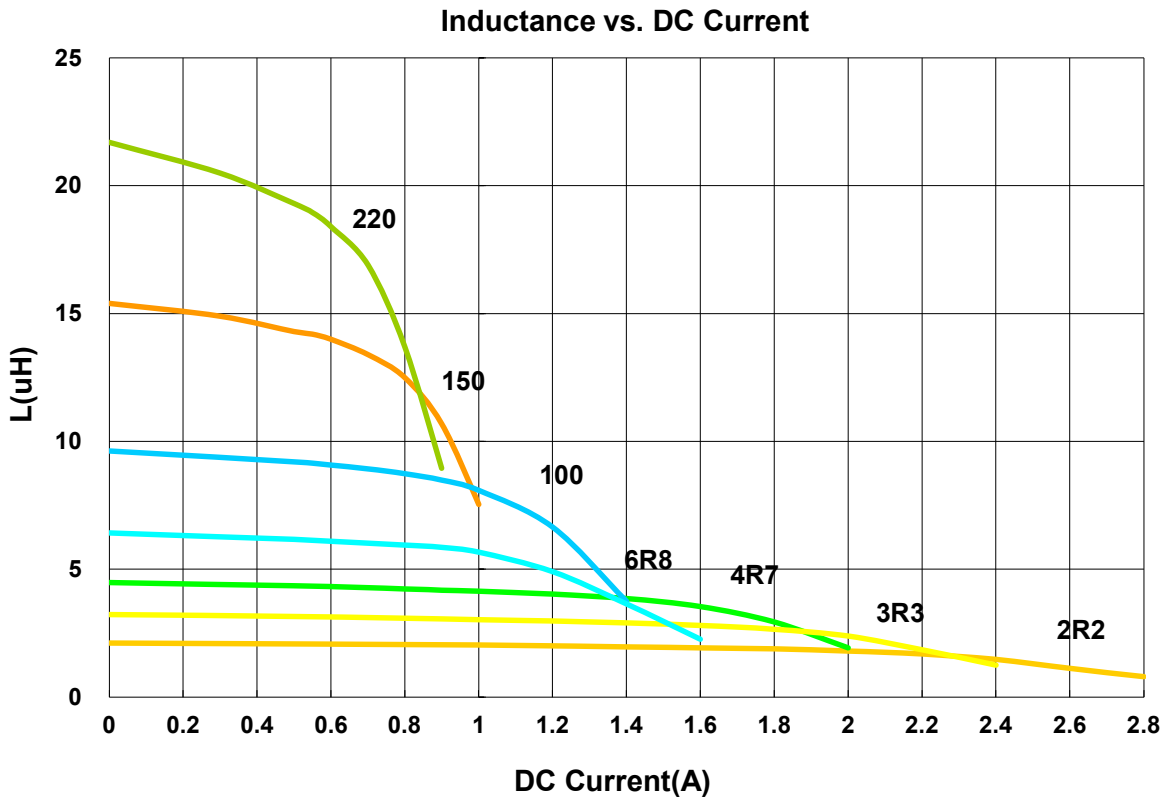
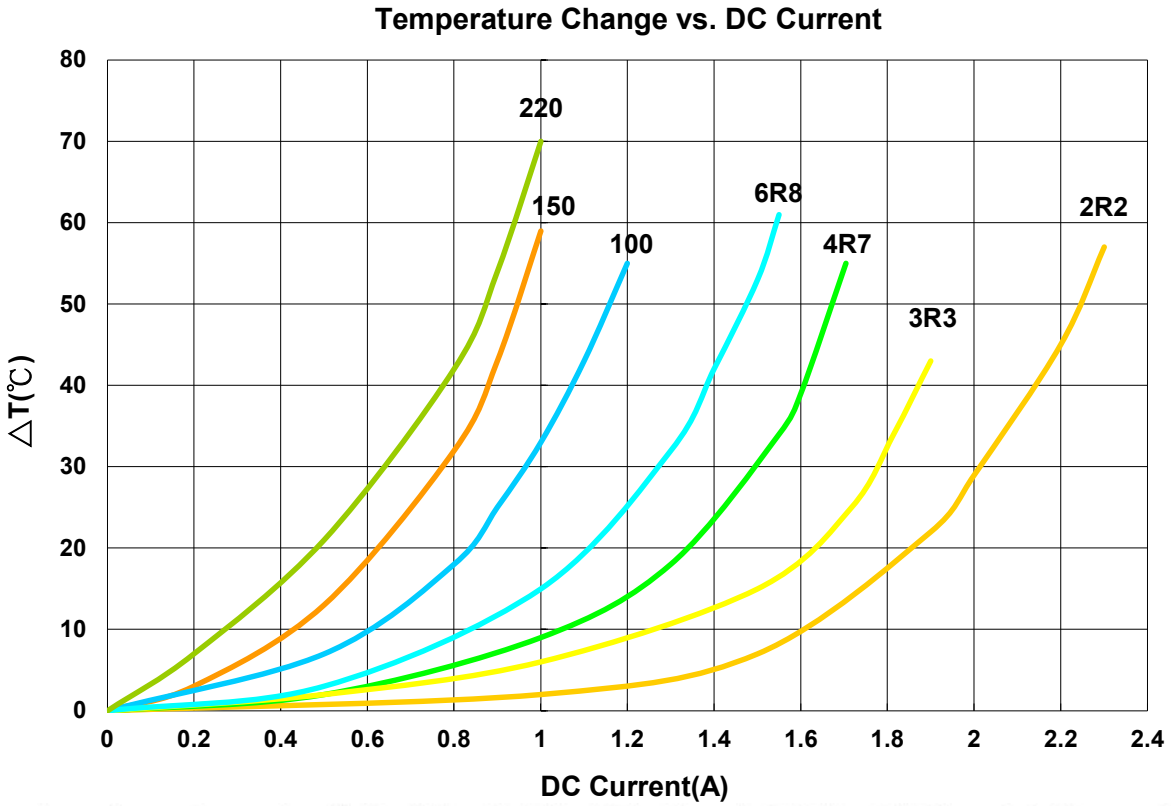
Power Inductor AWVF Series

Automotive
AEC-Q200

AWVF00252010 Type

■ Characteristics Graph





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Pulse a YAGEO company

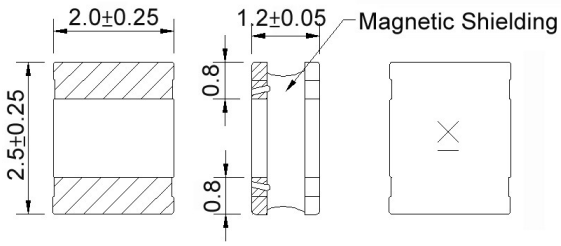
CHILISIN ELECTRONICS CORP.

Power Inductor AWVF Series

Automotive
AEC-Q200

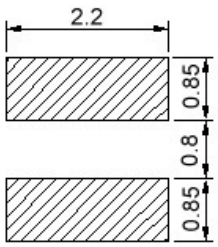
AWVF00252012 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVF00252012R50□00	0.5	1MHz,200mV	0.028	3.50(3.10)	3.00(2.70)	20,30	B
AWVF002520121R0□00	1.0	1MHz,200mV	0.050	2.50(2.20)	2.40(2.10)	20,30	C
AWVF002520121R2□00	1.2	1MHz,200mV	0.053	2.10(1.80)	2.35(2.10)	20,30	D
AWVF002520121R5□00	1.5	1MHz,200mV	0.068	1.95(1.70)	2.30(2.00)	20,30	E
AWVF002520122R2□00	2.2	1MHz,200mV	0.080	1.80(1.60)	1.80(1.60)	20,30	F
AWVF002520123R3□00	3.3	1MHz,200mV	0.130	1.45(1.20)	1.50(1.30)	20,30	G
AWVF002520124R7□00	4.7	1MHz,200mV	0.190	1.10(0.98)	1.10(0.98)	20,30	H
AWVF002520125R6□00	5.6	1MHz,200mV	0.210	1.05(0.93)	1.00(0.89)	20,30	I
AWVF002520126R8□00	6.8	1MHz,200mV	0.300	0.95(0.84)	0.80(0.71)	20,30	J
AWVF00252012100□00	10	1MHz,200mV	0.385	0.88(0.78)	0.70(0.62)	20,30	K
AWVF00252012150□00	15	1MHz,200mV	0.570	0.68(0.60)	0.62(0.54)	20,30	L
AWVF00252012220□00	22	1MHz,200mV	0.810	0.55(0.48)	0.53(0.46)	20,30	M

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

1. Operating temperature range －40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient.
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: Digital Milliohm Meter Chroma 16502, or equivalent
   Isat: Agilent/HP4284A
   Irms: Agilent/HP4284A

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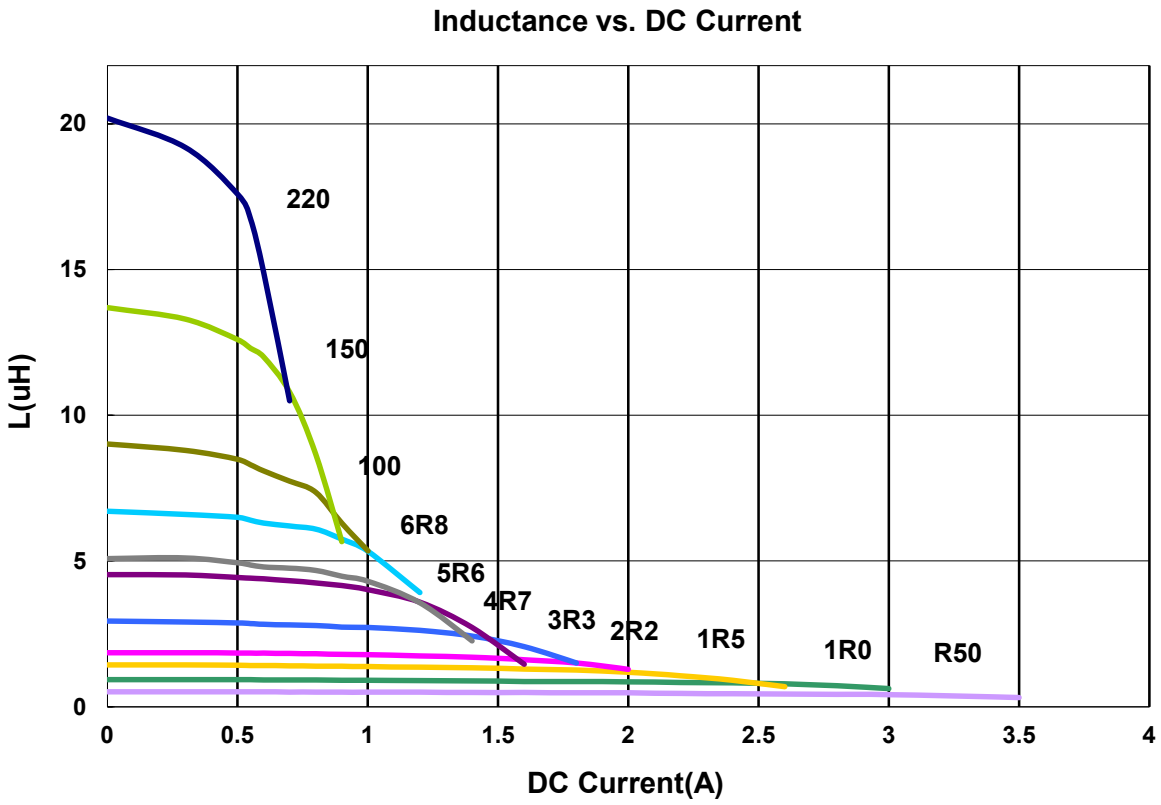
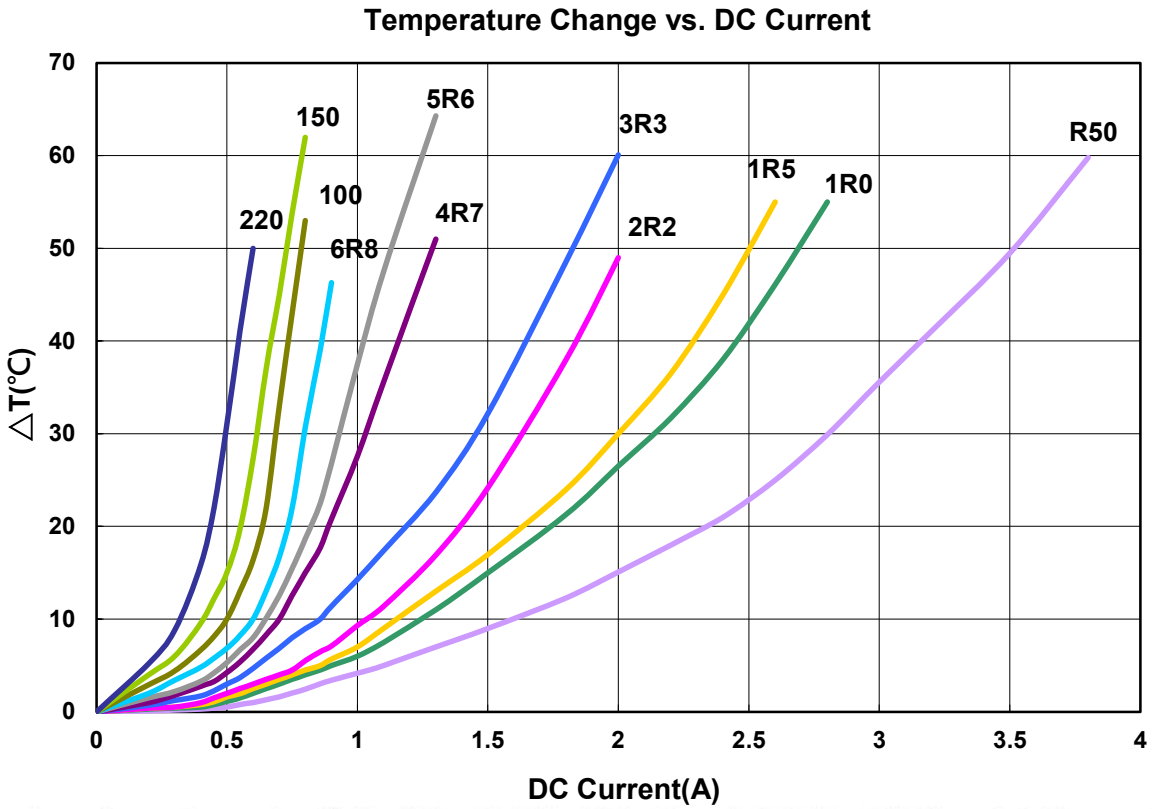
Power Inductor AWVF Series

Automotive
AEC-Q200

AWVF00252012 Type

■ Characteristics Graph





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Pulse a YAGEO company

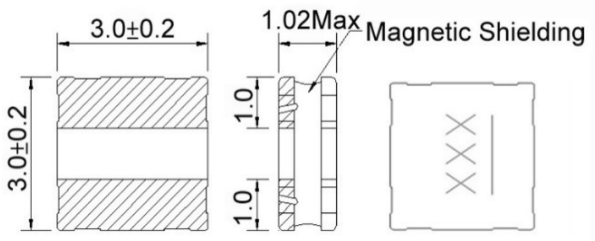
CHILISIN ELECTRONICS CORP.

Power Inductor AWVF Series

Automotive
AEC-Q200

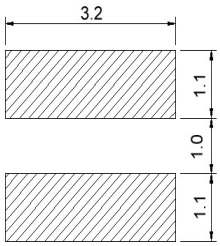
AWVF00303010 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVF003030101R5□00	1.5	1MHz,200mV	0.085	1.80(1.60)	1.70(1.50)	20,30	1R5
AWVF003030102R2□00	2.2	1MHz,200mV	0.100	1.50(1.30)	1.40(1.20)	20,30	2R2
AWVF003030104R7□00	4.7	1MHz,200mV	0.205	1.00(0.90)	0.95(0.85)	20,30	4R7
AWVF003030106R8□00	6.8	1MHz,200mV	0.310	0.87(0.78)	0.85(0.76)	20,30	6R8
AWVF00303010100□00	10	1MHz,200mV	0.430	0.64(0.57)	0.63(0.56)	20,30	100
AWVF00303010150□00	15	1MHz,200mV	0.625	0.56(0.50)	0.55(0.49)	20,30	150
AWVF00303010220□00	22	1MHz,200mV	0.870	0.47(0.42)	0.46(0.41)	20,30	220
AWVF00303010470□00	47	1MHz,200mV	1.750	0.29(0.26)	0.28(0.25)	20,30	470

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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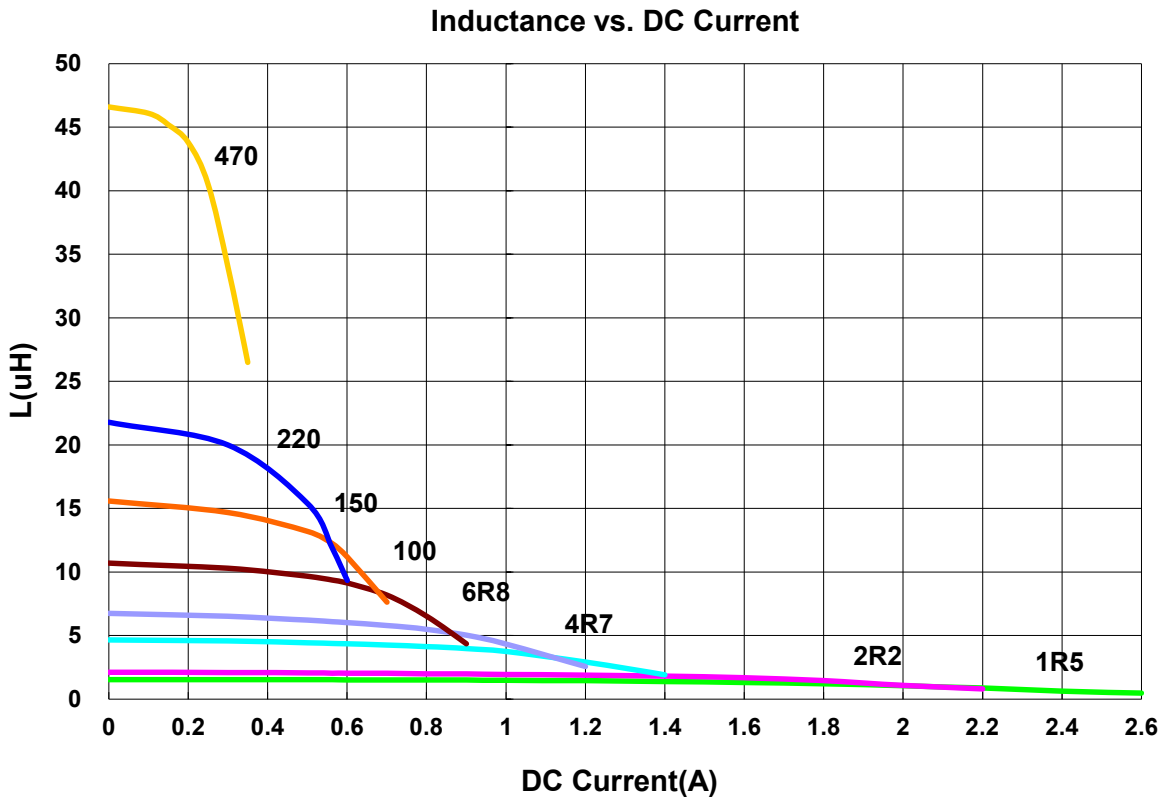
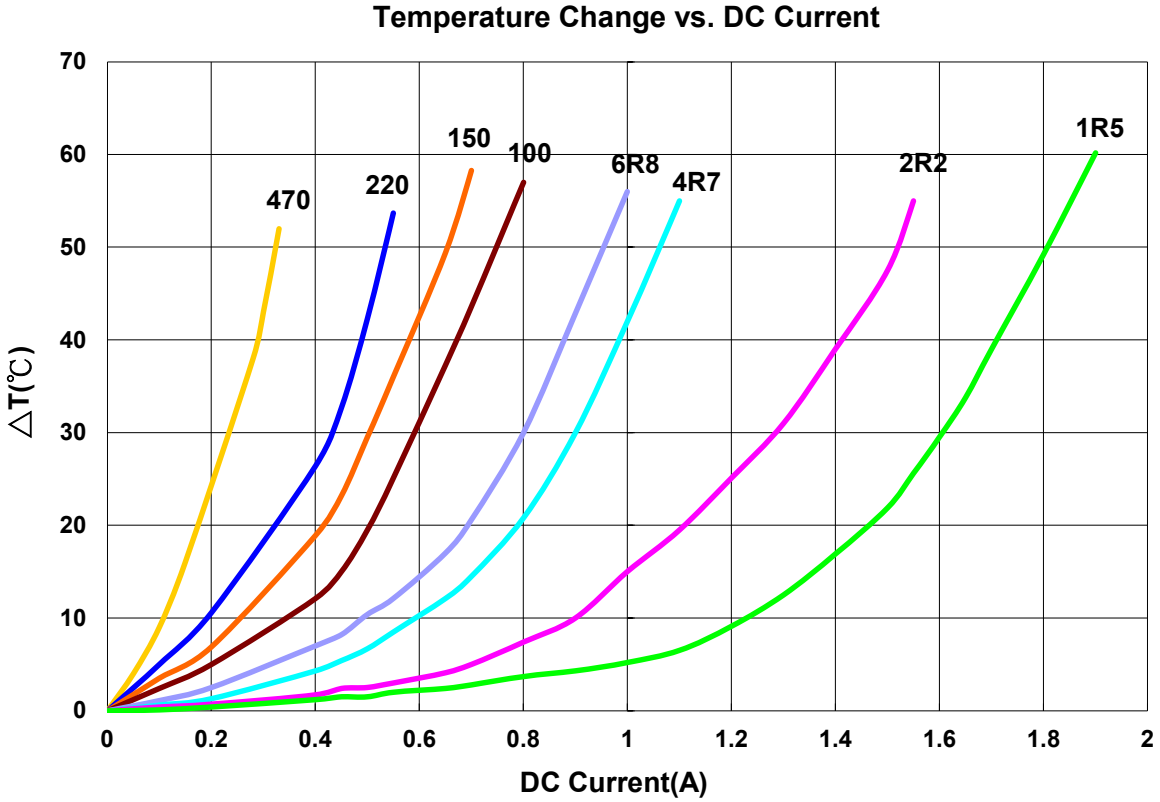
Power Inductor AWVF Series

Automotive
AEC-Q200

AWVF00303010 Type

■ Characteristics Graph





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Pulse a YAGEO company

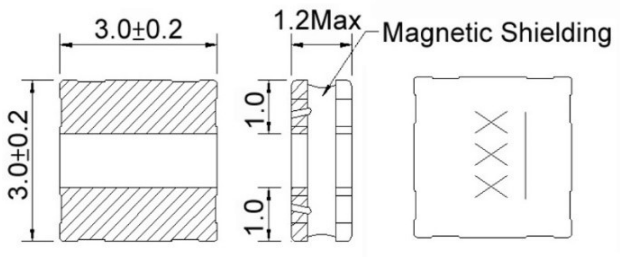
CHILISIN ELECTRONICS CORP.

Power Inductor AWVF Series

Automotive
AEC-Q200

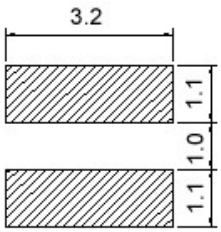
AWVF00303012 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVF003030122R2□00	2.2	1MHz,200mV	0.092	2.10(1.80)	2.00(1.80)	20,30	2R2
AWVF003030123R3□00	3.3	1MHz,200mV	0.130	1.84(1.60)	1.80(1.60)	20,30	3R3
AWVF003030124R7□00	4.7	1MHz,200mV	0.180	1.56(1.40)	1.52(1.30)	20,30	4R7
AWVF003030126R8□00	6.8	1MHz,200mV	0.250	1.32(1.10)	1.30(1.10)	20,30	6R8
AWVF00303012100□00	10	1MHz,200mV	0.420	1.06(0.95)	1.00(0.90)	20,30	100
AWVF00303012150□00	15	1MHz,200mV	0.560	0.82(0.73)	0.80(0.72)	20,30	150
AWVF00303012220□00	22	1MHz,200mV	0.860	0.64(0.57)	0.62(0.55)	20,30	220
AWVF00303012470□00	47	1MHz,200mV	1.820	0.49(0.44)	0.43(0.38)	20,30	470

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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Pulse a YAGEO company

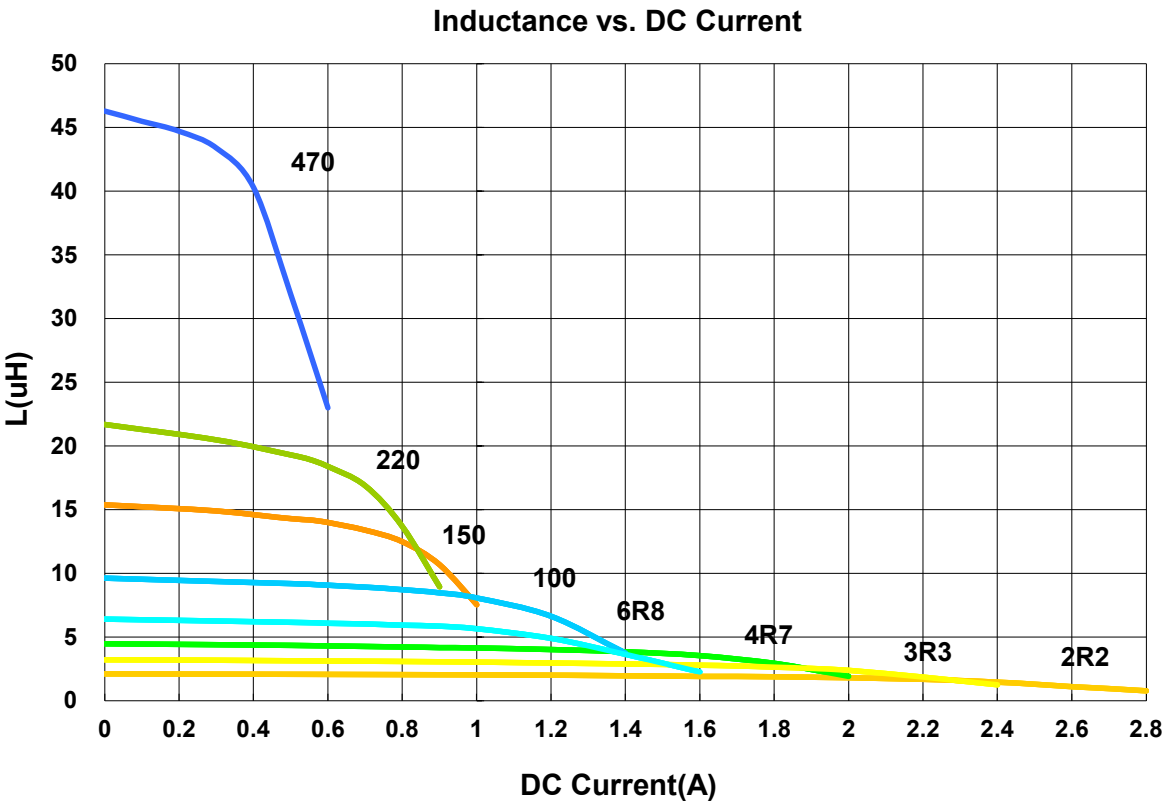
CHILISIN ELECTRONICS CORP.

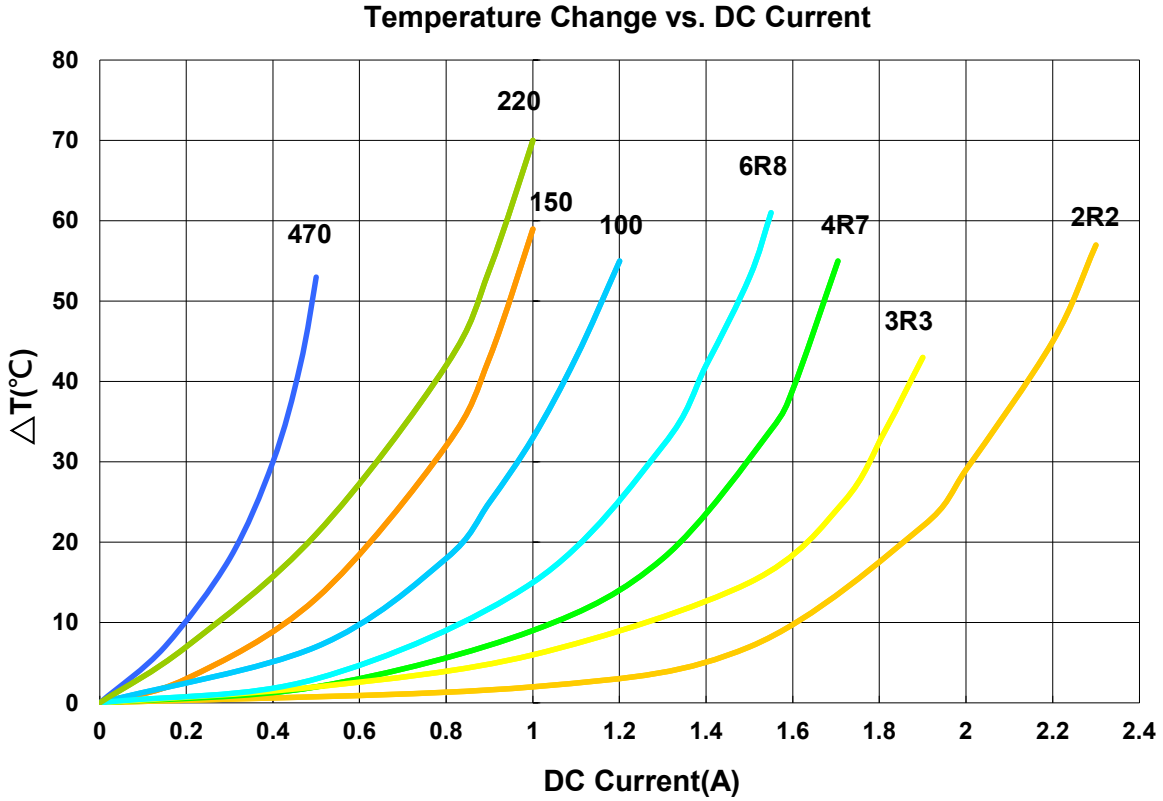
Power Inductor AWVF Series

Automotive
AEC-Q200

AWVF00303012 Type

■ Characteristics Graph





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Pulse a YAGEO company

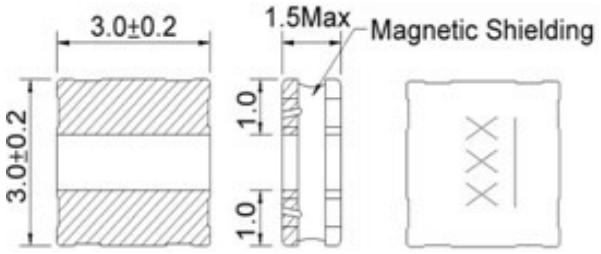
CHILISIN ELECTRONICS CORP.

Power Inductor AWVF Series

Automotive
AEC-Q200

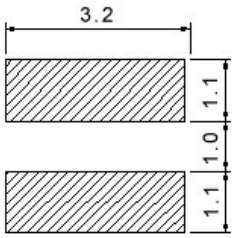
AWVF00303015 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVF00303015R47□00	0.47	1MHz,200mV	0.036	4.70(4.20)	4.00(3.60)	20,30	R47
AWVF003030151R0□00	1.0	1MHz,200mV	0.054	3.40(3.00)	3.00(2.70)	20,30	1R0
AWVF003030151R5□00	1.5	1MHz,200mV	0.063	3.00(2.70)	2.60(2.30)	20,30	1R5
AWVF003030152R2□00	2.2	1MHz,200mV	0.09	2.30(2.00)	2.00(1.80)	20,30	2R2
AWVF003030153R3□00	3.3	1MHz,200mV	0.125	1.90(1.70)	1.80(1.60)	20,30	3R3
AWVF003030154R7□00	4.7	1MHz,200mV	0.17	1.58(1.40)	1.52(1.30)	20,30	4R7
AWVF003030156R8□00	6.8	1MHz,200mV	0.235	1.34(1.20)	1.30(1.10)	20,30	6R8
AWVF00303015100□00	10	1MHz,200mV	0.36	1.06(0.95)	1.00(0.90)	20,30	100
AWVF00303015150□00	15	1MHz,200mV	0.55	0.90(0.81)	0.8(0.72)	20,30	150
AWVF00303015220□00	22	1MHz,200mV	0.77	0.76(0.68)	0.65(0.58)	20,30	220
AWVF00303015330□00	33	1MHz,200mV	0.93	0.65(0.58)	0.6(0.54)	20,30	330
AWVF00303015470□00	47	1MHz,200mV	1.5	0.52(0.46)	0.42(0.37)	20,30	470
AWVF00303015101□00	100	1MHz,200mV	2.7	0.36(0.32)	0.30(0.27)	20,30	101

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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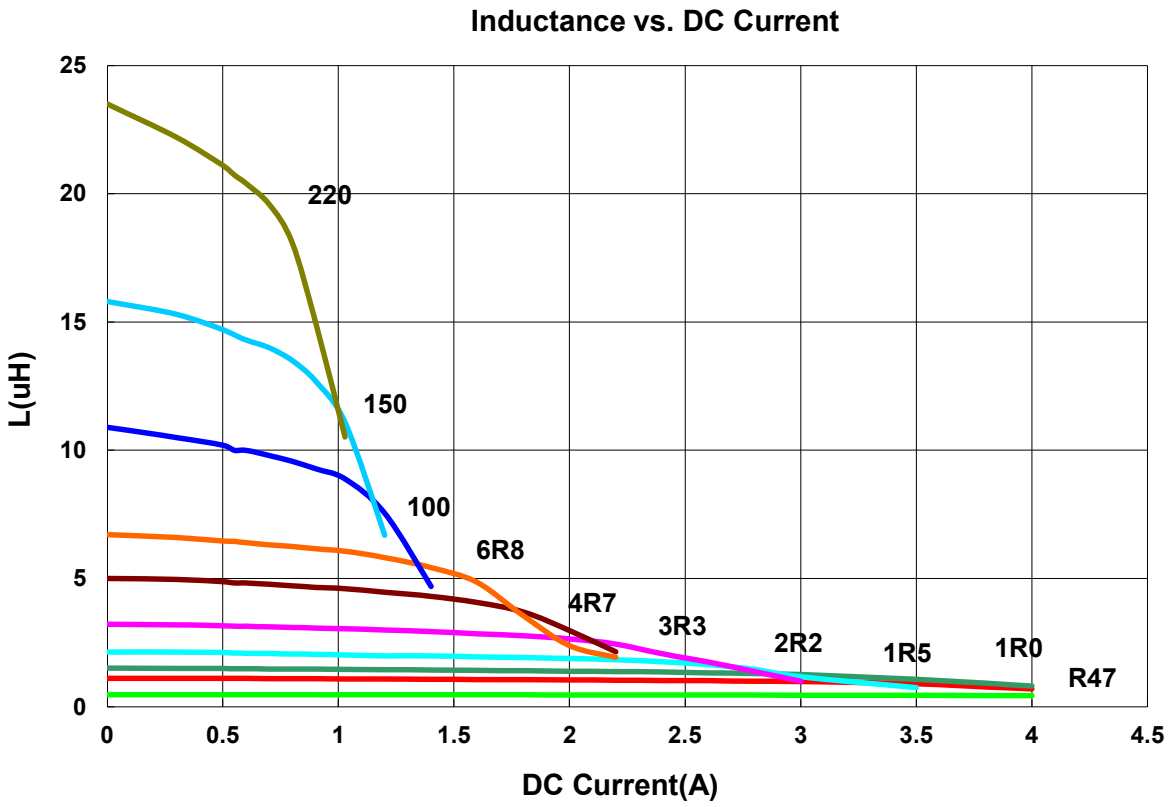
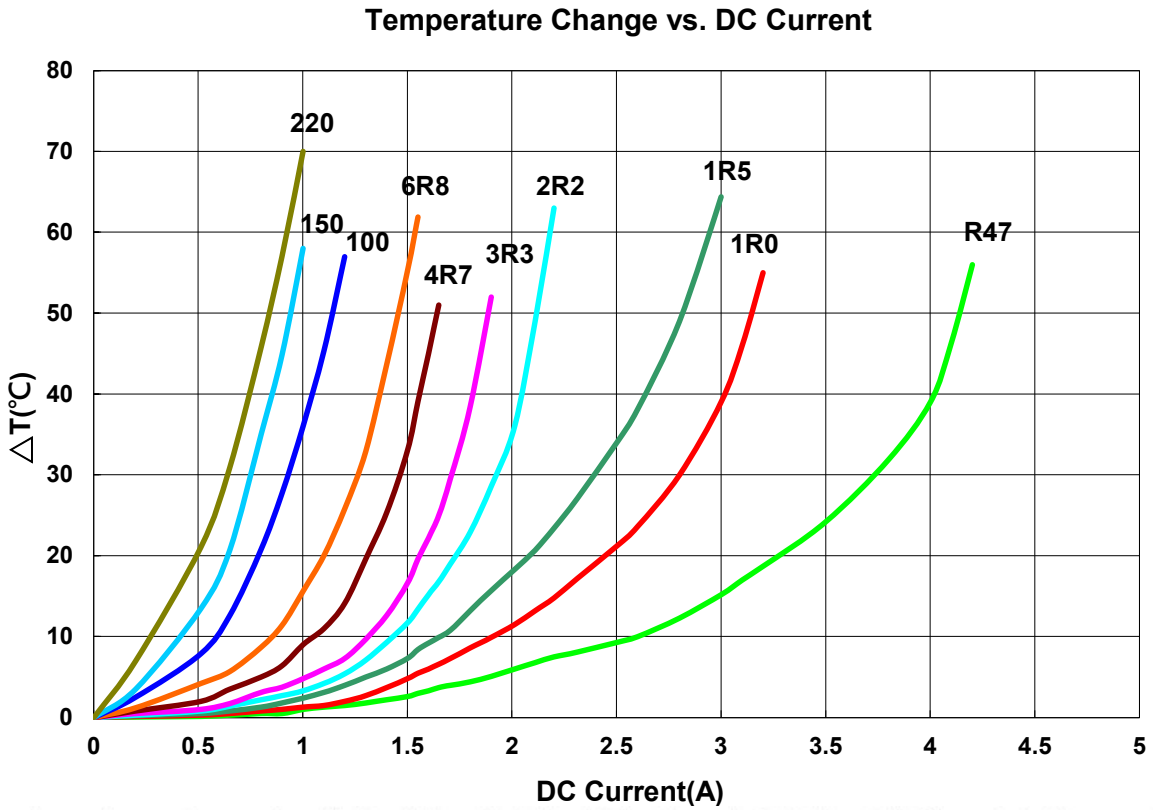
Power Inductor AWVF Series

Automotive
AEC-Q200

AWVF00303015 Type

■ Characteristics Graph





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Pulse a YAGEO company

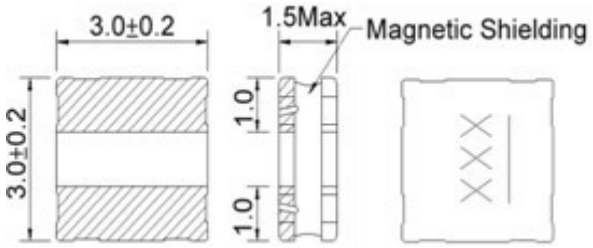
CHILISIN ELECTRONICS CORP.

Power Inductor AWVF Series

Automotive
AEC-Q200

AWVF00303015-L1 Type

■ Dimensions



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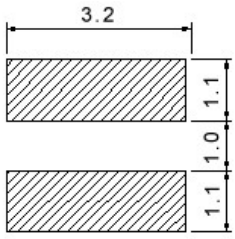
■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVF00303015R24□L1	0.24	1MHz,200mV	0.023	6.0(5.4)	4.3(3.8)	20,30	R24
AWVF00303015R47□L1	0.5	1MHz,200mV	0.03	4.3(3.9)	3.7(3.3)	20,30	R47
AWVF00303015R68□L1	0.68	1MHz,200mV	0.036	3.8(3.4)	3.3(2.9)	20,30	R68
AWVF003030151R0□L1	1	1MHz,200mV	0.038	2.7(2.4)	3.2(2.9)	20,30	1R0
AWVF003030152R2□L1	2.2	1MHz,200mV	0.06	2.0(1.8)	2.8(2.5)	20,30	2R2
AWVF003030153R3□L1	3.3	1MHz,200mV	0.095	1.8(1.6)	2.0(1.8)	20,30	3R3
AWVF003030154R7□L1	4.7	1MHz,200mV	0.12	1.5(1.3)	1.7(1.5)	20,30	4R7
AWVF003030156R8□L1	6.8	1MHz,200mV	0.16	1.2(1.0)	1.4(1.2)	20,30	6R8
AWVF00303015100□L1	10	1MHz,200mV	0.22	1.0(0.9)	1.1(0.99)	20,30	100
AWVF00303015150□L1	15	1MHz,200mV	0.36	0.80(0.72)	0.95(0.85)	20,30	150
AWVF00303015220□L1	22	1MHz,200mV	0.5	0.68(0.61)	0.80(0.72)	20,30	220
AWVF00303015330□L1	33	1MHz,200mV	0.7	0.55(0.49)	0.67(0.60)	20,30	330
AWVF00303015470□L1	47	1MHz,200mV	1	0.45(0.40)	0.56(0.50)	20,30	470
AWVF00303015560□L1	56	1MHz,200mV	1.1	0.40(0.36)	0.54(0.48)	20,30	560
AWVF00303015680□L1	68	1MHz,200mV	1.4	0.37(0.33)	0.52(0.46)	20,30	680
AWVF00303015101□L1	100	1MHz,200mV	1.7	0.30(0.27)	0.45(0.40)	20,30	101
AWVF00303015151□L1	150	1MHz,200mV	3.2	0.22(0.19)	0.30(0.27)	20,30	151

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: HP 4285A+HP 42841A
   Irms: HP 4285A+HP 42841A

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Pulse a YAGEO company

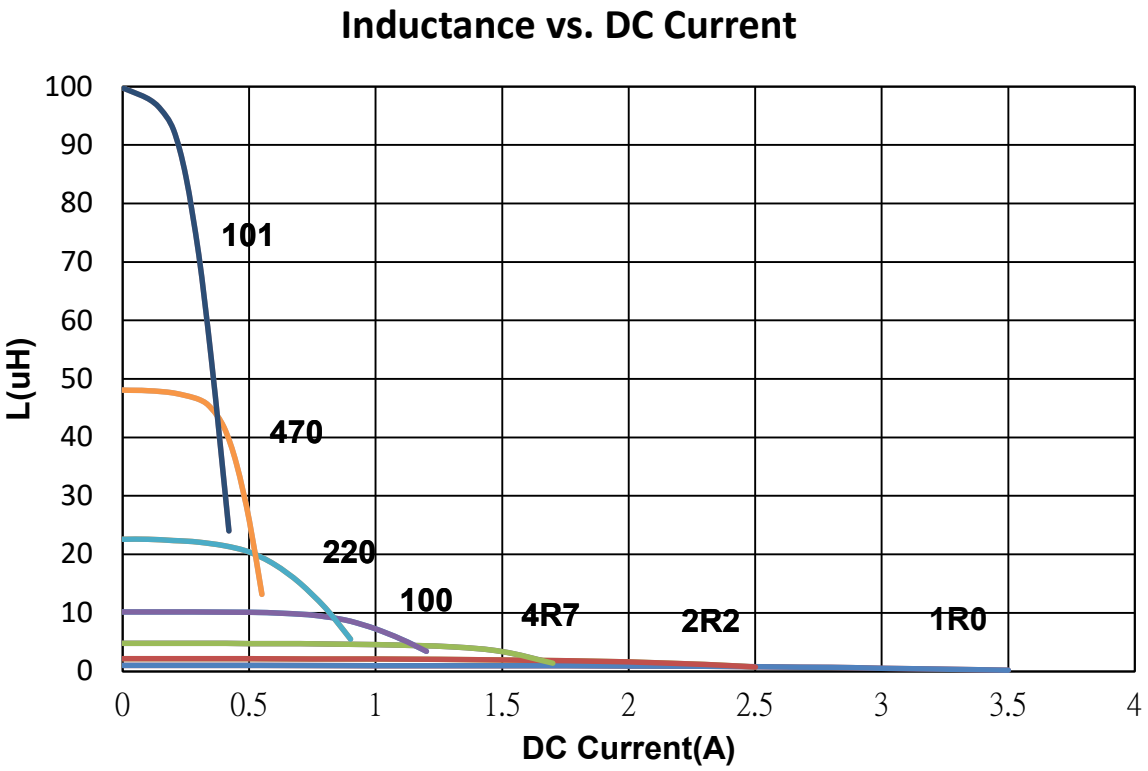
CHILISIN ELECTRONICS CORP.

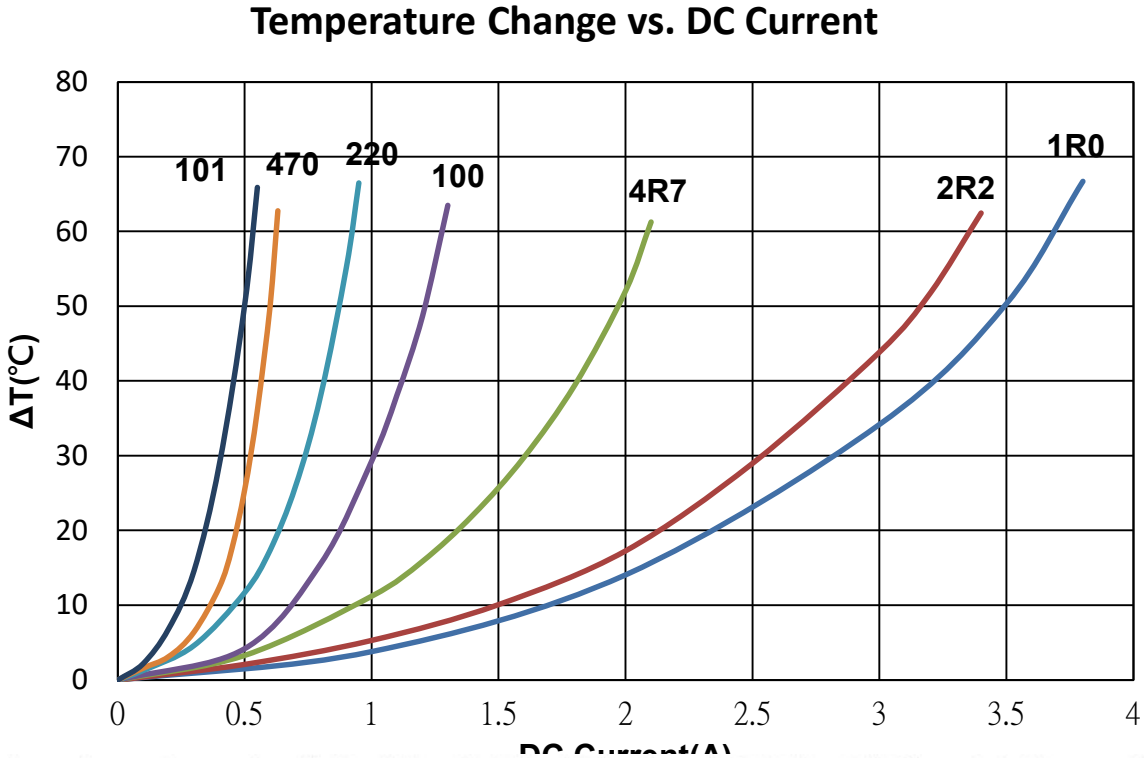
Power Inductor AWVF Series

Automotive
AEC-Q200

AWVF00303015-L1 Type

■ Characteristics Graph





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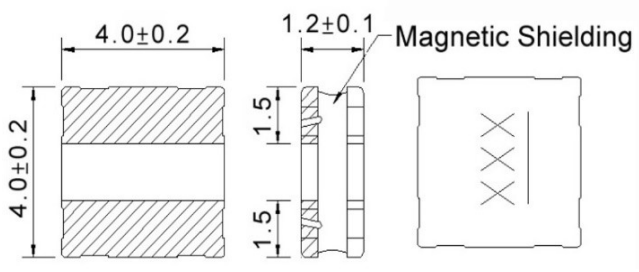
CHILISIN ELECTRONICS CORP.

Power Inductor AWVF Series

Automotive
AEC-Q200

AWVF00404012 Type

■ Dimensions



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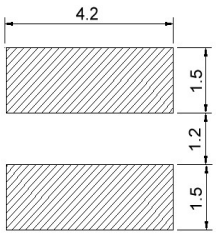
■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVF004040123R3□00	3.3	1MHz,200mV	0.072	1.5(1.30)	2.1(1.80)	20,30	3R3
AWVF00404012100□00	10	1MHz,200mV	0.190	0.9(0.81)	1.2(1.00)	20,30	100

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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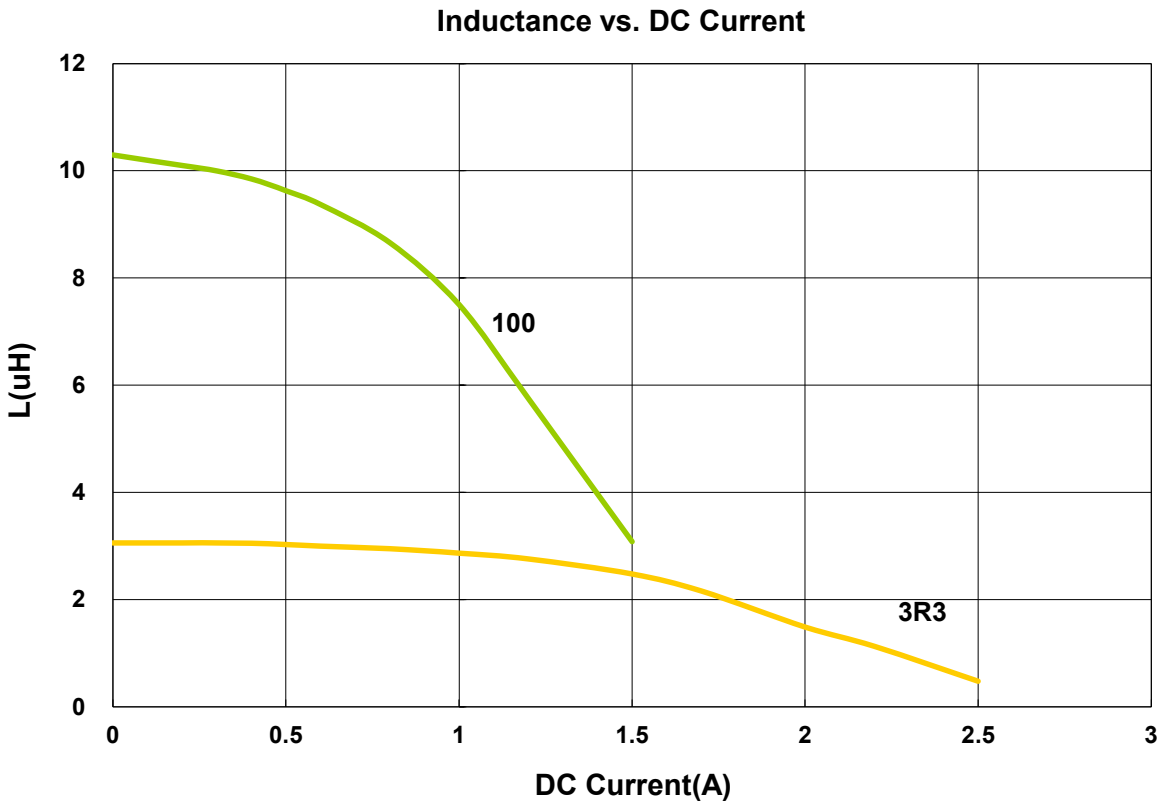
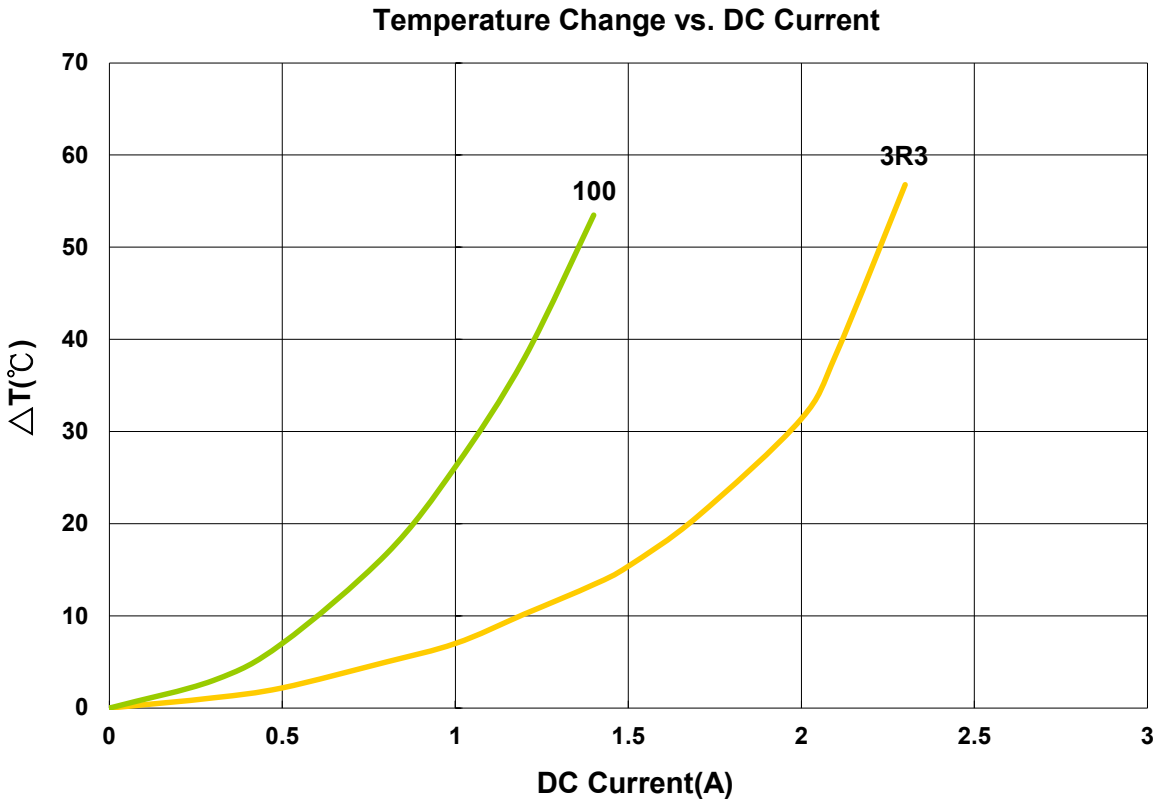
Power Inductor AWVF Series

Automotive
AEC-Q200

AWVF00404012 Type

■ Characteristics Graph





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Pulse a YAGEO company

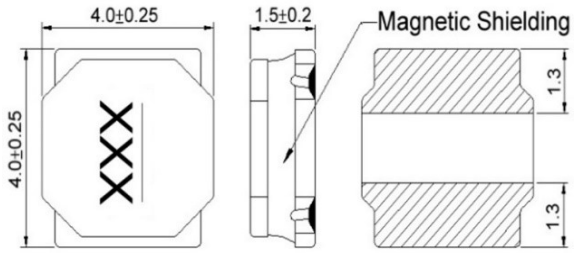
CHILISIN ELECTRONICS CORP.

Power Inductor AWVF Series

Automotive
AEC-Q200

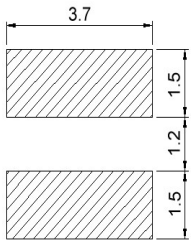
AWVF00404015 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVF00404015R47□00	0.47	1MHz,200mV	0.019	4.00(3.60)	4.2(3.70)	20,30	R47
AWVF004040151R5□00	1.5	1MHz,200mV	0.041	3.00(2.70)	3.2(2.80)	20,30	1R5
AWVF004040152R2□00	2.2	1MHz,200mV	0.054	2.30(2.00)	2.6(2.30)	20,30	2R2
AWVF004040154R7□00	4.7	1MHz,200mV	0.100	1.60(1.40)	1.8(1.60)	20,30	4R7
AWVF004040156R8□00	6.8	1MHz,200mV	0.138	1.40(1.20)	1.6(1.40)	20,30	6R8
AWVF00404015100□00	10	1MHz,200mV	0.200	1.00(0.90)	1.2(1.00)	20,30	100
AWVF00404015150□00	15	1MHz,200mV	0.300	0.92(0.82)	1.0(0.94)	20,30	150
AWVF00404015220□00	22	1MHz,200mV	0.400	0.72(0.64)	0.85(0.76)	20,30	220

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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Pulse a YAGEO company

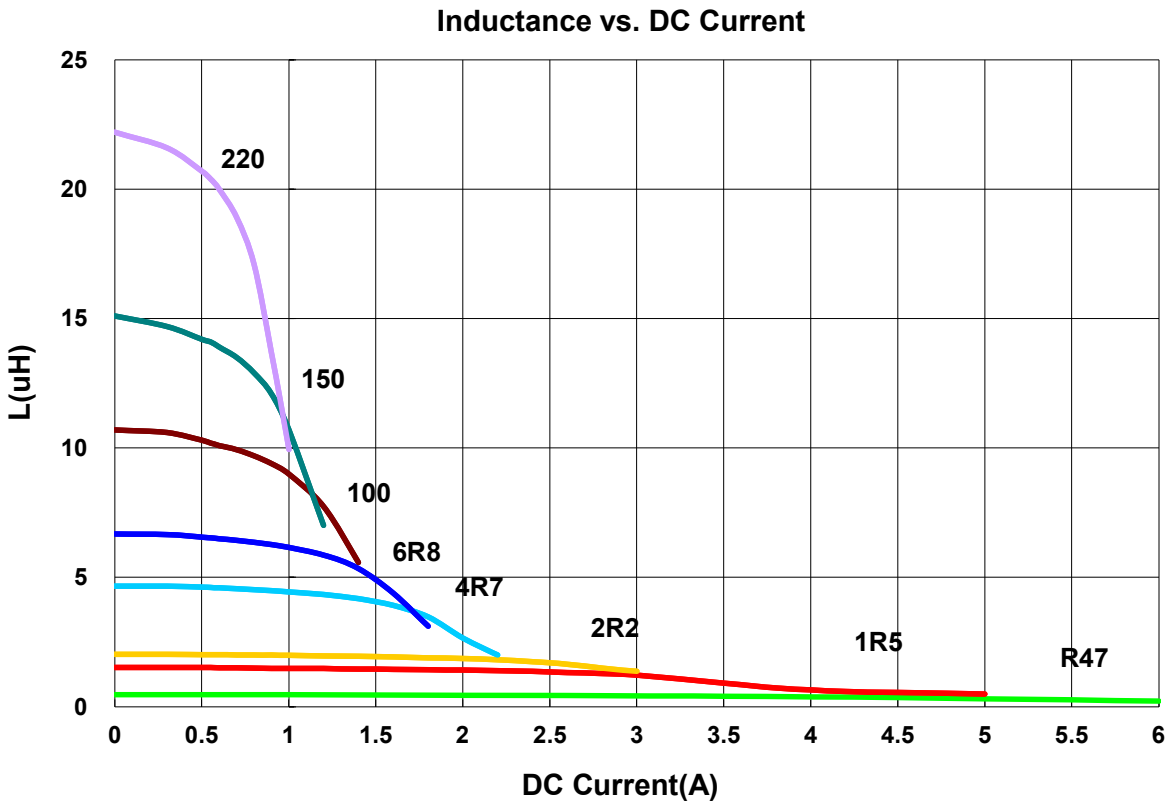
CHILISIN ELECTRONICS CORP.

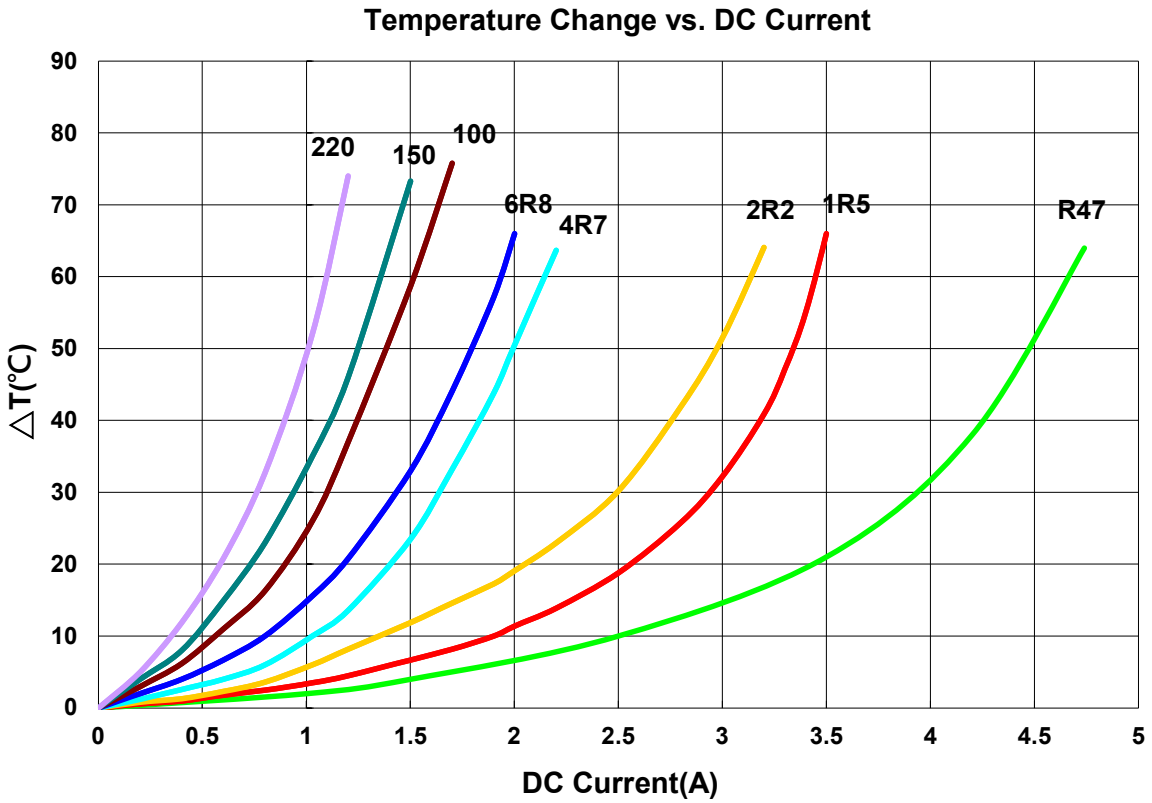
Power Inductor AWVF Series

Automotive
AEC-Q200

AWVF00404015 Type

■ Characteristics Graph





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Pulse a YAGEO company

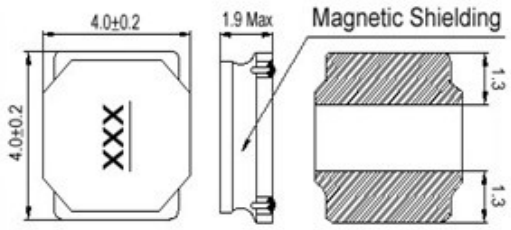
CHILISIN ELECTRONICS CORP.

Power Inductor AWVF Series

Automotive
AEC-Q200

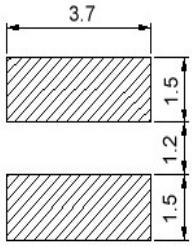
AWVF00404018 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVF004040181R0□00	1.0	100kHz,1V	0.0265	4.20(3.70)	3.80(3.40)	20,30	1R0
AWVF004040181R5□00	1.5	100kHz,1V	0.0370	3.50(3.10)	3.20(2.80)	20,30	1R5
AWVF004040182R2□00	2.2	100kHz,1V	0.0470	3.00(2.70)	2.70(2.40)	20,30	2R2
AWVF004040183R3□00	3.3	100kHz,1V	0.0625	2.30(2.00)	2.10(1.80)	20,30	3R3
AWVF00404018220□00	22	100kHz,1V	0.335	0.90(0.81)	0.88(0.79)	20,30	220

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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Pulse a YAGEO company

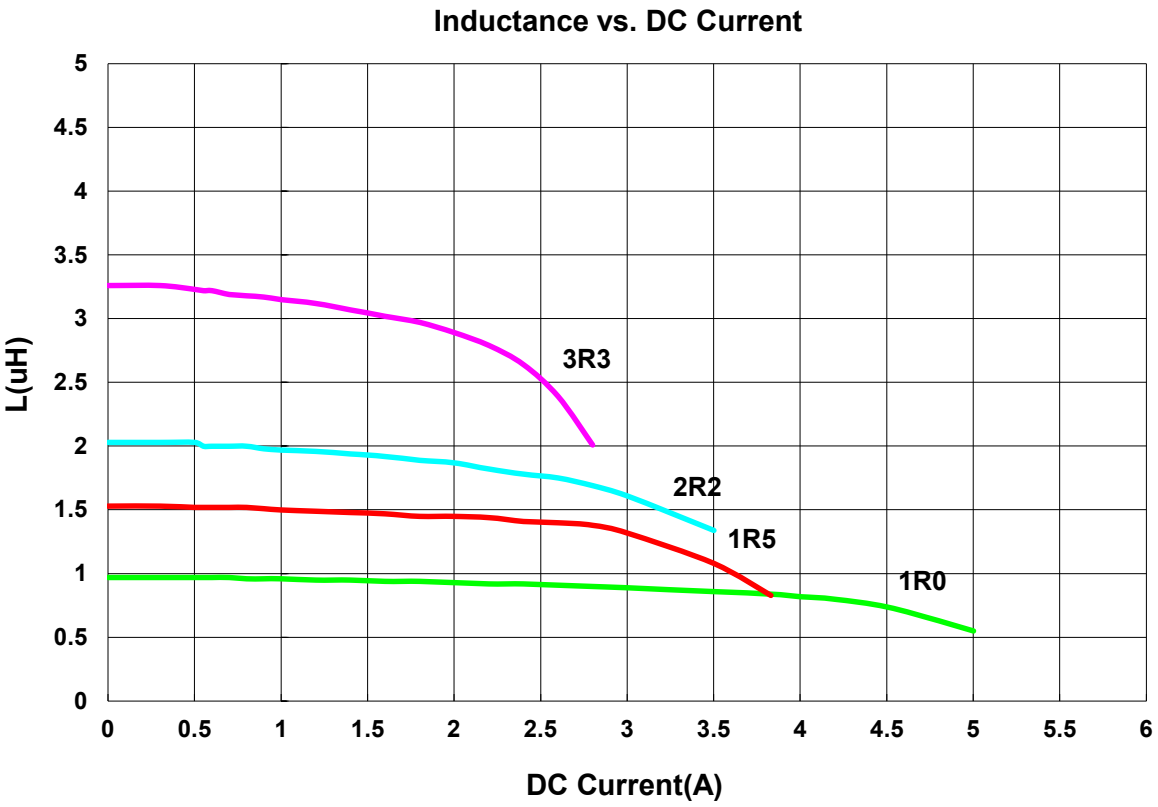
CHILISIN ELECTRONICS CORP.

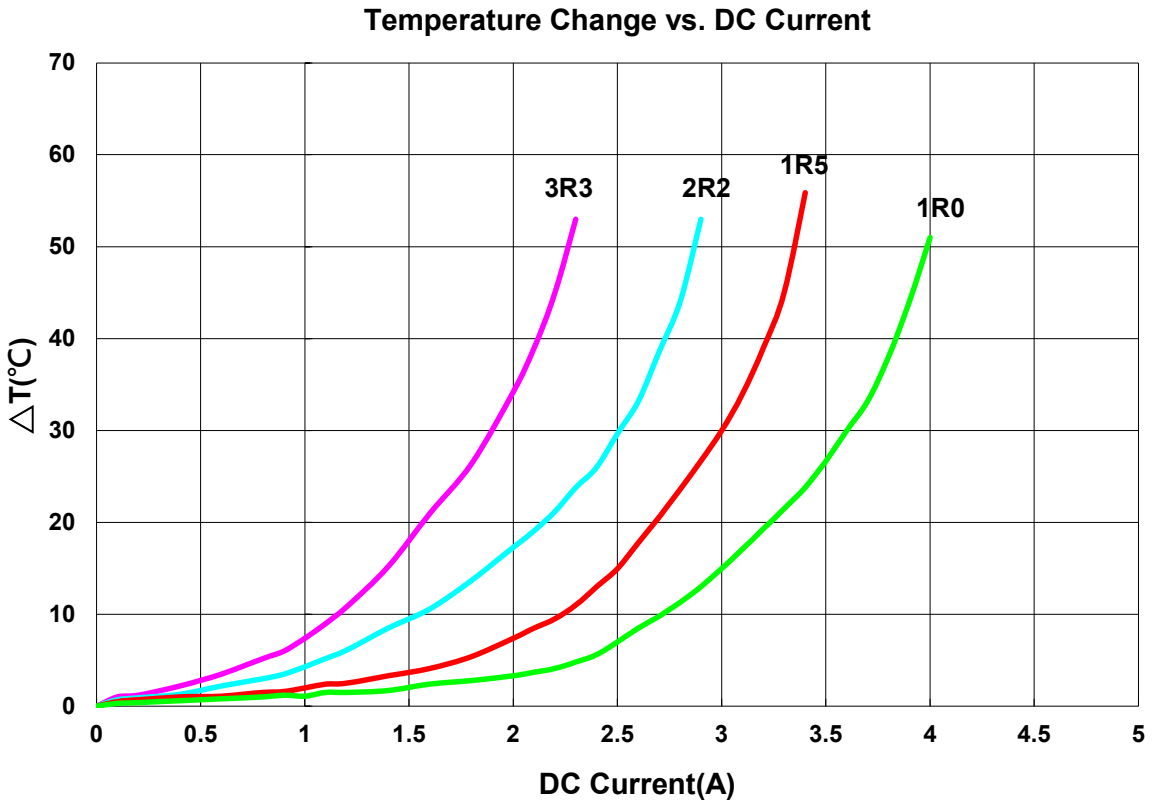
Power Inductor AWVF Series

Automotive
AEC-Q200

AWVF00404018 Type

■ Characteristics Graph





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Pulse a YAGEO company

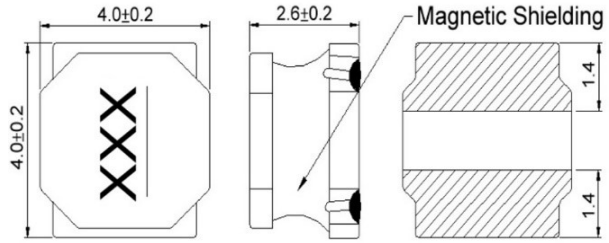
CHILISIN ELECTRONICS CORP.

Power Inductor AWVF Series

Automotive
AEC-Q200

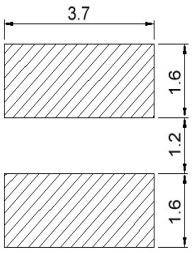
AWVF00404026 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVF004040261R0□00	1.0	100kHz,1V	0.030	5.00(4.50)	4.00(3.60)	20,30	1R0
AWVF004040261R5□00	1.5	100kHz,1V	0.035	4.20(3.70)	3.70(3.3)	20,30	1R5
AWVF004040262R2□00	2.2	100kHz,1V	0.045	3.80(3.40)	3.50(3.1)	20,30	2R2
AWVF004040263R3□00	3.3	100kHz,1V	0.067	3.00(2.70)	2.50(2.2)	20,30	3R3
AWVF004040264R7□00	4.7	100kHz,1V	0.092	2.60(2.30)	2.00(1.80)	20,30	4R7
AWVF004040265R6□00	5.6	100kHz,1V	0.110	2.30(2.00)	1.90(1.70)	20,30	5R6
AWVF004040266R8□00	6.8	100kHz,1V	0.130	2.00(1.80)	1.70(1.50)	20,30	6R8
AWVF00404026100□00	10	100kHz,1V	0.188	1.90(1.70)	1.40(1.20)	20,30	100
AWVF00404026150□00	15	100kHz,1V	0.240	1.40(1.30)	1.20(1.00)	20,30	150
AWVF00404026220□00	22	100kHz,1V	0.330	1.20(1.00)	1.00(0.90)	20,30	220
AWVF00404026330□00	33	100kHz,1V	0.480	1.00(0.90)	0.82(0.73)	20,30	330
AWVF00404026470□00	47	100kHz,1V	0.735	0.88(0.79)	0.64(0.57)	20,30	470
AWVF00404026101□00	100	100kHz,1V	1.380	0.58(0.52)	0.50(0.45)	20,30	101
AWVF00404026331□00	330	100kHz,1V	4.600	0.31(0.27)	0.25(0.22)	20,30	331

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

1. Operating temperature range －40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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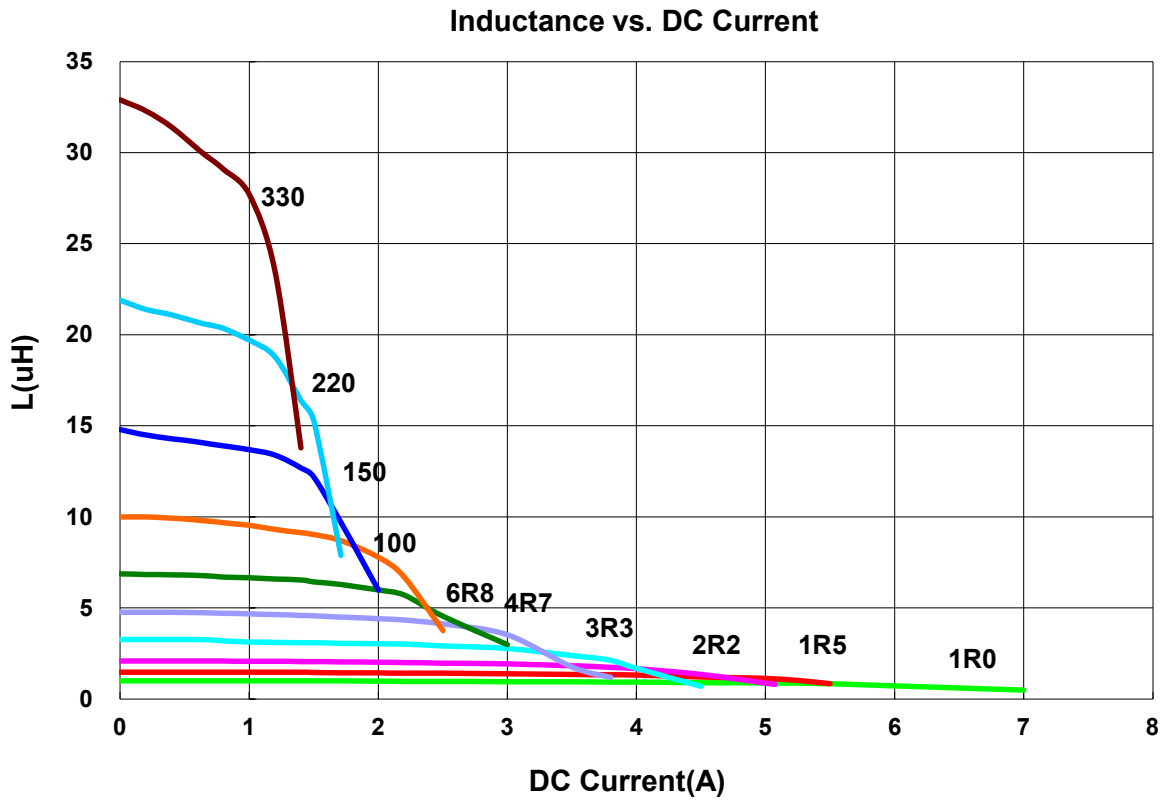
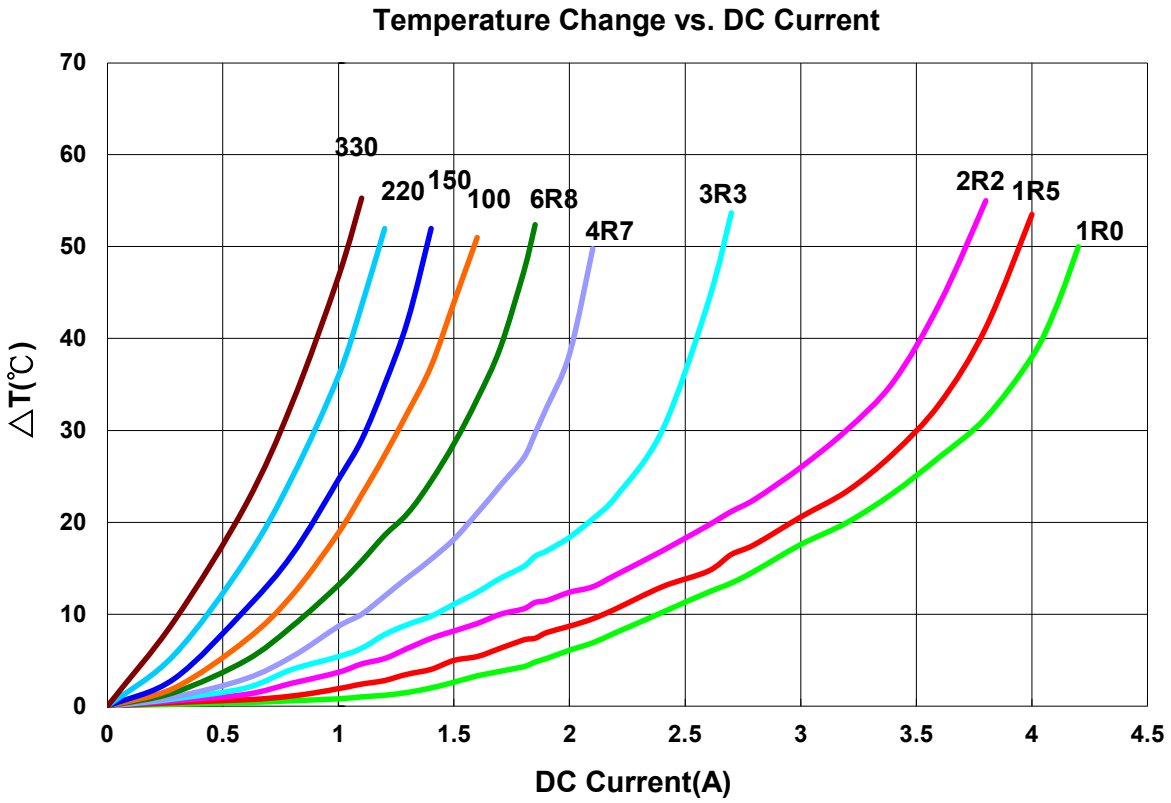
Power Inductor AWVF Series

Automotive
AEC-Q200

AWVF00404026 Type

■ Characteristics Graph





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Pulse a YAGEO company

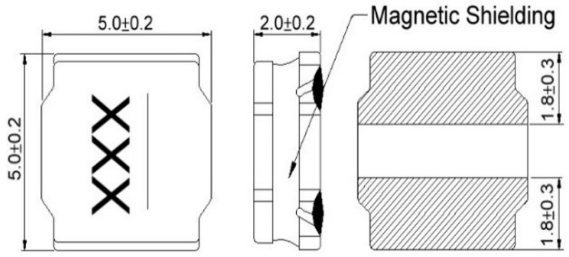
CHILISIN ELECTRONICS CORP.

Power Inductor AWVF Series

Automotive
AEC-Q200

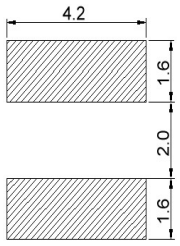
AWVF00505020 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVF005050201R0□00	1.0	100kHz,1V	0.018	6.0(5.4)	4.1(3.6)	20,30	1R0
AWVF005050201R5□00	1.5	100kHz,1V	0.023	4.9(4.4)	3.5(3.1)	20,30	1R5
AWVF005050201R8□00	1.8	100kHz,1V	0.026	4.1(3.6)	3.4(3.0)	20,30	1R8
AWVF005050202R2□00	2.2	100kHz,1V	0.030	4.0(3.6)	3.3(2.9)	20,30	2R2
AWVF005050203R6□00	3.6	100kHz,1V	0.050	3.1(2.7)	2.7(2.4)	20,30	3R6
AWVF005050203R9□00	3.9	100kHz,1V	0.053	2.9(2.6)	2.6(2.3)	20,30	3R9
AWVF005050204R7□00	4.7	100kHz,1V	0.060	2.7(2.4)	2.2(1.9)	20,30	4R7
AWVF005050206R8□00	6.8	100kHz,1V	0.093	2.2(1.9)	1.8(1.6)	20,30	6R8
AWVF00505020100□00	10	100kHz,1V	0.125	1.8(1.6)	1.6(1.4)	20,30	100
AWVF00505020150□00	15	100kHz,1V	0.195	1.4(1.2)	1.2(1.0)	20,30	150
AWVF00505020220□00	22	100kHz,1V	0.265	1.2(1.0)	1.0(0.9)	20,30	220

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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Pulse a YAGEO company

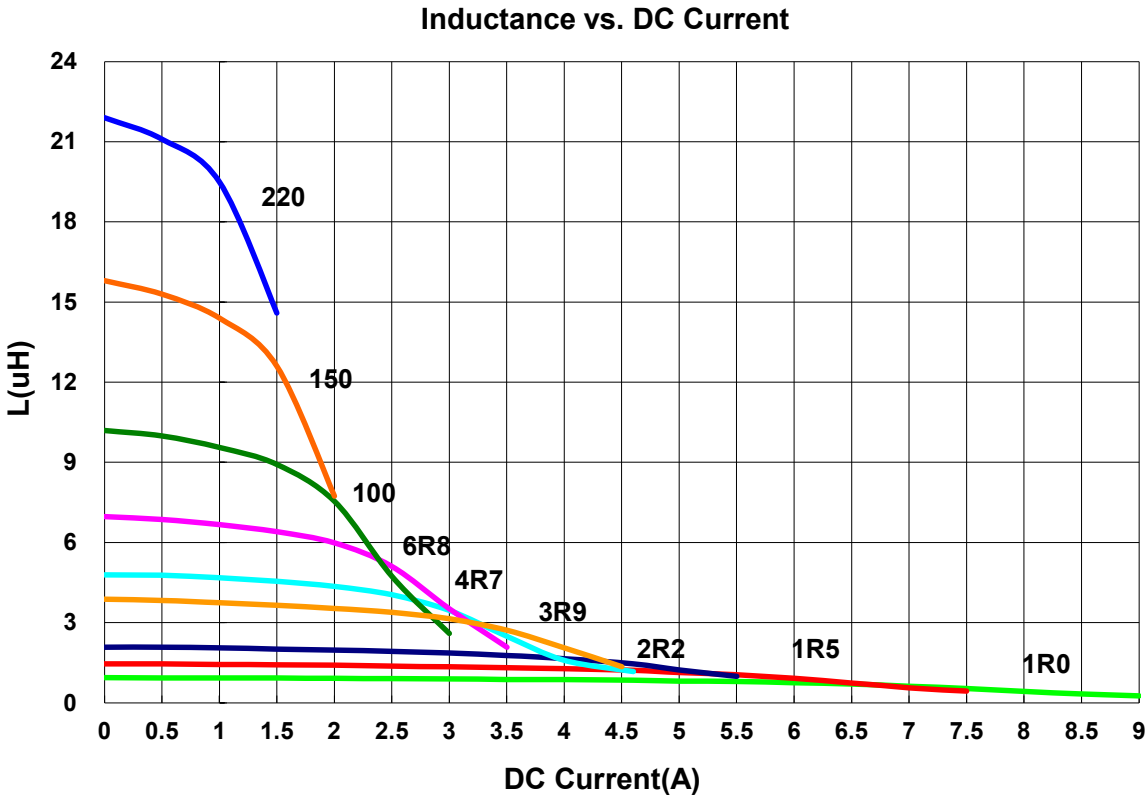
CHILISIN ELECTRONICS CORP.

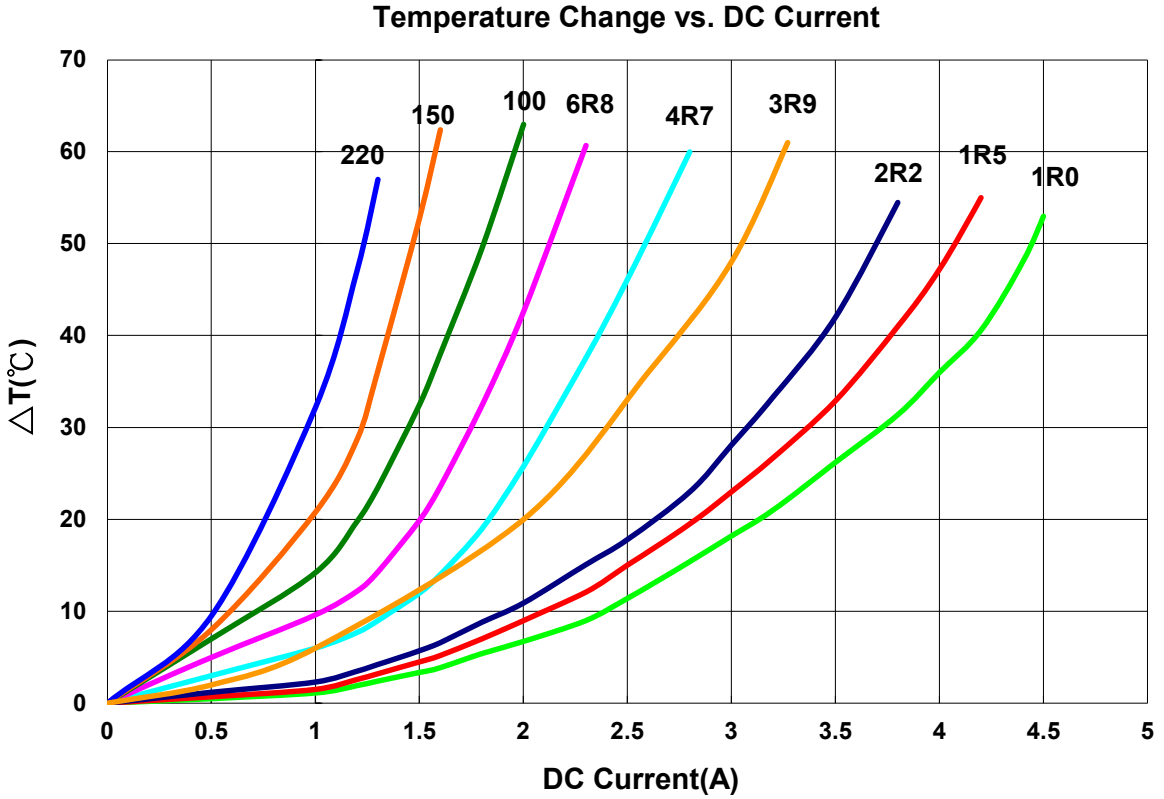
Power Inductor AWVF Series

Automotive
AEC-Q200

AWVF00505020 Type

■ Characteristics Graph





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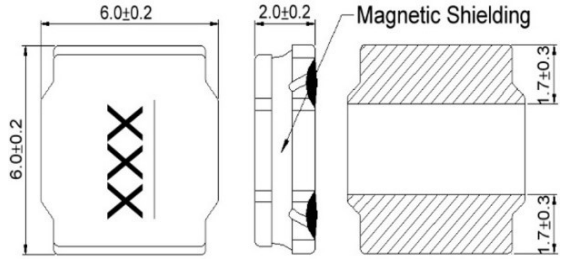
CHILISIN ELECTRONICS CORP.

Power Inductor AWVF Series

Automotive
AEC-Q200

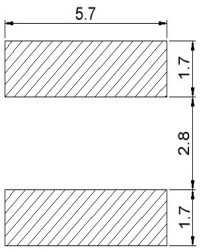
AWVF00606020 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVF006060204R7□00	4.7	100kHz,1V	0.058	3.0(2.7)	2.3(2.0)	20,30	4R7
AWVF00606020100□00	10	100kHz,1V	0.130	2.1(1.8)	1.6(1.4)	20,30	100
AWVF00606020150□00	15	100kHz,1V	0.195	1.6(1.4)	1.3(1.1)	20,30	150
AWVF00606020220□00	22	100kHz,1V	0.260	1.3(1.1)	1.1(0.99)	20,30	220
AWVF00606020470□00	47	100kHz,1V	0.510	0.9(0.8)	0.8(0.72)	20,30	470

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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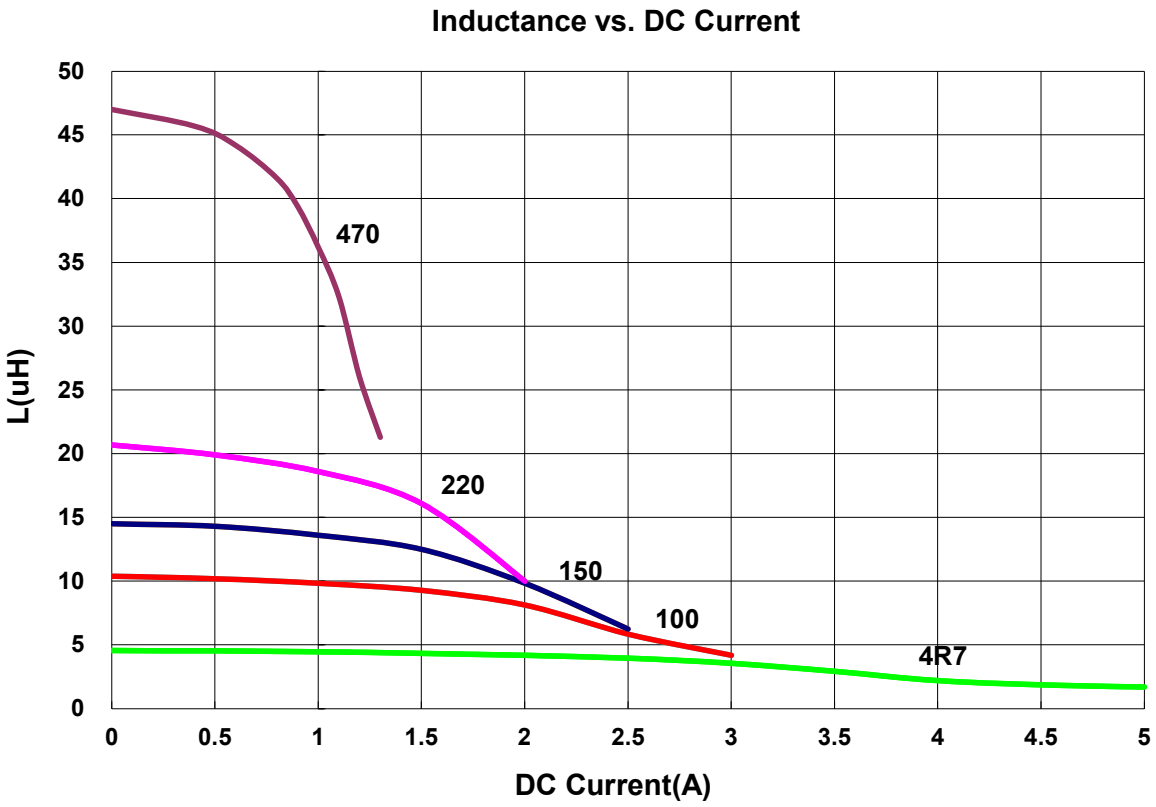
CHILISIN ELECTRONICS CORP.

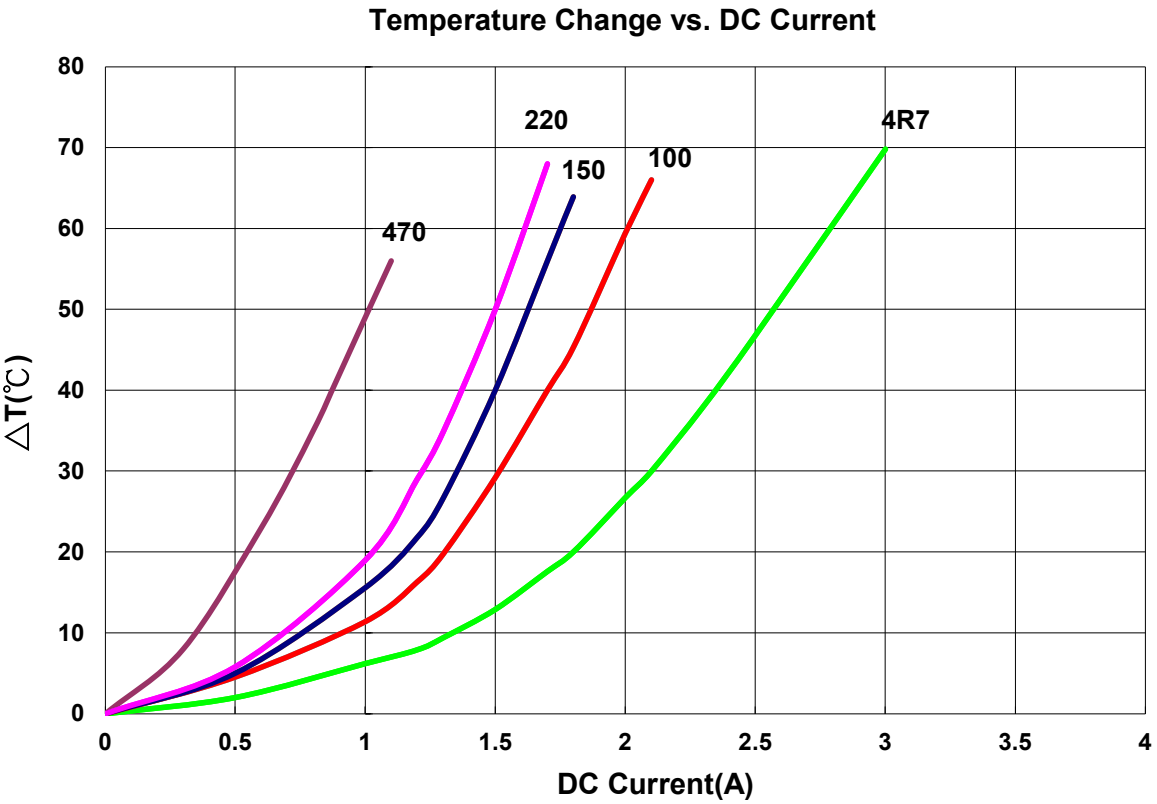
Power Inductor AWVF Series

Automotive
AEC-Q200

AWVF00606020 Type

■ Characteristics Graph





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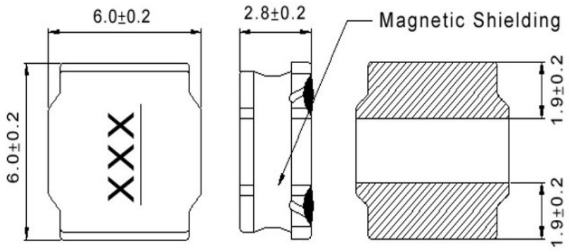
CHILISIN ELECTRONICS CORP.

Power Inductor AWVF Series

Automotive
AEC-Q200

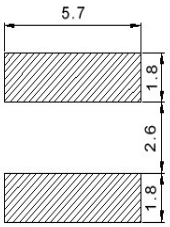
AWVF00606028 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVF006060281R0□00	1.0	100kHz,1V	0.012	7.9(7.10)	6.3(5.60)	20,30	1R0
AWVF006060281R5□00	1.5	100kHz,1V	0.015	7.0(6.30)	5.5(4.90)	20,30	1R5
AWVF006060282R2□00	2.2	100kHz,1V	0.020	6.0(5.40)	5.0(4.50)	20,30	2R2
AWVF006060284R7□00	4.7	100kHz,1V	0.036	4.0(3.60)	3.4(3.00)	20,30	4R7
AWVF006060286R8□00	6.8	100kHz,1V	0.048	3.2(2.80)	3.0(2.70)	20,30	6R8

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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Pulse a YAGEO company

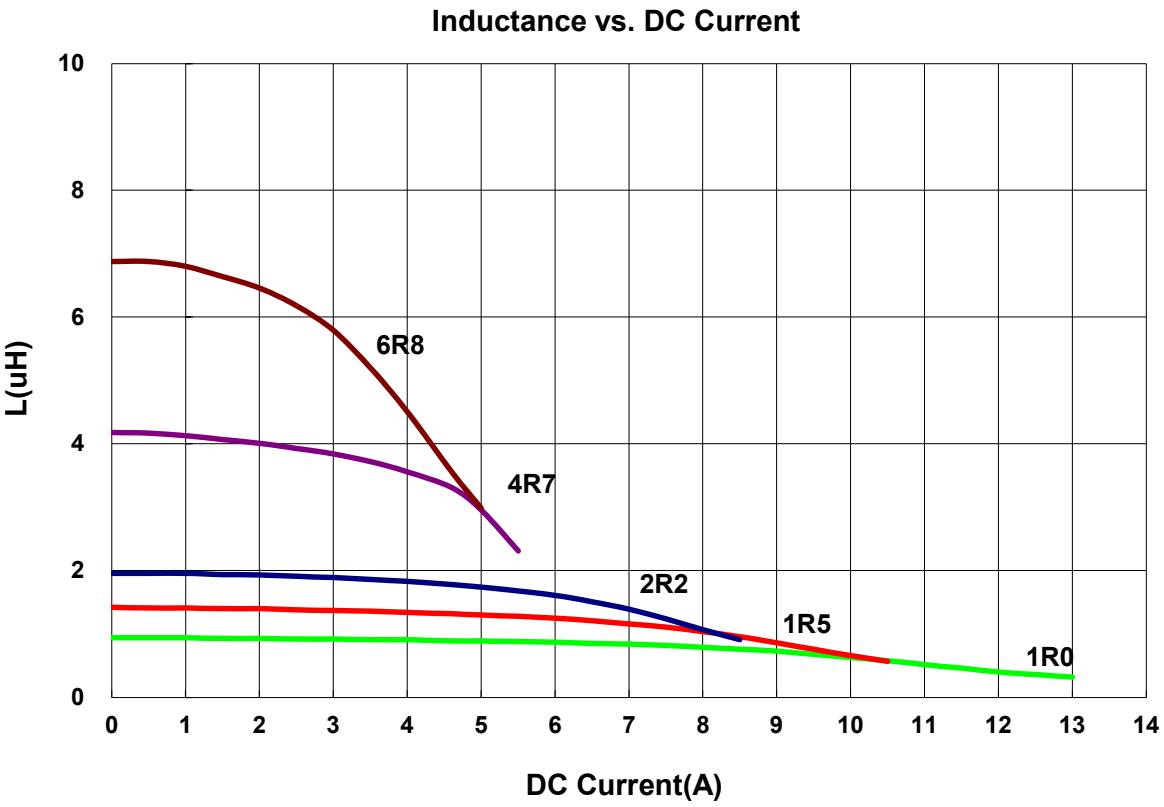
CHILISIN ELECTRONICS CORP.

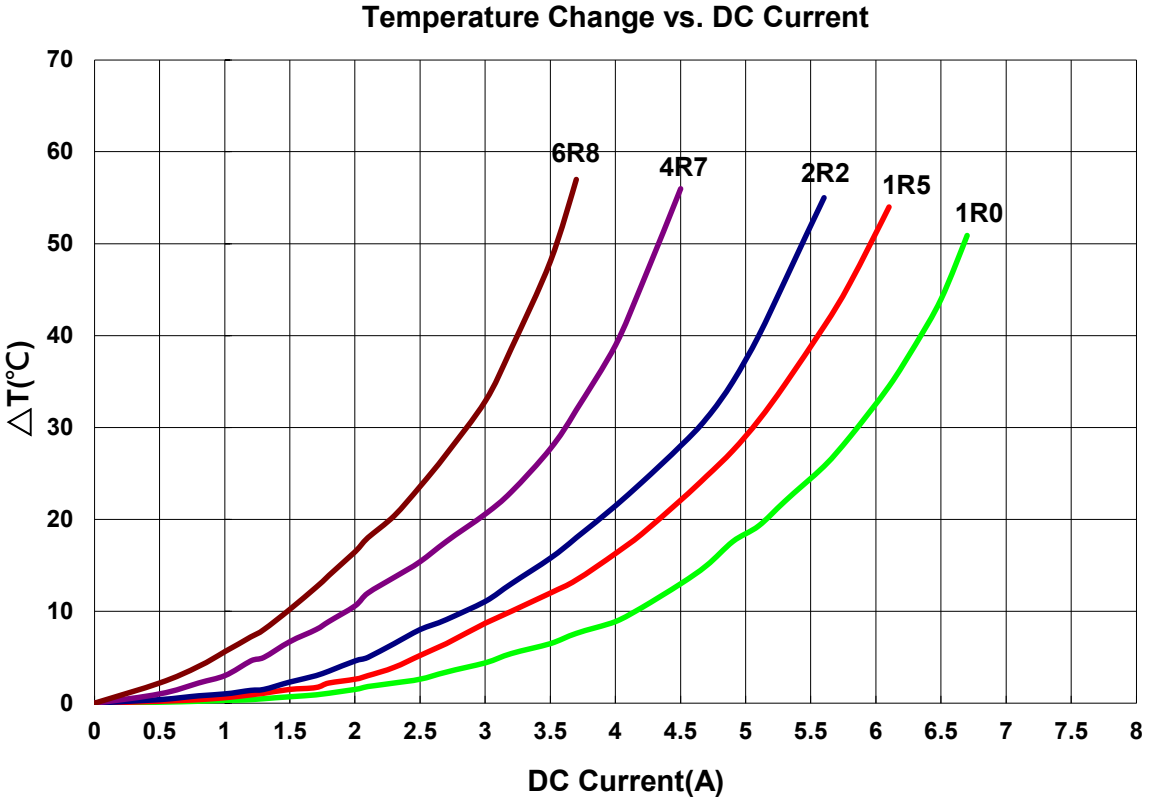
Power Inductor AWVF Series

Automotive
AEC-Q200

AWVF00606028 Type

■ Characteristics Graph





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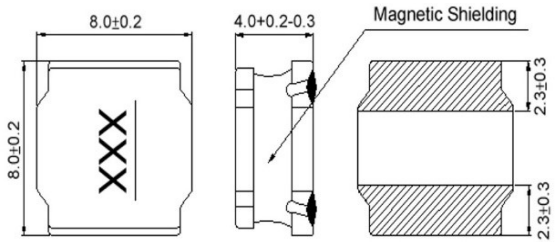
CHILISIN ELECTRONICS CORP.

Power Inductor AWVF Series

Automotive
AEC-Q200

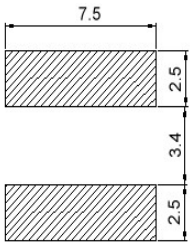
AWVF00808040 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVF008080404R7□00	4.7	100kHz,1V	0.020	6.8(6.00)	5.5(4.80)	20,30	4R7
AWVF00808040100□00	10	100kHz,1V	0.038	5.0(4.40)	3.8(3.30)	20,30	100
AWVF00808040150□00	15	100kHz,1V	0.057	4.0(3.50)	3.2(2.70)	20,30	150
AWVF00808040220□00	22	100kHz,1V	0.082	3.4(2.90)	2.7(2.30)	20,30	220

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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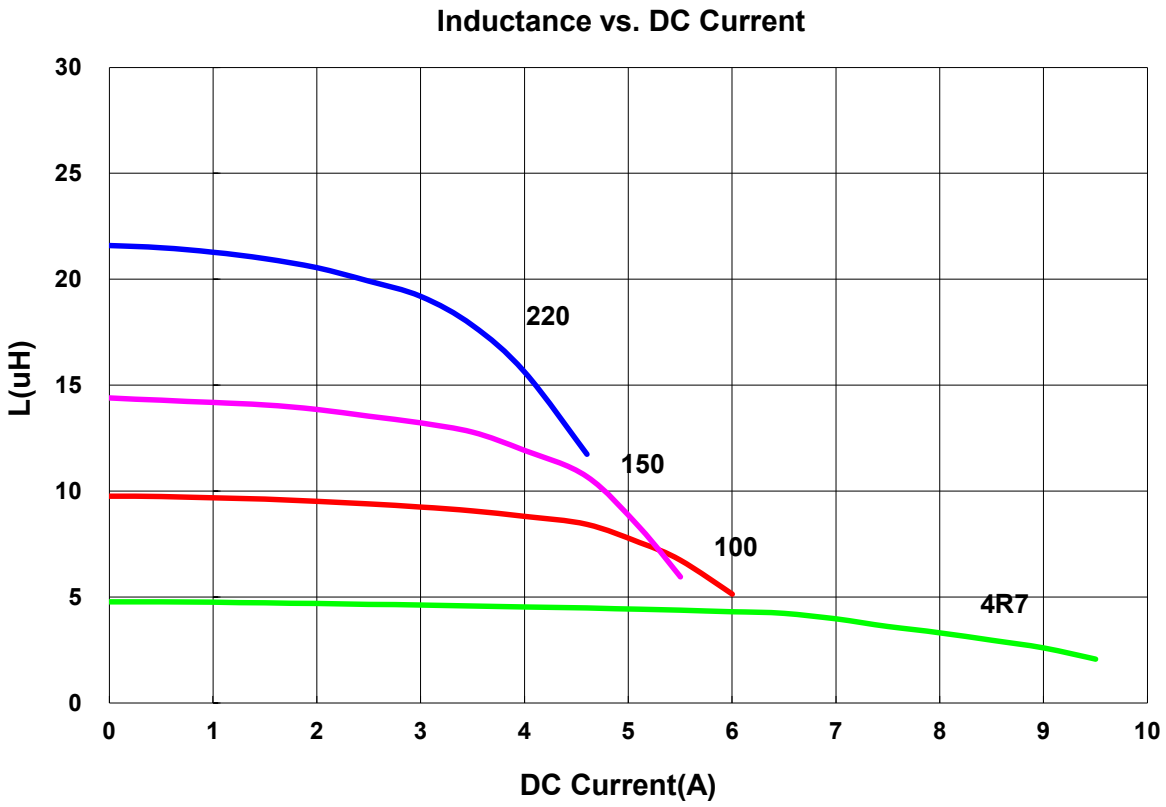
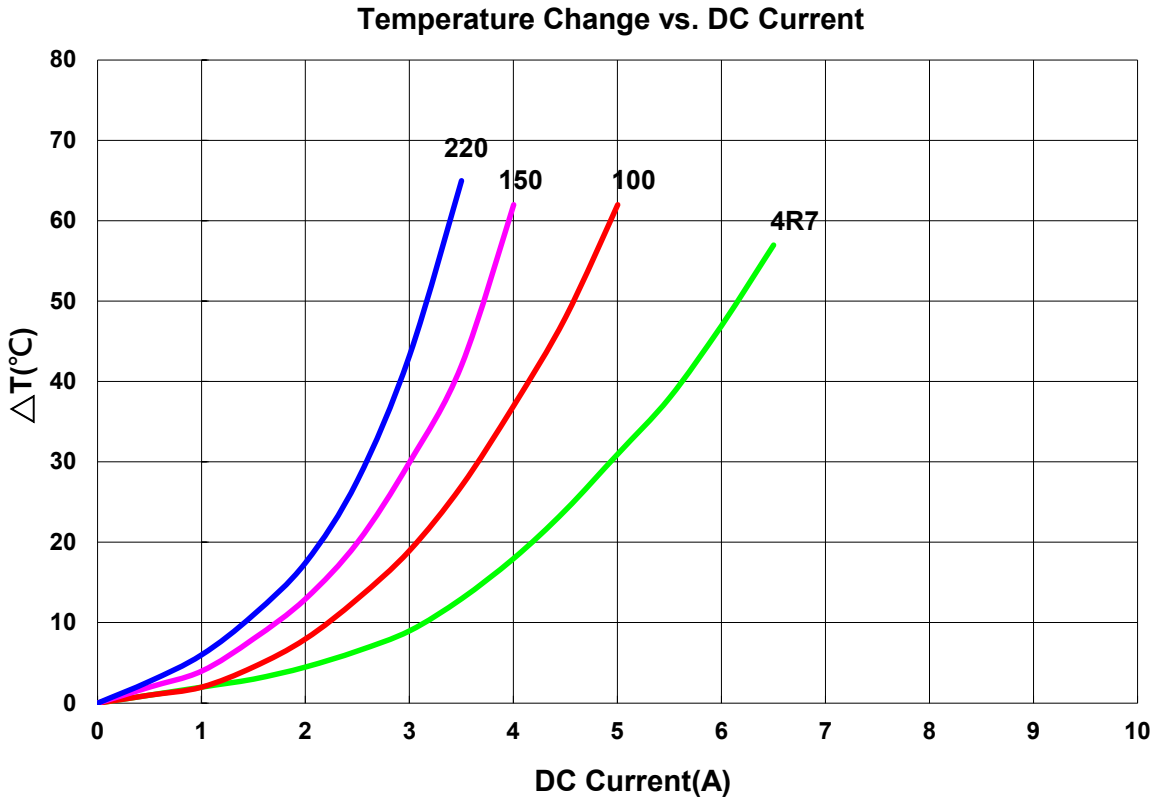
Power Inductor AWVF Series

Automotive
AEC-Q200

AWVF00808040 Type

■ Characteristics Graph





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Power Inductor AWVF Series

Automotive
AEC-Q200

Packaging

Tape Dimensions

Figure 1

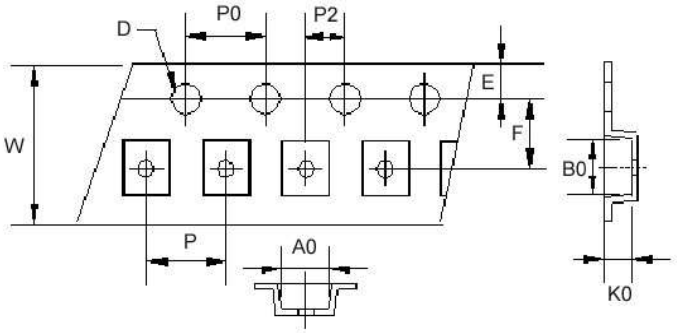
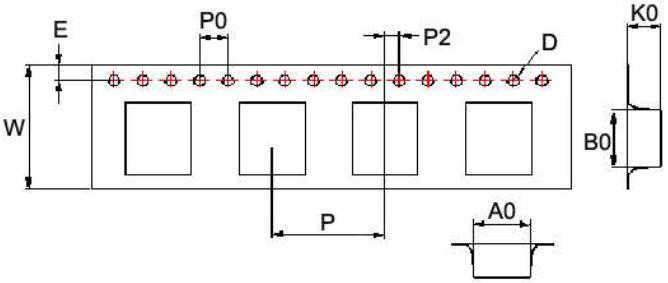


Figure 2



Reel Dimensions

Figure 1

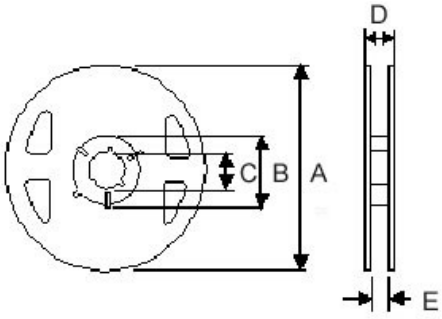
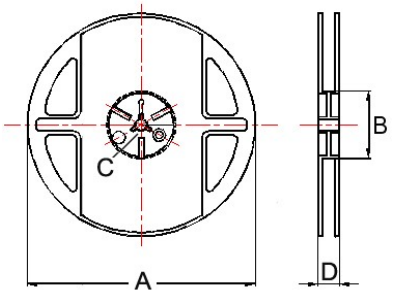


Figure 2



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
AWVF00201612	1	1.9	2.2	1.3	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
AWVF00252010	1	2.4	2.7	1.15	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
AWVF00252012	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
AWVF00303010	1	3.2	3.2	1.4	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
AWVF00303012	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
AWVF00303015	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
AWVF00404012	2	4.25	4.25	1.3	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	1000
AWVF00404015	2	4.25	4.25	1.7	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	1000
AWVF00404018	2	4.25	4.25	2.10	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	800
AWVF00404026	2	4.25	4.25	3	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	500
AWVF00505020	2	5.25	5.25	2.2	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	-	2000
AWVF00606020	2	6.25	6.25	2.2	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	-	2000
AWVF00606028	2	6.25	6.25	3.00	1.55	1.75	7.5	16	12	4	2	330	100	13	16	-	1500
AWVF00808040	2	8.25	8.25	4.15	1.55	1.75	7.5	16	12	4	2	330	100	13	16	-	1000

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Power Inductor AWVT Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Power Circuit | Shield | Magnetic Resin LVx | Ferrite | High Current

Part Numbering

A	WVT	00	252012	1R0	M	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code

Dimensions Code	(mm)
201610	2.0x1.6x1.0
252010	2.5x2.0x1.02
252012	2.5x2.0x1.2
303010	3.0x3.0x1.02
303012	3.0x3.0x1.2
404012	4.0x4.0x1.2
404015	4.0x4.0x1.5
404026	4.0x4.0x2.6
505020	5.0x5.0x2.0
606020	6.0x6.0x2.0
808040	8.0x8.0x4.0

Inductance	(uH)
R47	0.47
1R0	1.0
101	100

Tolerance	
M	±20%
T	±30%

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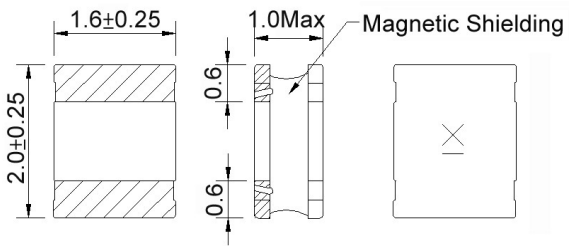
CHILISIN ELECTRONICS CORP.

Power Inductor AWVT Series

Automotive
AEC-Q200

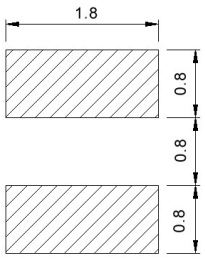
AWVT00201610 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVT00201610R47□00	0.47	1MHz,200mV	0.072	2.40(2.10)	2.40(2.10)	20,30	A

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current.
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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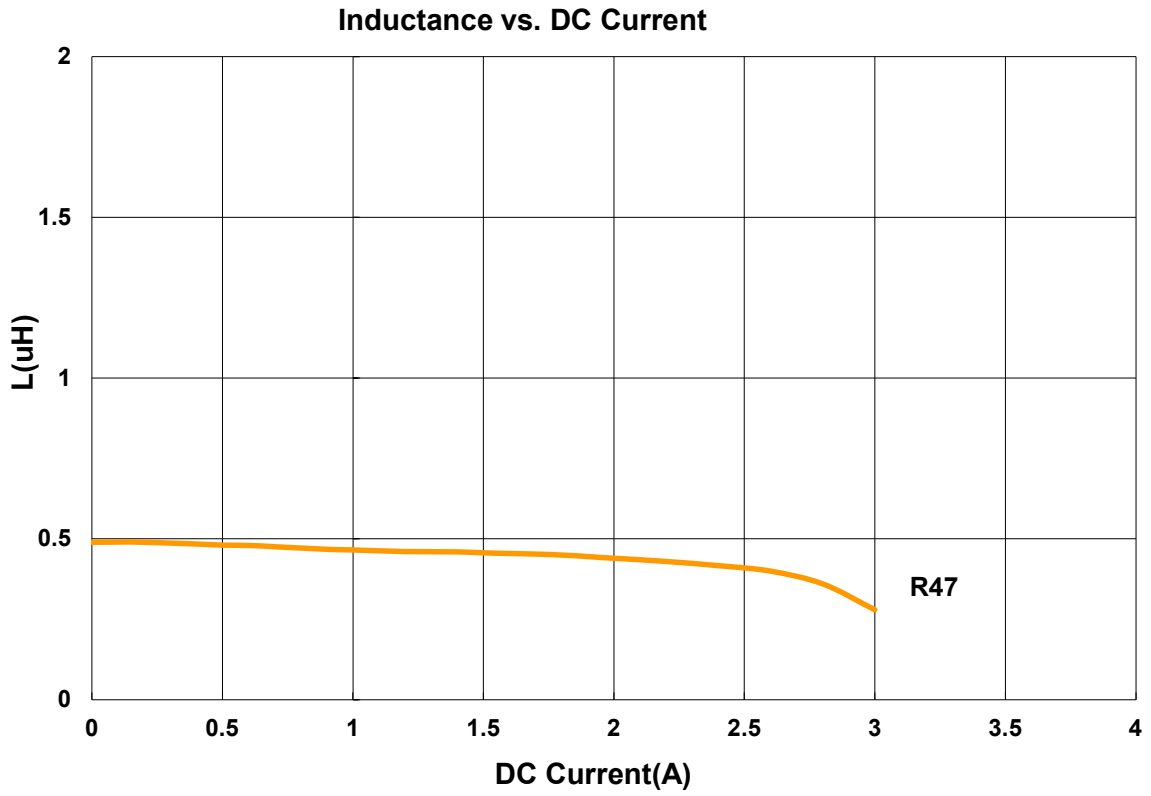
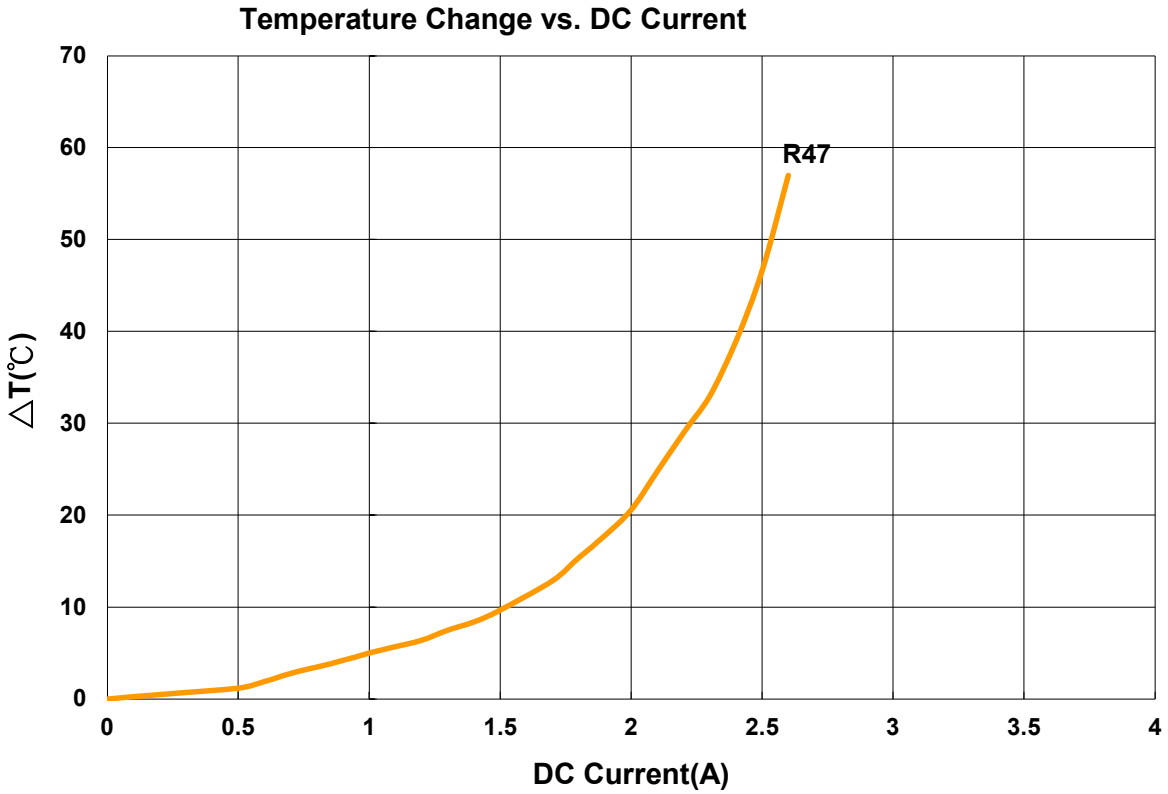
Power Inductor AWVT Series

Automotive
AEC-Q200

AWVT00201610 Type

■ Characteristics Graph





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Pulse a YAGEO company

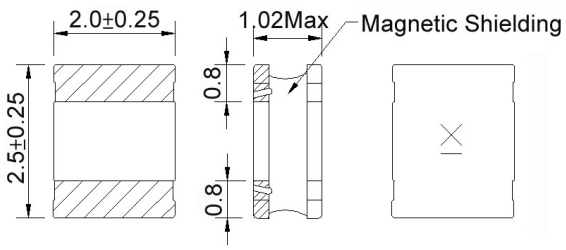
CHILISIN ELECTRONICS CORP.

Power Inductor AWVT Series

Automotive
AEC-Q200

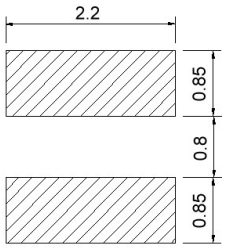
AWVT00252010 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVT00252010R68□00	0.68	1MHz,200mV	0.050	2.40(2.10)	2.20(1.90)	20,30	K
AWVT002520102R2□00	2.2	1MHz,200mV	0.135	1.40(1.20)	1.50(1.30)	20,30	D
AWVT002520103R3□00	3.3	1MHz,200mV	0.220	1.10(1.00)	1.20(1.00)	20,30	E
AWVT002520106R8□00	6.8	1MHz,200mV	0.435	0.78(0.70)	0.84(0.75)	20,30	G

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current.
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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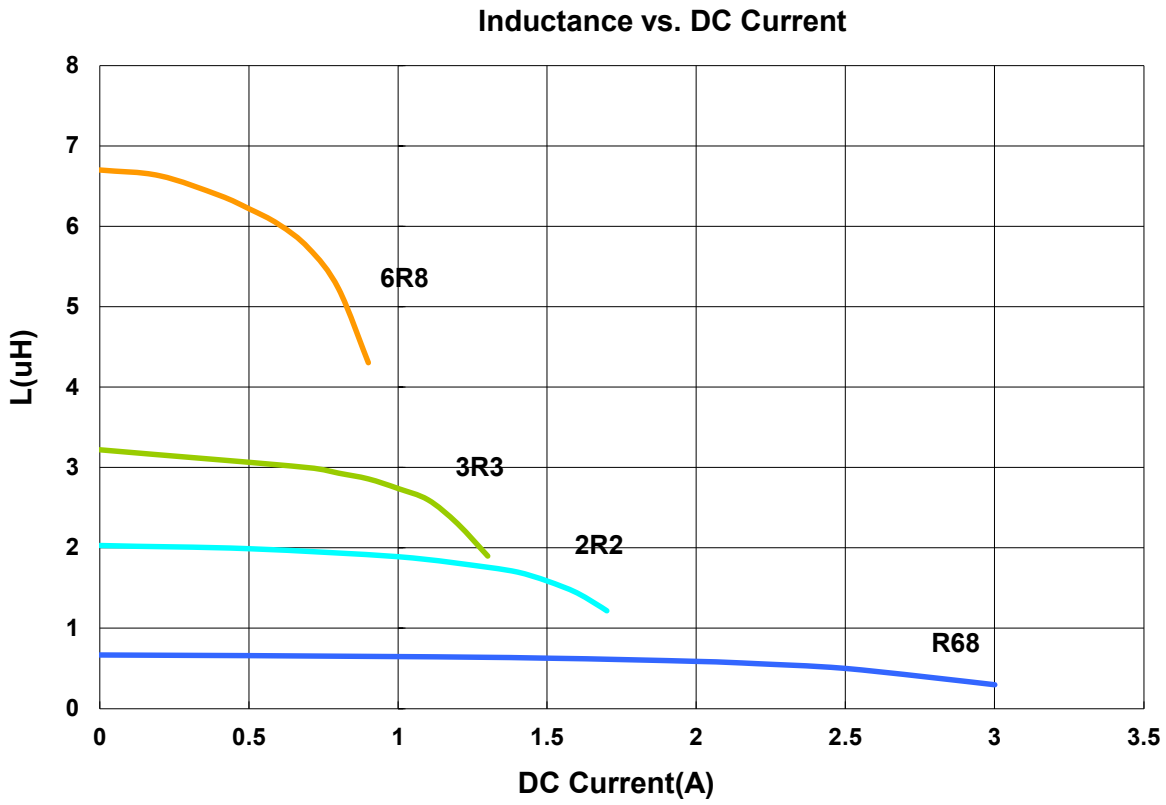
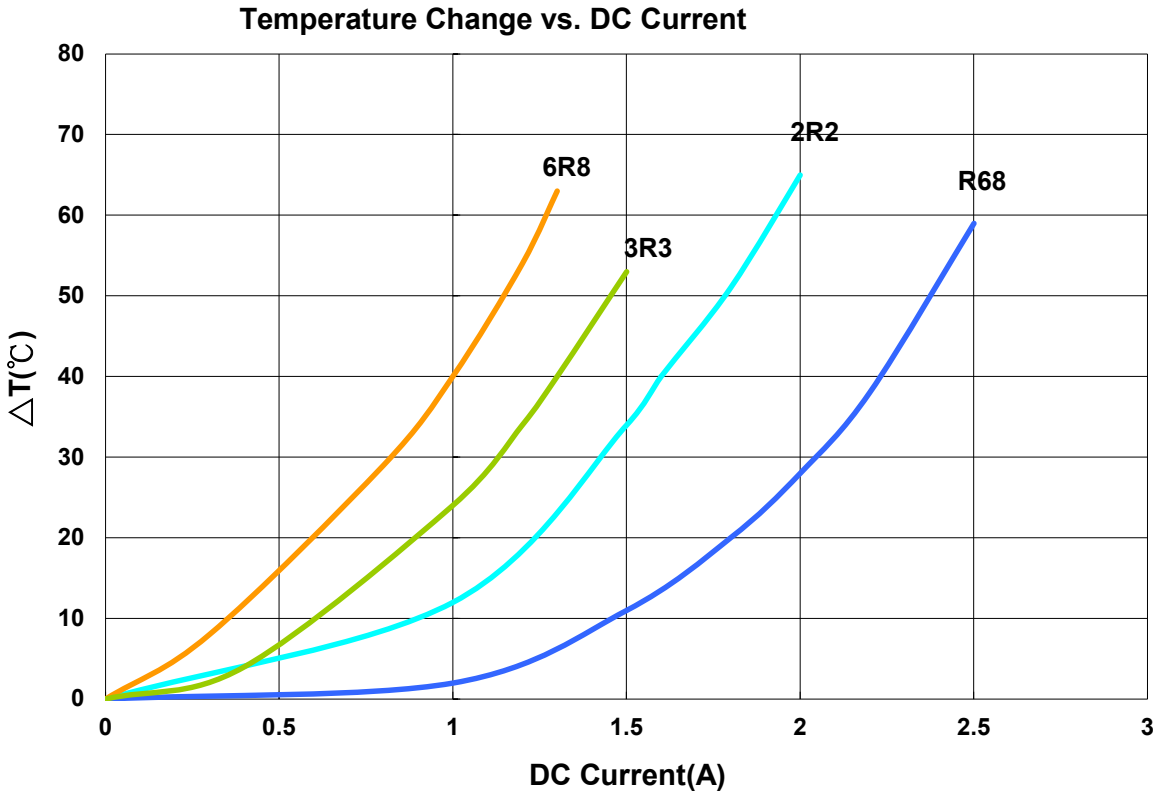
Power Inductor AWVT Series

Automotive
AEC-Q200

AWVT00252010 Type

■ Characteristics Graph





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Pulse a YAGEO company

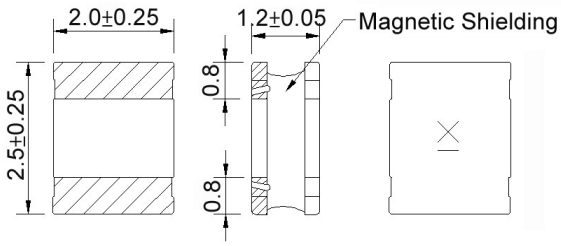
CHILISIN ELECTRONICS CORP.

Power Inductor AWVT Series

Automotive
AEC-Q200

AWVT00252012 Type

■ Dimensions



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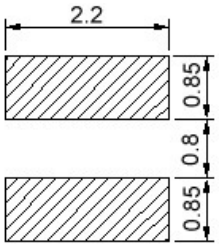
■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVT00252012R47□00	0.47	1MHz,200mV	0.027	3.70(3.30)	3.10(2.70)	20,30	A

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current.
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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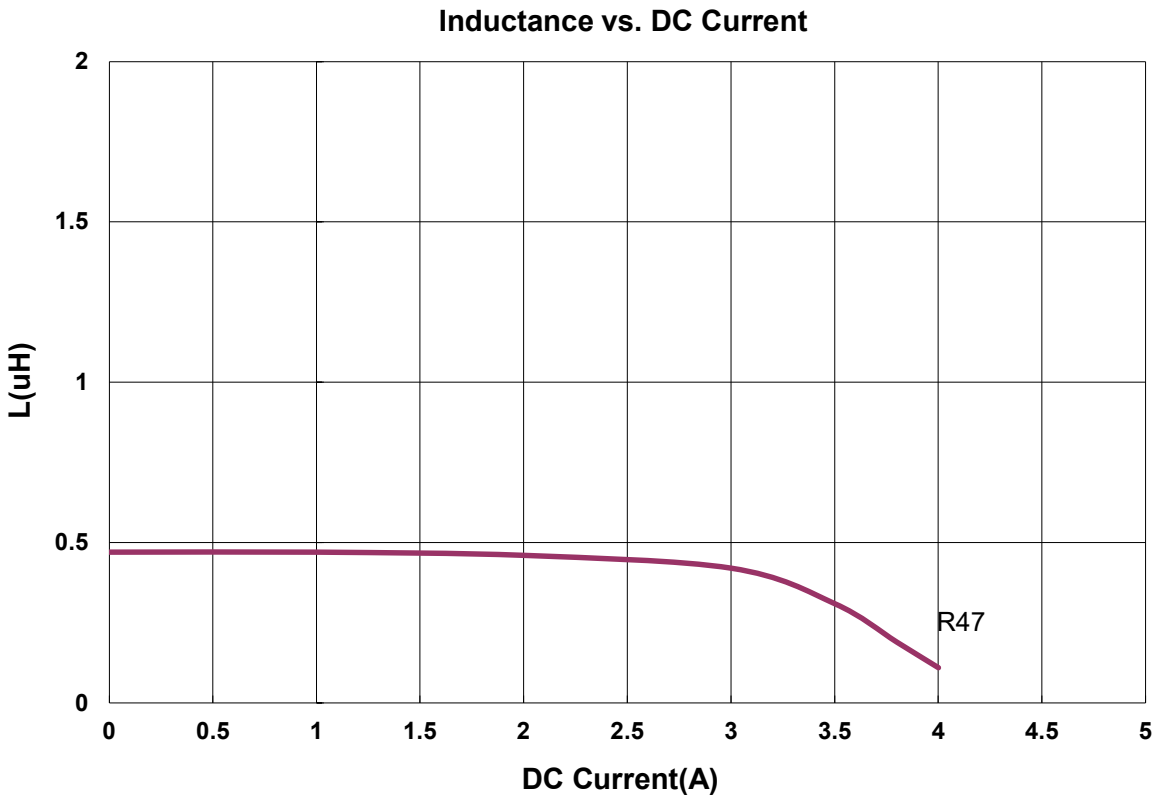
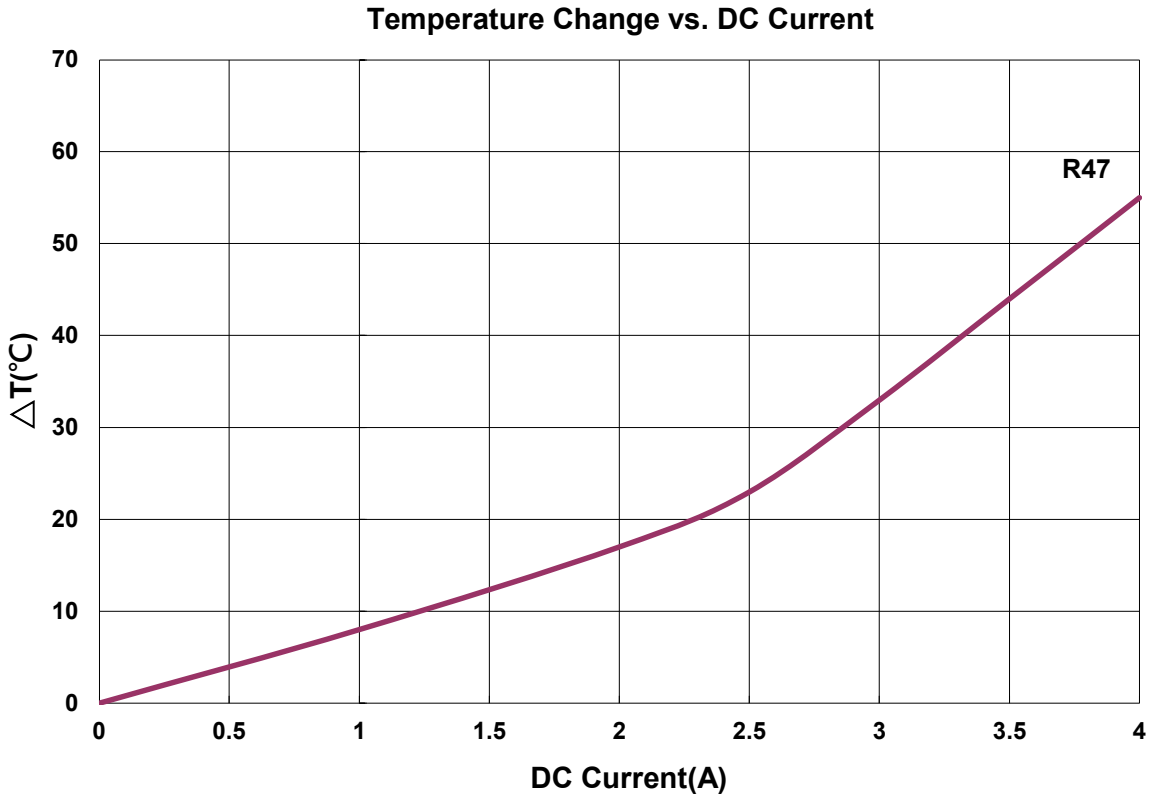
Power Inductor AWVT Series

Automotive
AEC-Q200

AWVT00252012 Type

■ Characteristics Graph





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Pulse a YAGEO company

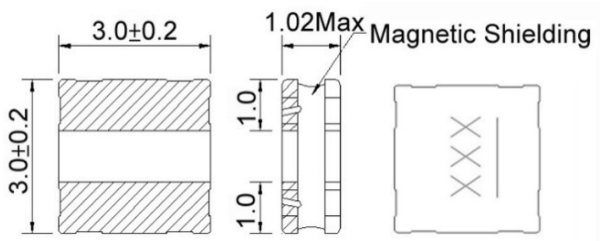
CHILISIN ELECTRONICS CORP.

Power Inductor AWVT Series

Automotive AEC-Q200

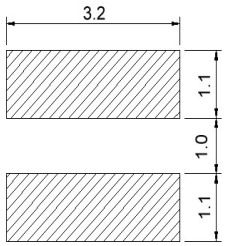
AWVT00303010 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVT003030101R0□00	1.0	1MHz,200mV	0.063	2.40(2.10)	2.30(2.00)	20,30	1R0
AWVT003030103R3□00	3.3	1MHz,200mV	0.165	1.20(1.00)	1.10(0.99)	20,30	3R3

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current.
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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Pulse a YAGEO company

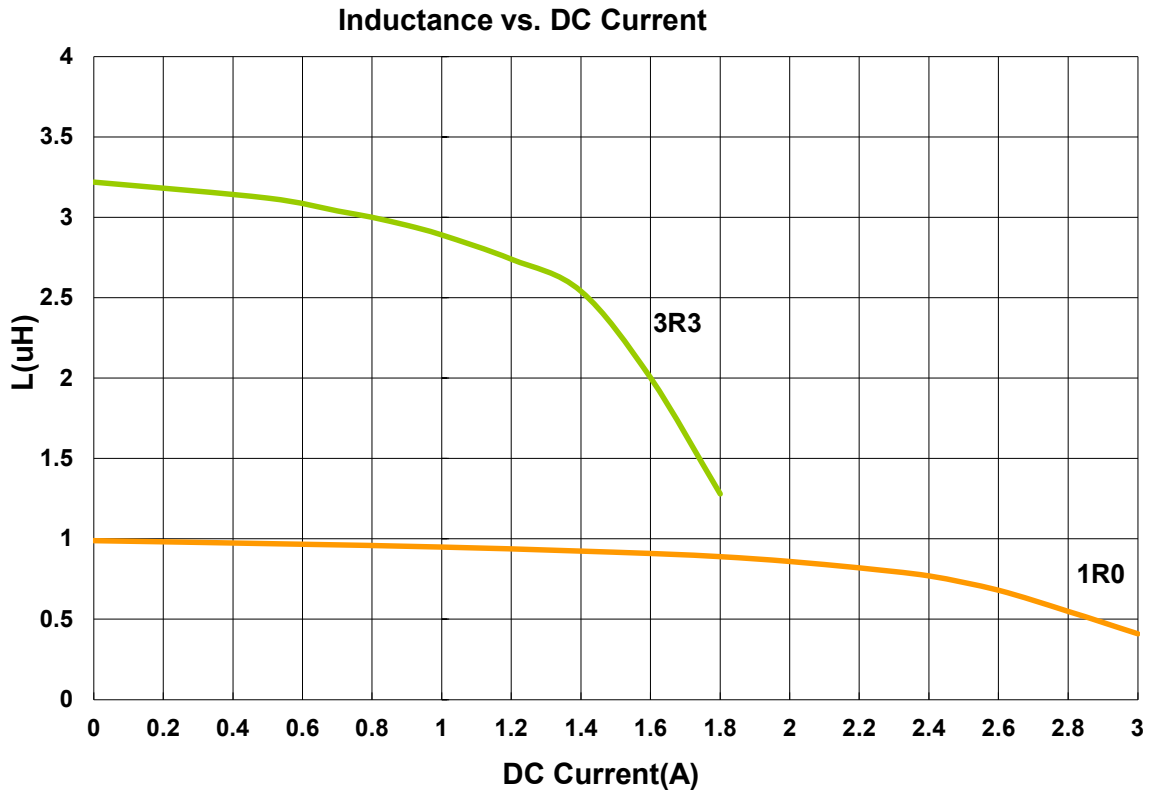
CHILISIN ELECTRONICS CORP.

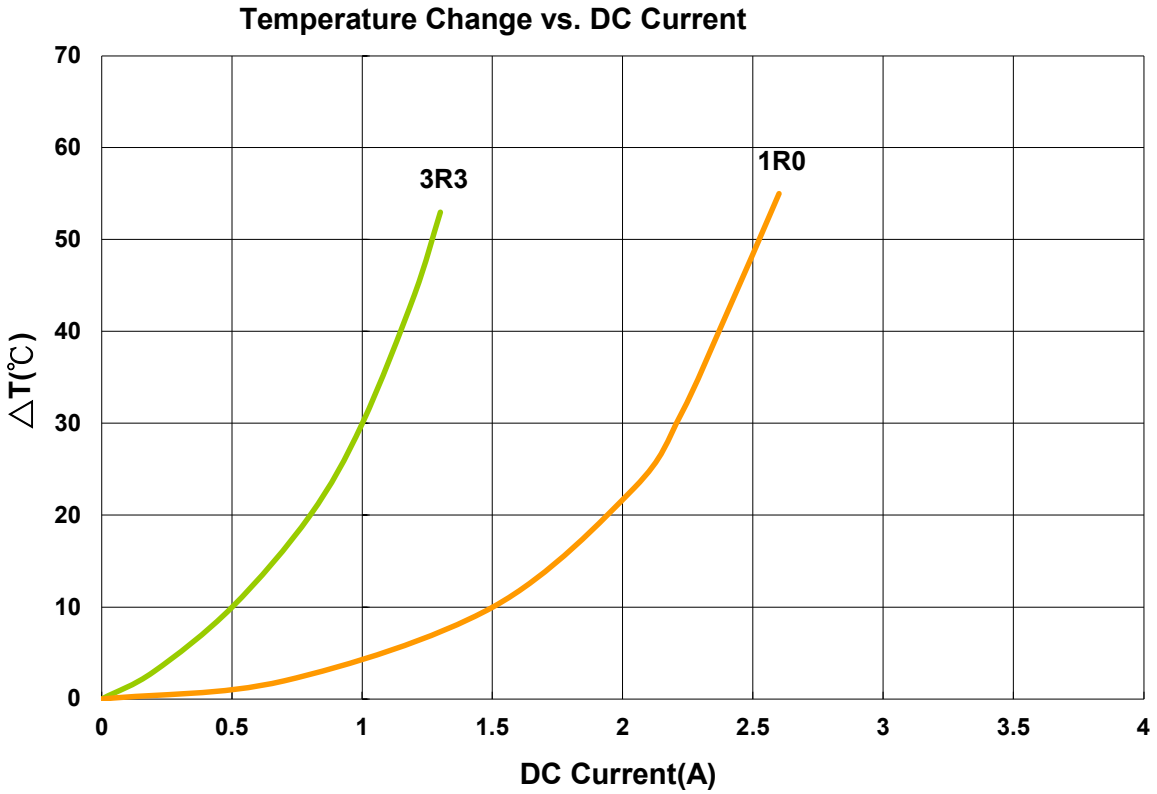
Power Inductor AWVT Series

Automotive
AEC-Q200

AWVT00303010 Type

■ Characteristics Graph





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Pulse a YAGEO company

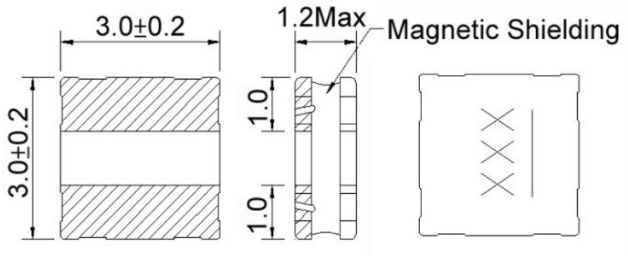
CHILISIN ELECTRONICS CORP.

Power Inductor AWVT Series

Automotive
AEC-Q200

AWVT00303012 Type

■ Dimensions



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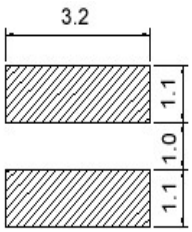
■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVT00303012R47□00	0.47	1MHz,200mV	0.032	4.3(3.87)	4.0(3.60)	20,30	R47
AWVT003030121R0□00	1	1MHz,200mV	0.06	3.1(2.79)	3.0(2.70)	20,30	1R0
AWVT003030121R5□00	1.5	1MHz,200mV	0.072	2.7(2.43)	2.6(2.34)	20,30	1R5

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current.
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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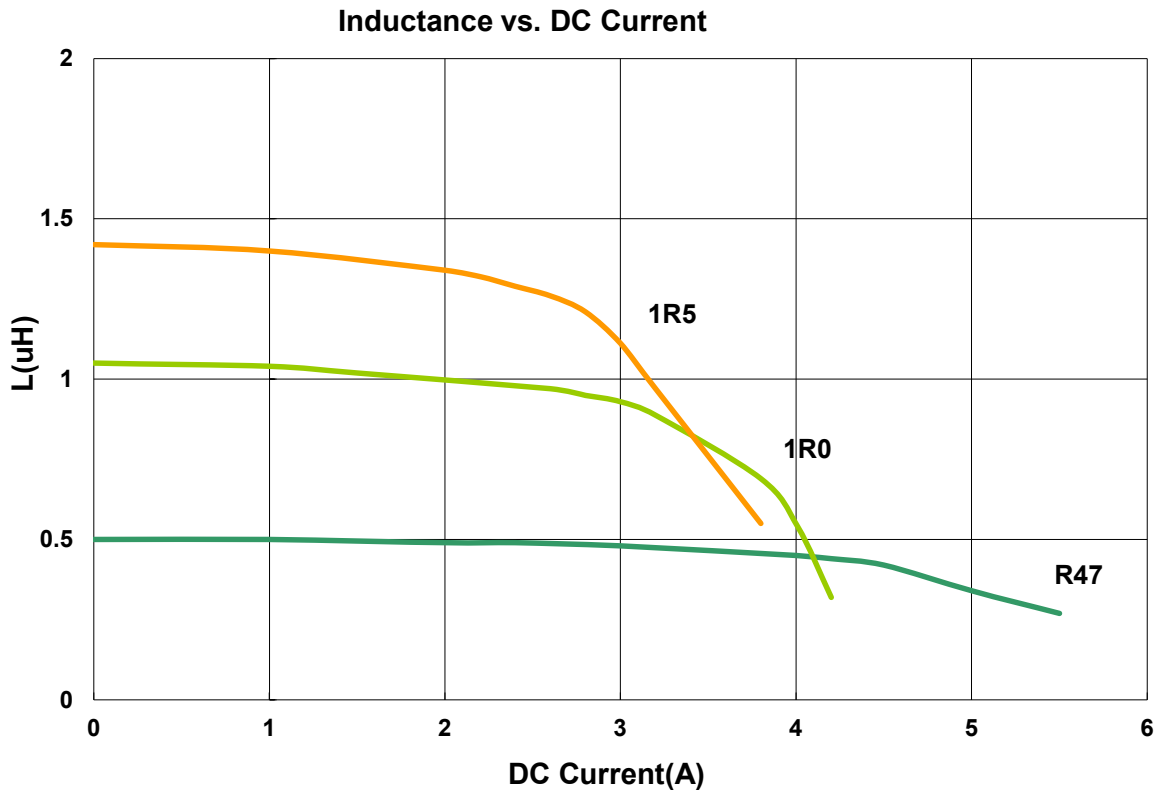
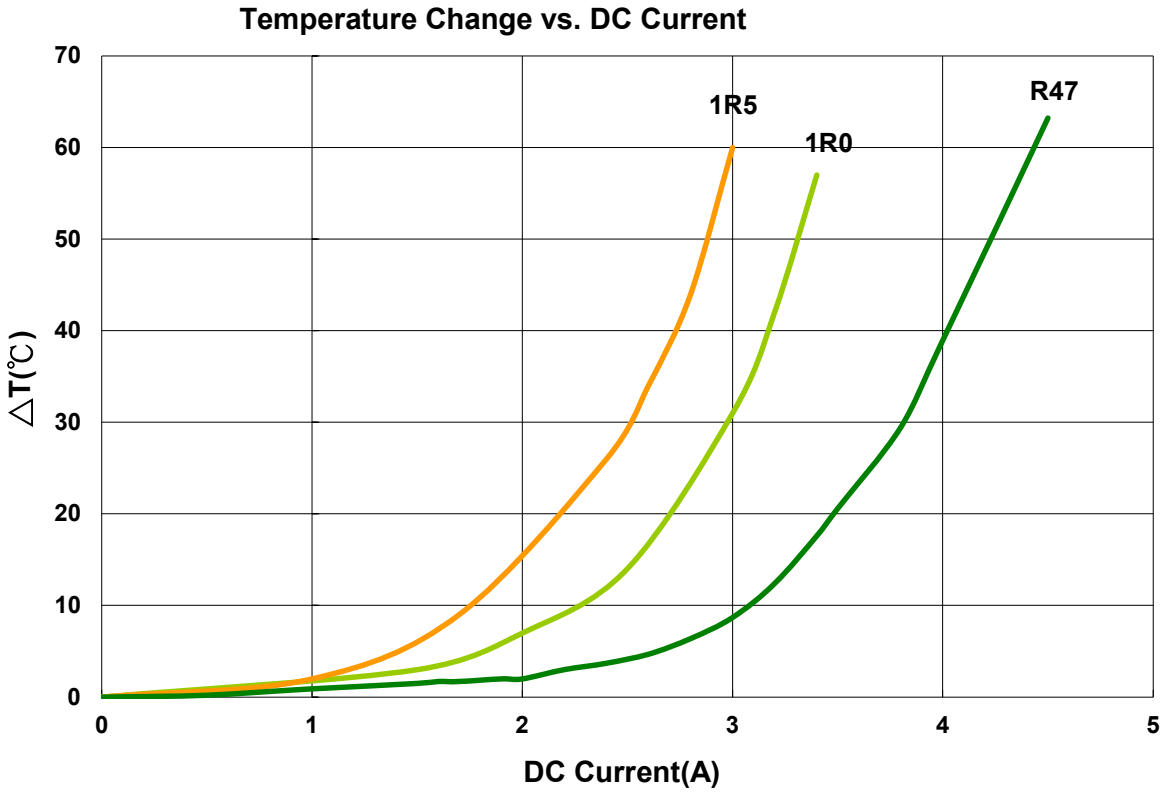
Power Inductor AWVT Series

Automotive
AEC-Q200

AWVT00303012 Type

■ Characteristics Graph





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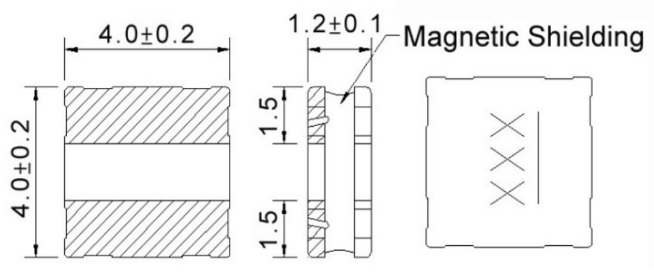
CHILISIN ELECTRONICS CORP.

Power Inductor AWVT Series

Automotive
AEC-Q200

AWVT00404012 Type

■ Dimensions



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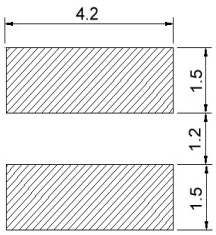
■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVT00404012R50□00	0.5	1MHz,200mV	0.030	3.90(3.50)	3.5(3.10)	20,30	R50
AWVT004040121R0□00	1.0	1MHz,200mV	0.040	2.90(2.60)	3.0(2.70)	20,30	1R0
AWVT004040121R5□00	1.5	1MHz,200mV	0.051	2.30(2.00)	2.5(2.20)	20,30	1R5
AWVT004040122R2□00	2.2	1MHz,200mV	0.060	1.90(1.70)	2.3(2.00)	20,30	2R2
AWVT004040124R7□00	4.7	1MHz,200mV	0.094	1.30(1.10)	1.8(1.60)	20,30	4R7
AWVT004040126R8□00	6.8	1MHz,200mV	0.135	1.00(0.95)	1.5(1.30)	20,30	6R8
AWVT00404012150□00	15	1MHz,200mV	0.260	0.78(0.70)	1.0(0.90)	20,30	150
AWVT00404012220□00	22	1MHz,200mV	0.390	0.62(0.55)	0.8(0.72)	20,30	220

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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Pulse a YAGEO company

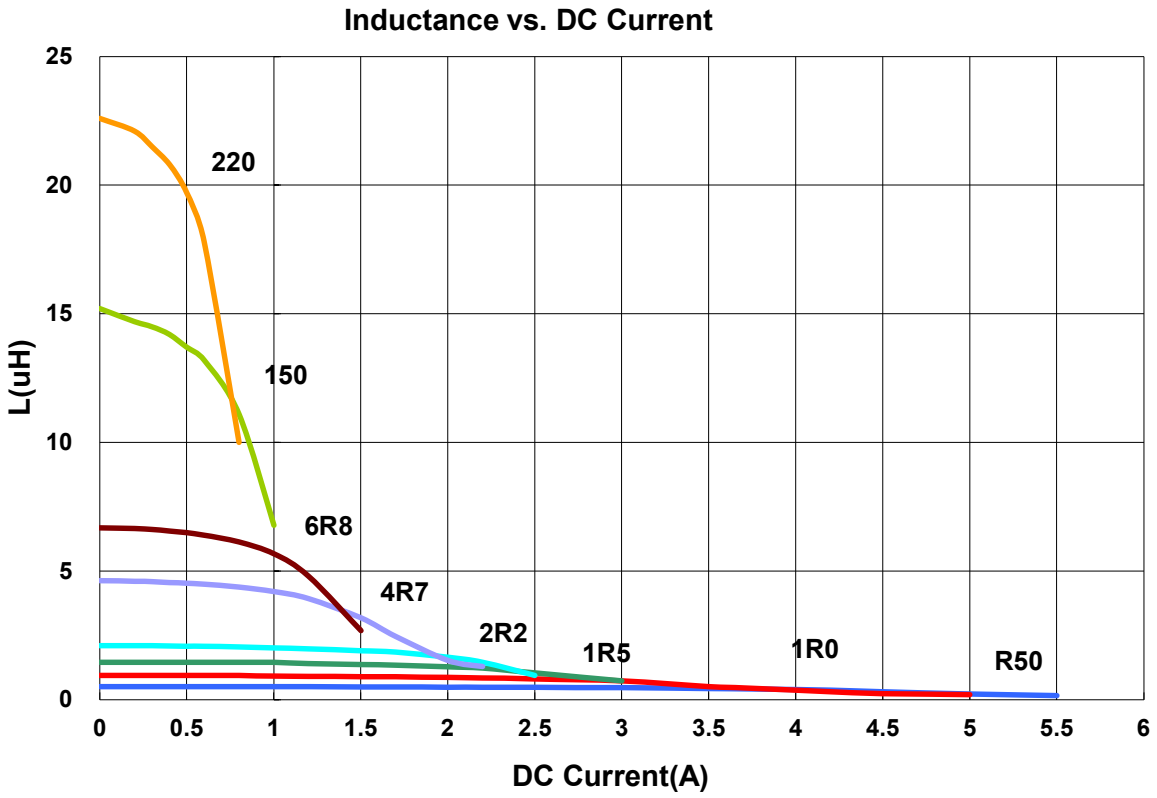
CHILISIN ELECTRONICS CORP.

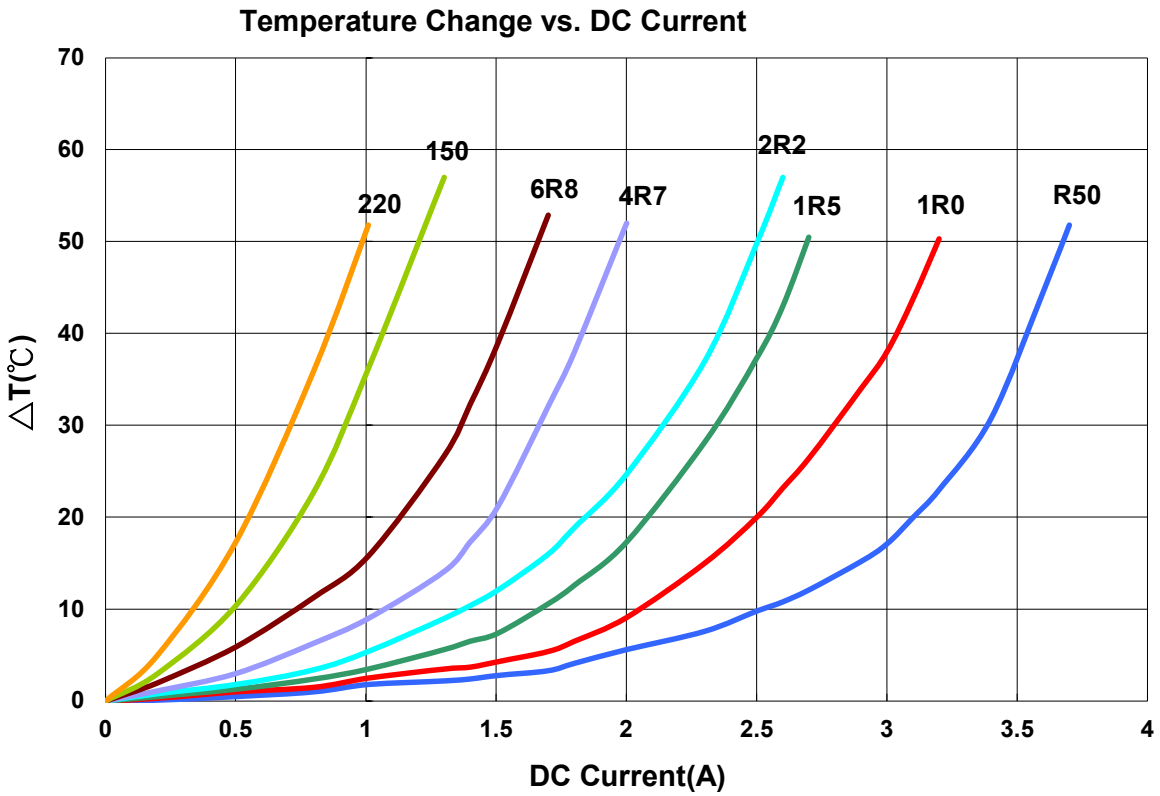
Power Inductor AWVT Series

Automotive
AEC-Q200

AWVT00404012 Type

■ Characteristics Graph





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Pulse a YAGEO company

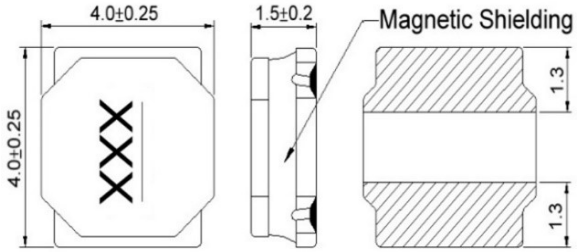
CHILISIN ELECTRONICS CORP.

Power Inductor AWVT Series

Automotive
AEC-Q200

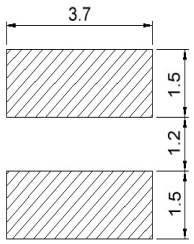
AWVT00404015 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVT004040151R0□00	1.0	1MHz,200mV	0.034	3.6(3.20)	3.7(3.30)	20,30	1R0
AWVT004040153R3□00	3.3	1MHz,200mV	0.080	2.0(1.80)	2.2(1.90)	20,30	3R3

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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Pulse a YAGEO company

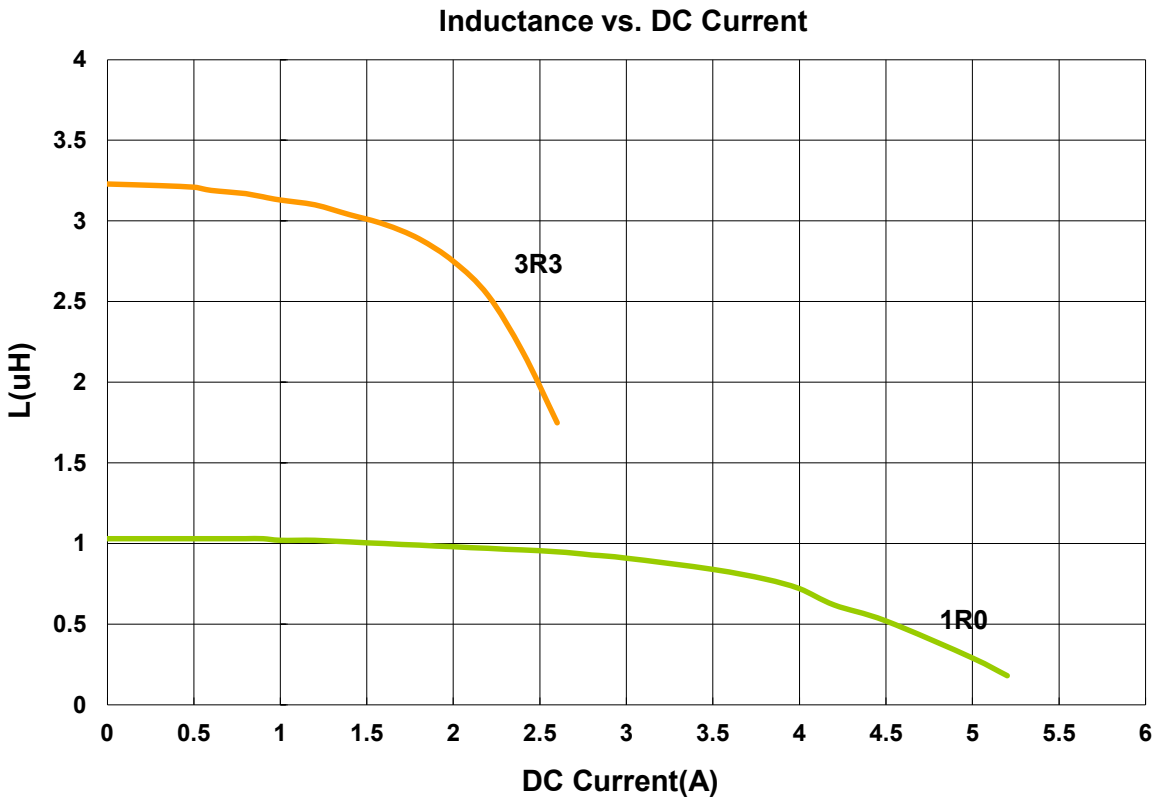
CHILISIN ELECTRONICS CORP.

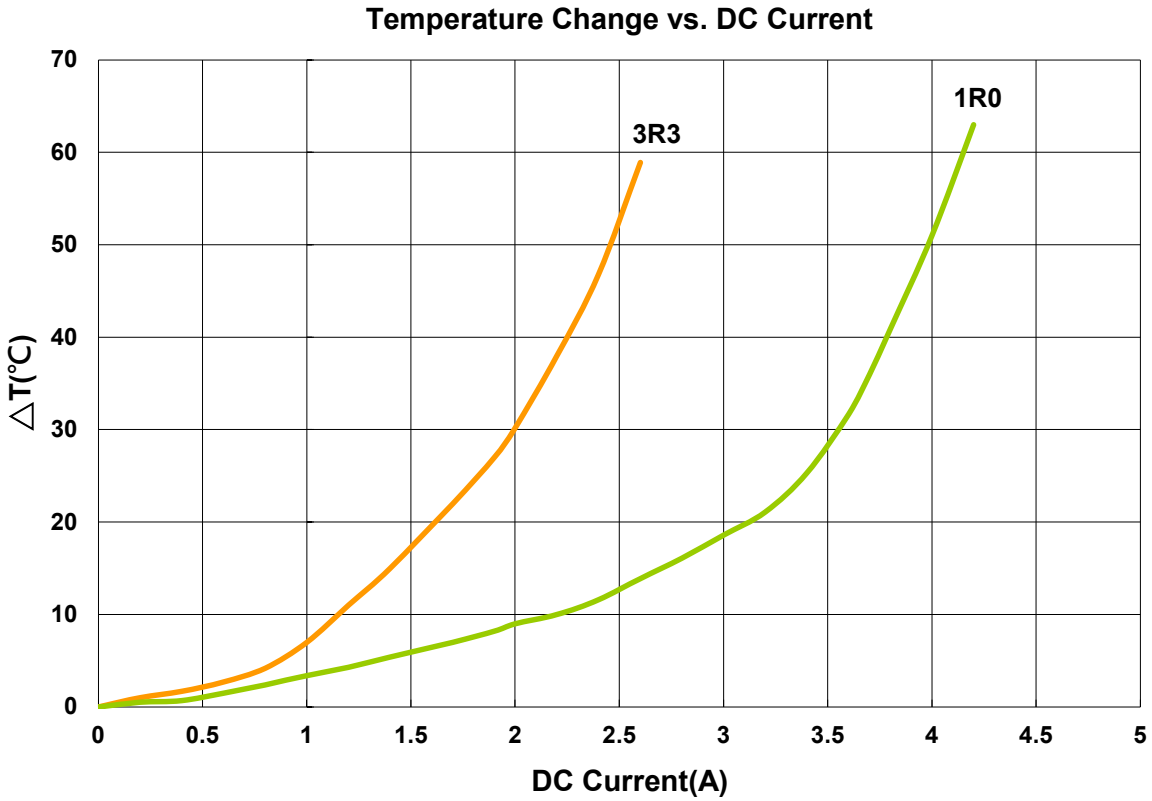
Power Inductor AWVT Series

Automotive
AEC-Q200

AWVT00404015 Type

■ Characteristics Graph





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Pulse a YAGEO company

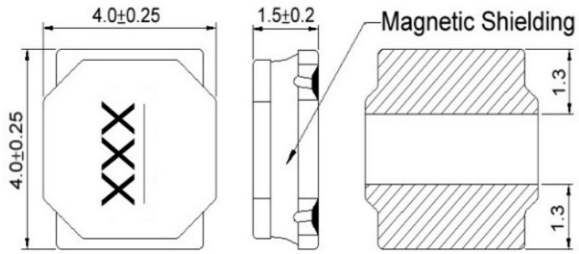
CHILISIN ELECTRONICS CORP.

Power Inductor AWVT Series

Automotive
AEC-Q200

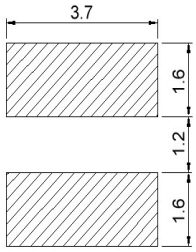
AWVT00404026 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVT00404026R47□00	0.47	100kHz,1V	0.024	7.20(6.4)	4.80(4.3)	20,30	R47
AWVT00404026R50□00	0.50	100kHz,1V	0.024	7.20(6.4)	4.80(4.3)	20,30	R50

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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Pulse a YAGEO company

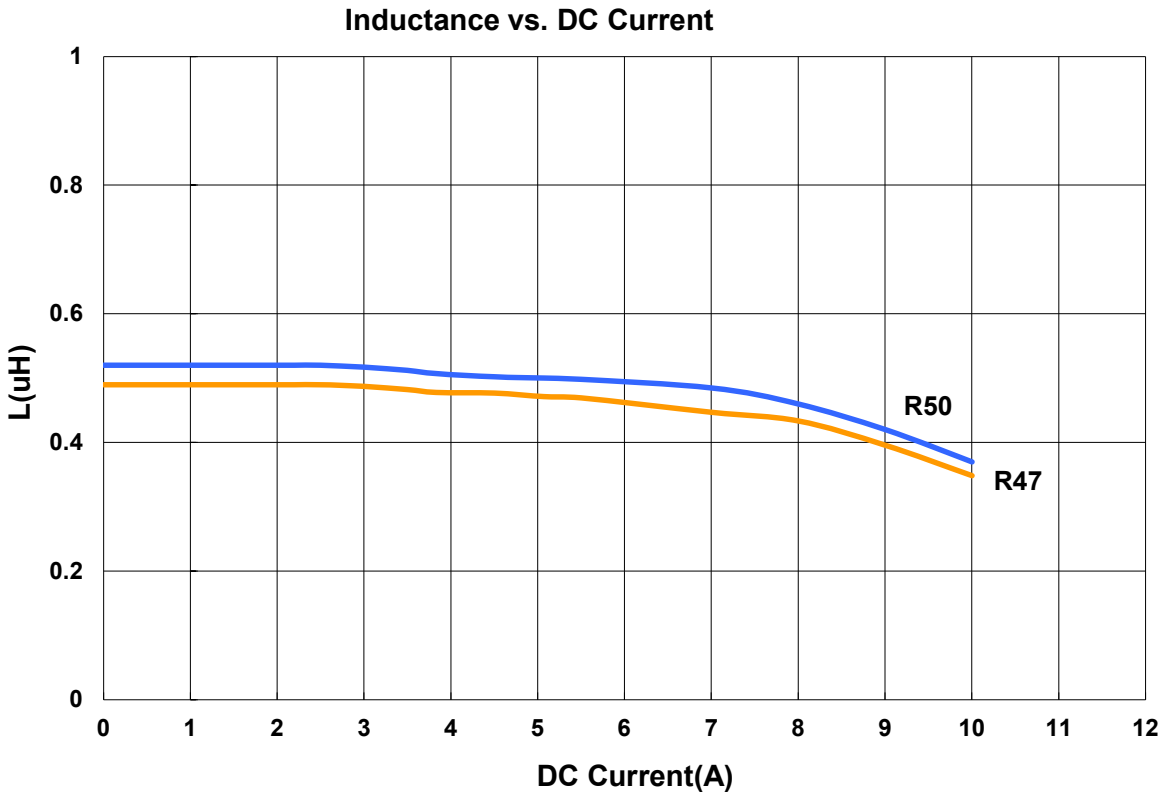
CHILISIN ELECTRONICS CORP.

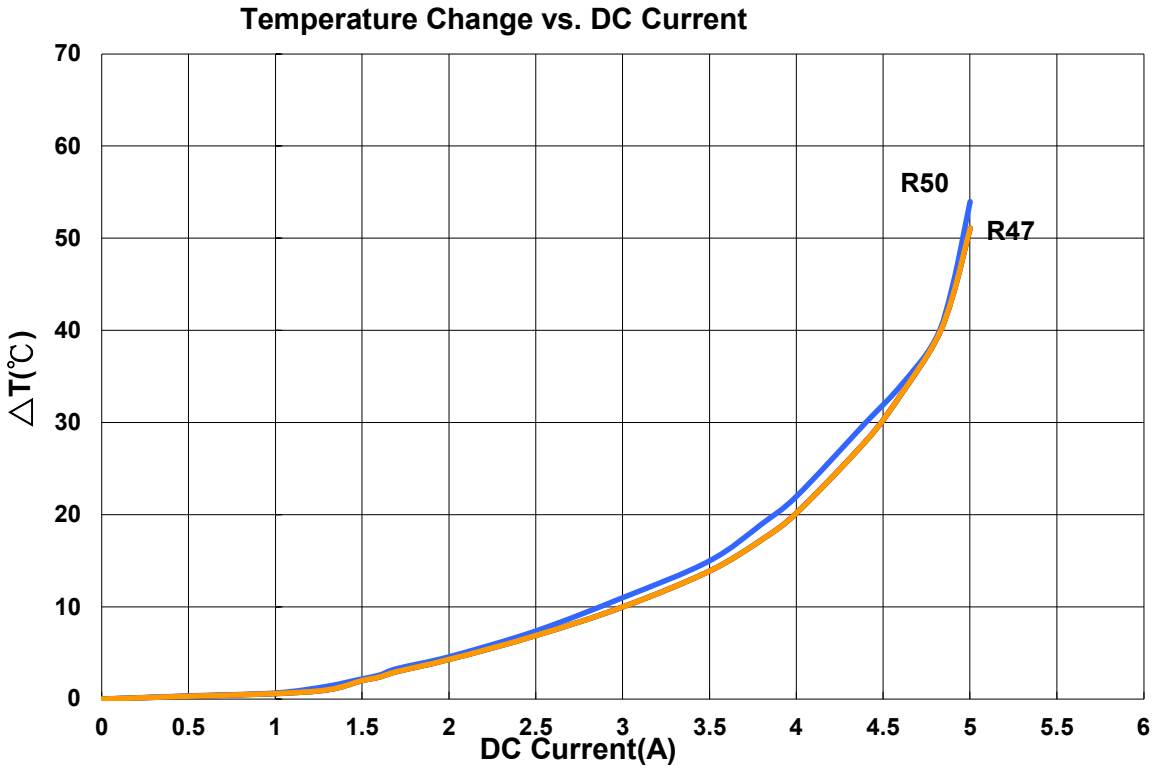
Power Inductor AWVT Series

Automotive
AEC-Q200

AWVT00404026 Type

■ Characteristics Graph





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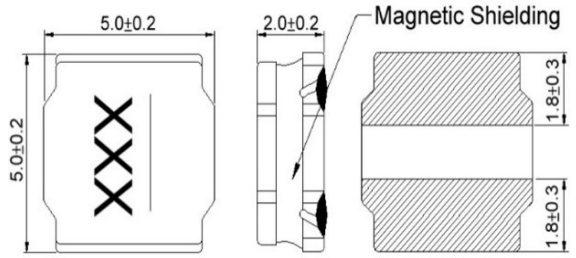
CHILISIN ELECTRONICS CORP.

Power Inductor AWVT Series

Automotive
AEC-Q200

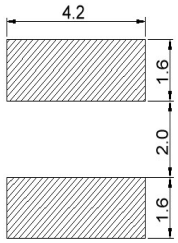
AWVT00505020 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVT00505020R47□00	0.47	100kHz,1V	0.0135	8.0(7.2)	5.5(5.0)	20,30	R47
AWVT005050203R3□00	3.3	100kHz,1V	0.050	3.4(3.00)	2.7(2.40)	20,30	3R3

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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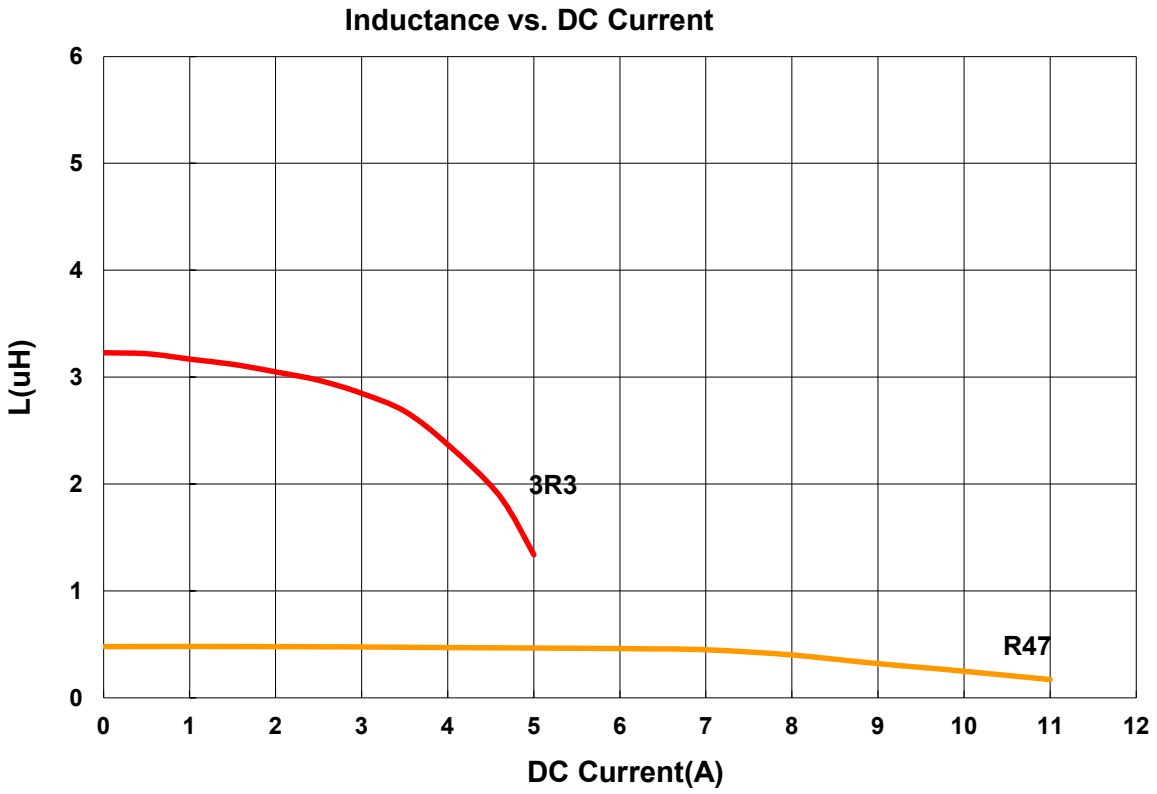
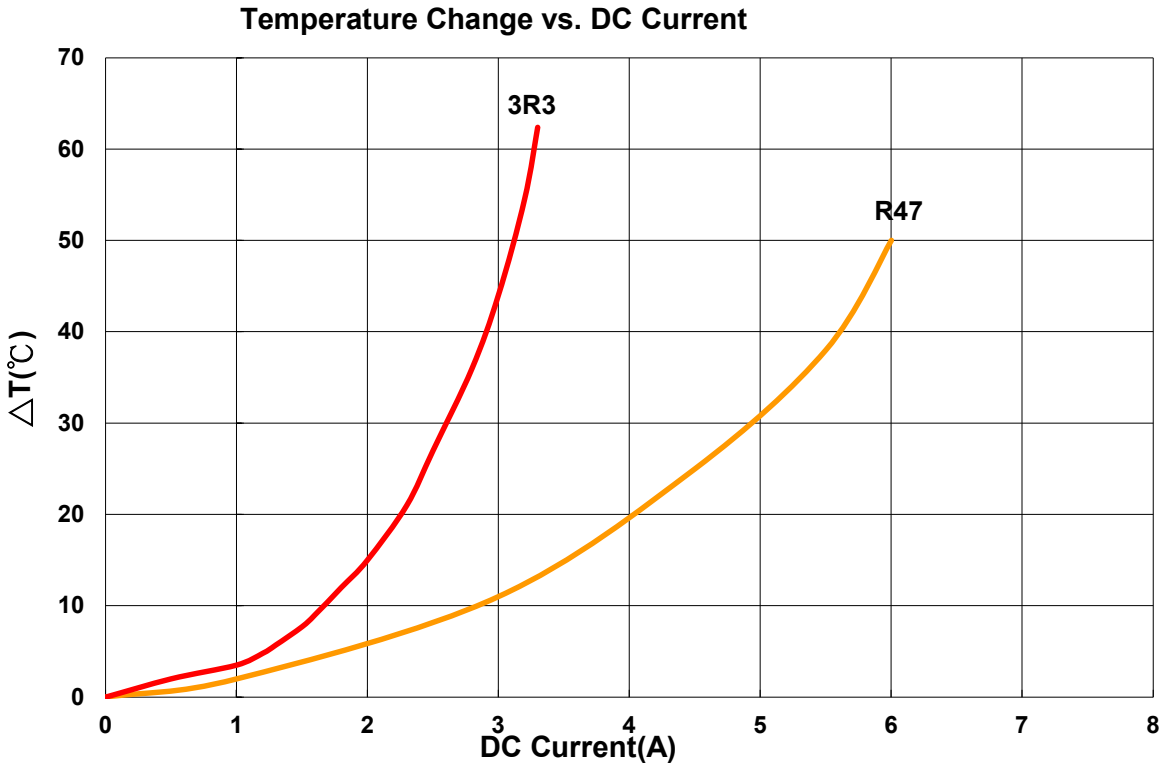
Power Inductor AWVT Series

Automotive
AEC-Q200

AWVT00505020 Type

■ Characteristics Graph





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Pulse a YAGEO company

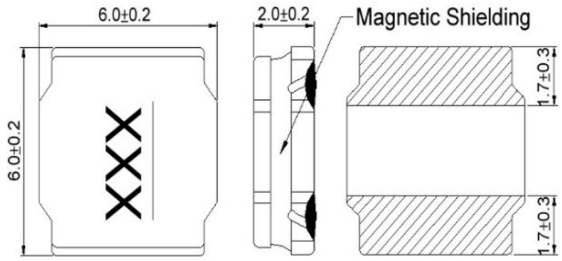
CHILISIN ELECTRONICS CORP.

Power Inductor AWVT Series

Automotive
AEC-Q200

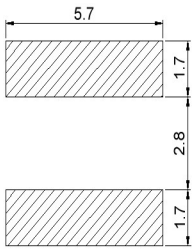
AWVT00606020 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVT006060201R0□00	1.0	100kHz,1V	0.019	6.4(5.70)	4.2(3.70)	20,30	1R0
AWVT006060201R5□00	1.5	100kHz,1V	0.026	5.4(4.80)	3.7(3.30)	20,30	1R5
AWVT006060202R2□00	2.2	100kHz,1V	0.034	4.5(4.00)	3.3(2.90)	20,30	2R2
AWVT006060203R3□00	3.3	100kHz,1V	0.045	3.6(3.20)	2.8(2.50)	20,30	3R3
AWVT006060206R8□00	6.8	100kHz,1V	0.085	2.6(2.30)	1.9(1.70)	20,30	6R8

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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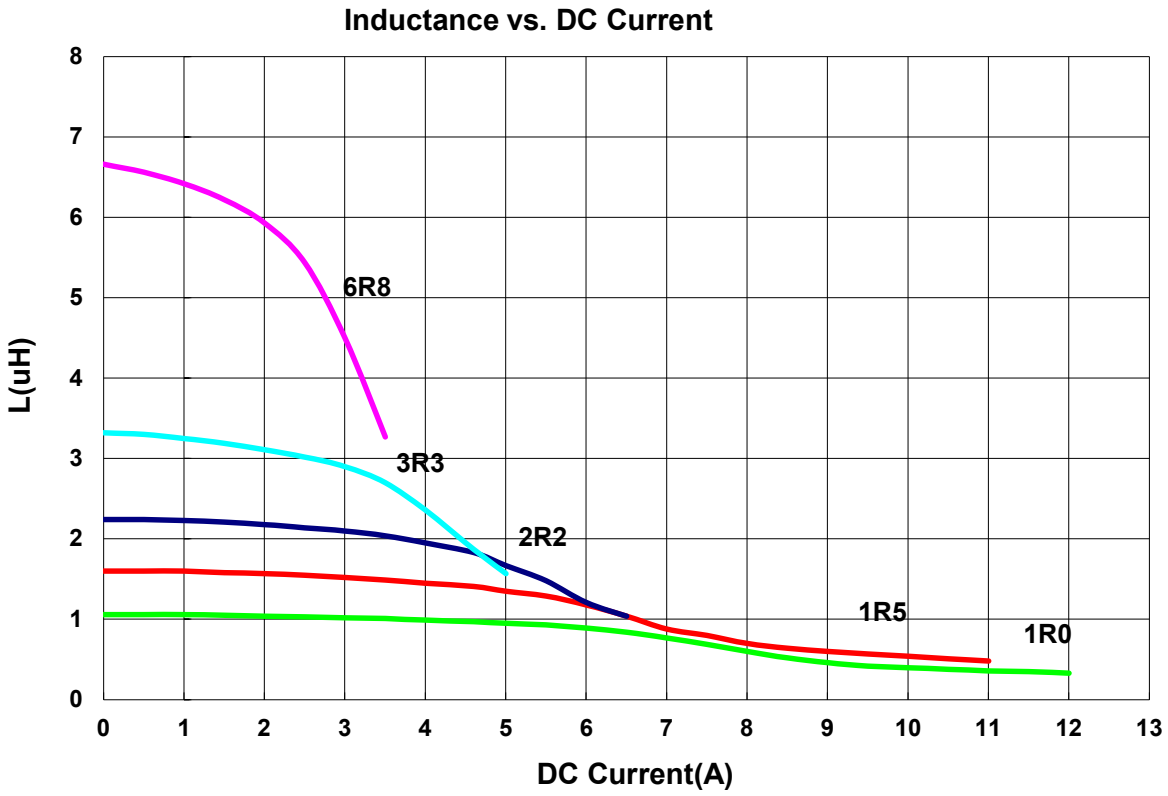
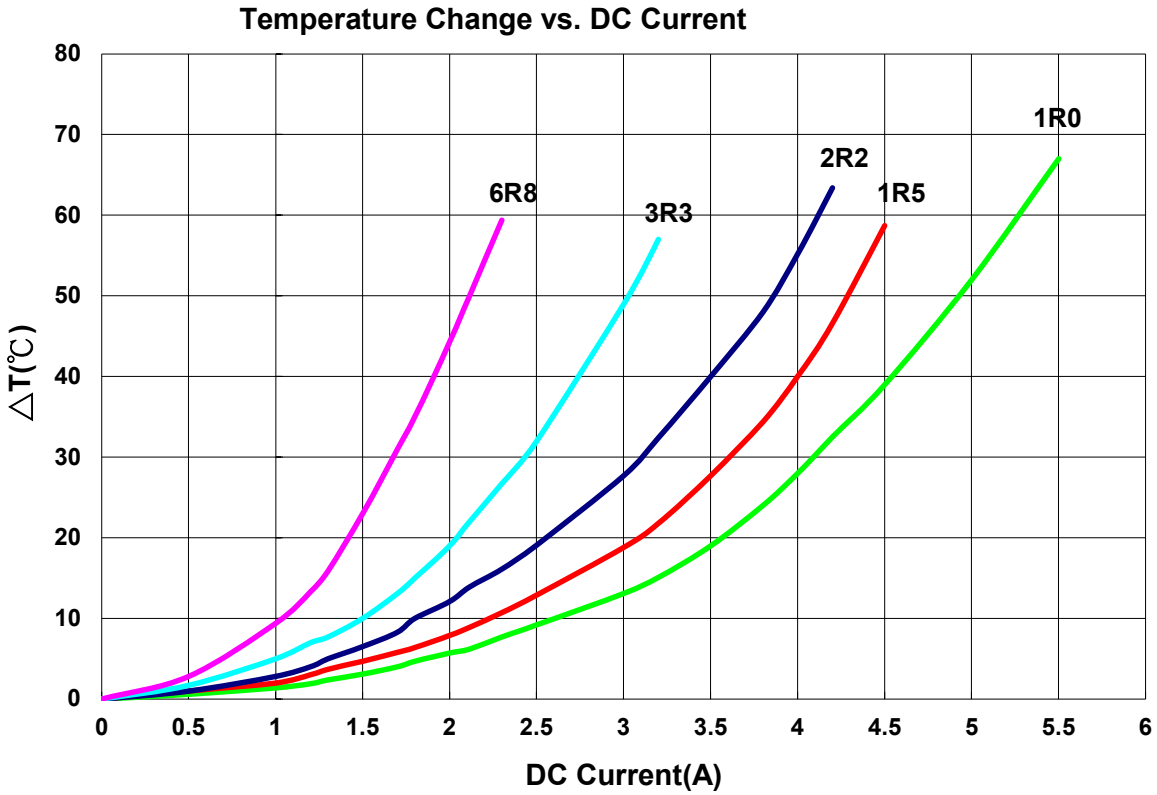
Power Inductor AWVT Series

Automotive
AEC-Q200

AWVT00606020 Type

■ Characteristics Graph





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Pulse a YAGEO company

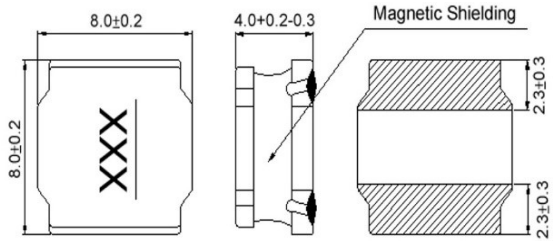
CHILISIN ELECTRONICS CORP.

Power Inductor AWVT Series

Automotive
AEC-Q200

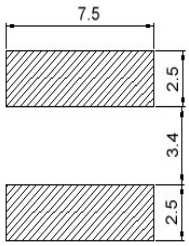
AWVT00808040 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVT008080401R0□00	1.0	100kHz,1V	0.0075	13.5(12.00)	8.1(7.10)	20,30	1R0
AWVT008080401R5□00	1.5	100kHz,1V	0.0097	10.5(9.30)	7.7(6.80)	20,30	1R5
AWVT008080402R2□00	2.2	100kHz,1V	0.0120	9.7(8.60)	7.2(6.30)	20,30	2R2
AWVT008080403R3□00	3.3	100kHz,1V	0.0170	8.0(7.10)	5.9(5.20)	20,30	3R3
AWVT008080406R8□00	6.8	100kHz,1V	0.0290	5.8(5.10)	4.9(4.30)	20,30	6R8

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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Pulse a YAGEO company

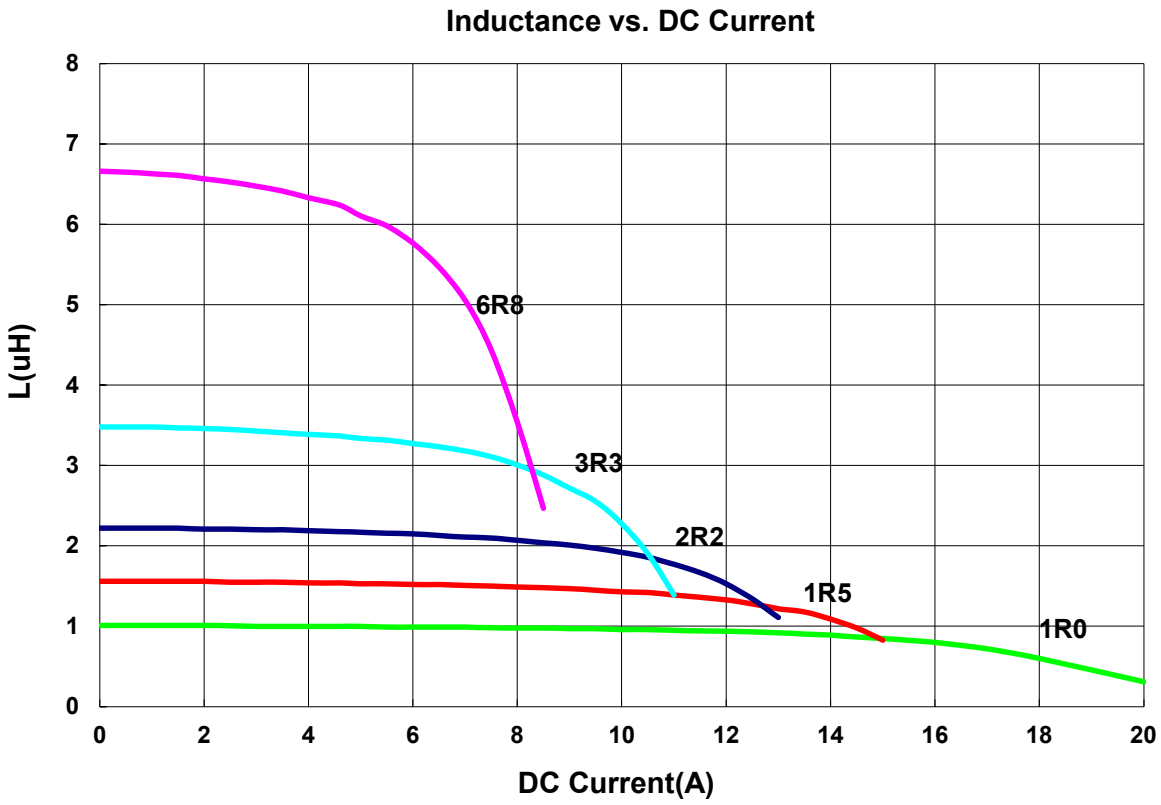
CHILISIN ELECTRONICS CORP.

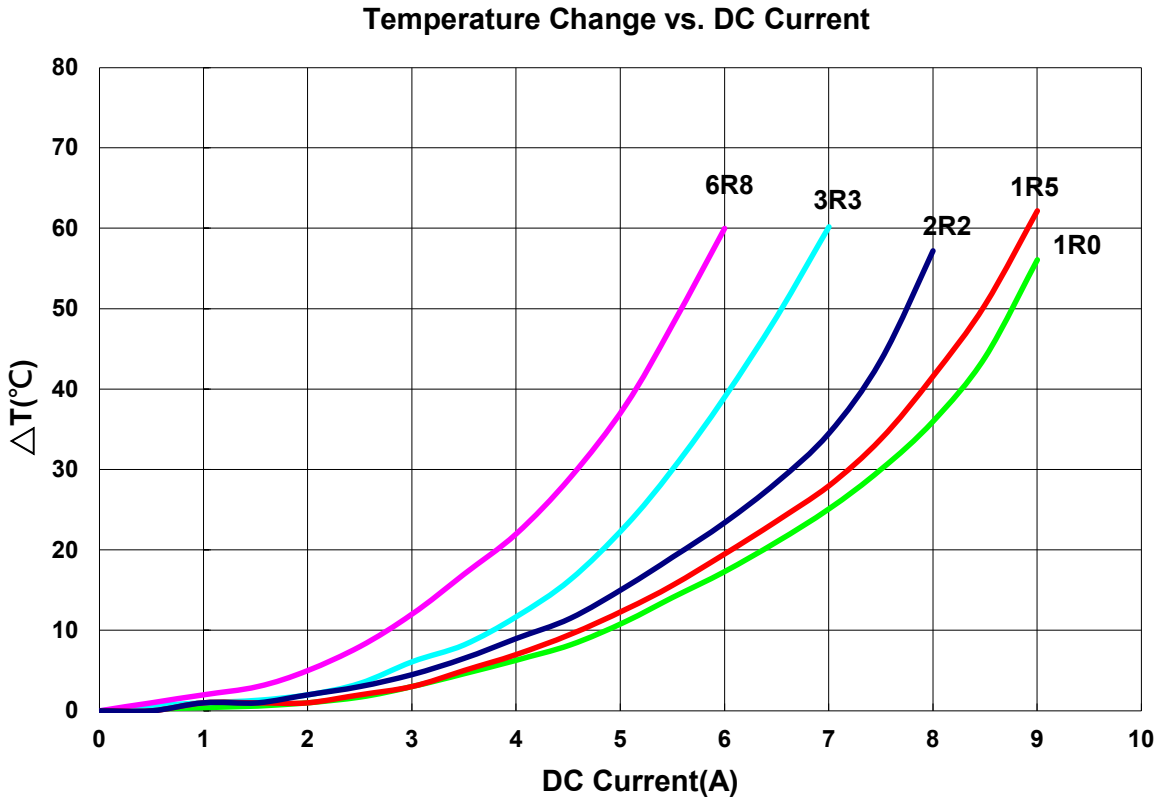
Power Inductor AWVT Series

Automotive
AEC-Q200

AWVT00808040 Type

■ Characteristics Graph





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Power Inductor AWVT Series

Automotive
AEC-Q200

■ Packaging

Tape Dimensions

Figure 1

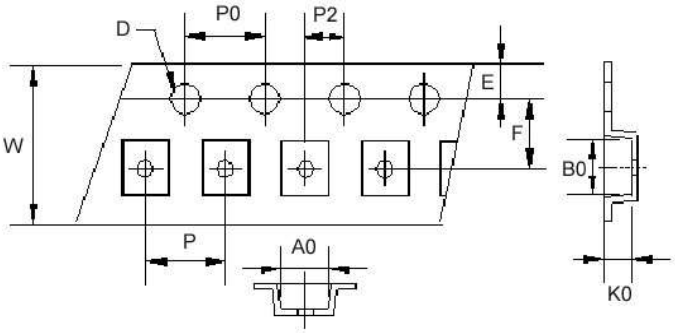
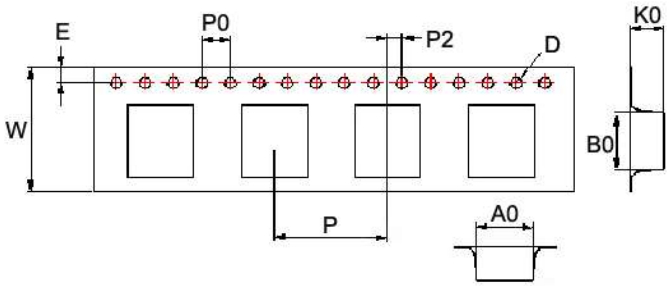


Figure 2



Reel Dimensions

Figure 1

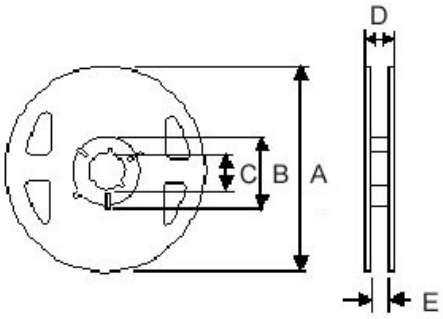
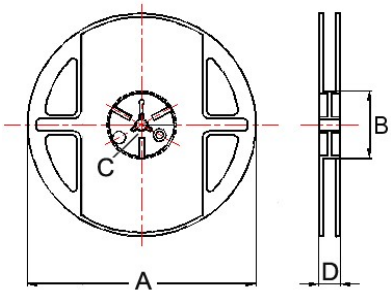


Figure 2



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
AWVT00201610	1	1.9	2.2	1.15	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
AWVT00252010	1	2.4	2.7	1.15	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
AWVT00252012	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
AWVT00303010	1	3.2	3.2	1.4	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
AWVT00303012	1	3.2	3.2	1.4	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
AWVT00404012	2	4.25	4.25	1.3	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	1000
AWVT00404015	2	4.25	4.25	1.7	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	1000
AWVT00404026	2	4.25	4.25	3	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	500
AWVT00505020	2	5.25	5.25	2.2	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	-	2000
AWVT00606020	2	6.25	6.25	2.2	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	-	2000
AWVT00808040	2	8.25	8.25	4.15	1.55	1.75	7.5	16	12	4	2	330	100	13	17.4	-	1000

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Power Inductor AWVC Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Power Circuit | Shield | Magnetic Resin LVx | Ferrite | High Current

Part Numbering

A	WVC	00	252012	1R0	M	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code

Dimensions Code	(mm)
201610	2.0x1.6x1.0
201612	2.0x1.6x1.2
252012	2.5x2.0x1.2
404018	4.0x4.0x1.9
505040	5.0x5.0x4.0
606028	6.0x6.0x2.8
606045	6.0x6.0x4.5

Inductance	(uH)
R47	0.47
1R0	1.0
101	100

Tolerance	
M	±20%
T	±30%

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Pulse a YAGEO company

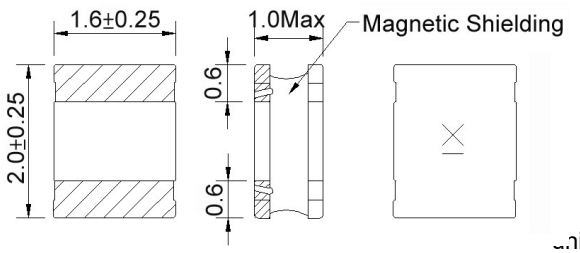
CHILISIN ELECTRONICS CORP.

Power Inductor AWVC Series

Automotive
AEC-Q200

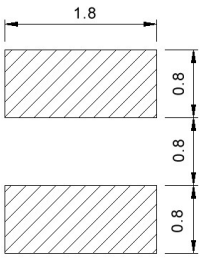
AWVC00201610 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVC00201610R24□00	0.24	1MHz,200mV	0.026	3.20(2.80)	3.00(2.70)	20,30	M
AWVC002016101R0□00	1.0	1MHz,200mV	0.095	1.80(1.60)	1.80(1.60)	20,30	B
AWVC002016101R5□00	1.5	1MHz,200mV	0.14	1.60(1.40)	1.60(1.40)	20,30	C
AWVC002016102R2□00	2.2	1MHz,200mV	0.19	1.30(1.10)	1.30(1.10)	20,30	D
AWVC002016103R3□00	3.3	1MHz,200mV	0.295	0.96(0.86)	0.98(0.88)	20,30	E
AWVC002016104R7□00	4.7	1MHz,200mV	0.36	0.84(0.75)	0.90(0.81)	20,30	F
AWVC002016106R8□00	6.8	1MHz,200mV	0.64	0.66(0.59)	0.70(0.63)	20,30	G
AWVC00201610100□00	10	1MHz,200mV	1.0	0.54(0.48)	0.56(0.50)	20,30	H
AWVC00201610150□00	15	1MHz,200mV	1.5	0.39(0.35)	0.42(0.37)	20,30	K
AWVC00201610180□00	18	1MHz,200mV	1.6	0.39(0.35)	0.41(0.36)	20,30	J
AWVC00201610220□00	22	1MHz,200mV	1.7	0.38(0.34)	0.40(0.36)	20,30	I

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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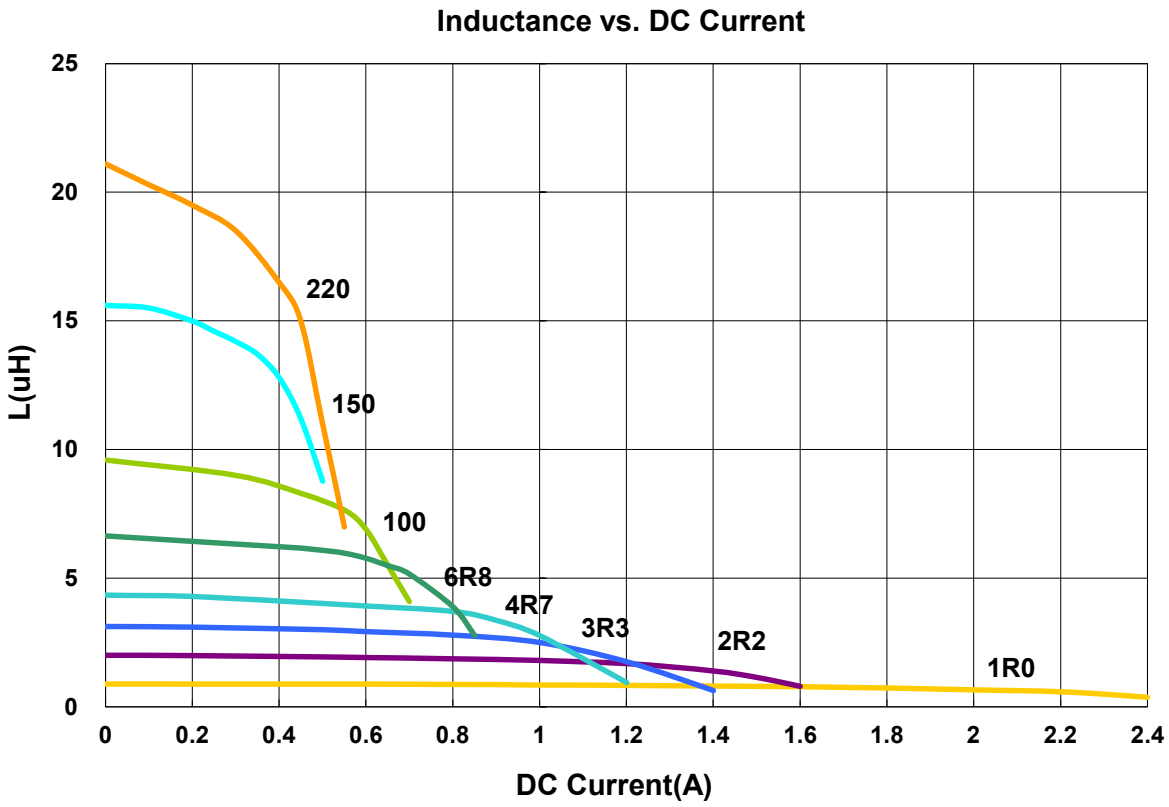
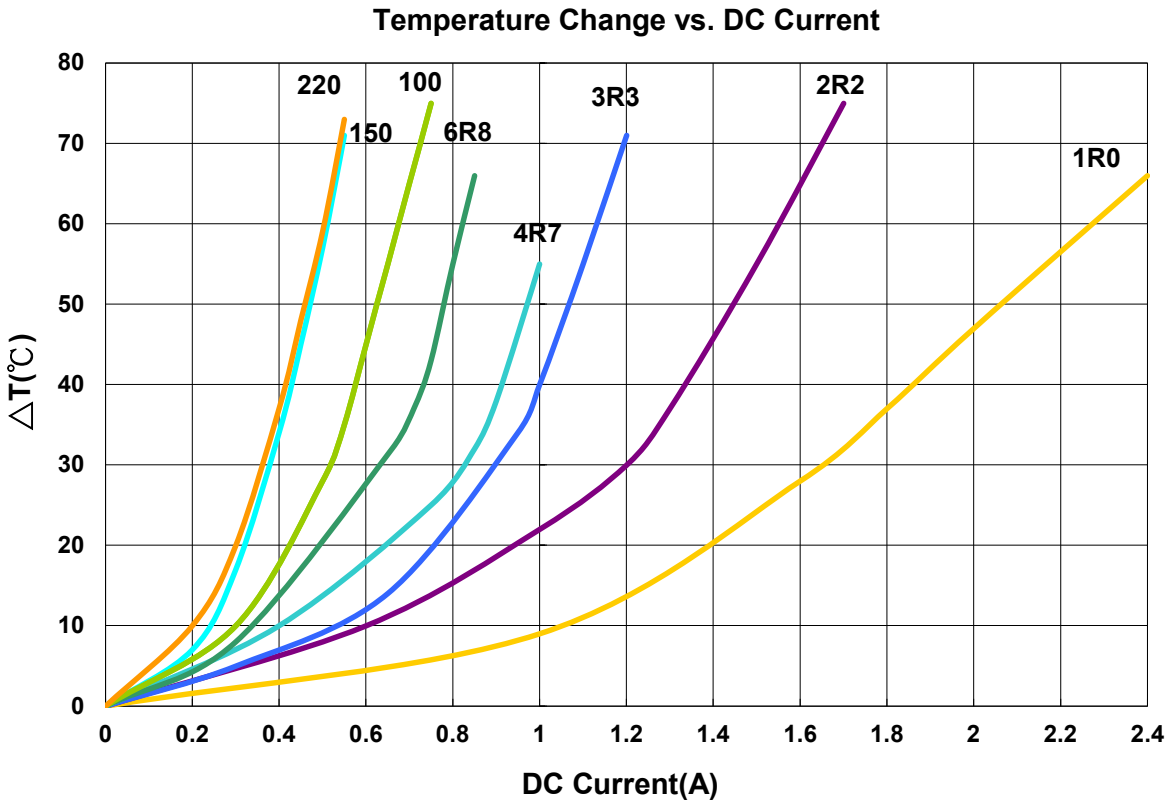
Power Inductor AWVC Series

Automotive
AEC-Q200

AWVC00201610 Type

■ Characteristics Graph





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Pulse a YAGEO company

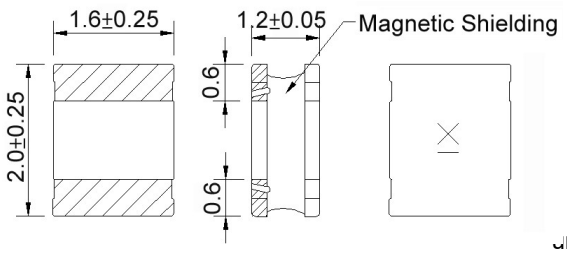
CHILISIN ELECTRONICS CORP.

Power Inductor AWVC Series

Automotive
AEC-Q200

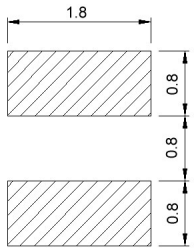
AWVC00201612 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVC00201612R50□00	0.5	1MHz,200mV	0.051	2.60(2.30)	2.30(2.00)	20,30	B
AWVC002016121R0□00	1.0	1MHz,200mV	0.083	1.90(1.70)	1.80(1.60)	20,30	C
AWVC002016122R2□00	2.2	1MHz,200mV	0.159	1.30(1.20)	1.30(1.20)	20,30	E
AWVC002016123R3□00	3.3	1MHz,200mV	0.22	1.10(0.99)	1.00(0.95)	20,30	F
AWVC002016124R7□00	4.7	1MHz,200mV	0.33	0.92(0.82)	0.90(0.81)	20,30	G
AWVC00201612100□00	10	1MHz,200mV	0.58	0.62(0.55)	0.58(0.52)	20,30	I
AWVC00201612150□00	15	1MHz,200mV	0.9	0.48(0.43)	0.45(0.40)	20,30	J
AWVC00201612220□00	22	1MHz,200mV	1.4	0.40(0.36)	0.40(0.36)	20,30	K

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
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   Irms: Agilent HP4284A

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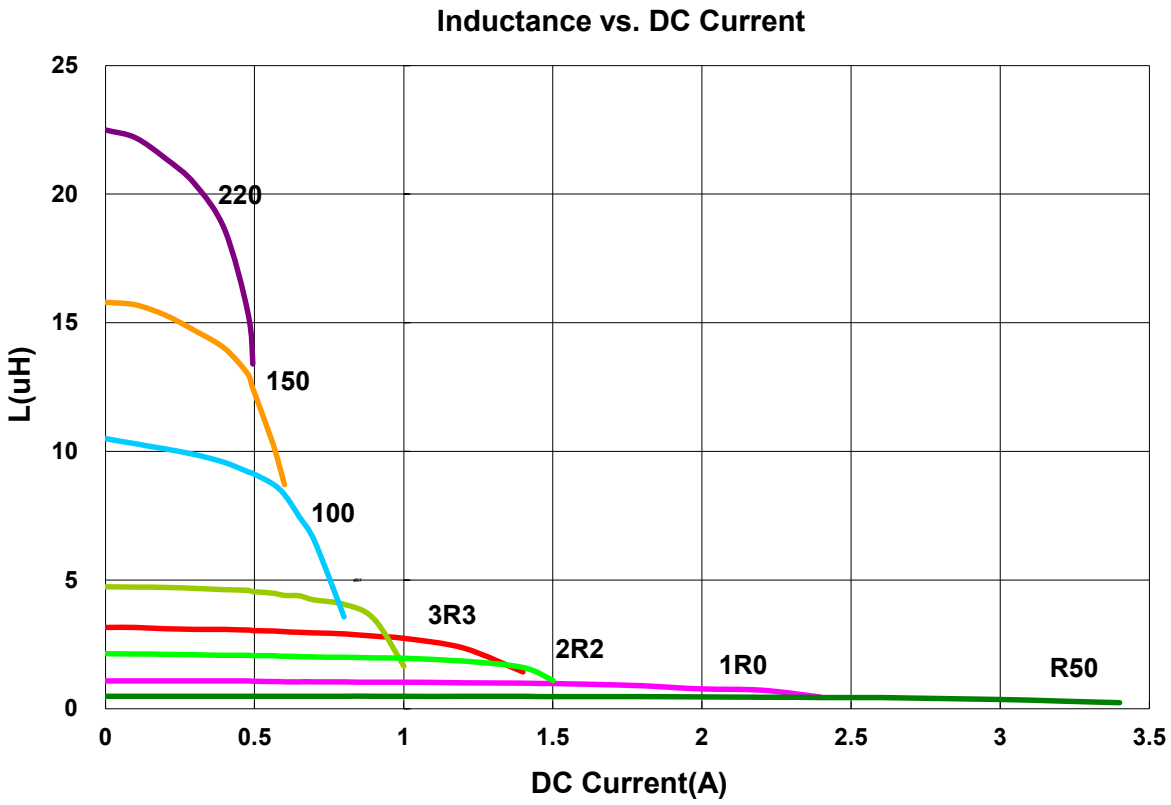
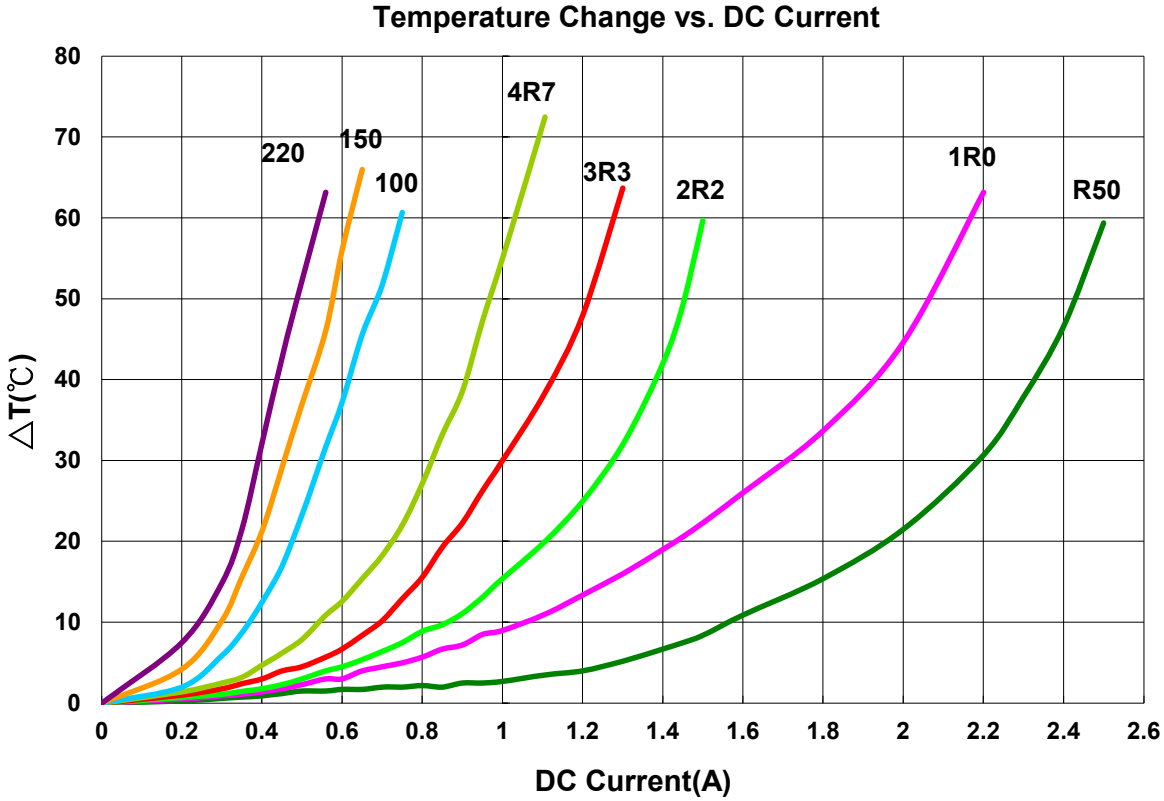
Power Inductor AWVC Series

Automotive
AEC-Q200

AWVC00201612 Type

■ Characteristics Graph





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Pulse a YAGEO company

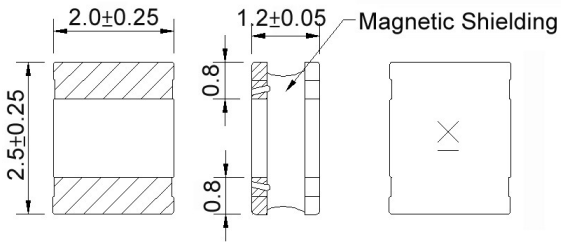
CHILISIN ELECTRONICS CORP.

Power Inductor AWVC Series

Automotive
AEC-Q200

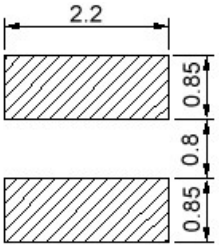
AWVC00252012 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVC00252012R68□00	0.68	1MHz,200mV	0.035	2.80(2.50)	2.60(2.30)	20,30	N

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current.
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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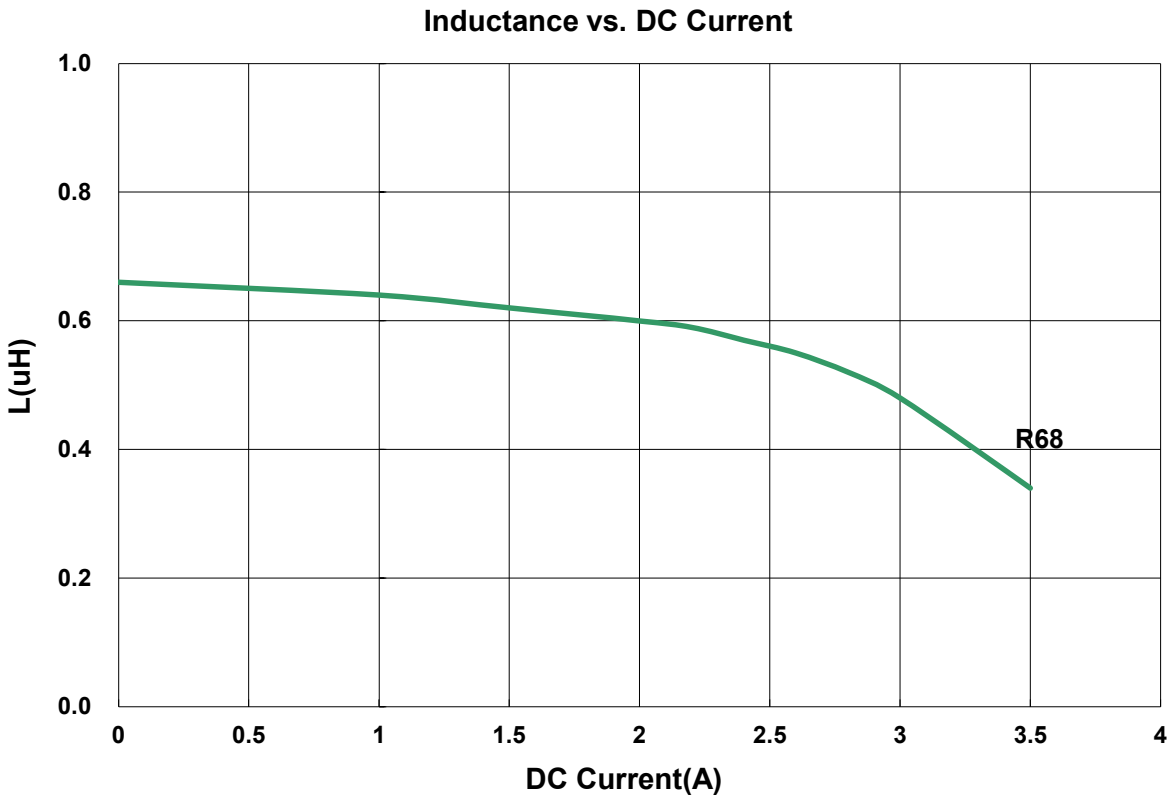
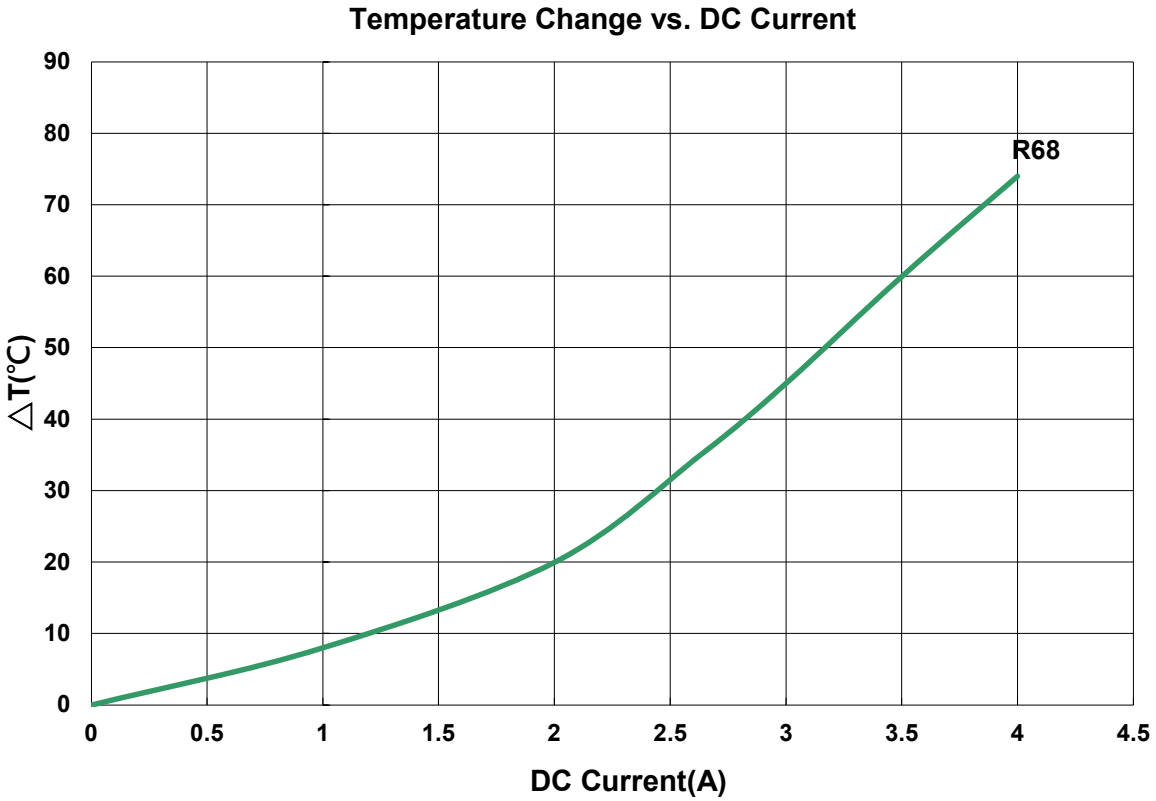
Power Inductor AWVC Series

Automotive
AEC-Q200

AWVC00252012 Type

■ Characteristics Graph





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Pulse a YAGEO company

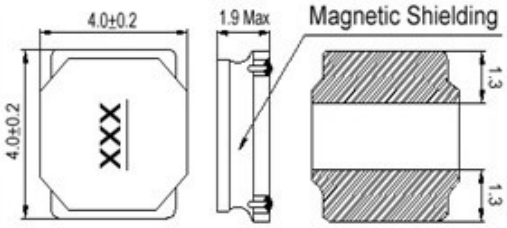
CHILISIN ELECTRONICS CORP.

Power Inductor AWVC Series

Automotive
AEC-Q200

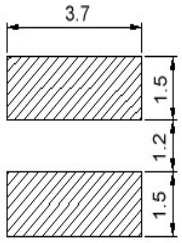
AWVC00404018 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVC004040181R2□00	1.2	100kHz,1V	0.027	3.70(3.30)	3.60(3.20)	20,30	1R2
AWVC004040184R7□00	4.7	100kHz,1V	0.077	2.00(1.80)	1.80(1.60)	20,30	4R7
AWVC004040186R8□00	6.8	100kHz,1V	0.105	1.50(1.30)	1.35(1.20)	20,30	6R8
AWVC00404018100□00	10	100kHz,1V	0.160	1.40(1.20)	1.20(1.00)	20,30	100
AWVC00404018150□00	15	100kHz,1V	0.245	1.05(0.94)	0.95(0.85)	20,30	150
AWVC00404018220□00	22	100kHz,1V	0.335	0.90(0.81)	0.88(0.79)	20,30	220

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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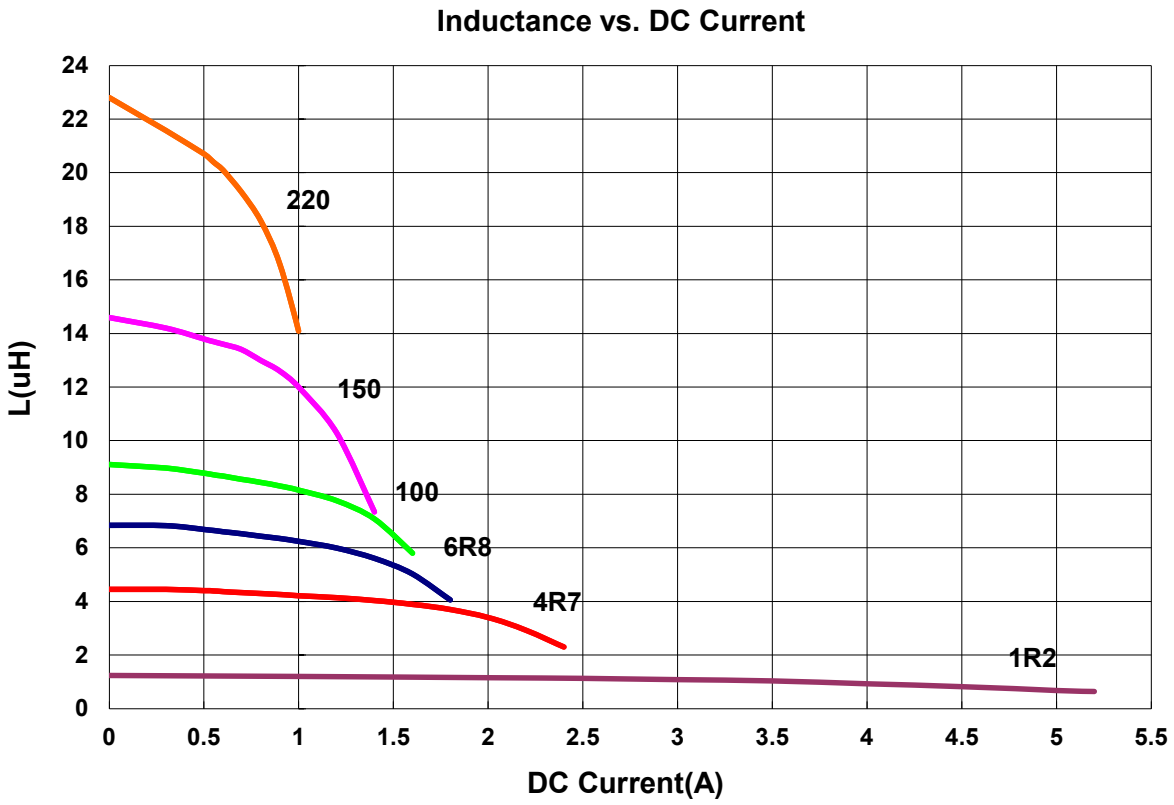
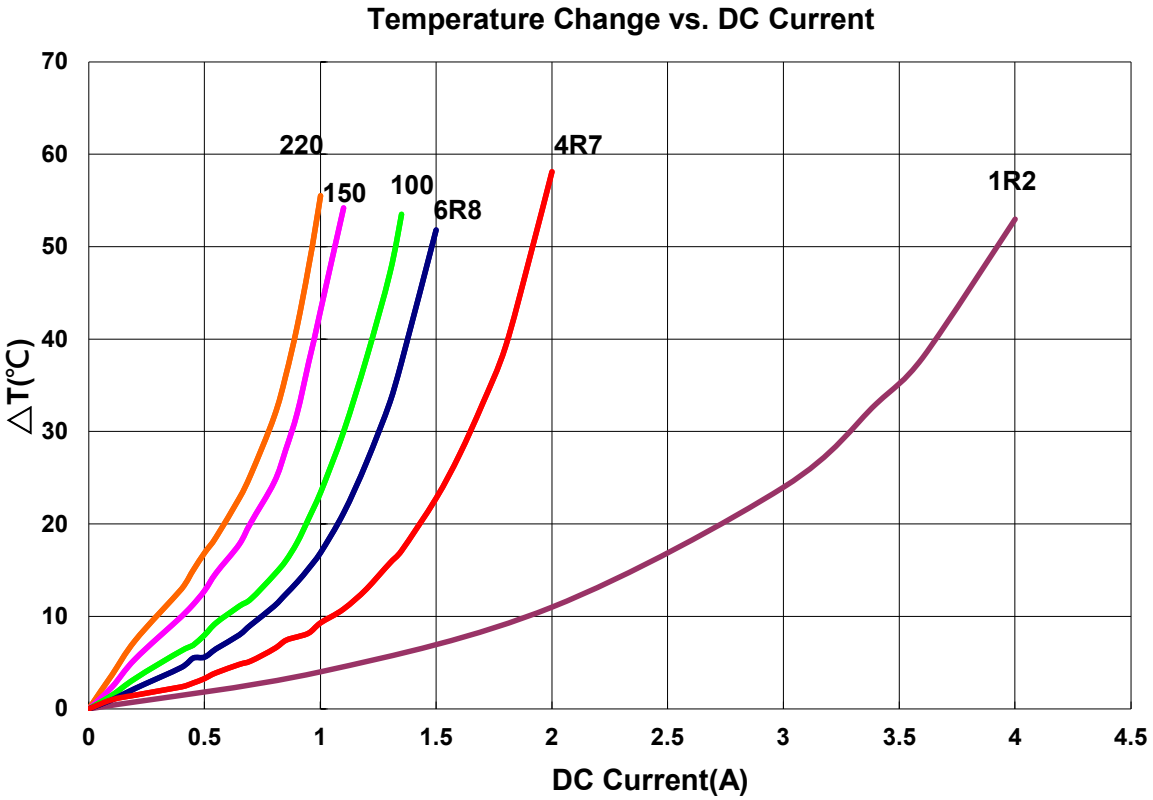
Power Inductor AWVC Series

Automotive
AEC-Q200

AWVC00404018 Type

■ Characteristics Graph





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Pulse a YAGEO company

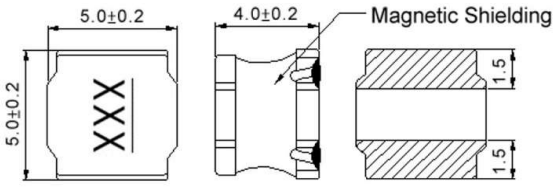
CHILISIN ELECTRONICS CORP.

Power Inductor AWVC Series

Automotive
AEC-Q200

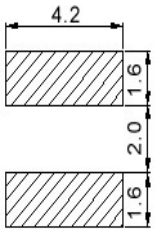
AWVC00505040 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVC005050401R0□00	1.0	100kHz,1V	0.012	8.8(7.9)	5.9(5.3)	20,30	1R0
AWVC005050401R5□00	1.5	100kHz,1V	0.014	7.9(7.1)	5.4(4.8)	20,30	1R5
AWVC005050402R2□00	2.2	100kHz,1V	0.020	6.8(6.1)	4.5(4.0)	20,30	2R2
AWVC005050402R7□00	2.7	100kHz,1V	0.026	6.0(5.4)	4.2(3.7)	20,30	2R7
AWVC005050403R3□00	3.3	100kHz,1V	0.026	5.3(4.7)	4.2(3.7)	20,30	3R3
AWVC005050404R7□00	4.7	100kHz,1V	0.032	4.4(3.9)	3.2(2.8)	20,30	4R7
AWVC005050406R8□00	6.8	100kHz,1V	0.050	3.8(3.4)	3.0(2.7)	20,30	6R8
AWVC005050408R2□00	8.2	100kHz,1V	0.065	3.3(2.9)	2.4(2.1)	20,30	8R2
AWVC00505040100□00	10	100kHz,1V	0.070	3.0(2.70)	2.3(2.0)	20,30	100
AWVC00505040150□00	15	100kHz,1V	0.115	2.4(2.1)	1.8(1.6)	20,30	150
AWVC00505040220□00	22	100kHz,1V	0.160	2.0(1.80)	1.6(1.4)	20,30	220
AWVC00505040151□00	150	100kHz,1V	1.180	0.74(0.66)	0.58(0.52)	20,30	151
AWVC00505040181□00	180	100kHz,1V	1.250	0.67(0.60)	0.54(0.48)	20,30	181
AWVC00505040221□00	220	100kHz,1V	1.450	0.65(0.58)	0.50(0.45)	20,30	221

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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Pulse a YAGEO company

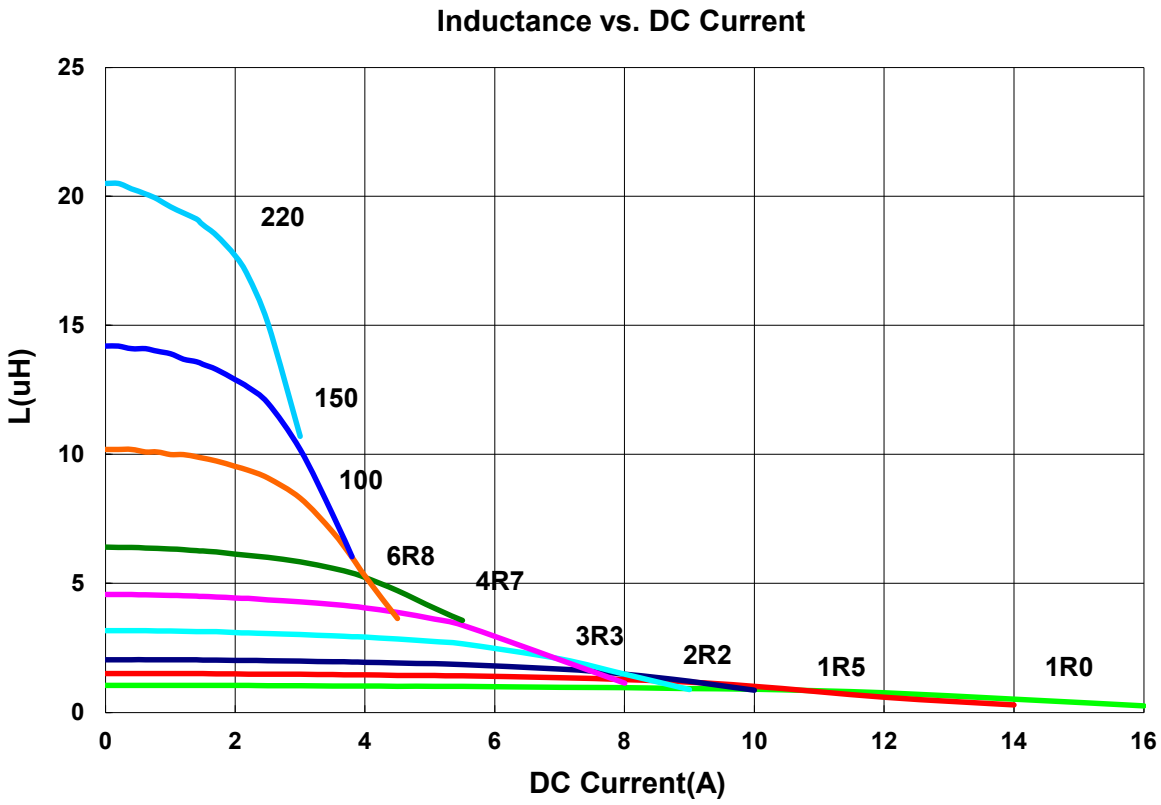
CHILISIN ELECTRONICS CORP.

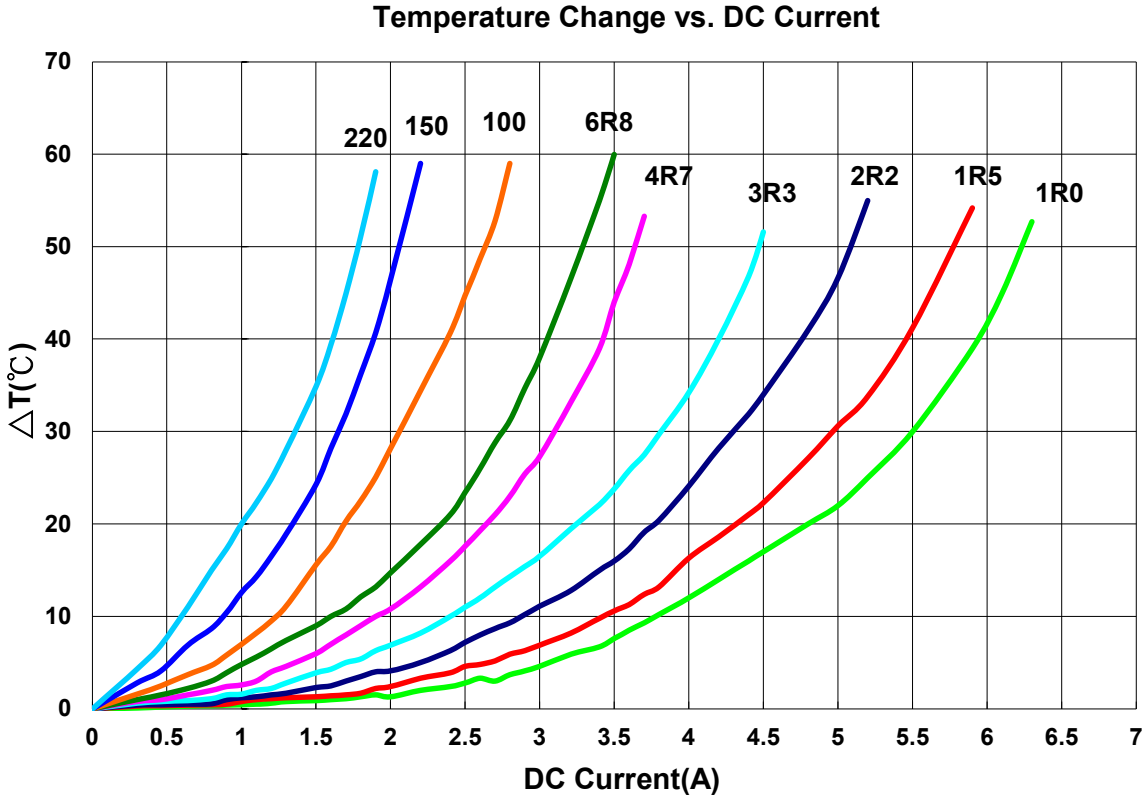
Power Inductor AWVC Series

Automotive
AEC-Q200

AWVC00505040 Type

■ Characteristics Graph





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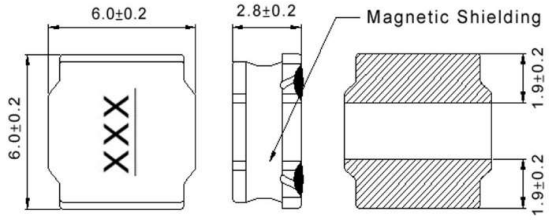
CHILISIN ELECTRONICS CORP.

Power Inductor AWVC Series

Automotive
AEC-Q200

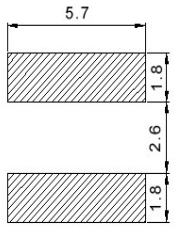
AWVC00606028 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVC006060283R3□00	3.3	100kHz,1V	0.027	4.5(4.00)	4.0(3.60)	20,30	3R3
AWVC00606028100□00	10	100kHz,1V	0.065	2.6(2.30)	2.5(2.20)	20,30	100
AWVC00606028150□00	15	100kHz,1V	0.093	2.1(1.80)	2.0(1.80)	20,30	150
AWVC00606028220□00	22	100kHz,1V	0.135	1.7(1.50)	1.65(1.40)	20,30	220

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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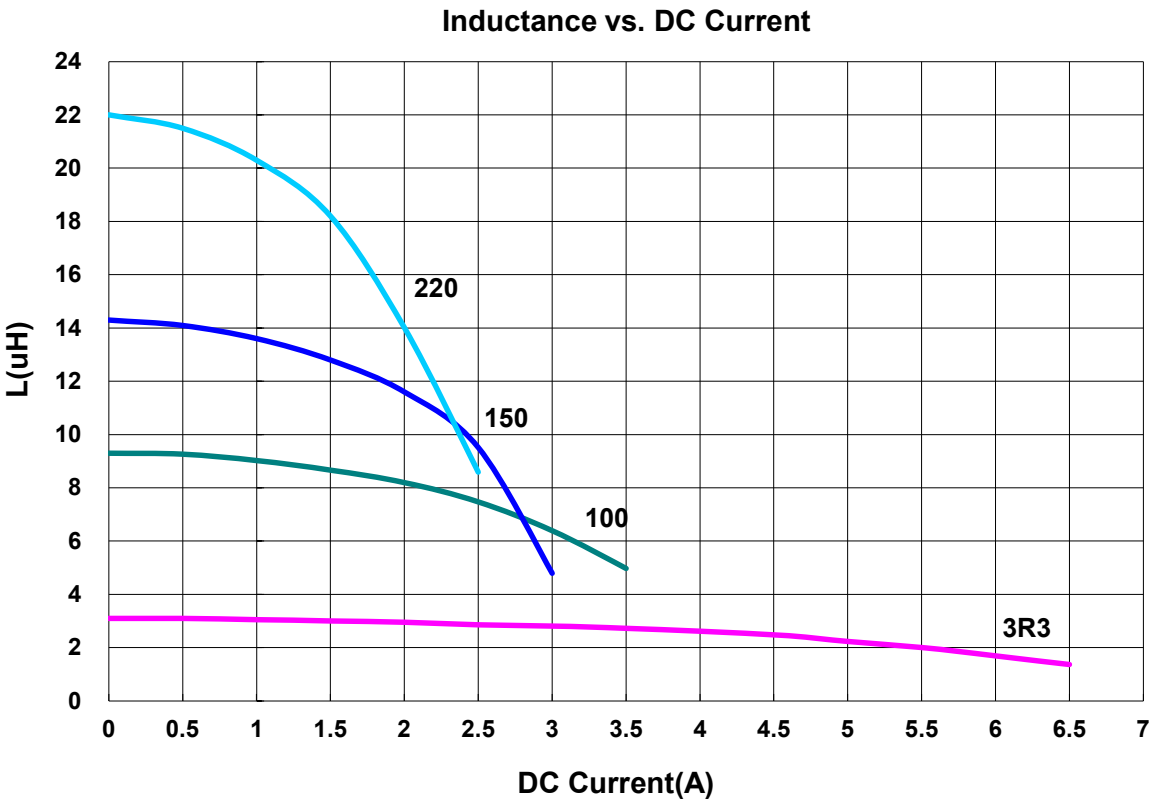
CHILISIN ELECTRONICS CORP.

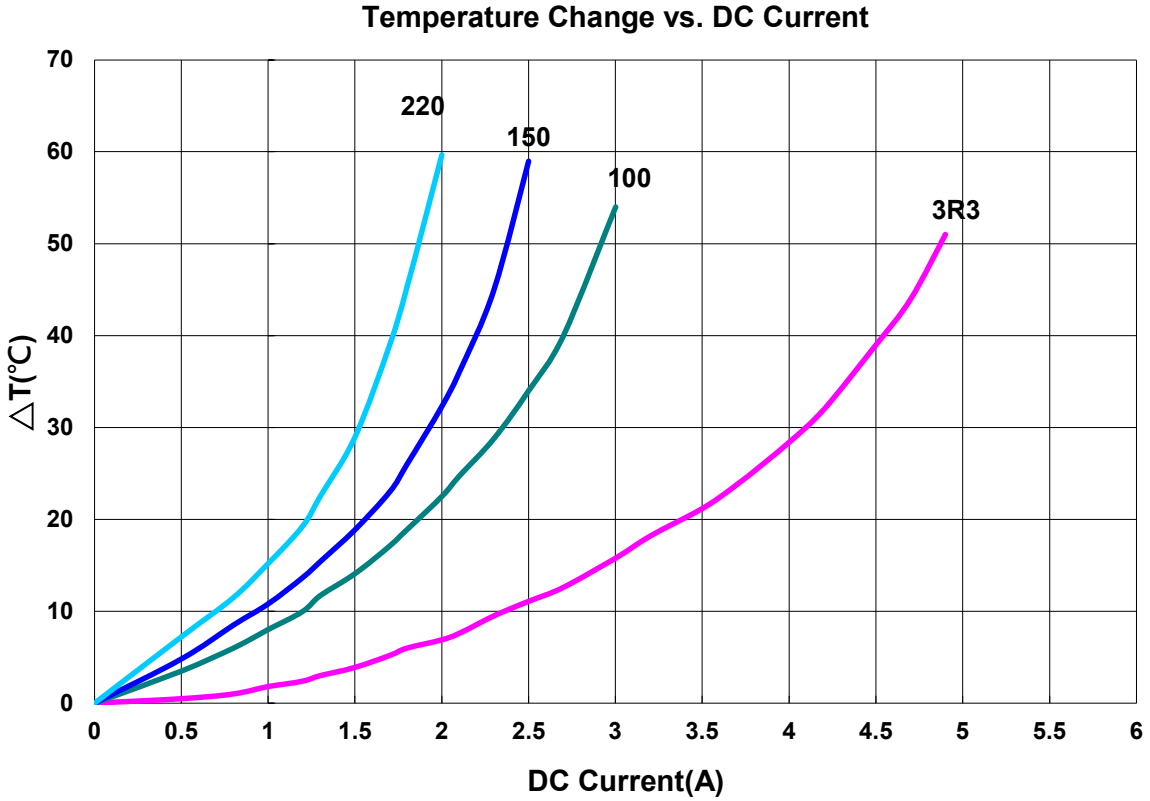
Power Inductor AWVC Series

Automotive
AEC-Q200

AWVC00606028 Type

■ Characteristics Graph





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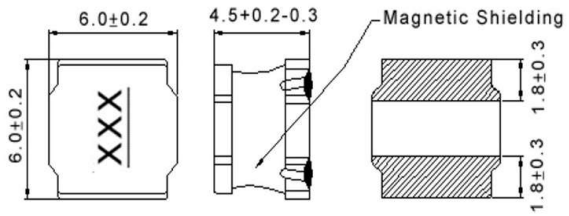
CHILISIN ELECTRONICS CORP.

Power Inductor AWVC Series

Automotive
AEC-Q200

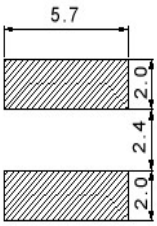
AWVC00606045 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVC006060451R0□00	1	100kHz,1V	0.010	13(11.50)	7.3(6.50)	20,30	1R0
AWVC006060451R5□00	1.5	100kHz,1V	0.012	12(10.50)	6.6(5.90)	20,30	1R5
AWVC006060452R2□00	2.2	100kHz,1V	0.018	9.5(8.50)	5.2(4.60)	20,30	2R2
AWVC006060453R3□00	3.3	100kHz,1V	0.022	7.8(7.00)	4.4(3.90)	20,30	3R3
AWVC006060454R7□00	4.7	100kHz,1V	0.030	6.8(6.10)	4.0(3.60)	20,30	4R7
AWVC006060456R8□00	6.8	100kHz,1V	0.042	5.7(5.10)	3.3(2.90)	20,30	6R8
AWVC00606045100□00	10	100kHz,1V	0.060	4.6(4.10)	2.6(2.30)	20,30	100
AWVC00606045150□00	15	100kHz,1V	0.090	3.8(3.40)	2.2(1.90)	20,30	150
AWVC00606045220□00	22	100kHz,1V	0.130	3.3(2.90)	1.9(1.70)	20,30	220

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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Pulse a YAGEO company

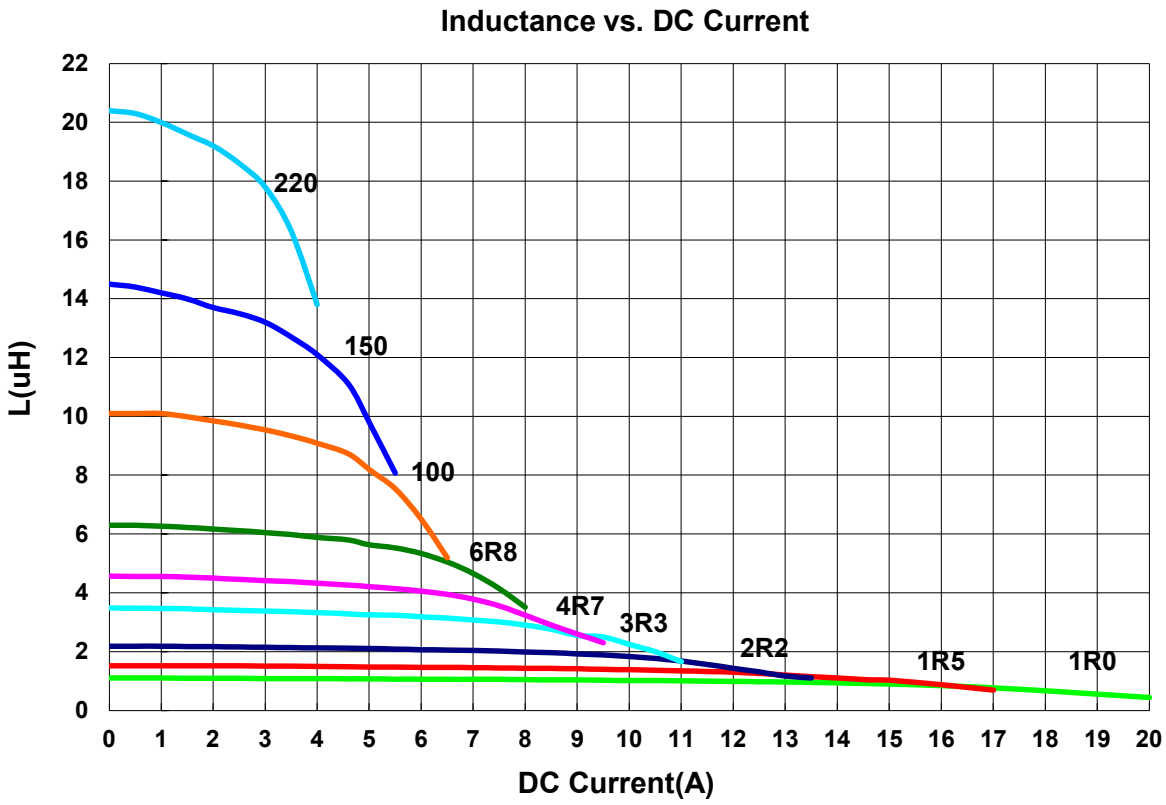
CHILISIN ELECTRONICS CORP.

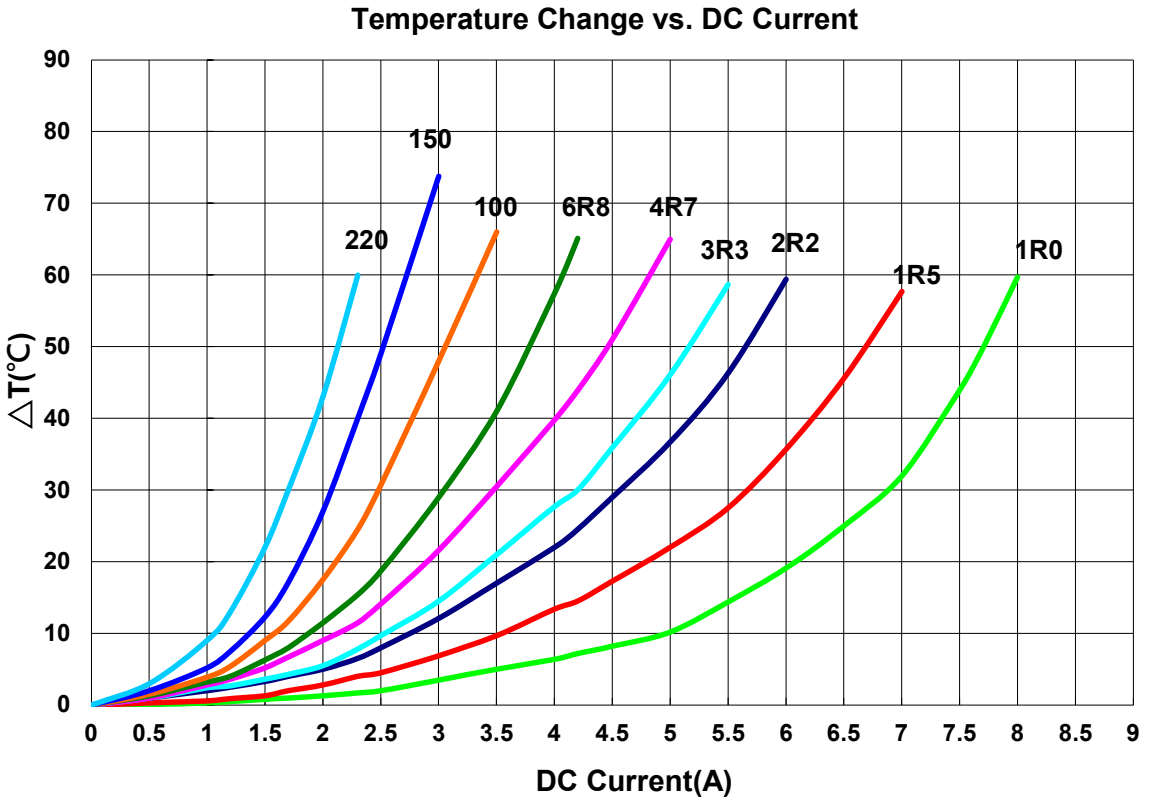
Power Inductor AWVC Series

Automotive
AEC-Q200

AWVC00606045 Type

■ Characteristics Graph





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Power Inductor AWVC Series

Automotive
AEC-Q200

Packaging

Tape Dimensions

Figure 1

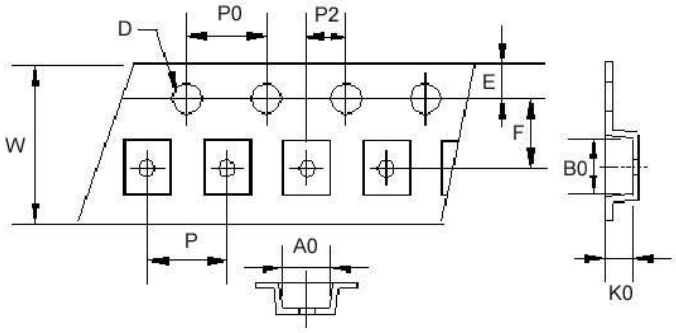
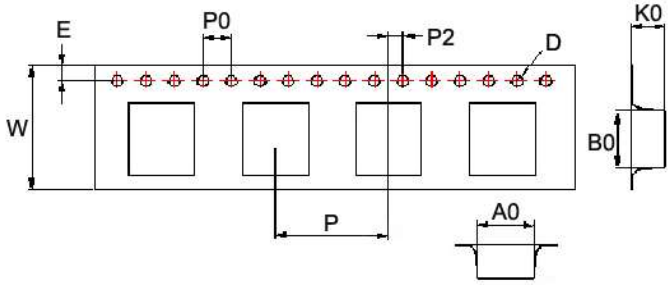


Figure 2



Reel Dimensions

Figure 1

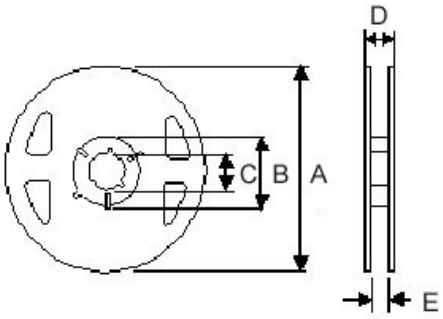
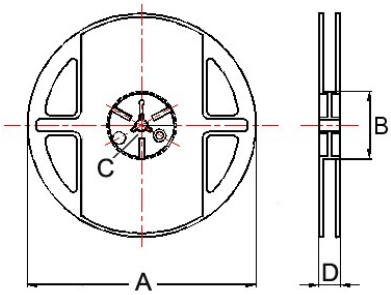


Figure 2



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
AWVC00201610	1	1.9	2.2	1.15	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
AWVC00201612	1	1.9	2.2	1.3	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
AWVC00252012	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
AWVC00404018	2	4.25	4.25	2.1	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	800
AWVC00505040	2	5.2	5.2	4.2	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	-	1500
AWVC00606028	2	6.25	6.25	3.00	1.55	1.75	7.5	16	12	4	2	330	100	13	16	-	1500
AWVC00606045	2	6.2	6.2	4.65	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	-	1000

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Power Inductor AWVH Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Power Circuit | Shield | Magnetic Resin LVx | Ferrite | High Current

■ Part Numbering

A	WVH	00	252012	1R0	M	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			201610 2.0x1.6x1.02	R47 0.47	M ±20%	00 General
			252010 2.5x2.0x1.0	1R0 1.0	T ±30%	H1 High Current
			252012 2.5x2.0x1.2	101 100		
			404030 4.0x4.0x3.0			

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Pulse a YAGEO company

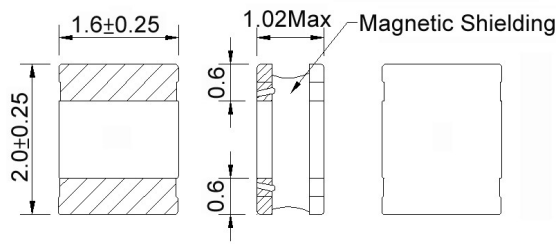
CHILISIN ELECTRONICS CORP.

Power Inductor AWVH Series

Automotive
AEC-Q200

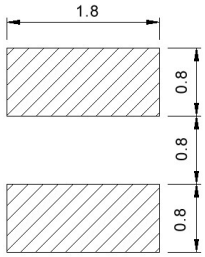
AWVH00201610-H1 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)
AWVH00201610R24□H1	0.24	1MHz,200mV	0.048	3.70(3.30)	2.50(2.10)	20,30
AWVH00201610R33□H1	0.33	1MHz,200mV	0.048	3.40(3.00)	2.50(2.10)	20,30
AWVH00201610R47□H1	0.47	1MHz,200mV	0.072	2.90(2.60)	2.10(1.80)	20,30
AWVH00201610R56□H1	0.56	1MHz,200mV	0.072	2.70(2.40)	2.10(1.80)	20,30
AWVH00201610R68□H1	0.68	1MHz,200mV	0.092	2.50(2.20)	1.80(1.50)	20,30
AWVH002016101R0□H1	1.0	1MHz,200mV	0.110	2.20(2.00)	1.50(1.20)	20,30
AWVH002016102R2□H1	2.2	1MHz,200mV	0.205	1.40(1.20)	1.15(0.97)	20,30
AWVH002016103R3□H1	3.3	1MHz,200mV	0.380	1.05(0.94)	0.90(0.80)	20,30
AWVH002016104R7□H1	4.7	1MHz,200mV	0.520	0.90(0.80)	0.80(0.68)	20,30
AWVH00201610100□H1	10	1MHz,200mV	1.100	0.62(0.55)	0.45(0.38)	20,30

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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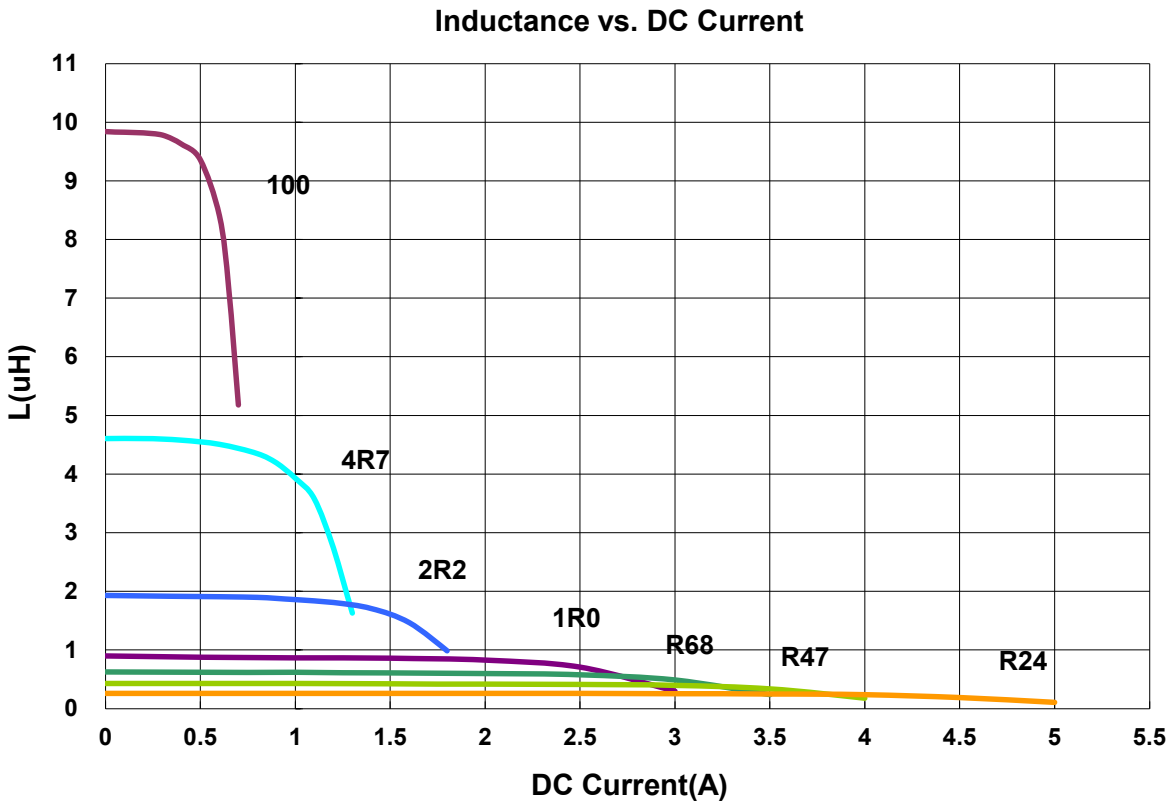
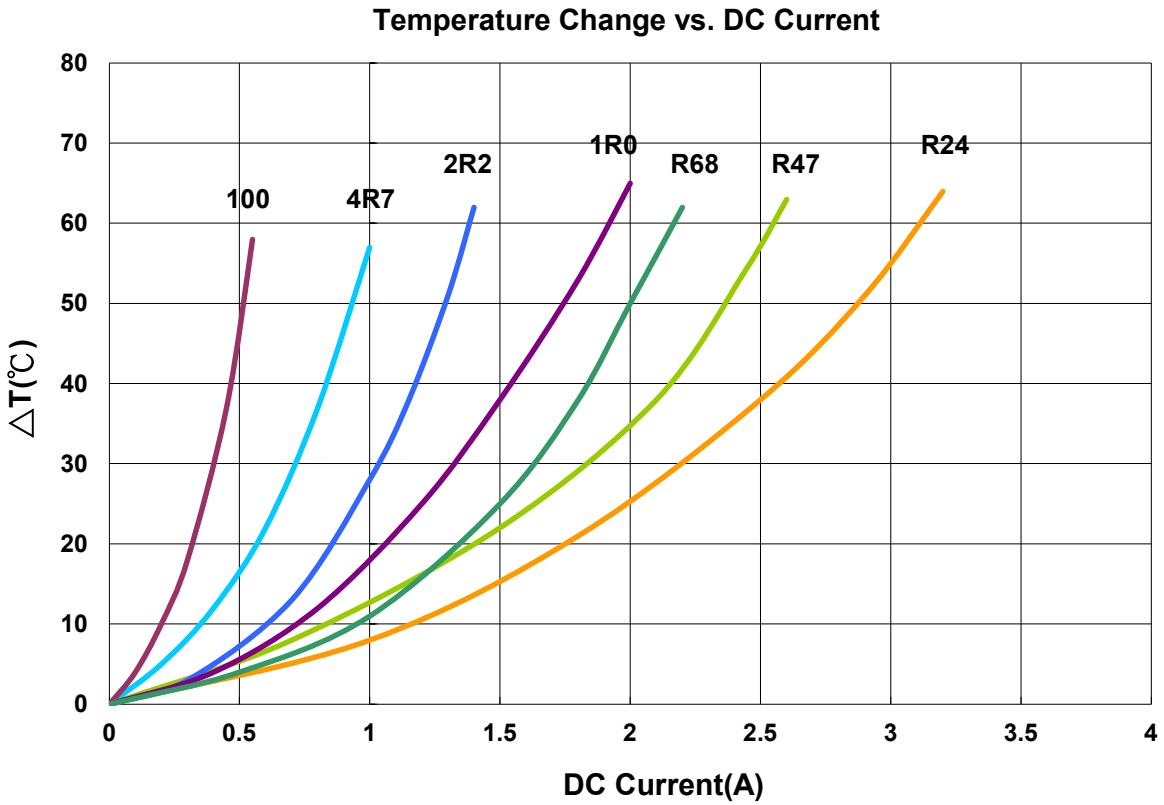
Power Inductor AWVH Series

Automotive
AEC-Q200

AWVH00201610-H1 Type

■ Characteristics Graph





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Pulse a YAGEO company

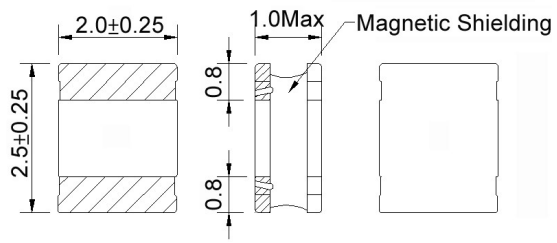
CHILISIN ELECTRONICS CORP.

Power Inductor AWVH Series

Automotive
AEC-Q200

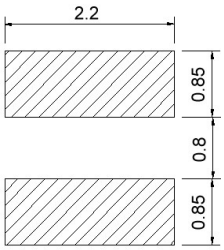
AWVH00252010-H1 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)
AWVH00252010R24□H1	0.24	1MHz,200mV	0.030	4.70(4.20)	3.60(3.00)	20,30
AWVH00252010R47□H1	0.47	1MHz,200mV	0.043	3.30(2.90)	2.70(2.30)	20,30
AWVH00252010R68□H1	0.7	1MHz,200mV	0.062	2.80(2.00)	2.30(1.90)	20,30
AWVH002520101R0□H1	1	1MHz,200mV	0.080	2.30(2.00)	1.90(1.60)	20,30
AWVH002520102R2□H1	2.2	1MHz,200mV	0.135	1.60(1.40)	1.40(1.10)	20,30
AWVH002520104R7□H1	4.7	1MHz,200mV	0.330	1.00(0.90)	0.85(0.72)	20,30
AWVH00252010100□H1	10	1MHz,200mV	0.670	0.72(0.64)	0.58(0.49)	20,30

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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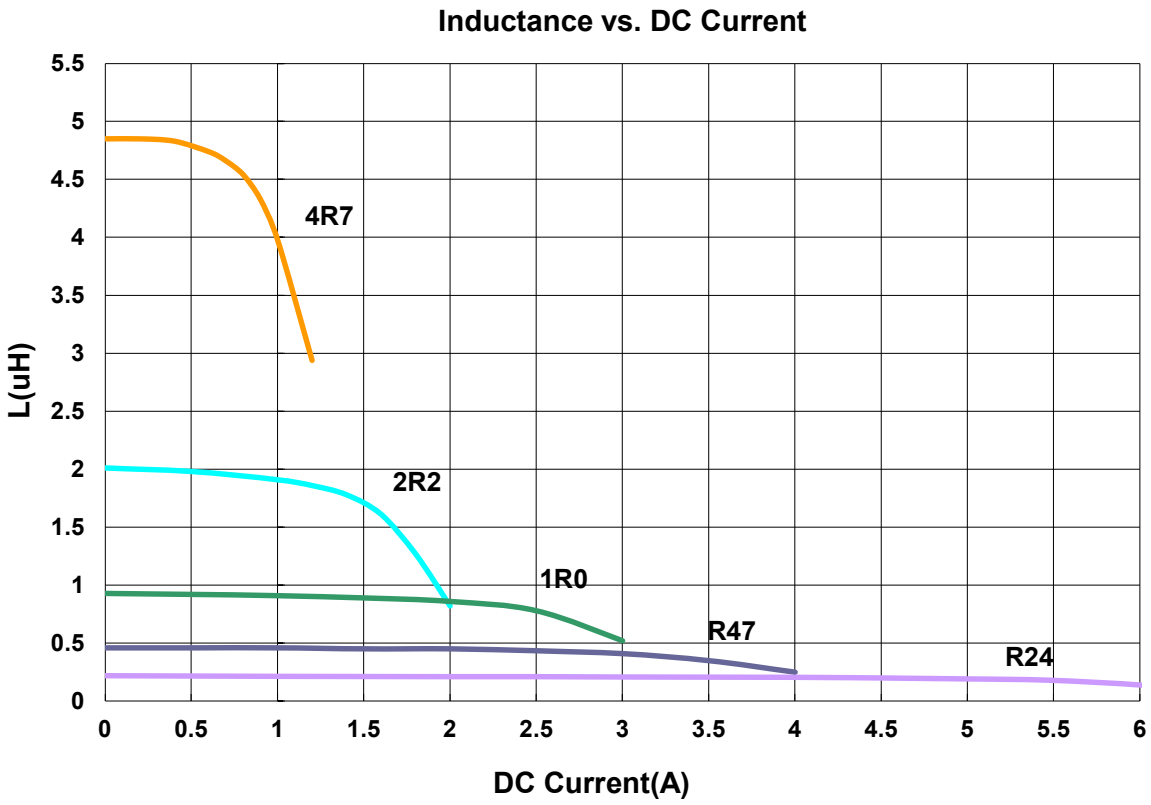
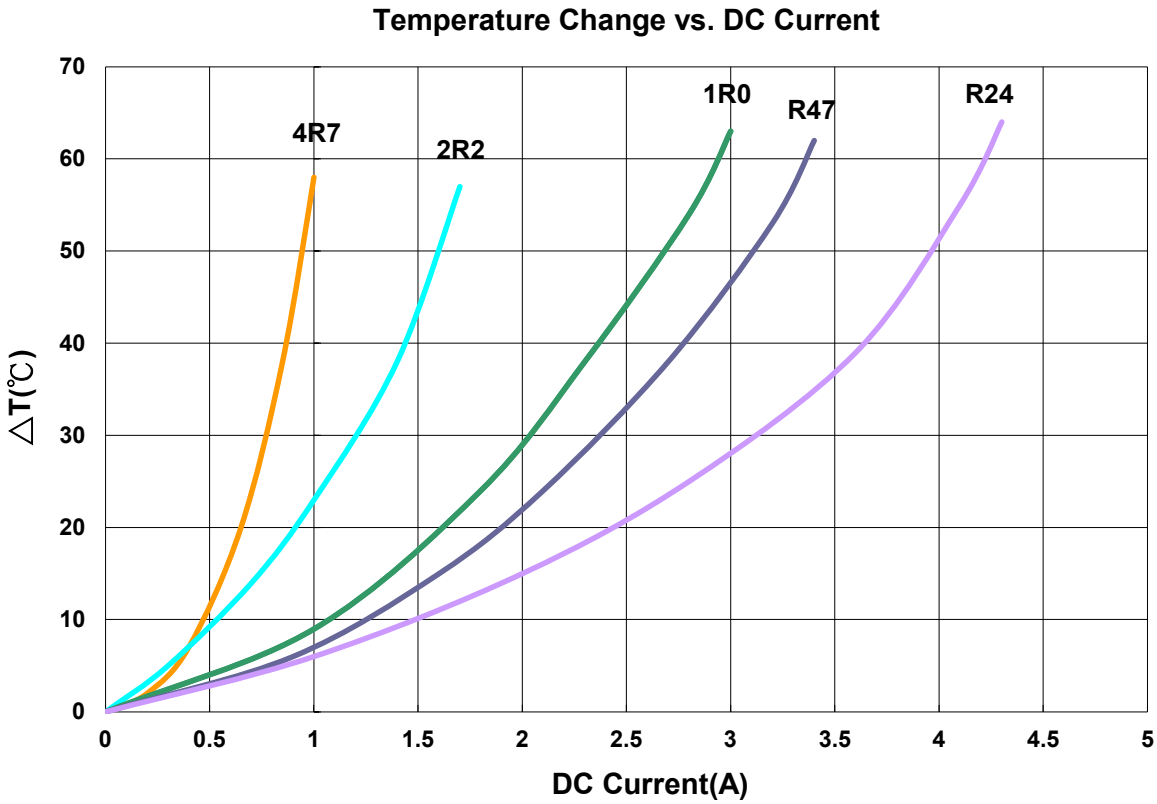
Power Inductor AWVH Series

Automotive
AEC-Q200

AWVH00252010-H1 Type

■ Characteristics Graph





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Pulse a YAGEO company

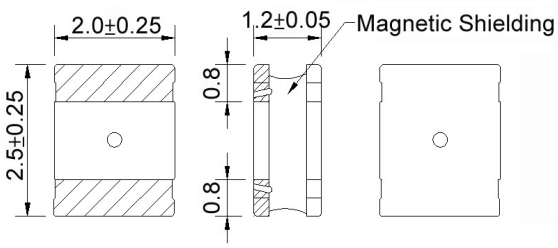
CHILISIN ELECTRONICS CORP.

Power Inductor AWVH Series

Automotive
AEC-Q200

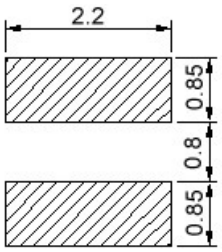
AWVH00252012-H1 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)
AWVH00252012R47□H1	0.47	1MHz,200mV	0.031	4.10(3.60)	3.10(2.60)	20,30
AWVH00252012R68□H1	0.68	1MHz,200mV	0.031	3.10(2.70)	3.10(2.60)	20,30
AWVH002520121R0□H1	1.0	1MHz,200mV	0.049	3.20(2.80)	3.00(2.50)	20,30
AWVH002520121R5□H1	1.5	1MHz,200mV	0.088	2.30(2.00)	2.20(1.80)	20,30
AWVH002520122R2□H1	2.2	1MHz,200mV	0.099	2.20(1.90)	2.00(1.7.0)	20,30
AWVH002520123R3□H1	3.3	1MHz,200mV	0.190	1.40(1.20)	1.20(1.00)	20,30
AWVH002520124R7□H1	4.7	1MHz,200mV	0.235	1.30(1.10)	1.10(0.93)	20,30
AWVH00252012100□H1	10	1MHz,200mV	0.510	0.92(0.82)	0.80(0.68)	20,30

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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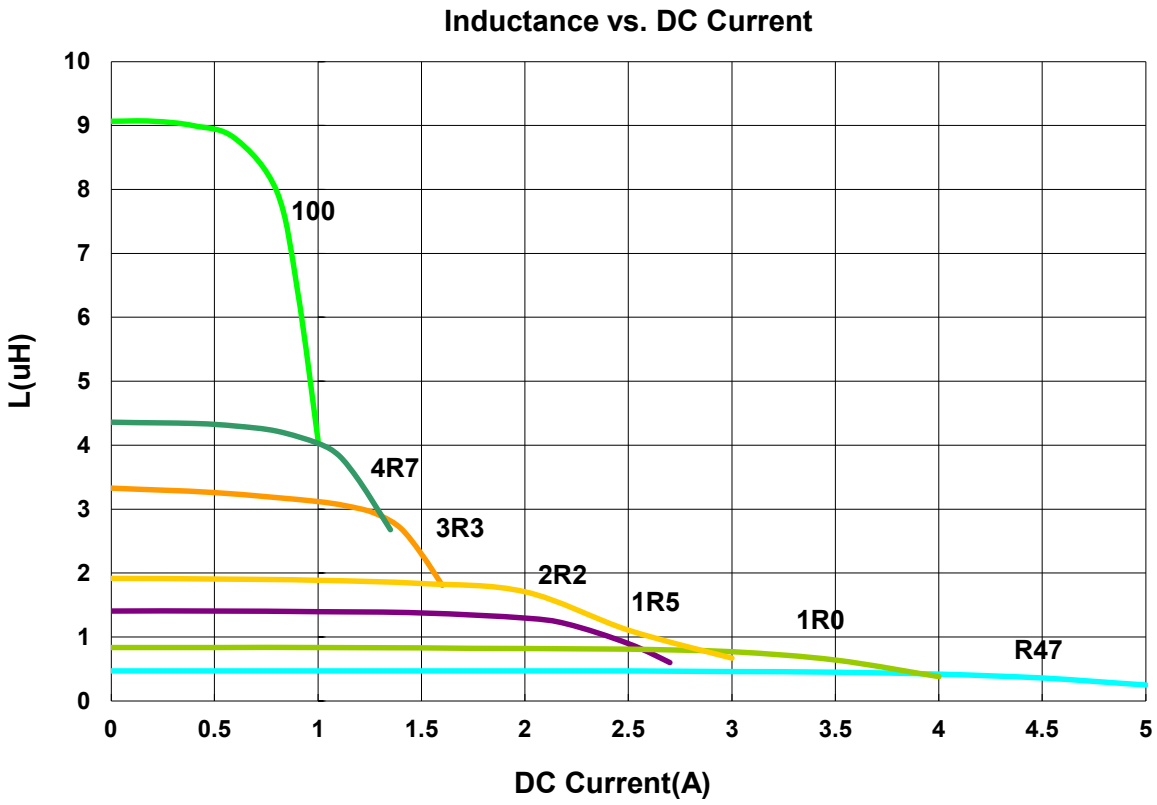
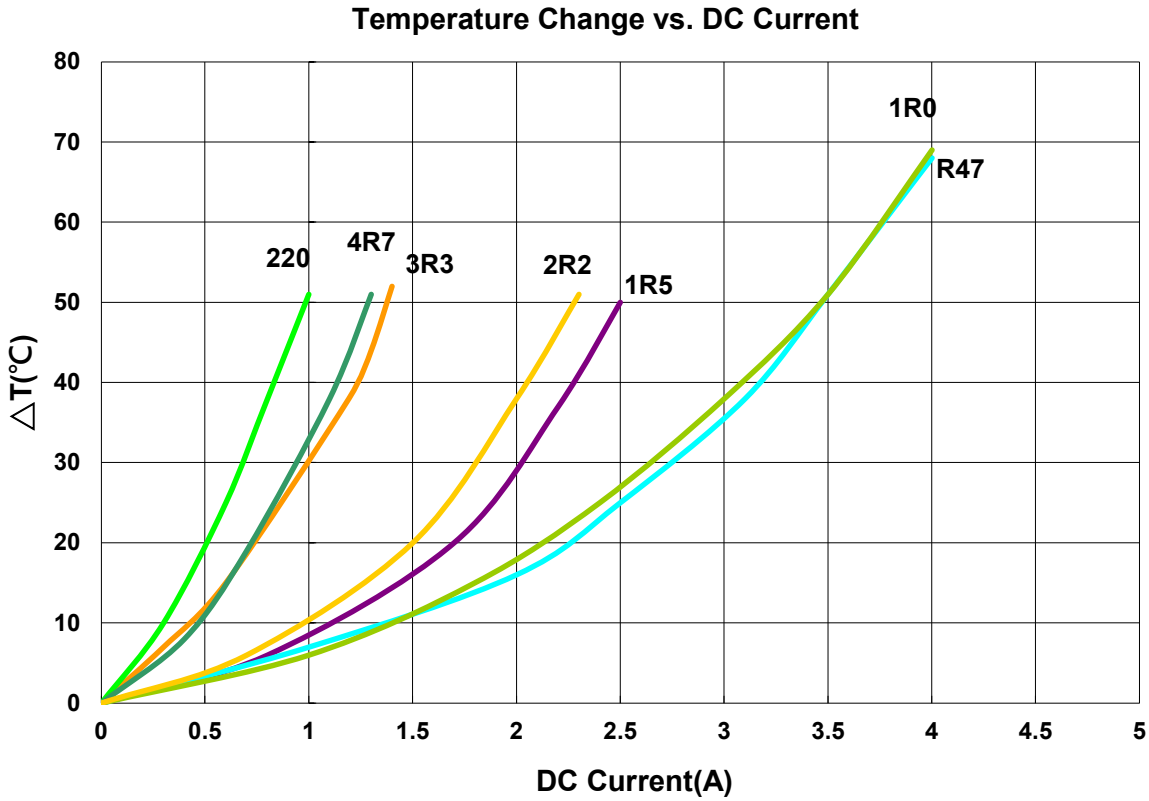
Power Inductor AWVH Series

Automotive
AEC-Q200

AWVH00252012-H1 Type

■ Characteristics Graph





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Pulse a YAGEO company

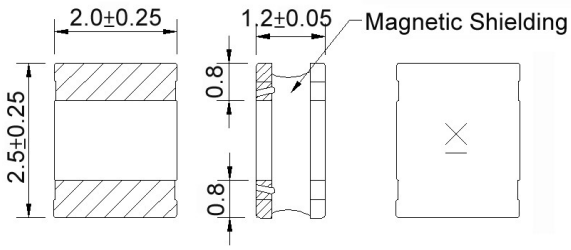
CHILISIN ELECTRONICS CORP.

Power Inductor AWVH Series

Automotive
AEC-Q200

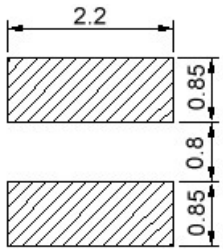
AWVH00252012 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVH00252012R24□00	0.24	1MHz,200mV	0.021	4.70(4.20)	3.80(3.20)	20,30	E
AWVH00252012R33□00	0.33	1MHz,200mV	0.027	4.20(3.70)	3.00(2.50)	20,30	G
AWVH00252012R47□00	0.47	1MHz,200mV	0.027	3.60(3.30)	3.00(2.50)	20,30	J
AWVH00252012R50□00	0.50	1MHz,200mV	0.027	3.60(3.30)	3.00(2.50)	20,30	D
AWVH00252012R68□00	0.68	1MHz,200mV	0.036	2.90(2.60)	2.80(2.30)	20,30	H
AWVH002520121R0□00	1.0	1MHz,200mV	0.037	2.70(2.40)	2.60(2.20)	20,30	A
AWVH002520121R5□00	1.5	1MHz,200mV	0.075	2.20(1.90)	1.90(1.60)	20,30	I
AWVH002520122R2□00	2.2	1MHz,200mV	0.080	1.90(1.80)	1.80(1.50)	20,30	B
AWVH002520124R7□00	4.7	1MHz,200mV	0.195	1.20(1.00)	1.10(0.93)	20,30	C
AWVH00252012100□00	10	1MHz,200mV	0.400	0.90(0.78)	0.80(0.68)	20,30	F
AWVH00252012330□00	33	1MHz,200mV	1.550	0.43(0.38)	0.38(0.34)	20,30	L
AWVH00252012470□00	47	1MHz,200mV	1.700	0.39(0.35)	0.34(0.30)	20,30	K

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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Pulse a YAGEO company

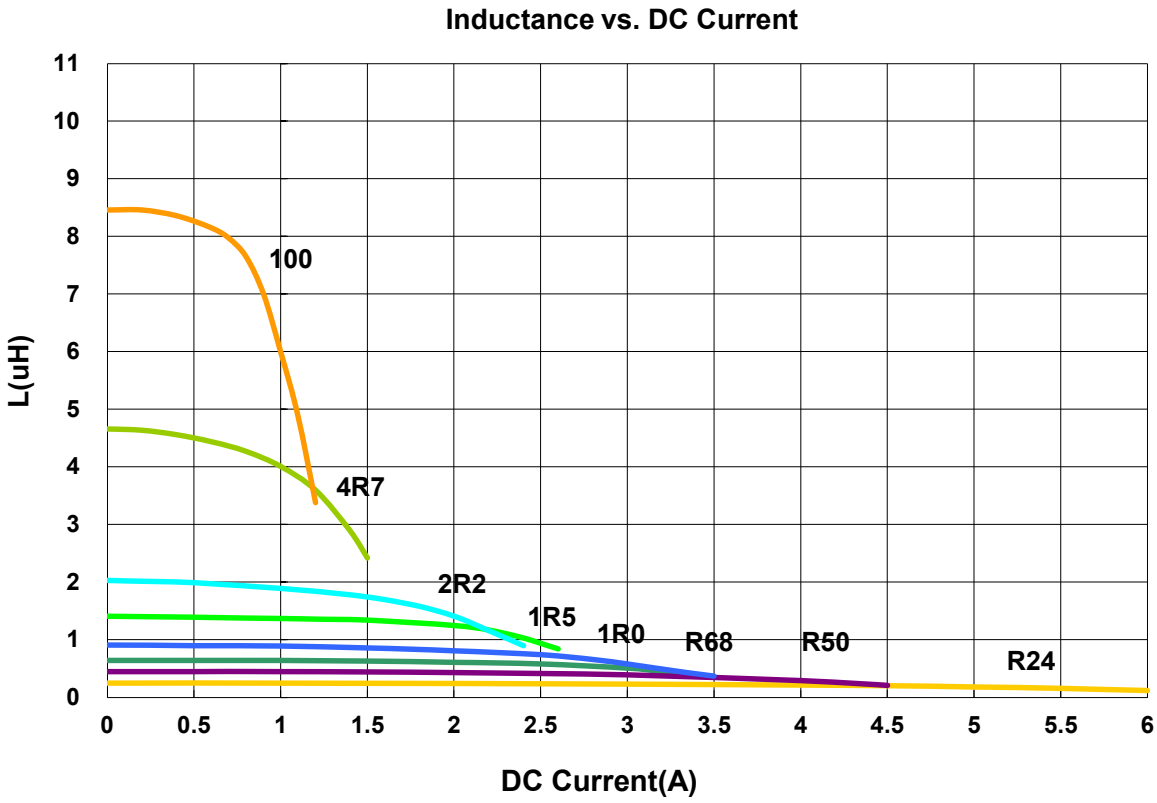
CHILISIN ELECTRONICS CORP.

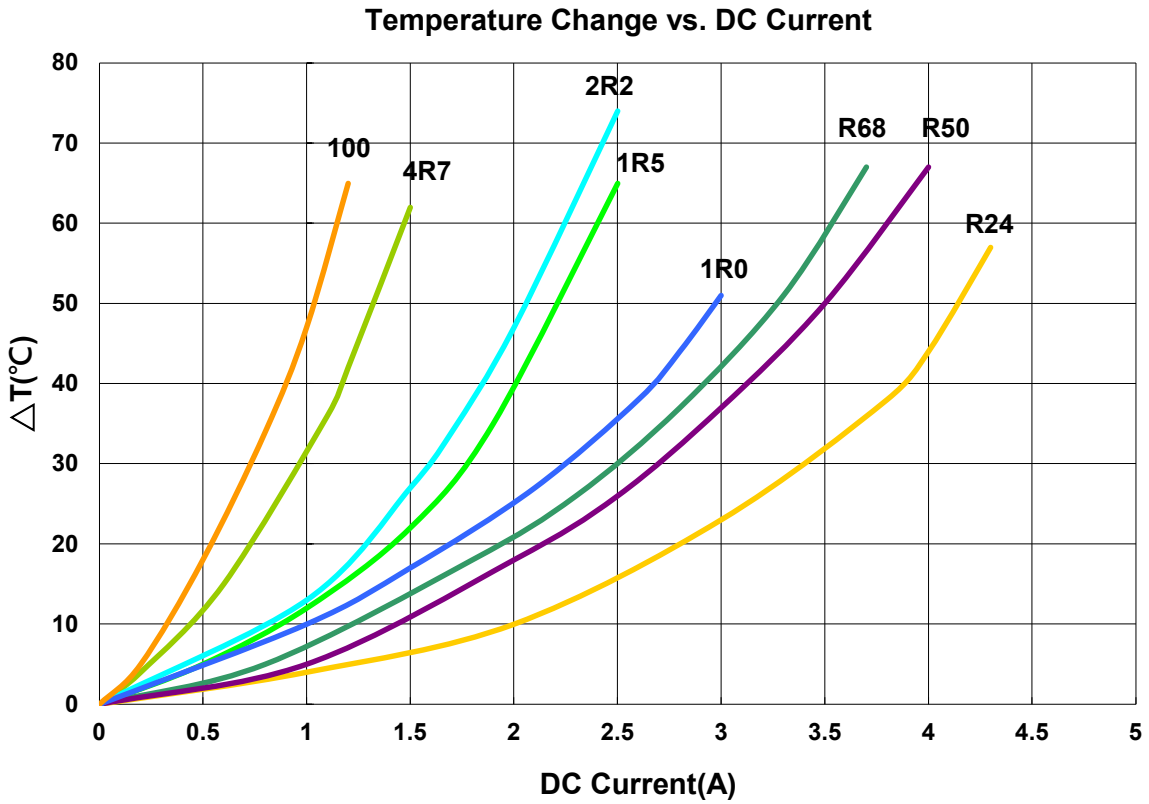
Power Inductor AWVH Series

Automotive
AEC-Q200

AWVH00252012 Type

■ Characteristics Graph





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Pulse a YAGEO company

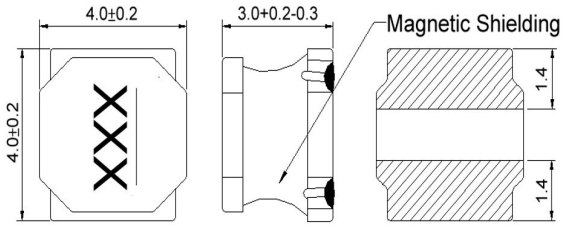
CHILISIN ELECTRONICS CORP.

Power Inductor AWVH Series

Automotive
AEC-Q200

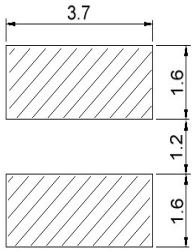
AWVH00404030 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVH00404030R47□00	0.47	100kHz,1V	0.014	9.0(8.0)	5.2(4.6)	30	R47
AWVH004040302R2□00	2.2	100kHz,1V	0.042	4.4(3.9)	2.8(2.5)	20,30	2R2

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temperature rise from 25℃ ambient with current
4. Measure Equipment:
   L: HP4285A+HP42841A
   RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
   Isat: Agilent HP4284A
   Irms: Agilent HP4284A

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Pulse a YAGEO company

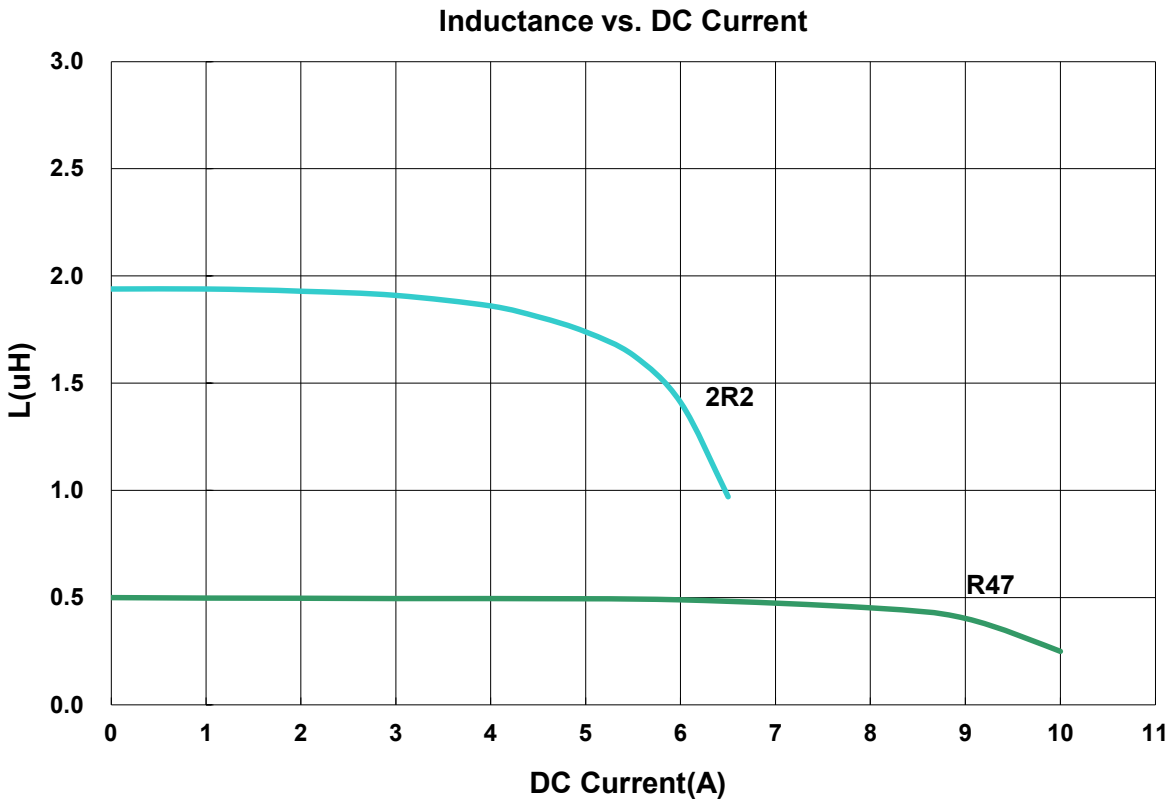
CHILISIN ELECTRONICS CORP.

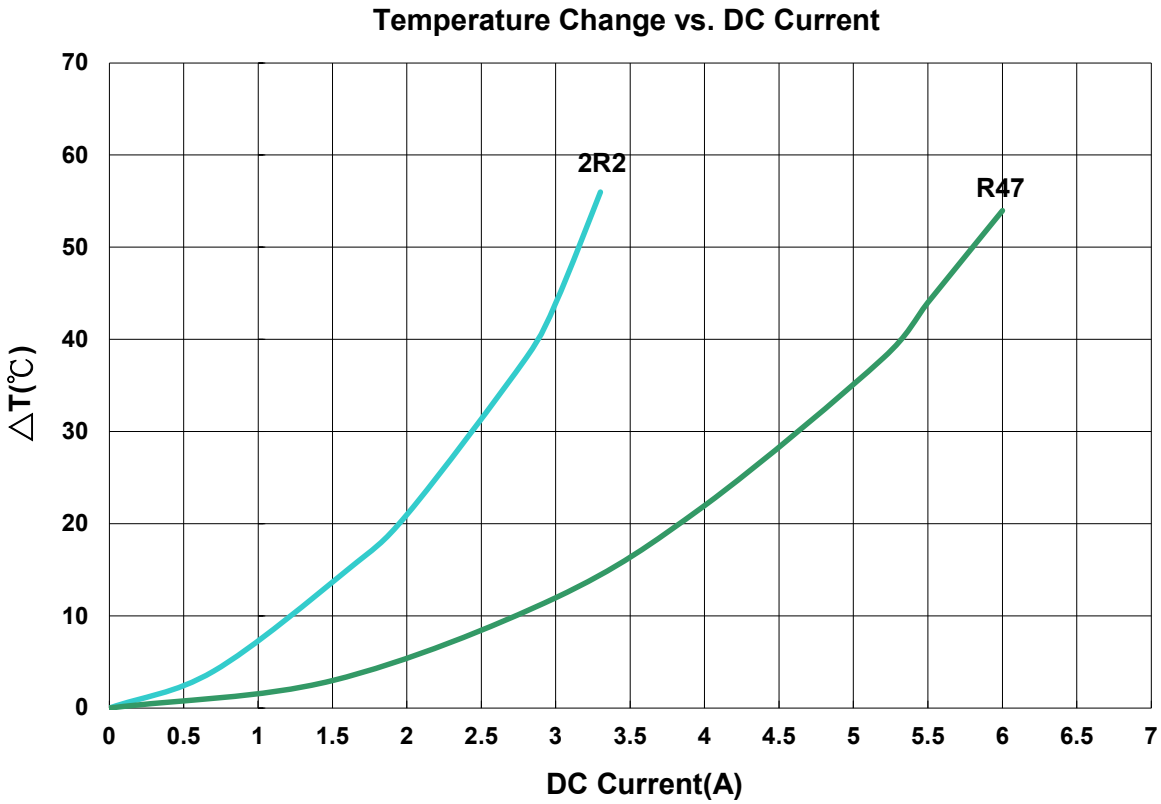
Power Inductor AWVH Series

Automotive
AEC-Q200

AWVH00404030 Type

■ Characteristics Graph





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Packaging

Tape Dimensions

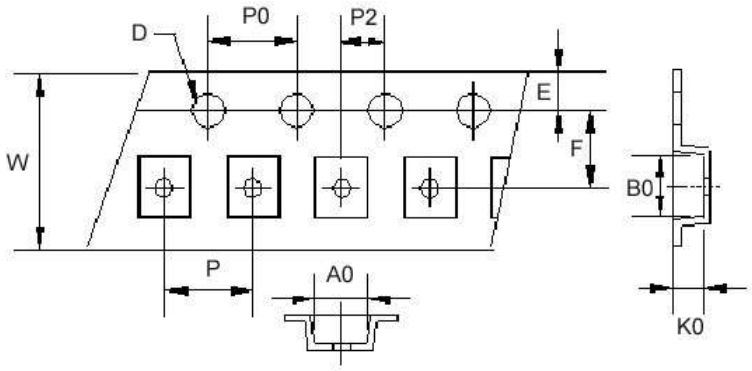


Figure 1

Reel Dimensions

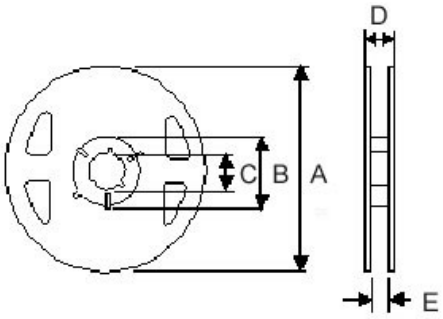
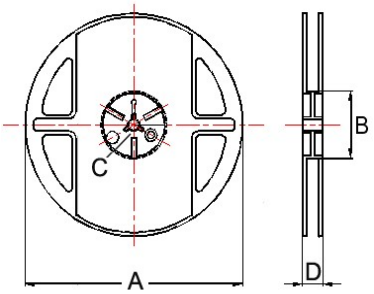


Figure 2



TYPE	Fig	Tape Dimensions										Reel Dimensions					Quantity
		A0	B0	K0	D	E	F	W	P	P0	P2	A	B	C	D	E	PCS / Reel
AWVH00201610	1	1.9	2.2	1.15	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
AWVH00252010	1	2.4	2.7	1.15	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
AWVH00252012	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
AWVH00404030	2	4.25	4.25	3.2	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	500

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Power Inductor APMI Series

Automotive
AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Power Circuit | Shield | Assembly | Ferrite

Part Numbering

A	PMI	00	040440	1R0	M	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			040440 4.2x4x4	75N 0.075	K ±10%	00
			040440-0H 4x4x4	R10 0.10	L ±15%	0E
			070750 7x7x4.96		M ±20%	0F
			090680 9.4x6.2x8		T ±30%	0H
			100750 10.2x7x4.96			0J
			100868 10.2x7.8x6.8			0K
			100874 10.31x7.65x7.4			

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Pulse a YAGEO company

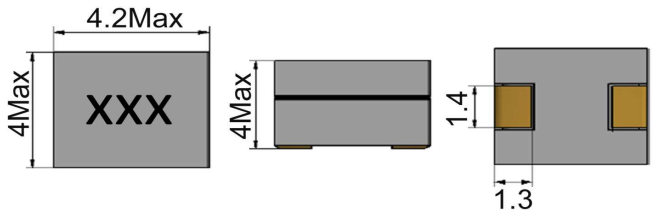
CHILISIN ELECTRONICS CORP.

Power Inductor APMI Series

Automotive
AEC-Q200

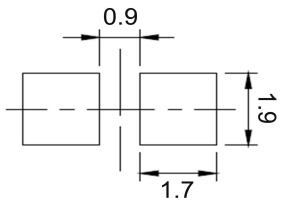
APMI00040440 Type

■ Dimensions



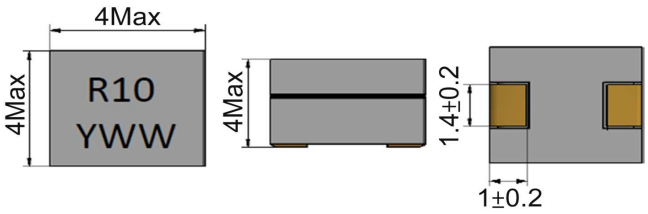
unit:mm

■ Recommended Land Pattern



unit:mm

APMI00040440-0H Type



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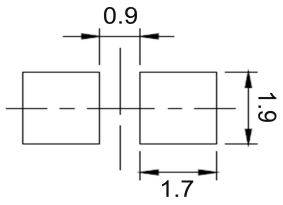

unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)±9%	(A)Typ Isat 1	Isat 2	Isat 3	Irms (A)Typ	Tolerance (±%)	Marking
APMI0004044022N□0J	0.022	100kHz,1V	0.23	60	58	55	28	20,30	22N
APMI0004044065N□0K	0.065	100kHz,1V	0.32	25	-	-	19	15,20,30	65N
APMI00040440R10□0H	0.100	100kHz,0.1V	0.32	17	-	12	19	15,20,30	R10YWW

Note: When ordering, please specify tolerance code. Tolerance: L=±15% / M=±20% / T=±30%

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Isat 1：Based on Inductance change drop (△L/Lo：drop 20% Typ.)@ ambient temp. 25℃
3. Isat 2：Based on Inductance change drop (△L/Lo：drop 20% Typ.)@ ambient temp. 75℃
4. Isat 3：Based on Inductance change drop (△L/Lo：drop 20% Typ.)@ ambient temp. 100℃
5. Irms for a 40℃ temprature rise from 25℃ ambient with current
6. Rated DC Current: The less value which is Isat 1 or Irms
7. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   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

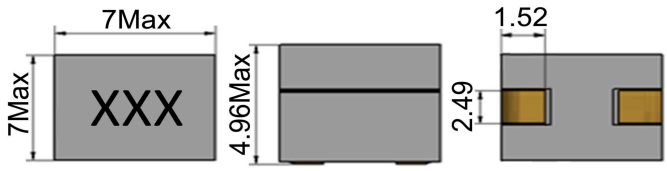
CHILISIN ELECTRONICS CORP.

Power Inductor APMI Series

Automotive
AEC-Q200

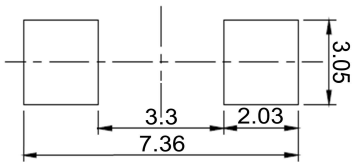
APMI00070750 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Tolerance (±%)	Marking
APMI0007075072N□00	0.072	100kHz,0.1V	0.32±9.4%	58	31	10,20,30	72N
APMI00070750R10□00	0.10	100kHz,0.1V	0.32±9.4%	46	31	10,20,30	R10
APMI00070750R11□00	0.11	100kHz,0.1V	0.32±9.4%	46	31	20,30	R11
APMI00070750R12□00	0.12	100kHz,0.1V	0.32±9.4%	38	31	10,20,30	R12
APMI00070750R15□00	0.15	100kHz,0.1V	0.32±9.4%	30	31	10,20,30	R15
APMI00070750R18□00	0.18	100kHz,0.1V	0.32±9.4%	25	31	10,20,30	R18
APMI00070750R22□00	0.22	100kHz,0.1V	0.32±9.4%	20	31	10,20,30	R22

Note: When ordering, please specify tolerance code. Tolerance: K=±10% / M=±20% / T=±30%

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Isat：Based on Inductance change drop (△L/Lo：drop 20% Typ.)@ ambient temp. 25℃
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Rated DC Current: The less value which is Isat or Irms
5. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   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

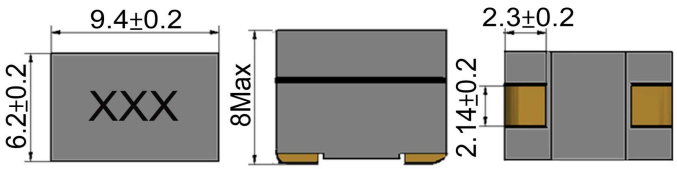
CHILISIN ELECTRONICS CORP.

Power Inductor APMI Series

Automotive
AEC-Q200

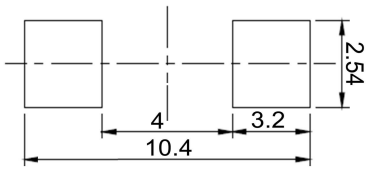
APMI00090680 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Tolerance (±%)	Marking
APMI00090680R10□00	0.10	100kHz,1V	0.29±5%	95	51	10,15,20	R10
APMI00090680R12□00	0.12	100kHz,1V	0.29±5%	80	51	10,15,20	R12
APMI00090680R15□00	0.15	100kHz,1V	0.29±5%	65	51	10,15,20	R15
APMI00090680R18□00	0.18	100kHz,1V	0.29±5%	54	51	10,15,20	R18
APMI00090680R22□00	0.22	100kHz,1V	0.29±5%	44	51	10,15,20	R22
APMI00090680R28□00	0.28	100kHz,1V	0.29±5%	34	51	10,15,20	R28
APMI00090680R30□00	0.30	100kHz,1V	0.29±5%	32.5	51	10,15,20	R30

Note: When ordering, please specify tolerance code. Tolerance: K=±10% / L=±15% / M=±20%

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Isat：Based on Inductance change drop (△L/Lo：drop 20% Typ.)@ ambient temp. 25℃
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Rated DC Current: The less value which is Isat or Irms
5. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   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

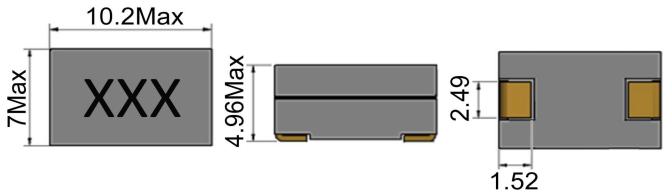
CHILISIN ELECTRONICS CORP.

Power Inductor APMI Series

Automotive
AEC-Q200

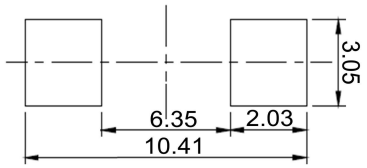
APMI00100750 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Tolerance (±%)	Marking
APMI0010075085N□00	0.085	100kHz,0.1V	0.39±7.7%	>70	31	20,30	85N
APMI00100750R10□00	0.10	100kHz,0.1V	0.39±7.7%	70	31	15,20	R10
APMI00100750R12□00	0.12	100kHz,0.1V	0.39±7.7%	52	31	15,20	R12
APMI00100750R15□00	0.15	100kHz,0.1V	0.39±7.7%	40	31	15,20	R15
APMI00100750R16□00	0.155	100kHz,0.1V	0.39±7.7%	40	31	15,20	R16
APMI00100750R20□00	0.20	100kHz,0.1V	0.39±7.7%	33	31	15,20	R20
APMI00100750R22□00	0.22	100kHz,0.1V	0.39±7.7%	33	25	15,20	R22

Note: When ordering, please specify tolerance code. Tolerance: L=±15% / M=±20% / T=±30%

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Isat：Based on Inductance change drop (△L/Lo：drop 20% Typ.)@ ambient temp. 25℃
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Rated DC Current: The less value which is Isat or Irms
5. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   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

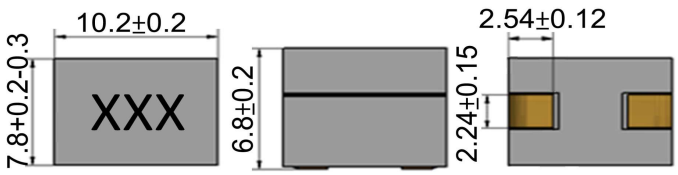
CHILISIN ELECTRONICS CORP.

Power Inductor APMI Series

Automotive
AEC-Q200

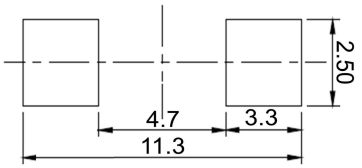
APMI00100868 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Tolerance (±%)	Marking
APMI00100868R12□0E	0.12	100kHz,0.1V	0.29±7%	80	54	10,15,20	R12
APMI00100868R12□0F	0.12	100kHz,0.1V	0.29±5%	80	54	10,15,20	R12
APMI00100868R14□0E	0.14	100kHz,0.1V	0.29±7%	72	54	10,15,20	R14
APMI00100868R14□0F	0.14	100kHz,0.1V	0.29±5%	72	54	10,15,20	R14
APMI00100868R17□0E	0.17	100kHz,0.1V	0.29±7%	58	54	10,15,20	R17
APMI00100868R17□0F	0.17	100kHz,0.1V	0.29±5%	58	54	10,15,20	R17
APMI00100868R18□0E	0.18	100kHz,0.1V	0.29±7%	56	54	10,15,20	R18
APMI00100868R18□0F	0.18	100kHz,0.1V	0.29±5%	56	54	10,15,20	R18
APMI00100868R22□0E	0.22	100kHz,0.1V	0.29±7%	50	54	10,15,20	R22
APMI00100868R22□0F	0.22	100kHz,0.1V	0.29±5%	50	54	10,15,20	R22
APMI00100868R30□0E	0.30	100kHz,0.1V	0.29±7%	32	54	10,15,20	R30
APMI00100868R30□0F	0.30	100kHz,0.1V	0.29±5%	32	54	10,15,20	R30

Note: When ordering, please specify tolerance code. Tolerance: K=±10% / L=±15% / M=±20%

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Isat：Based on Inductance change drop (△L/Lo：drop 20% Typ.)@ ambient temp. 25℃
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Rated DC Current: The less value which is Isat or Irms
5. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   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

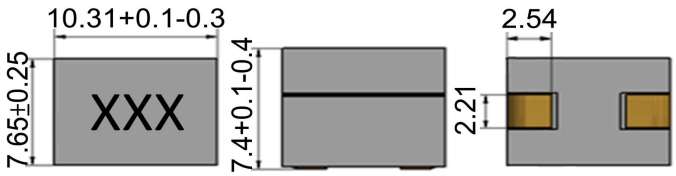
CHILISIN ELECTRONICS CORP.

Power Inductor APMI Series

Automotive
AEC-Q200

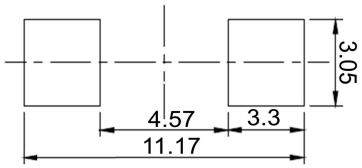
APMI00100874 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Tolerance (±%)	Marking
APMI00100874R12□00	0.115	100kHz,0.1V	0.29±10%	94	41	15,20	R115
APMI00100874R13□00	0.13	100kHz,0.1V	0.29±10%	85	41	15,20	R13
APMI00100874R15□00	0.15	100kHz,0.1V	0.29±10%	72	41	15,20	R15
APMI00100874R17□00	0.17	100kHz,0.1V	0.29±10%	62	41	15,20	R17
APMI00100874R18□00	0.175	100kHz,0.1V	0.29±10%	62	41	15,20	R175
APMI00100874R22□00	0.215	100kHz,0.1V	0.29±10%	48	41	15,20	R215
APMI00100874R23□00	0.23	100kHz,0.1V	0.29±10%	43	41	15,20	R23
APMI00100874R27□00	0.27	100kHz,0.1V	0.29±10%	37	41	15,20	R27
APMI00100874R30□00	0.30	100kHz,0.1V	0.29±10%	32	41	15,20	R30

Note: When ordering, please specify tolerance code. Tolerance: L=±15% / M=±20%

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Isat：Based on Inductance change drop (△L/Lo：drop 20% Typ.)@ ambient temp. 25℃
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Rated DC Current: The less value which is Isat or Irms
5. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   RDC: CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
   Isat:WK3255BQ+ WK3265B (or equivalent)
   Irms: WK3255BQ+ WK3265B (or equivalent)

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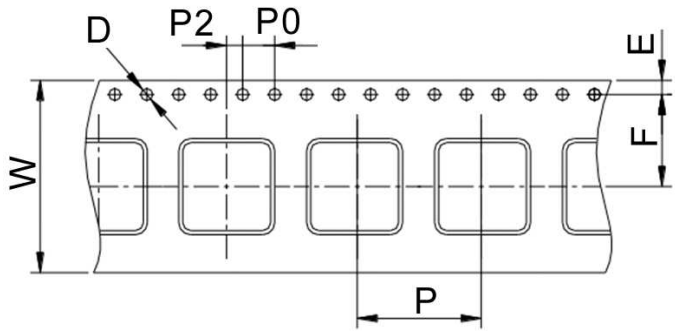
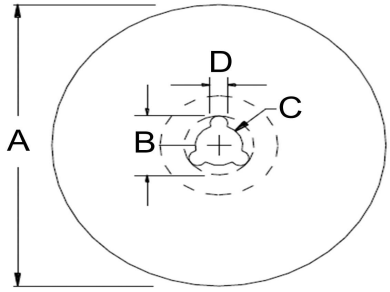
Packaging

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
APMI00040440	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2000
APMI00040440-0H	12	1.5	1.75	5.5	8	4	2	330	20	13	2	1800
APMI00070750	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
APMI00090680	24	1.5	1.75	11.5	12	4	2	330	20	13	2	500
APMI00100750	24	1.5	1.75	11.5	12	4	2	330	20	13	2	800
APMI00100868	24	1.5	1.75	11.5	12	4	2	330	20	13	2	500
APMI00100874	24	1.5	1.75	11.5	12	4	2	330	20	13	2	500

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Power Inductor APMV Series

Automotive
AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Power Circuit | Shield | Assembly | Ferrite

■ Part Numbering

A	PMV	00	100612	1R0	M	0E
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code

Dimensions Code (mm)	
100612	10x6x12
110812	10.7x7.5x12

Inductance (uH)	
R10	0.1
R18	0.18
R32	0.32

Tolerance	
K	±10%
L	±15%
M	±20%

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Pulse a YAGEO company

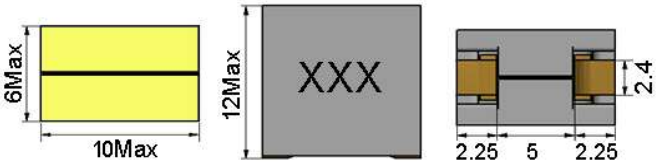
CHILISIN ELECTRONICS CORP.

Power Inductor APMV Series

Automotive
AEC-Q200

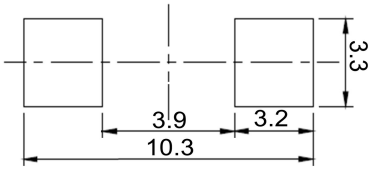
APMV00100612 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)	(A)Typ Isat 1	Isat 2	Isat 3	Isat 4	Irms (A)Typ	Tolerance (±%)	Marking
APMV00100612R10□0E	0.10	100kHz,1V	0.125±10%	125	105	96	88	77	10,15,20	R10
APMV00100612R12□0E	0.12	100kHz,1V	0.125±10%	105	93	88	81	77	10,15,20	R12
APMV00100612R15□0E	0.15	100kHz,1V	0.125±10%	83	75	70	65	77	10,15,20	R15
APMV00100612R33□0E	0.33	100kHz,1V	0.125±10%	40	33	28	26	77	10,15,20	R33

Note: When ordering, please specify tolerance code. Tolerance: K=±10% / L=±15% / M=±20%

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat 1：Based on Inductance change drop (△L/Lo：drop 20% Typ.)@ ambient temp. 25℃
3. Isat 2：Based on Inductance change drop (△L/Lo：drop 20% Typ.)@ ambient temp. 75℃
4. Isat 3：Based on Inductance change drop (△L/Lo：drop 20% Typ.)@ ambient temp. 100℃
5. Isat 4：Based on Inductance change drop (△L/Lo：drop 20% Typ.)@ ambient temp. 125℃
6. Irms for a 40℃ temprature rise from 25℃ ambient with current
7. Rated DC Current: The less value which is Isat 1 or Irms
8. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   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

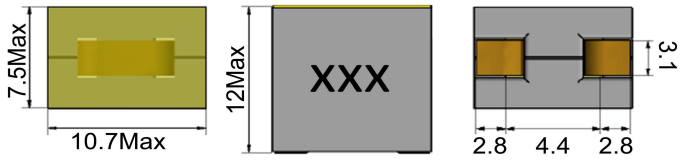
CHILISIN ELECTRONICS CORP.

Power Inductor APMV Series

Automotive
AEC-Q200

APMV00110812 Type

■ Dimensions



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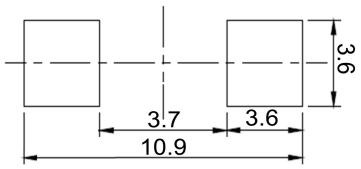
■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)	(A)Typ Isat 1	(A)Typ Isat 2	Irms (A)Typ	Tolerance (±%)	Marking
APMV00110812R15□0E	0.15	100kHz,1V	0.15±5%	115	97	75	10,15,20	R15
APMV00110812R18□0E	0.18	100kHz,1V	0.15±5%	85	72	75	10,15,20	R18
APMV00110812R22□0E	0.22	100kHz,1V	0.15±5%	75	64	75	10,15,20	R22
APMV00110812R25□0E	0.25	100kHz,1V	0.15±5%	66	56	75	10,15,20	R25
APMV00110812R27□0E	0.27	100kHz,1V	0.15±5%	60	51	75	10,15,20	R27
APMV00110812R30□0E	0.30	100kHz,1V	0.15±5%	55	45	75	10,15,20	R30
APMV00110812R32□0E	0.32	100kHz,1V	0.15±5%	51	43	75	10,15,20	R32

Note: When ordering, please specify tolerance code. Tolerance: K=±15% / L=±15% / M=±20%

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat 1：Based on Inductance change drop (△L/Lo：drop 20% Typ.)@ ambient temp. 25℃
3. Isat 2：Based on Inductance change drop (△L/Lo：drop 20% Typ.)@ ambient temp. 100℃
4. Irms for a 40℃ temprature rise from 25℃ ambient with current
5. Rated DC Current: The less value which is Isat 1 or Irms
6. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   RDC: CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
   Isat:WK3255BQ+ WK3265B (or equivalent)
   Irms: WK3255BQ+ WK3265B (or equivalent)

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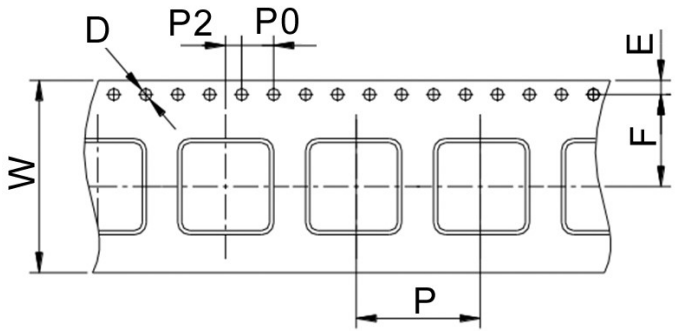
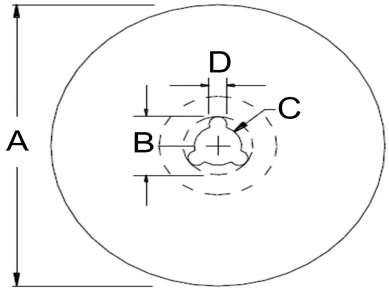
■ Packaging

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
APMV00100612	24	1.5	1.75	11.5	16	4	2	330	20	13	2	300
APMV00110812	24	1.5	1.75	11.5	16	4	2	330	20	13	2	300

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Power Inductor APCK Series

Automotive
AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Power Circuit | Shield | Assembly | Ferrite

Part Numbering

A	PCK	00	080809	100	M	80
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			080809 8x8x9	100 10	M ±20%	80
			100910 10x9x10		T ±30%	
			131111 12.8x10.5x10.7			

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Pulse a YAGEO company

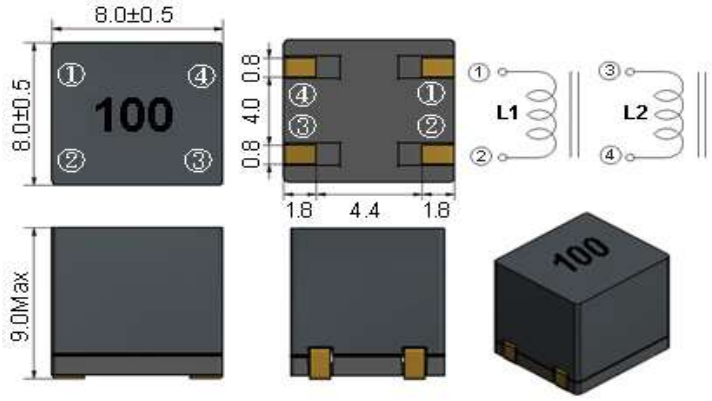
CHILISIN ELECTRONICS CORP.

Power Inductor APCK Series

Automotive
AEC-Q200

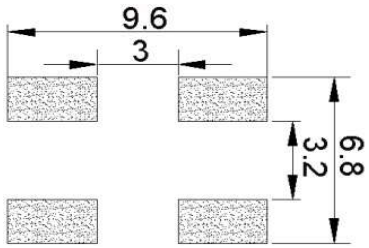
APCK00080809 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance L1,L2(uH)	Test Freq.	RDC (mΩ)Max	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APCK00080809100□80	10	100kHz,0.25V	40	4.3	2.7	20,30	100
APCK00080809220□80	22	100kHz,0.25V	90	3	1.8	20,30	220

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

1. Operating temperature range －40°C～165°C(Including self - temperature rise)
2. Isat：Based on Inductance change drop (△L/Lo：drop 30% Typ.)@ ambient temp. 25°C
3. Irms：Based on temprature rise (△T：40°C Typ.)
4. Temperature rise allowable current：A rise in temperature of core surface is within 40℃
5. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   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

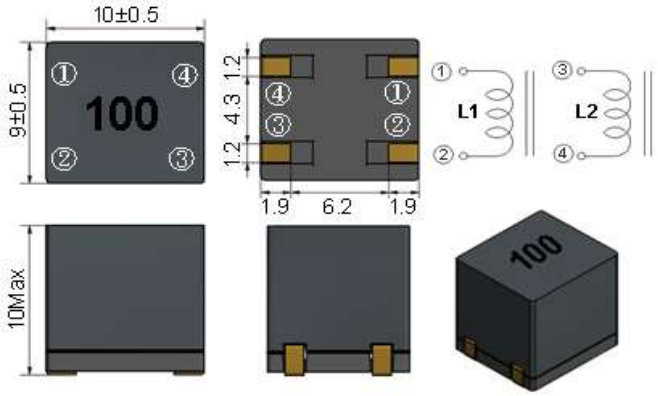
CHILISIN ELECTRONICS CORP.

Power Inductor APCK Series

Automotive
AEC-Q200

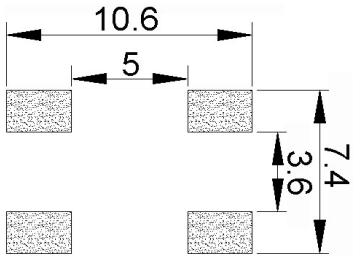
APCK00100910 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance L1,L2(uH)	Test Freq.	RDC (mΩ)Max	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APCK00100910100□80	10	100kHz,0.25V	22	5.0	3.9	20,30	100
APCK00100910220□80	22	100kHz,0.25V	52	3.2	2.5	20,30	220

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

1. Operating temperature range －40°C～165°C(Including self - temperature rise)
2. Isat：Based on Inductance change drop (△L/Lo：drop 30% Typ.)@ ambient temp. 25°C
3. Irms：Based on temprature rise (△T：40°C Typ.)
4. Temperature rise allowable current：A rise in temperature of core surface is within 40℃
5. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   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

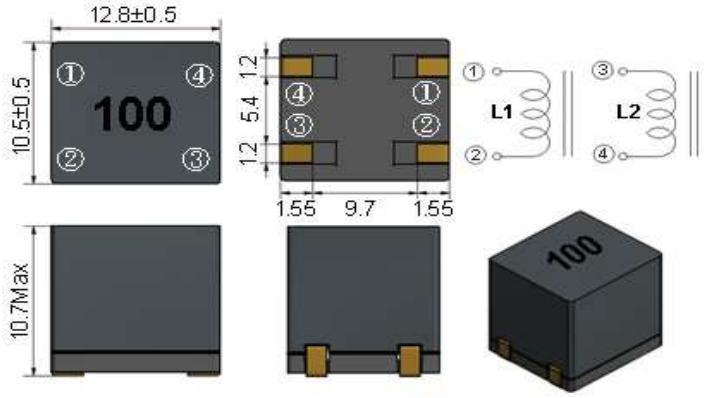
CHILISIN ELECTRONICS CORP.

Power Inductor APCK Series

Automotive
AEC-Q200

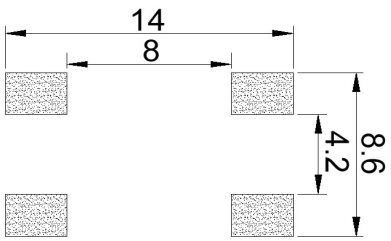
APCK00131111 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance L1,L2(uH)	Test Freq.	RDC (mΩ)Max	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APCK00131111100□80	10	100kHz,0.25V	18	7.1	4.2	20,30	100

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

1. Operating temperature range －40°C～165°C(Including self - temperature rise)
2. Isat：Based on Inductance change drop (△L/Lo：drop 30% Typ.)@ ambient temp. 25°C
3. Irms：Based on temprature rise (△T：40°C Typ.)
4. Temperature rise allowable current：A rise in temperature of core surface is within 40℃
5. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   RDC: CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
   Isat: WK3255BQ+ WK3265B (or equivalent)
   Irms: WK3255BQ+ WK3265B (or equivalent)

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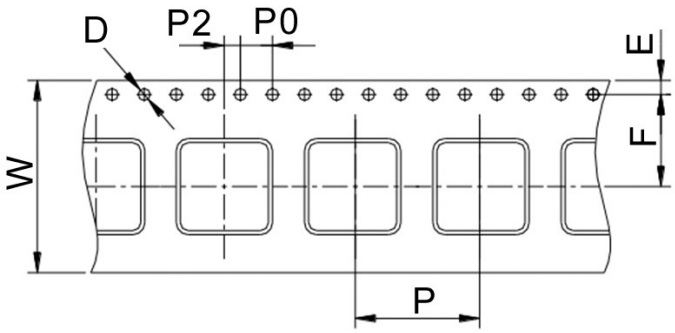
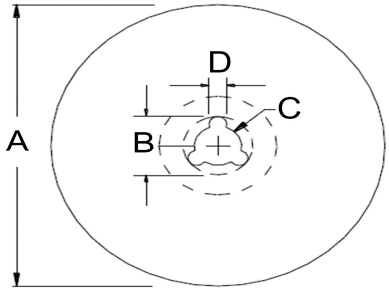
■ Packaging

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
APCK00080809	24	1.5	1.75	11.5	16	4	2	330	20	13	2	400
APCK00100910	24	1.5	1.75	11.5	16	4	2	330	20	13	2	300
APCK00131111	24	1.5	1.75	11.5	16	4	2	330	20	13	2	300

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Power Inductor APSC Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Power Circuit | Shield | Wire Wound | Ferrite

Part Numbering

A	PSC	00	131380	100	M	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code

Dimensions Code	(mm)
030316	3.2x3.2x1.55
040418	4.0x4.0x1.8
040430	4.0x4.0x3.0
050520	4.7x4.7x2.0
050530	4.7x4.7x3.0
050540	4.7x4.7x4.0
060620	5.7x5.7x2.0
060630	5.7x5.7x3.0
070730	6.7x6.7x3.0
070740	7.0x7.0x4.0
101131	10.3x10.5x3.1
101140	10.3x10.5x4.0
101151	10.3x10.5x5.1
080846	7.5x7.5x4.6
131345	12.5x12.5x4.5
131360	12.5x12.5x6.0
131380	12.5x12.5x8.0

Inductance	(uH)
R47	0.5
2R2	2.2
101	100

Tolerance	
M	±20%
T	±30%

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Pulse a YAGEO company

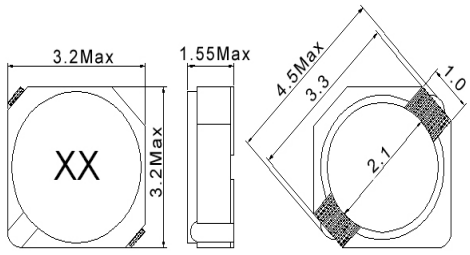
CHILISIN ELECTRONICS CORP.

Power Inductor APSC Series

Automotive
AEC-Q200

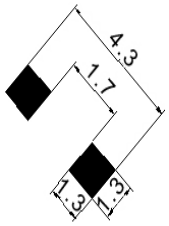
APSC00030316 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat (A) Max(Typ)	Irms (A)Typ.	Tolerance (±%)	Marking
APSC00030316R47□00	0.47	100 kHz,1 V	0.04	2(2.8)		30	AO
APSC000303161R5□00	1.5	100 kHz,1 V	0.063	1.4(1.8)	2	30	BF
APSC000303161R8□00	1.8	100 kHz,1 V	0.075	1.3(1.7)	1.8	30	BI
APSC000303162R2□00	2.2	100 kHz,1 V	0.094	1.2(1.6)	1.6	30	CC
APSC000303162R7□00	2.7	100 kHz,1 V	0.106	1.1(1.4)	1.4	30	CH
APSC000303163R3□00	3.3	100 kHz,1 V	0.125	0.95(1.2)	1.24	30	DD
APSC000303163R9□00	3.9	100 kHz,1 V	0.138	0.92(1.1)	1.12	30	DJ
APSC000303164R1□00	4.1	100 kHz,1 V	0.169	0.8(1)	1	30	EA
APSC000303164R7□00	4.7	100 kHz,1 V	0.169	0.8(1)	1	30	EH
APSC000303165R6□00	5.6	100 kHz,1 V	0.188	0.76(0.95)	0.98	30	FG
APSC000303166R8□00	6.8	100 kHz,1 V	0.213	0.71(0.88)	0.92	30	GI
APSC000303168R2□00	8.2	100 kHz,1 V	0.281	0.64(0.8)	0.8	30	IC
APSC00030316100□00	10	100 kHz,1 V	0.294	0.57(0.72)	0.76	20,30	KA
APSC00030316120□00	12	100 kHz,1 V	0.394	0.52(0.65)	0.64	20,30	QA

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Rated Current: Inductance drop = 35% typ.
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Measure Equipment:
   L: Agilent E4980 or HP4284A
   RDC: CH502BC
   Rate Current: HP4284+42841A or WK3260B+WK3265B

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Pulse a YAGEO company

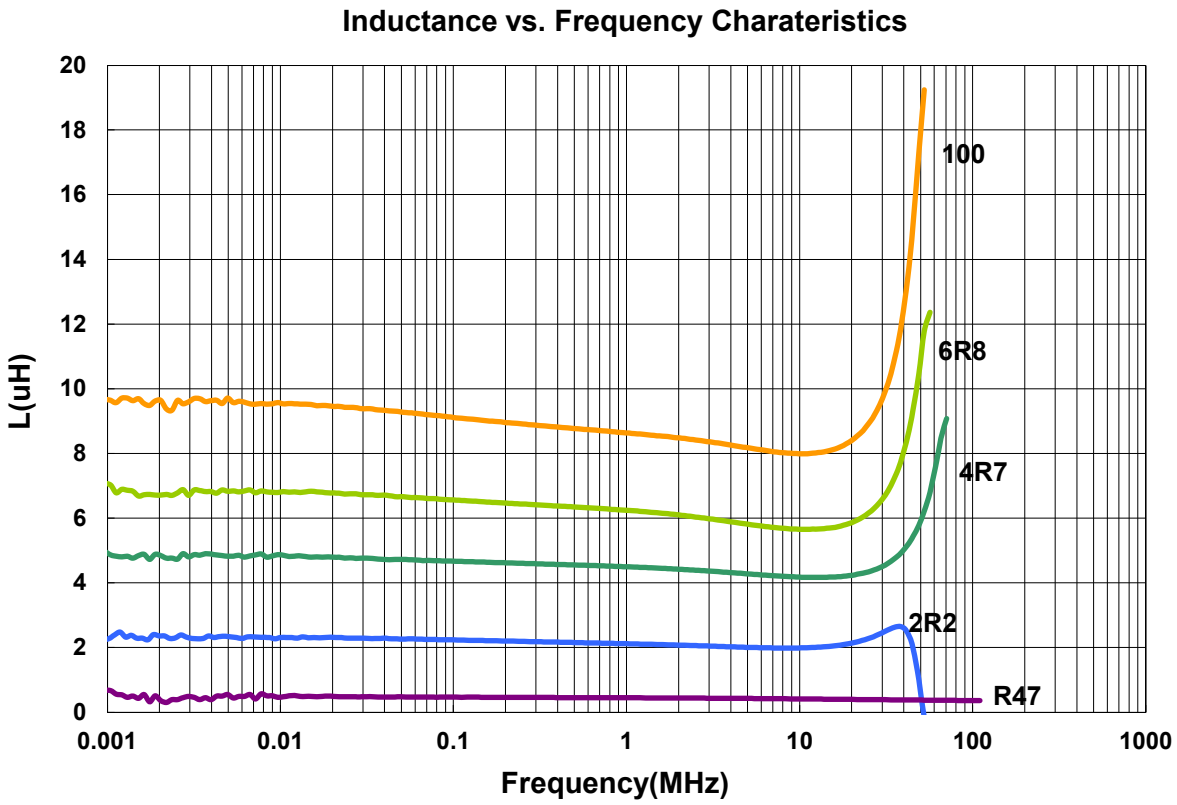
CHILISIN ELECTRONICS CORP.

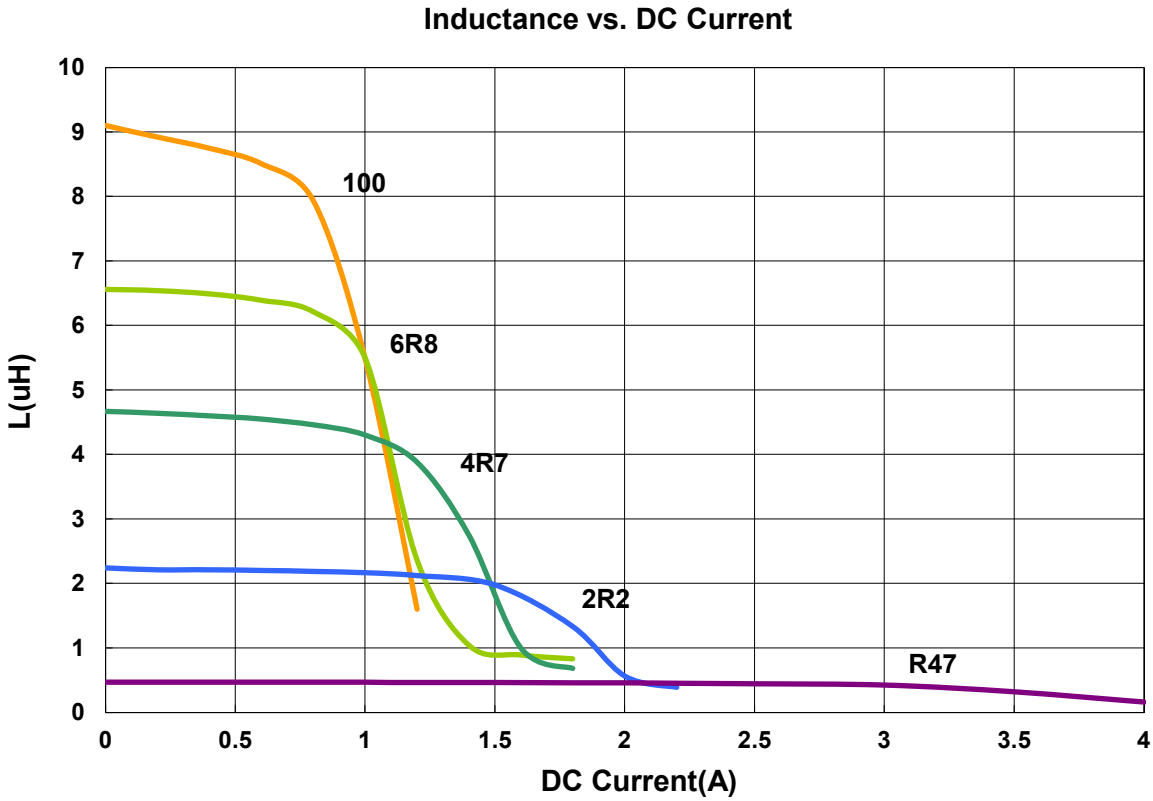
Power Inductor APSC Series

Automotive
AEC-Q200

APSC00030316 Type

■ Characteristics Graph





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Pulse a YAGEO company

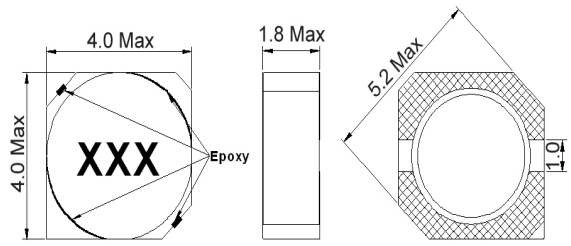
CHILISIN ELECTRONICS CORP.

Power Inductor APSC Series

Automotive AEC-Q200

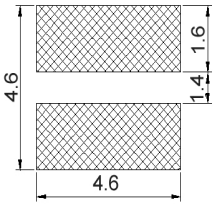
APSC00040418 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat(A) Max(Typ)	Tolerance (±%)	Marking
APSC0000404181R0□S0	1	100 kHz,0.1 V	0.04	1.35(1.7)	30	1R0
APSC0000404181R5□S0	1.5	100 kHz,0.1 V	0.052	1.25(1.6)	30	1R5
APSC0000404182R2□S0	2.2	100 kHz,0.1 V	0.072	1.0(1.3)	30	2R2
APSC0000404183R3□S0	3.3	100 kHz,0.1 V	0.085	0.88(1.1)	30	3R3
APSC0000404183R6□S0	3.6	100 kHz,0.1 V	0.09	0.74(0.93)	30	3R6
APSC0000404184R7□S0	4.7	100 kHz,0.1 V	0.105	0.72(0.9)	30	4R7
APSC0000404186R8□S0	6.8	100 kHz,0.1 V	0.17	0.61(0.74)	30	6R8
APSC000040418100□S0	10	100 kHz,0.1 V	0.21	0.55(0.6)	20,30	100
APSC000040418150□S0	15	100 kHz,0.1 V	0.295	0.45(0.52)	20,30	150
APSC000040418220□S0	22	100 kHz,0.1 V	0.43	0.32(0.4)	20,30	220
APSC000040418270□S0	27	100 kHz,0.1 V	0.62	0.3(0.37)	30	270
APSC000040418330□S0	33	100 kHz,0.1 V	0.675	0.26(0.32)	30	330
APSC000040418680□S0	68	100 kHz,0.1 V	1.7	0.16(0.21)	30	680

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 35% from its value without current
3. Measure Equipment:
   L: Agilent E4980 or HP4284A
   RDC: CH502BC
   Rate current: 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

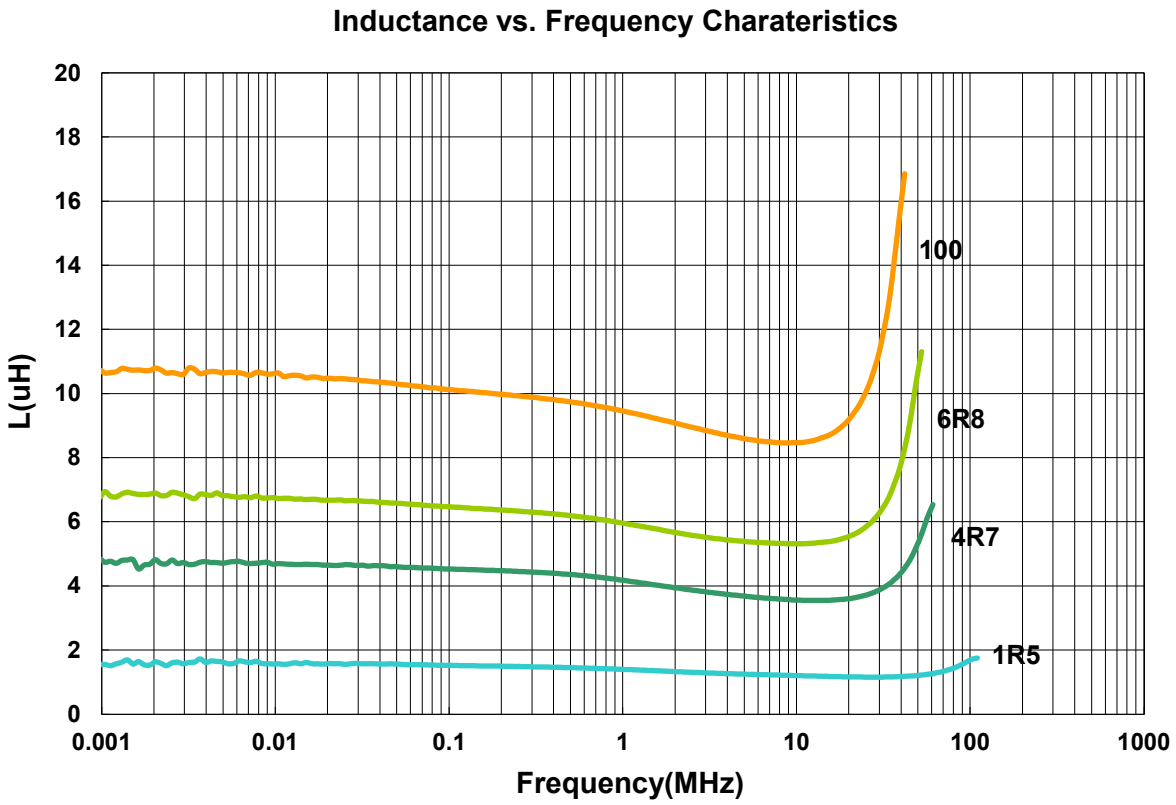
CHILISIN ELECTRONICS CORP.

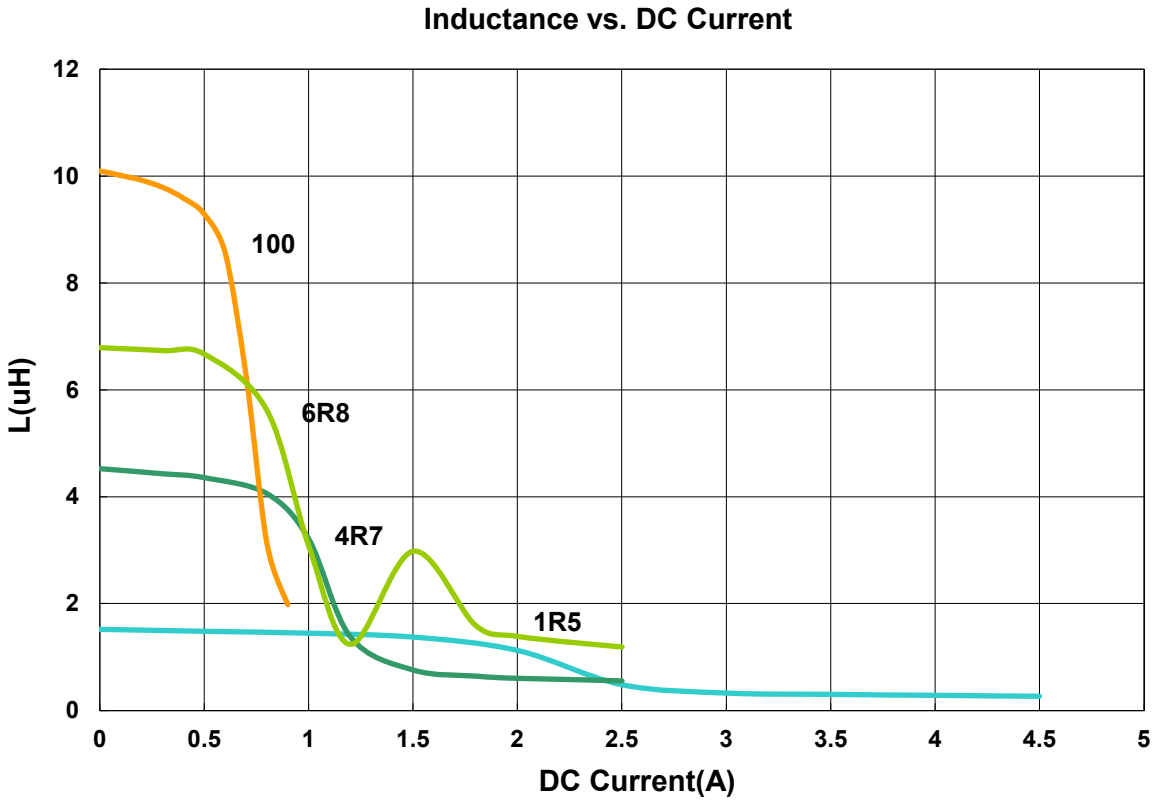
Power Inductor APSC Series

Automotive
AEC-Q200

APSC00040418 Type

■ Characteristics Graph





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Pulse a YAGEO company

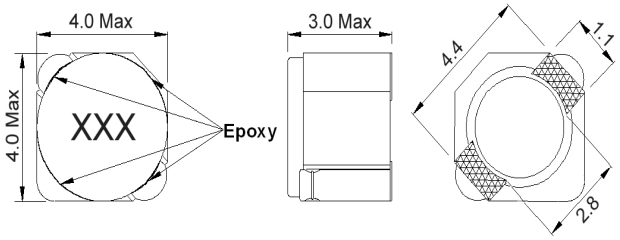
CHILISIN ELECTRONICS CORP.

Power Inductor APSC Series

Automotive
AEC-Q200

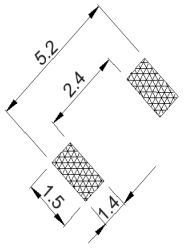
APSC00040430 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat (A) Max(Typ)	Irms (A)Typ.	Tolerance (±%)	Marking
APSC000404301R0□00	1.0	100 kHz,1 V	0.045	2.8(4.1)	2.50	30	1R0
APSC000404303R3□00	3.3	100 kHz,1 V	0.0721	2(2.5)	1.85	30	3R3
APSC000404304R7□00	4.7	100 kHz,1 V	0.0883	1.65(1.9)	1.62	30	4R7
APSC000404306R8□00	6.8	100 kHz,1 V	0.119	1.24(1.6)	1.32	30	6R8
APSC00040430100□00	10	100 kHz,1 V	0.145	1.05(1.4)	1.18	30	100
APSC00040430150□00	15	100 kHz,1 V	0.213	0.9(1.1)	1.02	30	150
APSC00040430220□00	22	100 kHz,1 V	0.335	0.76(0.95)	0.74	30	220
APSC00040430330□00	33	100 kHz,1 V	0.481	0.58(0.74)	0.63	30	330
APSC00040430470□00	47	100 kHz,1 V	0.599	0.48(0.6)	0.56	20,30	470

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Rate current: Inductance drop = 35% typ.
3. Irms for a 40℃ temprature rise from 25℃ ambient.
4. Measure Equipment:
   L: Agilent E4980 or HP4284A
   RDC: CH502BC
   Rate current: HP4284+42841A or WK3260B+WK3265B
   Irms:HP4284A+HP42841A or WK3260B+WK3265B

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Pulse a YAGEO company

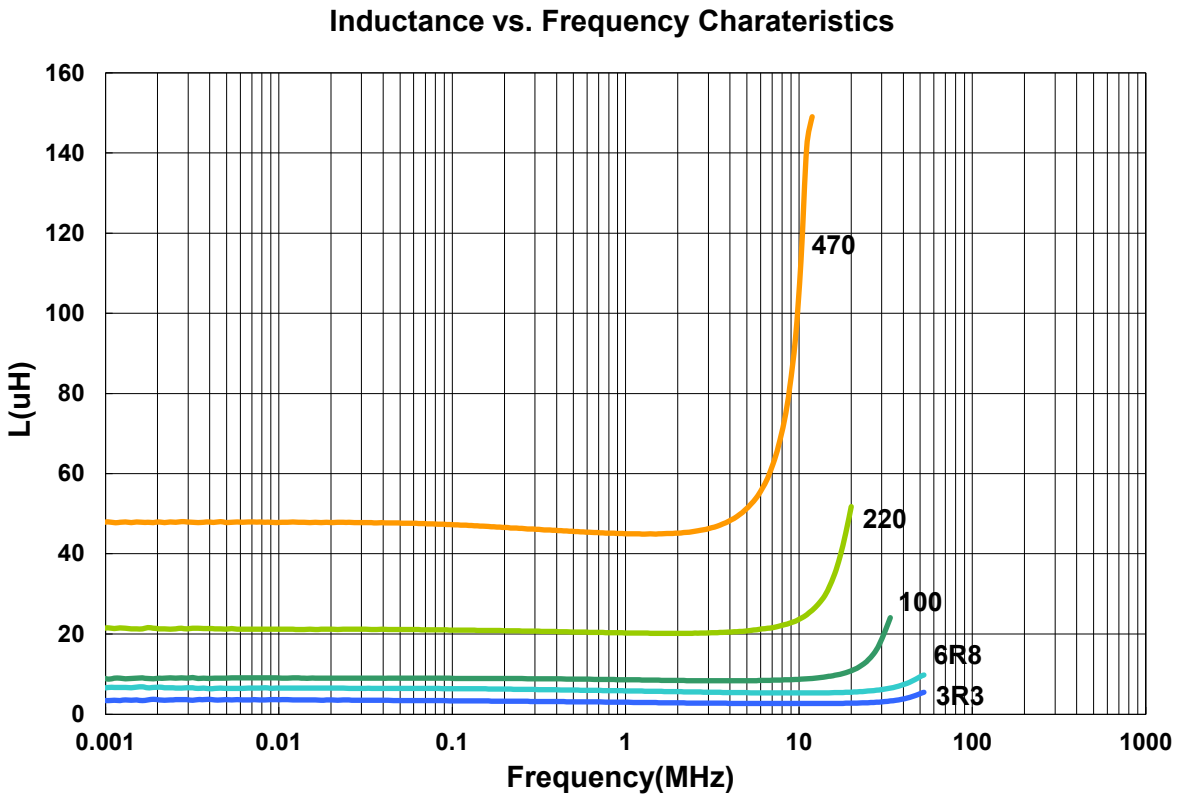
CHILISIN ELECTRONICS CORP.

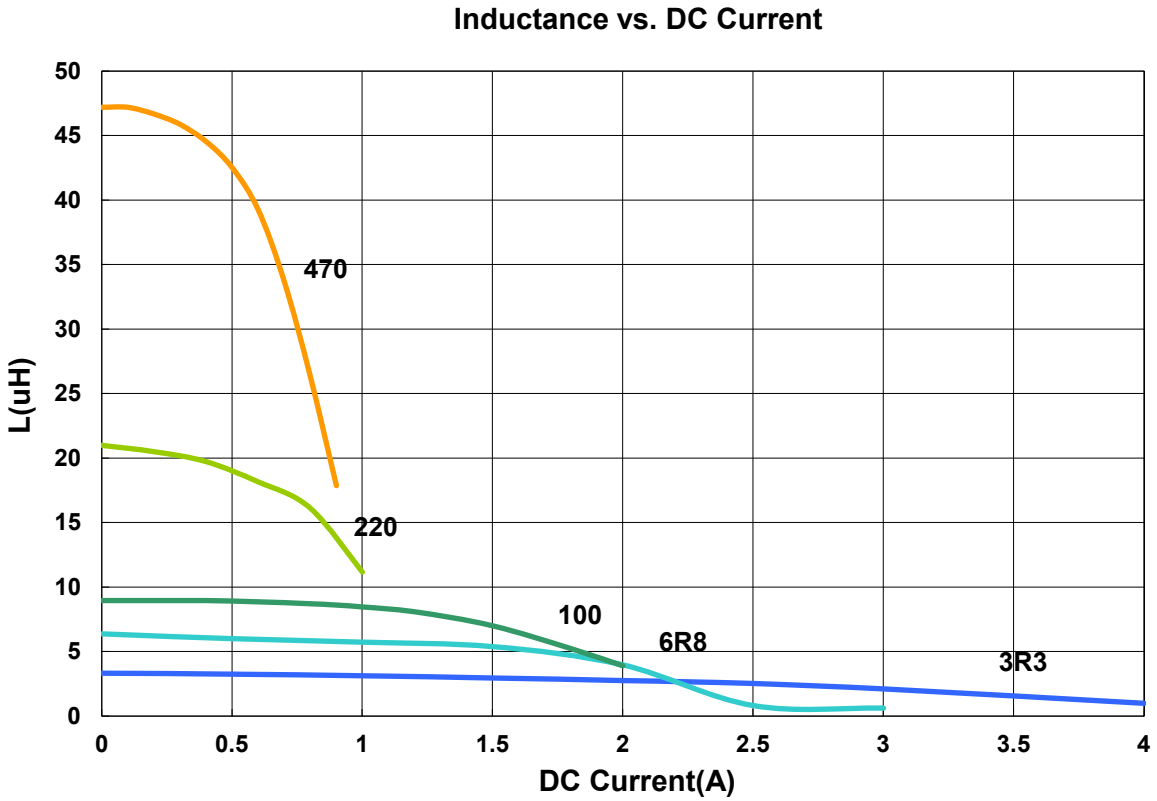
Power Inductor APSC Series

Automotive
AEC-Q200

APSC00040430 Type

■ Characteristics Graph





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Pulse a YAGEO company

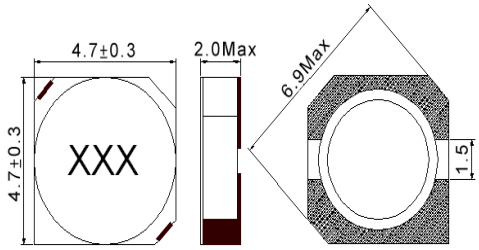
CHILISIN ELECTRONICS CORP.

Power Inductor APSC Series

Automotive
AEC-Q200

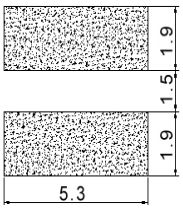
APSC00050520 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat(A) Max(Typ)	Tolerance (±%)	Marking
APSC000505201R0□S0	1	7.96 MHz,1 V	0.045	1.72(2.5)	30	1R0
APSC000505201R5□S0	1.5	7.96 MHz,1 V	0.060	1.5(1.8)	30	1R5
APSC000505201R8□S0	1.8	7.96 MHz,1 V	0.070	1.35(1.7)	30	1R8
APSC000505202R2□S0	2.2	7.96 MHz,1 V	0.075	1.3(1.6)	30	2R2
APSC000505202R7□S0	2.7	7.96 MHz,1 V	0.105	1.2(1.5)	30	2R7
APSC000505203R3□S0	3.3	7.96 MHz,1 V	0.110	1.04(1.3)	30	3R3
APSC000505203R9□S0	3.9	7.96 MHz,1 V	0.155	0.88(1.2)	30	3R9
APSC000505204R7□S0	4.7	7.96 MHz,1 V	0.162	0.84(1.1)	30	4R7
APSC000505205R6□S0	5.6	7.96 MHz,1 V	0.170	0.8(1.0)	30	5R6
APSC000505206R3□S0	6.3	7.96 MHz,1 V	0.180	0.78(0.95)	30	6R3
APSC000505206R8□S0	6.8	7.96 MHz,1 V	0.200	0.76(0.85)	30	6R8
APSC000505208R2□S0	8.2	7.96 MHz,1 V	0.245	0.68(0.8)	30	8R2
APSC00050520100□S0	10	100 kHz,1 V	0.280	0.61(0.75)	20,30	100
APSC00050520120□S0	12	100 kHz,1 V	0.320	0.56(0.7)	30	120
APSC00050520150□S0	15	100 kHz,1 V	0.360	0.5(0.65)	30	150
APSC00050520180□S0	18	100 kHz,1 V	0.400	0.48(0.6)	30	180
APSC00050520220□S0	22	100 kHz,1 V	0.480	0.41(0.55)	20,30	220
APSC00050520270□S0	27	100 kHz,1 V	0.570	0.35(0.5)	30	270
APSC00050520330□S0	33	100 kHz,1 V	0.694	0.32(0.45)	30	330
APSC00050520390□S0	39	100 kHz,1 V	0.80	0.3(0.4)	30	390
APSC00050520470□S0	47	100 kHz,1 V	0.95	0.28(0.38)	30	470
APSC00050520560□S0	56	100 kHz,1 V	1.08	0.26(0.35)	30	560
APSC00050520680□S0	68	100 kHz,1 V	1.30	0.24(0.34)	30	680
APSC00050520101□S0	100	100 kHz,1 V	2	0.2(0.3)	20,30	101

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 35% from its value without current
3. Measure Equipment:
   L: Agilent E4980 or HP4284A
   RDC: CH502BC
   Rate current: HP4284+42841A or WK3260B+WK3265B

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Pulse a YAGEO company

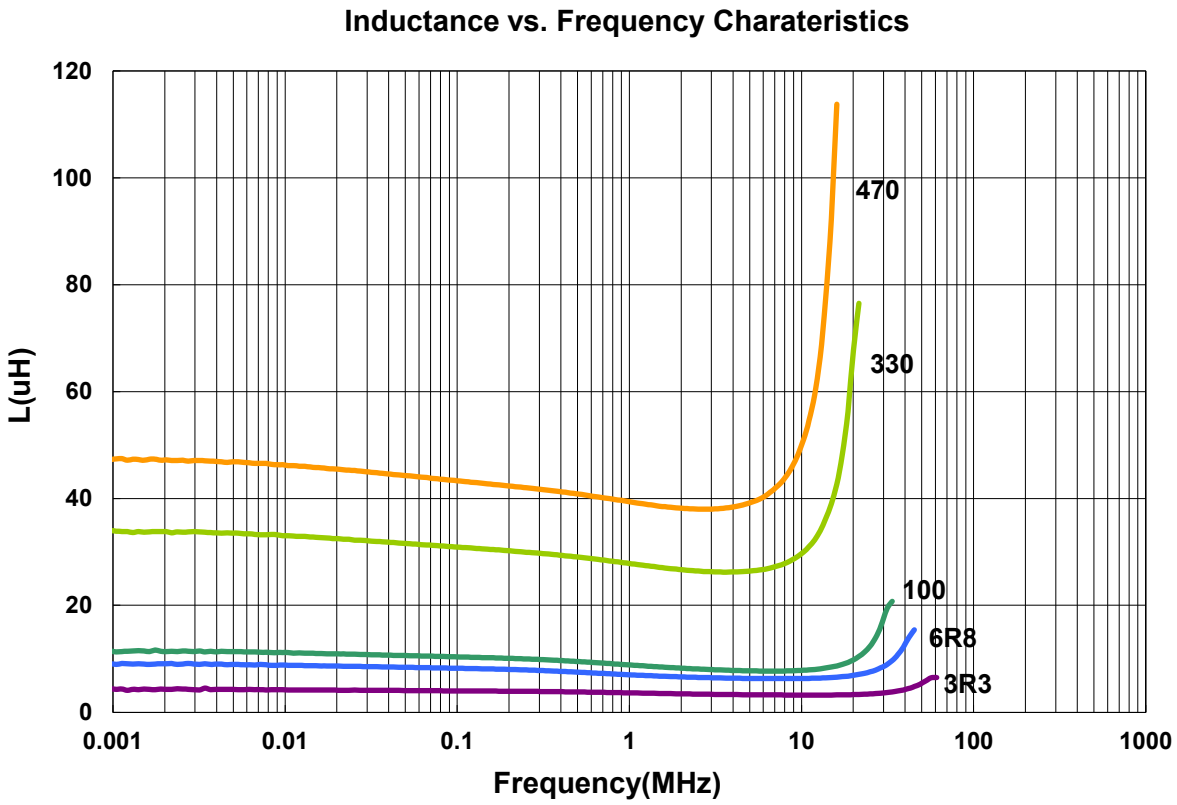
CHILISIN ELECTRONICS CORP.

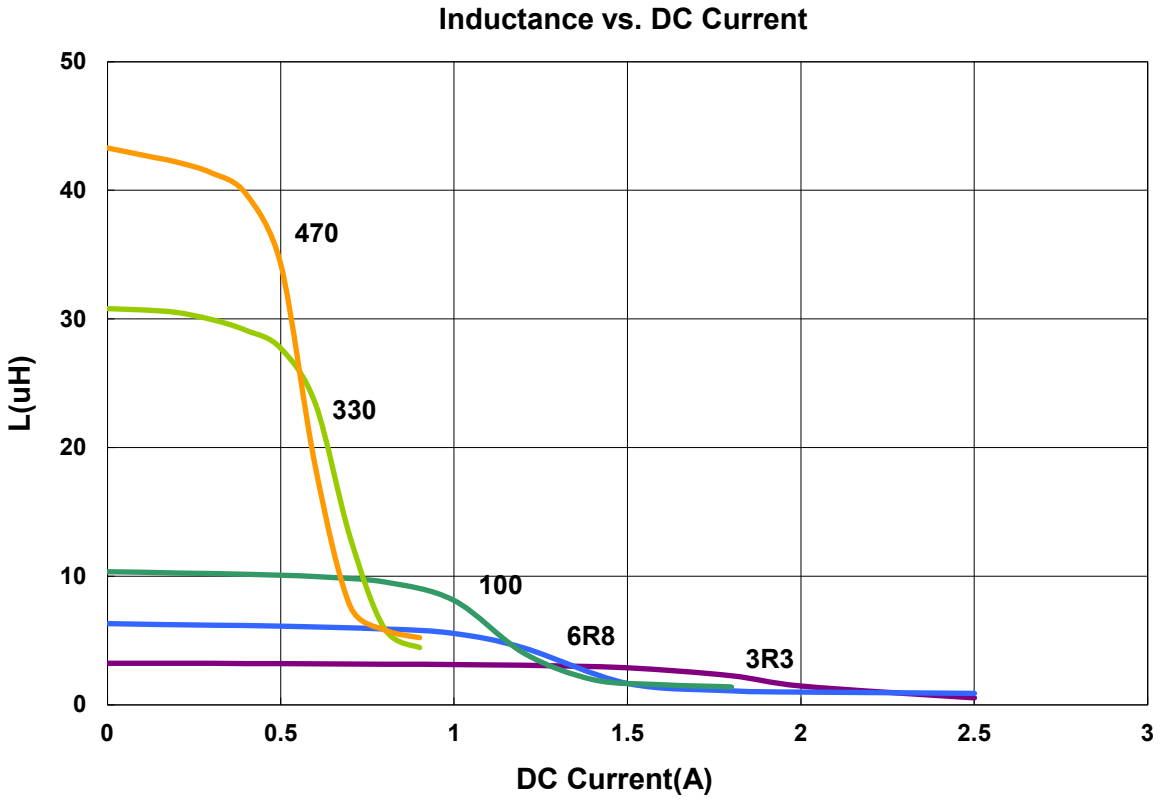
Power Inductor APSC Series

Automotive
AEC-Q200

APSC00050520 Type

■ Characteristics Graph





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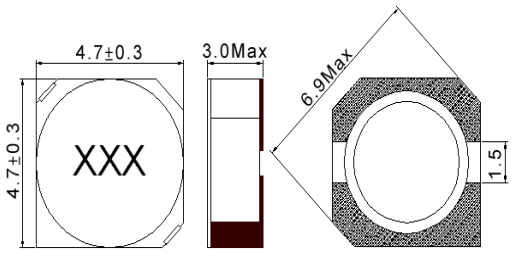
CHILISIN ELECTRONICS CORP.

Power Inductor APSC Series

Automotive
AEC-Q200

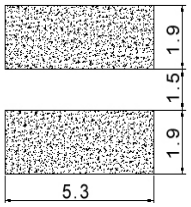
APSC00050530 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat(A) Max(Typ)	Tolerance (±%)	Marking
APSC000505301R2□S0	1.2	100 kHz,1 V	0.0236	2.56(4.1)	30	1R2
APSC000505301R8□S0	1.8	100 kHz,1 V	0.035	2.2(3.2)	30	1R8
APSC000505302R0□S0	2	100 kHz,1 V	0.030	2.1(3.0)	30	2R0
APSC000505302R2□S0	2.2	100 kHz,1 V	0.0313	2.04(2.9)	30	2R2
APSC000505302R7□S0	2.7	100 kHz,1 V	0.0433	1.6(2.8)	30	2R7
APSC000505303R3□S0	3.3	100 kHz,1 V	0.0492	1.57(2.3)	30	3R3
APSC000505303R9□S0	3.9	100 kHz,1 V	0.0648	1.44(2.1)	30	3R9
APSC000505304R7□S0	4.7	100 kHz,1 V	0.072	1.32(2.0)	20,30	4R7
APSC000505305R6□S0	5.6	100 kHz,1 V	0.1009	1.17(1.7)	30	5R6
APSC000505306R8□S0	6.8	100 kHz,1 V	0.1089	1.12(1.6)	30	6R8
APSC000505308R2□S0	8.2	100 kHz,1 V	0.1175	1.04(1.5)	30	8R2
APSC00050530100□S0	10	100 kHz,1 V	0.1283	1.0(1.3)	20,30	100
APSC00050530120□S0	12	100 kHz,1 V	0.1316	0.84(1.1)	30	120
APSC00050530150□S0	15	100 kHz,1 V	0.149	0.76(1.0)	30	150
APSC00050530180□S0	18	100 kHz,1 V	0.166	0.72(0.99)	30	180
APSC00050530220□S0	22	100 kHz,1 V	0.235	0.7(0.93)	20,30	220
APSC00050530270□S0	27	100 kHz,1 V	0.261	0.58(0.83)	30	270
APSC00050530330□S0	33	100 kHz,1 V	0.3313	0.56(0.64)	30	330
APSC00050530390□S0	39	100 kHz,1 V	0.3837	0.5(0.7)	20,30	390
APSC00050530470□S0	47	100 kHz,1 V	0.587	0.48(0.61)	20,30	470
APSC00050530560□S0	56	100 kHz,1 V	0.6245	0.41(0.54)	30	560
APSC00050530680□S0	68	100 kHz,1 V	0.699	0.35(0.49)	30	680
APSC00050530820□S0	82	100 kHz,1 V	0.9148	0.32(0.49)	30	820
APSC00050530101□S0	100	100 kHz,1 V	1.02	0.29(0.45)	20,30	101
APSC00050530121□S0	120	100 kHz,1 V	1.27	0.27(0.4)	30	121
APSC00050530151□S0	150	100 kHz,1 V	1.35	0.24(0.34)	30	151
APSC00050530181□S0	180	100 kHz,1 V	1.54	0.22(0.32)	30	181
APSC00050530221□S0	220	100 kHz,1 V	2.0	0.2(0.29)	30	221
APSC00050530331□S0	330	100 kHz,1 V	3.4	0.19(0.24)	20,30	331
APSC00050530391□S0	390	100 kHz,1 V	3.56	0.18(0.22)	20,30	391
APSC00050530681□S0	680	100 kHz,1 V	5.2	0.1(0.17)	20,30	681

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 35% from its value without current
3. Measure Equipment:
   L: Agilent E4980 or HP4284A
   RDC: CH502BC
   Rate current: HP4284+42841A or WK3260B+WK3265B

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Pulse a YAGEO company

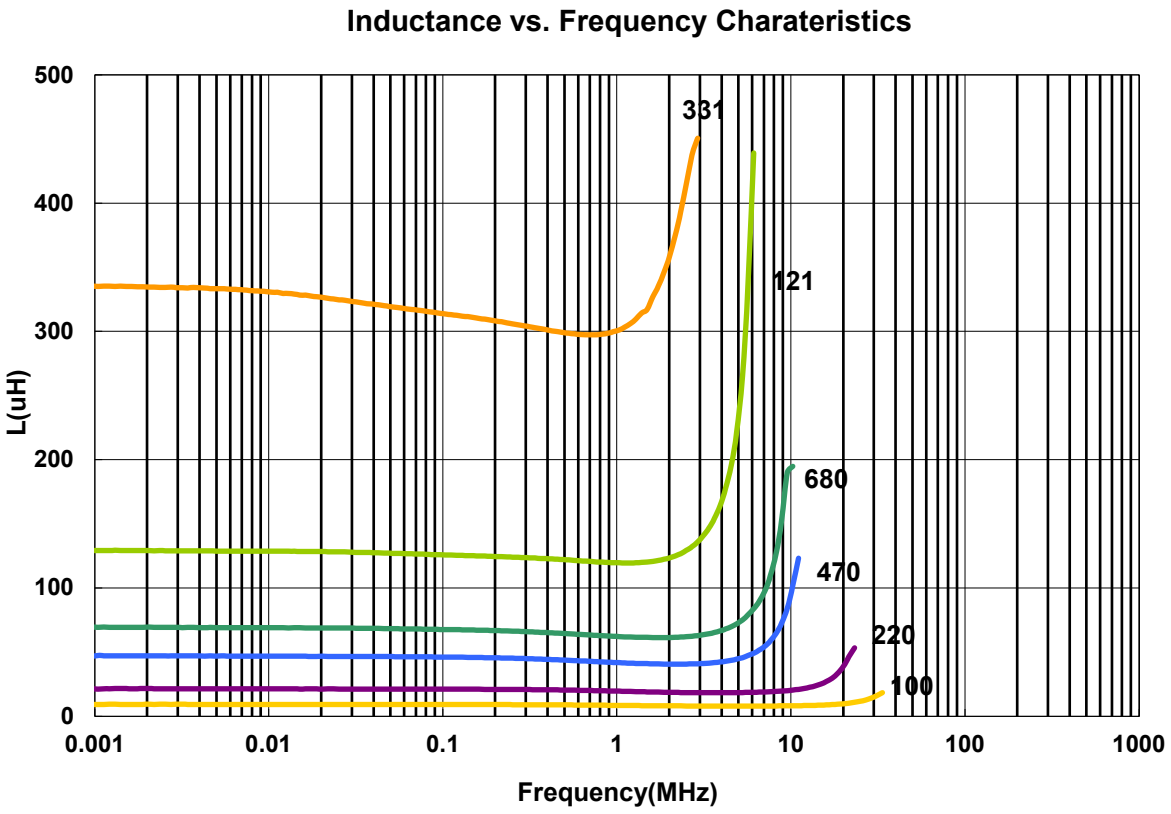
CHILISIN ELECTRONICS CORP.

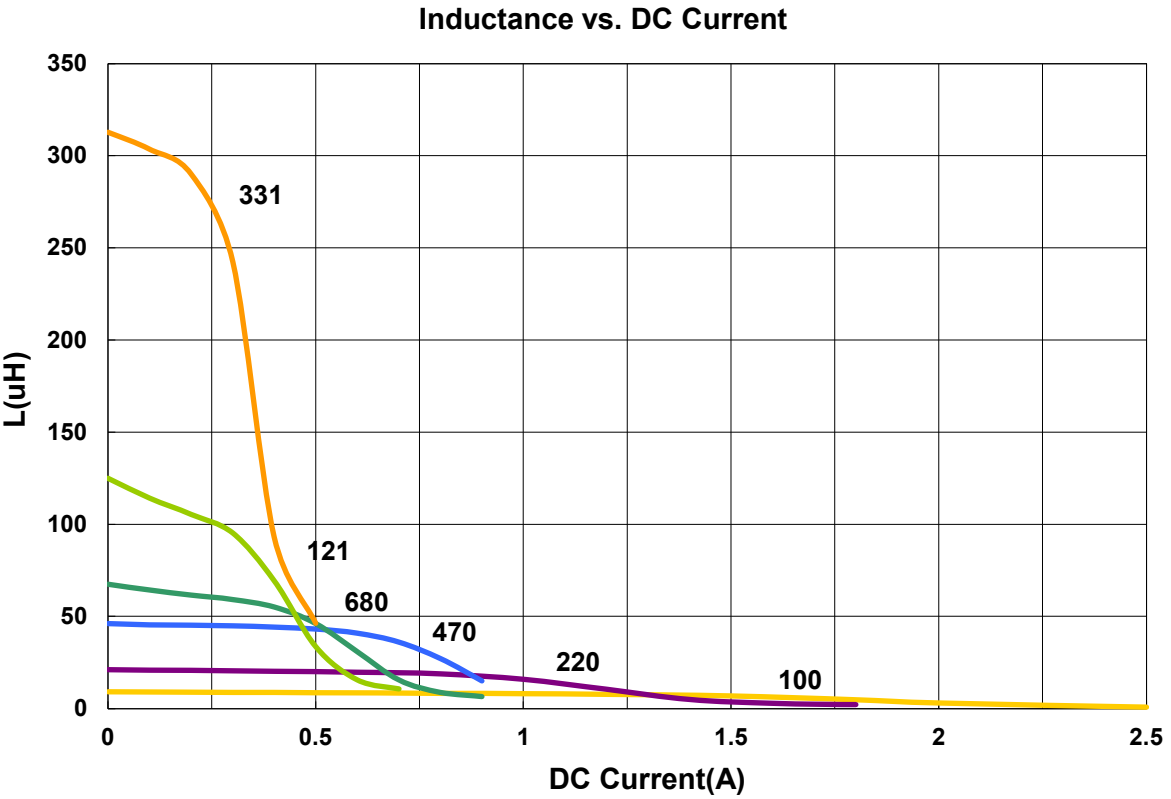
Power Inductor APSC Series

Automotive
AEC-Q200

APSC00050530 Type

■ Characteristics Graph





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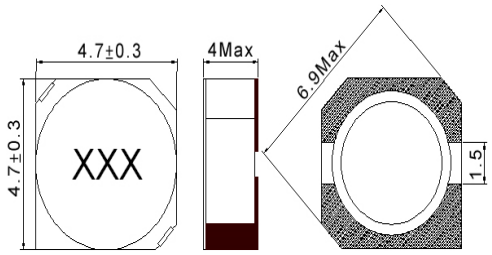
CHILISIN ELECTRONICS CORP.

Power Inductor APSC Series

Automotive
AEC-Q200

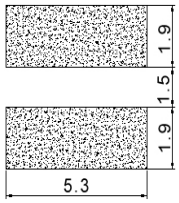
APSC00050540 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat(A) Max(Typ)	Irms (A)Typ.	Tolerance (±%)	Marking
APSC000505402R2□S0	2.2	100 kHz,1 V	0.033	3.5(4.6)	4.3	30	2R2
APSC000505403R3□S0	3.3	100 kHz,1 V	0.039	2.7(3.4)	3.6	30	3R3
APSC000505404R7□S0	4.7	100 kHz,1 V	0.053	2.4(3.0)	3	30	4R7
APSC000505406R8□S0	6.8	100 kHz,1 V	0.06	2.0(2.6)	2.8	30	6R8
APSC00050540100□S0	10	100 kHz,1 V	0.15	1.5(2.0)	1.6	20,30	100
APSC00050540150□S0	15	100 kHz,1 V	0.21	1.2(1.6)	1.35	20,30	150
APSC00050540220□S0	22	100 kHz,1 V	0.27	1.0(1.4)	1	20,30	220

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 35% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Measure Equipment:
   L: Agilent E4980 or HP4284A
   RDC: CH502BC
   Rate current: HP4284+42841A or WK3260B+WK3265B

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Pulse a YAGEO company

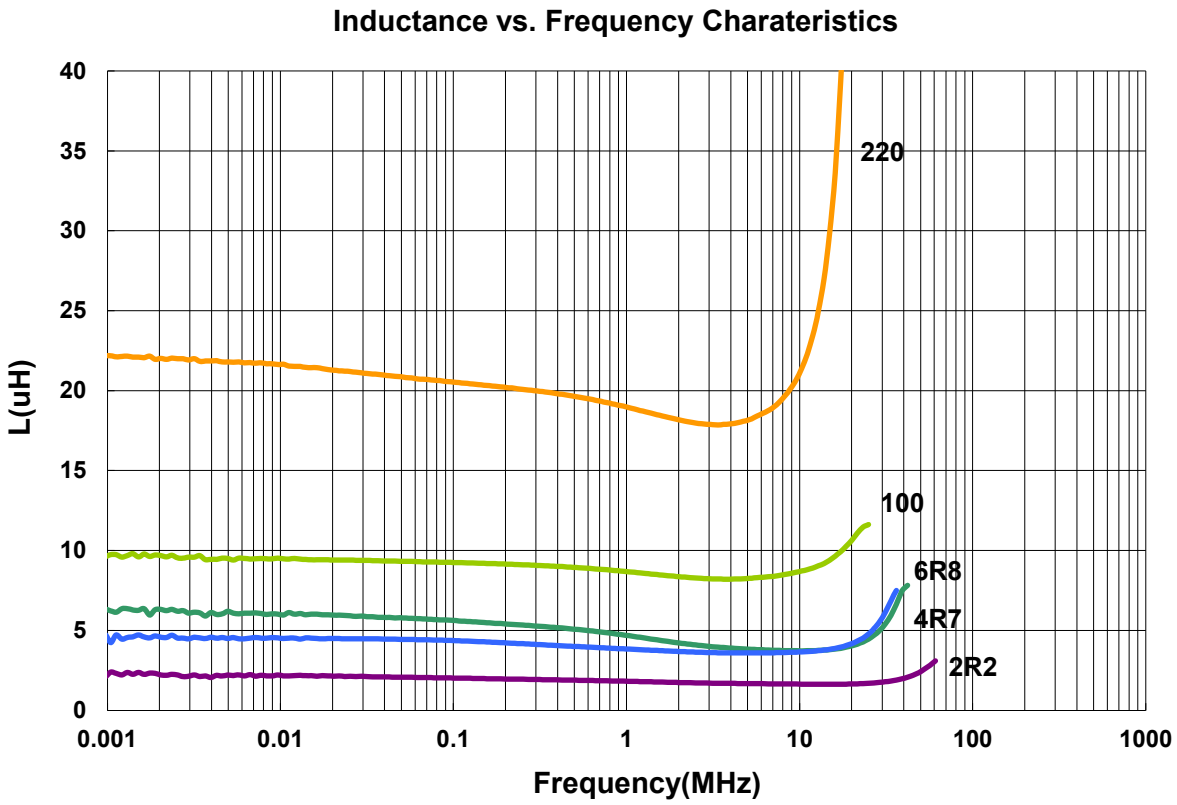
CHILISIN ELECTRONICS CORP.

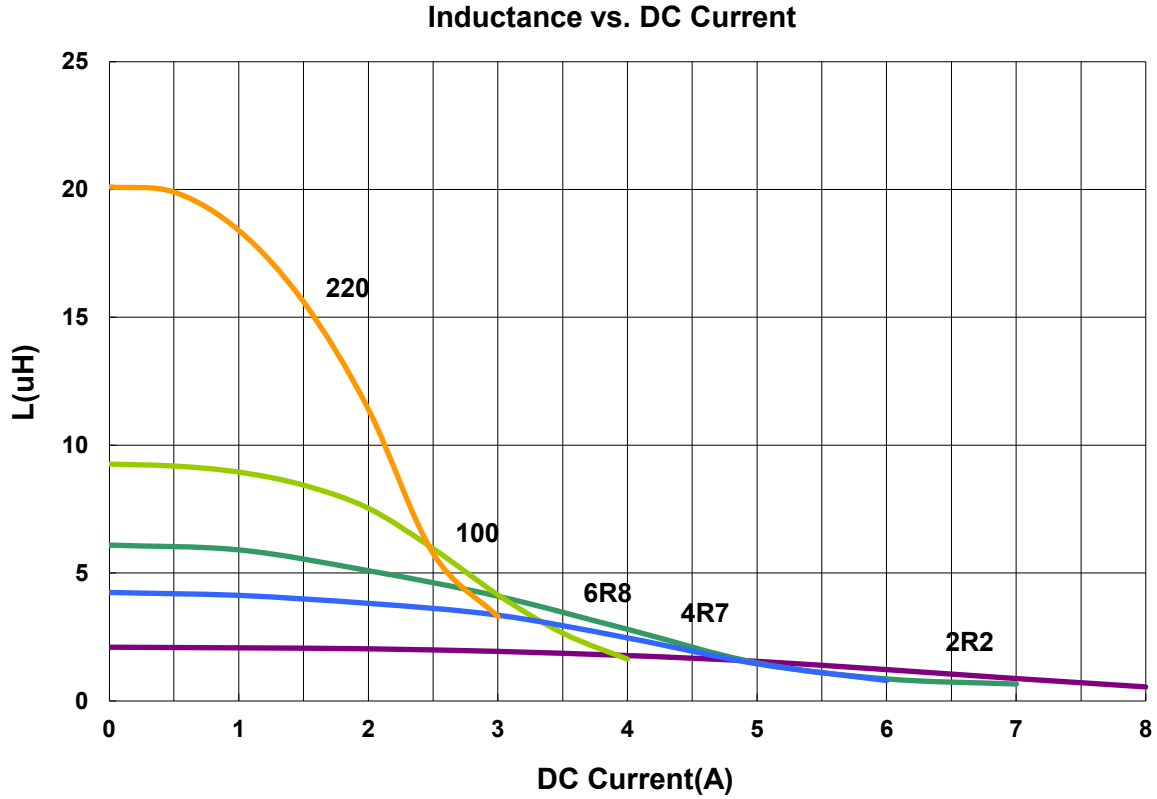
Power Inductor APSC Series

Automotive
AEC-Q200

APSC00050540 Type

■ Characteristics Graph





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Pulse a YAGEO company

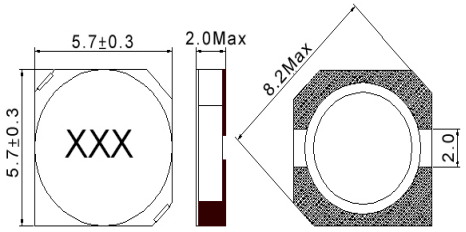
CHILISIN ELECTRONICS CORP.

Power Inductor APSC Series

Automotive
AEC-Q200

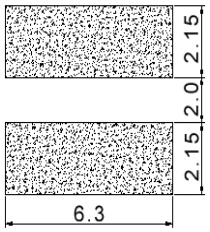
APSC00060620 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat(A) Max(Typ)	Tolerance (±%)	Marking
APSC000606201R0□S0	1	10 kHz,1 V	0.038	2.8(3.5)	30	1R0
APSC000606201R5□S0	1.5	10 kHz,1 V	0.038	2.5(3.0)	30	1R5
APSC000606202R0□S0	2	10 kHz,1 V	0.045	2.1(2.6)	30	2R0
APSC000606202R2□S0	2.2	10 kHz,1 V	0.048	2.0(2.5)	30	2R2
APSC000606203R3□S0	3.3	10 kHz,1 V	0.056	1.7(2.0)	30	3R3
APSC000606204R1□S0	4.1	10 kHz,1 V	0.057	1.55(1.9)	30	4R1
APSC000606204R7□S0	4.7	10 kHz,1 V	0.076	1.35(1.7)	30	4R7
APSC000606205R4□S0	5.4	10 kHz,1 V	0.076	1.2(1.5)	30	5R4
APSC000606206R2□S0	6.2	10 kHz,1 V	0.096	1.1(1.4)	30	6R2
APSC000606206R8□S0	6.8	10 kHz,1 V	0.100	1.0(1.3)	30	6R8
APSC000606208R9□S0	8.9	10 kHz,1 V	0.116	0.95(1.25)	30	8R9
APSC00060620100□S0	10	10 kHz,1 V	0.124	0.9(1.2)	20,30	100
APSC00060620120□S0	12	10 kHz,1 V	0.153	0.9(1.0)	30	120
APSC00060620150□S0	15	10 kHz,1 V	0.196	0.8(0.91)	20,30	150
APSC00060620180□S0	18	10 kHz,1 V	0.210	0.75(0.9)	30	180
APSC00060620220□S0	22	10 kHz,1 V	0.290	0.65(0.8)	20,30	220
APSC00060620270□S0	27	10 kHz,1 V	0.330	0.6(0.7)	30	270
APSC00060620330□S0	33	10 kHz,1 V	0.386	0.55(0.65)	20,30	330
APSC00060620390□S0	39	10 KHz,1 V	0.520	0.48(0.6)	30	390
APSC00060620470□S0	47	10 kHz,1 V	0.595	0.44(0.51)	20,30	470
APSC00060620560□S0	56	10 kHz,1 V	0.665	0.4(0.5)	30	560
APSC00060620680□S0	68	10 kHz,1 V	0.840	0.33(0.43)	30	680
APSC00060620820□S0	82	10 kHz,1 V	0.978	0.3(0.41)	30	820
APSC00060620101□S0	100	10 kHz,1 V	1.2	0.25(0.36)	20,30	101

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 35% from its value without current
3. Measure Equipment:
   L: Agilent E4980 or HP4284A
   RDC: CH502BC
   Rate current: HP4284+42841A or WK3260B+WK3265B

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Pulse a YAGEO company

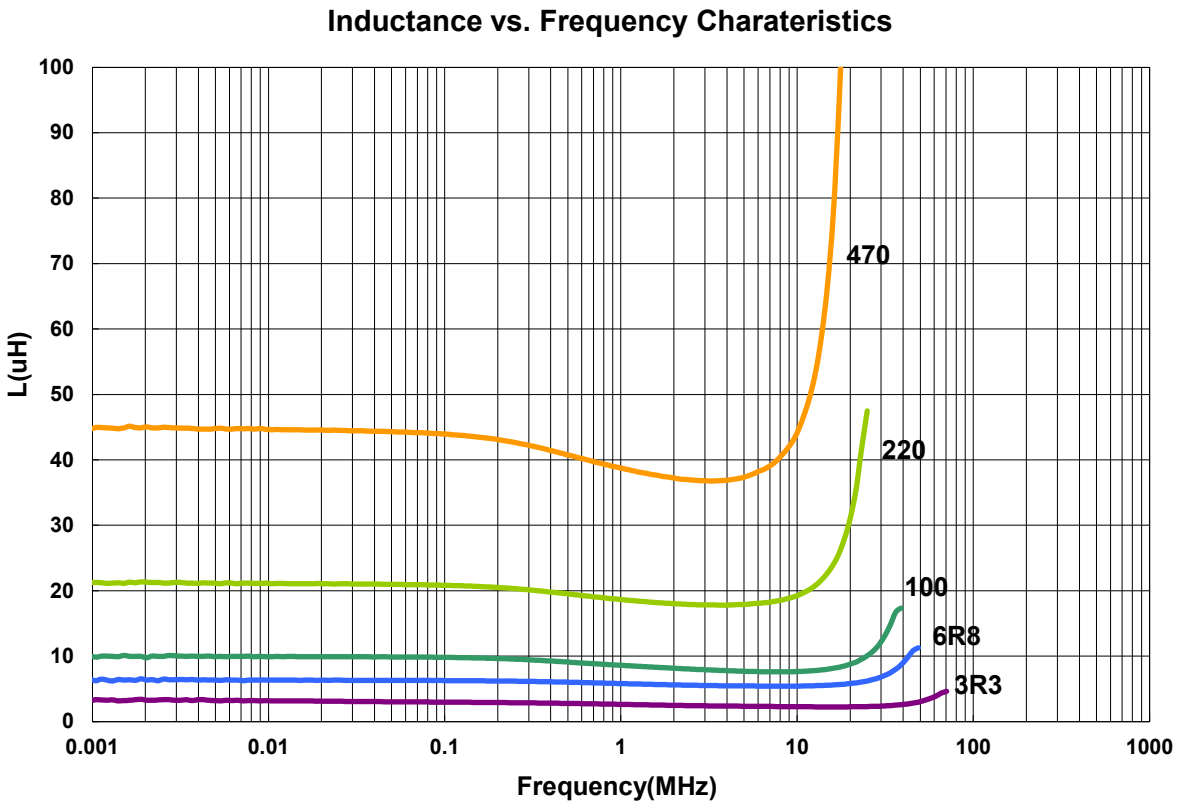
CHILISIN ELECTRONICS CORP.

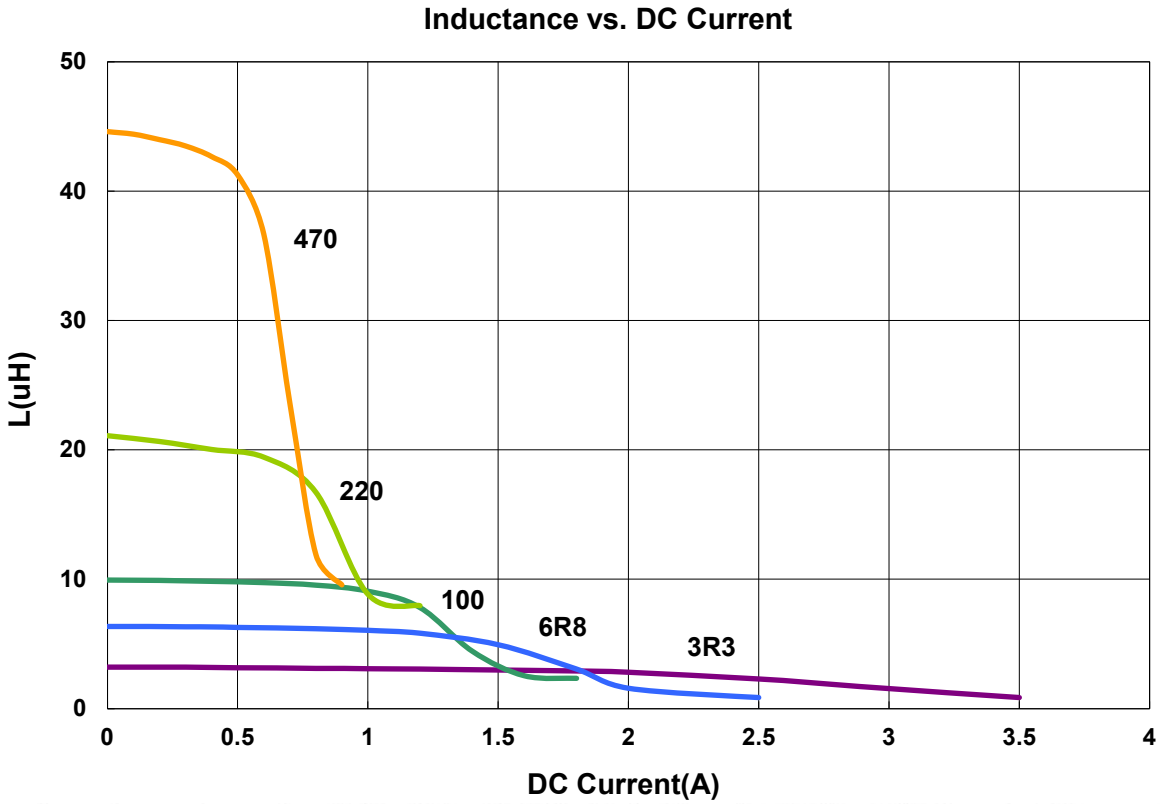
Power Inductor APSC Series

Automotive
AEC-Q200

APSC00060620 Type

■ Characteristics Graph





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Pulse a YAGEO company

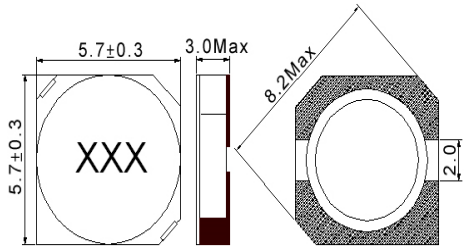
CHILISIN ELECTRONICS CORP.

Power Inductor APSC Series

Automotive
AEC-Q200

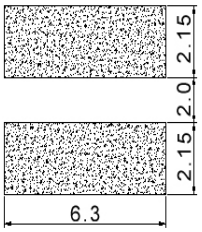
APSC00060630 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat(A) Max(Typ)	Tolerance (±%)	Marking
APSC000606301R0□S0	1	10 kHz,1 V	0.015	3.5(4.2)	30	1R0
APSC000606301R5□S0	1.5	10 kHz,1 V	0.015	2.8(3.7)	30	1R5
APSC000606302R2□S0	2.2	10 kHz,1 V	0.018	2.4(3.1)	30	2R2
APSC000606302R5□S0	2.5	10 kHz,1 V	0.022	2.3(2.7)	30	2R5
APSC000606302R6□S0	2.6	10 kHz,1 V	0.022	2.2(2.6)	30	2R6
APSC000606302R7□S0	2.7	10 kHz,1 V	0.024	2.2(2.6)	30	2R7
APSC000606303R0□S0	3	10 kHz,1 V	0.024	2.2(2.5)	30	3R0
APSC000606303R3□S0	3.3	10 kHz,1 V	0.027	2.1(2.5)	30	3R3
APSC000606304R2□S0	4.2	10 kHz,1 V	0.031	2.0(2.2)	30	4R2
APSC000606304R3□S0	4.3	10 kHz,1 V	0.041	1.8(2.1)	30	4R3
APSC000606304R7□S0	4.7	10 kHz,1 V	0.038	1.6(2.0)	30	4R7
APSC000606305R0□S0	5	10 kHz,1 V	0.038	1.5(1.9)	30	5R0
APSC000606305R3□S0	5.3	10 kHz,1 V	0.038	1.5(1.9)	30	5R3
APSC000606306R2□S0	6.2	10 kHz,1 V	0.045	1.2(1.8)	30	6R2
APSC000606306R8□S0	6.8	10 kHz,1 V	0.050	1.2(1.6)	30	6R8
APSC000606308R2□S0	8.2	10 kHz,1 V	0.053	1.0(1.5)	30	8R2
APSC00060630100□S0	10	10 kHz,1 V	0.065	0.95(1.4)	20,30	100
APSC00060630120□S0	12	10 kHz,1 V	0.076	0.9(1.3)	20,30	120
APSC00060630150□S0	15	10 kHz,1 V	0.103	0.85(1.1)	20,30	150
APSC00060630180□S0	18	10 kHz,1 V	0.110	0.8(1.0)	30	180
APSC00060630220□S0	22	10 kHz,1 V	0.122	0.75(0.92)	20,30	220
APSC00060630270□S0	27	10 kHz,1 V	0.175	0.65(0.82)	30	270
APSC00060630330□S0	33	10 kHz,1 V	0.189	0.6(0.75)	30	330
APSC00060630390□S0	39	10 kHz,1 V	0.212	0.55(0.7)	30	390
APSC00060630470□S0	47	10 kHz,1 V	0.250	0.5(0.62)	20,30	470
APSC00060630560□S0	56	10 kHz,1 V	0.305	0.48(0.59)	30	560
APSC00060630680□S0	68	10 kHz,1 V	0.355	0.42(0.52)	30	680
APSC00060630820□S0	82	10 kHz,1 V	0.463	0.39(0.46)	30	820

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Rate current: The rate current indicates the current when the inductance decreases to 65% over of it's nominal value or D.C.current when the temperature rising △T=40℃ lower, whichever is lower
3. Measure Equipment:
   L: Agilent E4980 or HP4284A
   RDC: CH502BC
   Rate current: HP4284+42841A or WK3260B+WK3265B

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Pulse a YAGEO company

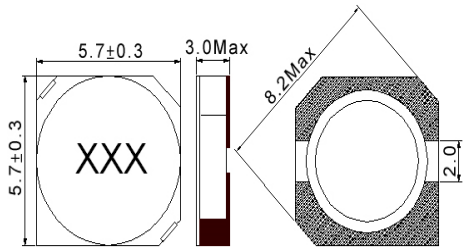
CHILISIN ELECTRONICS CORP.

Power Inductor APSC Series

Automotive
AEC-Q200

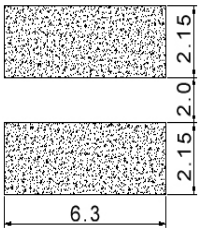
APSC00060630 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat(A) Max(Typ)	Tolerance (±%)	Marking
APSC00060630101□S0	100	10 kHz,1 V	0.52	0.35(0.42)	20,30	101
APSC00060630181□S0	180	10 kHz,1 V	1.05	0.21(0.31)	30	181
APSC00060630221□S0	220	10 kHz,1 V	1.2	0.20(0.30)	30	221
APSC00060630331□S0	330	10 kHz,1 V	1.7	0.15(0.24)	20,30	331
APSC00060630391□S0	390	10 kHz,1 V	1.8	0.13(0.22)	30	391
APSC00060630471□S0	470	10 kHz,1 V	2.5	0.11(0.21)	20,30	471
APSC00060630561□S0	560	10 kHz,1 V	3.2	0.10(0.17)	20,30	561

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

1. Operating temperature range －４０℃～１２５℃(Including self - temperature rise)
2. Isat for Inductance drop 35% from its value without current
3. Measure Equipment:
   L: Agilent E4980 or HP4284A
   RDC: CH502BC
   Rate current: HP4284+42841A or WK3260B+WK3265B

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Pulse a YAGEO company

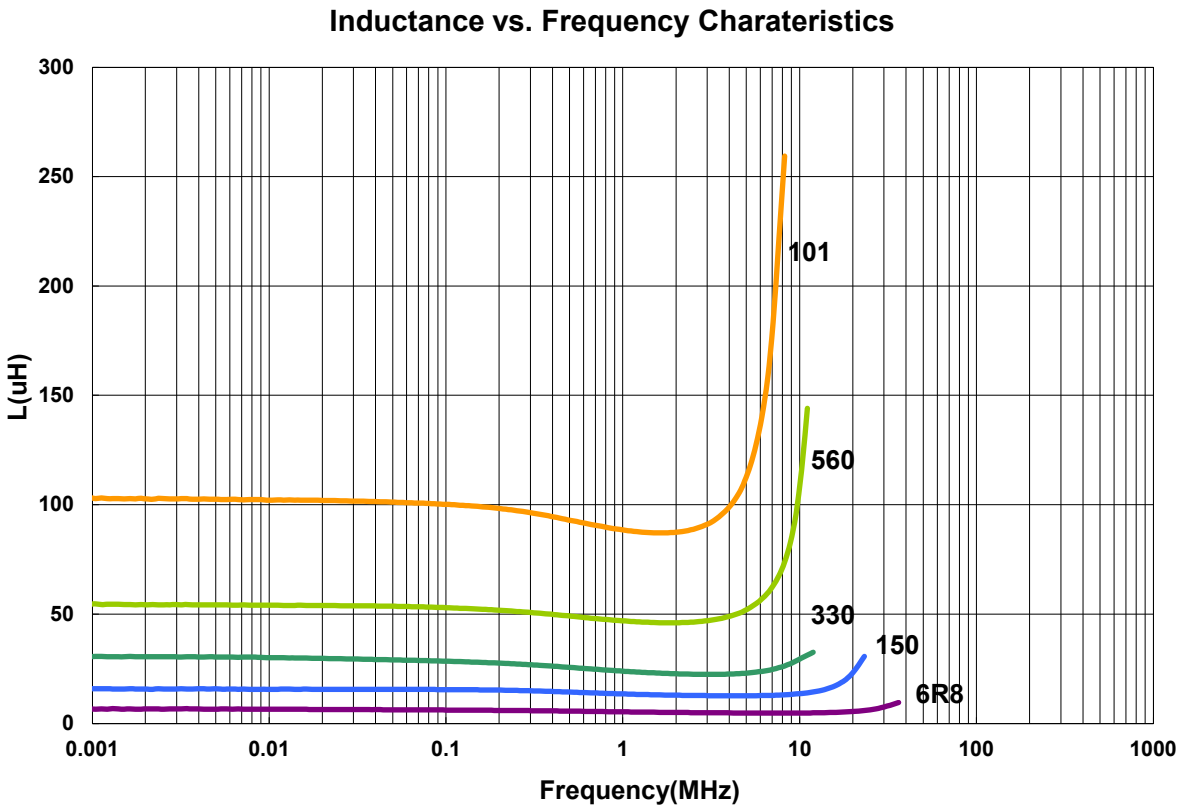
CHILISIN ELECTRONICS CORP.

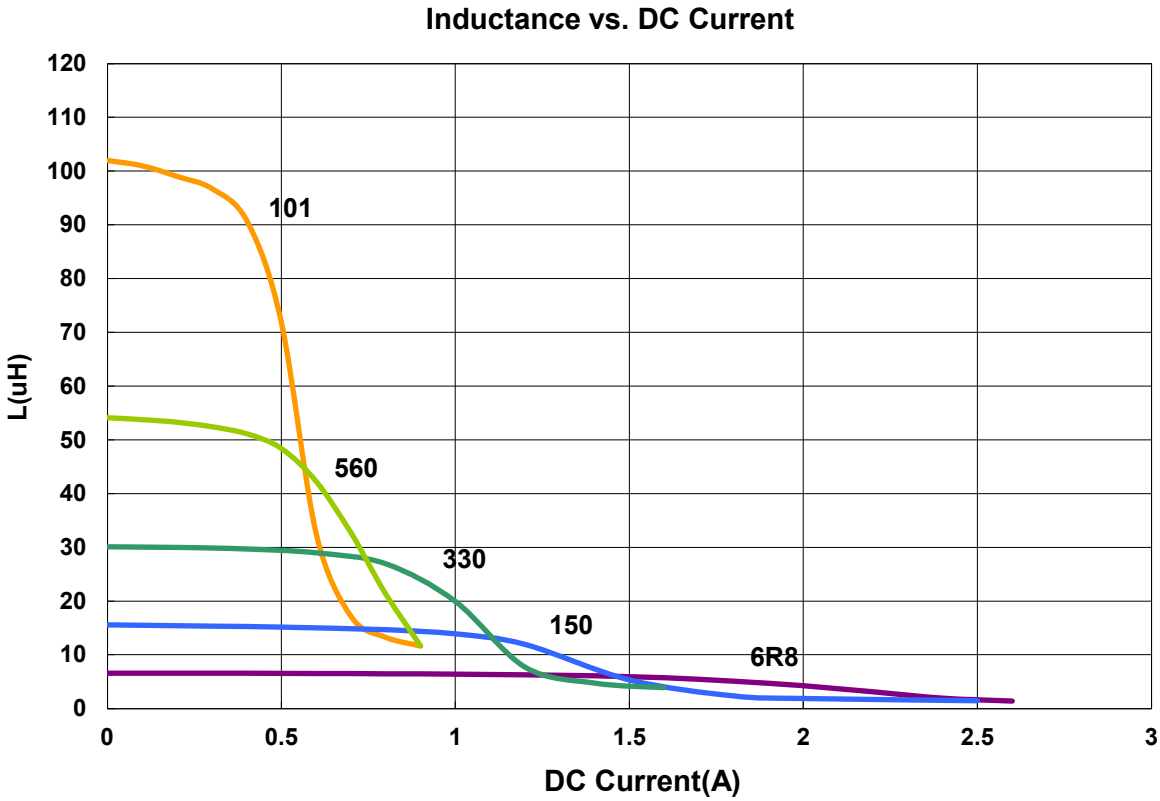
Power Inductor APSC Series

Automotive
AEC-Q200

APSC00060630 Type

■ Characteristics Graph





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Pulse a YAGEO company

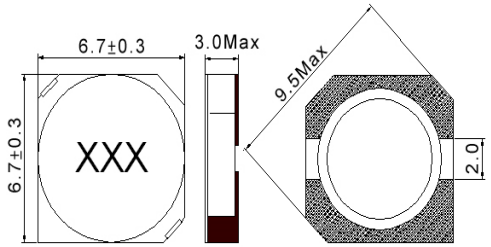
CHILISIN ELECTRONICS CORP.

Power Inductor APSC Series

Automotive
AEC-Q200

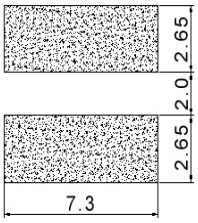
APSC00070730 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat(A) Max(Typ)	Tolerance (±%)	Marking
APSC000707301R0□S0	1	10 kHz,1 V	0.024	3.5(5.3)	30	1R0
APSC000707301R5□S0	1.5	10 kHz,1 V	0.0195	3.4(4.5)	30	1R5
APSC000707302R2□S0	2.2	10 kHz,1 V	0.035	3.0(3.4)	30	2R2
APSC000707303R0□S0	3	10 kHz,1 V	0.024	2.6(3.2)	30	3R0
APSC000707303R3□S0	3.3	10 kHz,1 V	0.025	2.5(3.1)	30	3R3
APSC000707303R9□S0	3.9	10 kHz,1 V	0.027	2.3(2.9)	30	3R9
APSC000707304R7□S0	4.7	10 kHz,1 V	0.031	1.92(2.4)	30	4R7
APSC000707305R0□S0	5	10 kHz,1 V	0.031	1.74(2.4)	30	5R0
APSC000707306R0□S0	6	10 kHz,1 V	0.035	1.7(2.25)	30	6R0
APSC000707306R2□S0	6.2	10 kHz,1 V	0.051	1.4(2.2)	30	6R2
APSC000707306R8□S0	6.8	10 kHz,1 V	0.050	1.3(2.15)	30	6R8
APSC000707307R3□S0	7.3	10 kHz,1 V	0.054	1.25(2.1)	30	7R3
APSC000707308R6□S0	8.6	10 kHz,1 V	0.058	1.2(1.85)	30	8R6
APSC00070730100□S0	10	10 kHz,1 V	0.065	1.15(1.7)	20,30	100
APSC00070730120□S0	12	10 kHz,1 V	0.070	1.14(1.5)	20,30	120
APSC00070730150□S0	15	10 kHz,1 V	0.084	1.12(1.4)	20,30	150
APSC00070730180□S0	18	10 kHz,1 V	0.095	1.02(1.32)	30	180
APSC00070730220□S0	22	10 kHz,1 V	0.128	0.87(1.2)	30	220
APSC00070730270□S0	27	10 kHz,1 V	0.142	0.82(1.05)	30	270
APSC00070730330□S0	33	10 kHz,1 V	0.165	0.8(0.97)	30	330
APSC00070730390□S0	39	10 kHz,1 V	0.210	0.79(0.9)	30	390
APSC00070730470□S0	47	10 kHz,1 V	0.238	0.7(0.8)	20,30	470
APSC00070730560□S0	56	10 kHz,1 V	0.277	0.6(0.73)	30	560
APSC00070730680□S0	68	10 kHz,1 V	0.304	0.55(0.65)	30	680
APSC00070730820□S0	82	10 kHz,1 V	0.390	0.48(0.6)	30	820
APSC00070730101□S0	100	10 kHz,1 V	0.535	0.43(0.54)	30	101
APSC00070730121□S0	120	10 kHz,1 V	0.60	0.36(0.45)	20,30	121
APSC00070730221□S0	220	10 kHz,1 V	1.3	0.27(0.34)	20,30	221

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 35% from its value without current
3. Measure Equipment:
   L: Agilent E4980 or HP4284A
   RDC: CH502BC
   Rate current: HP4284+42841A or WK3260B+WK3265B

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Pulse a YAGEO company

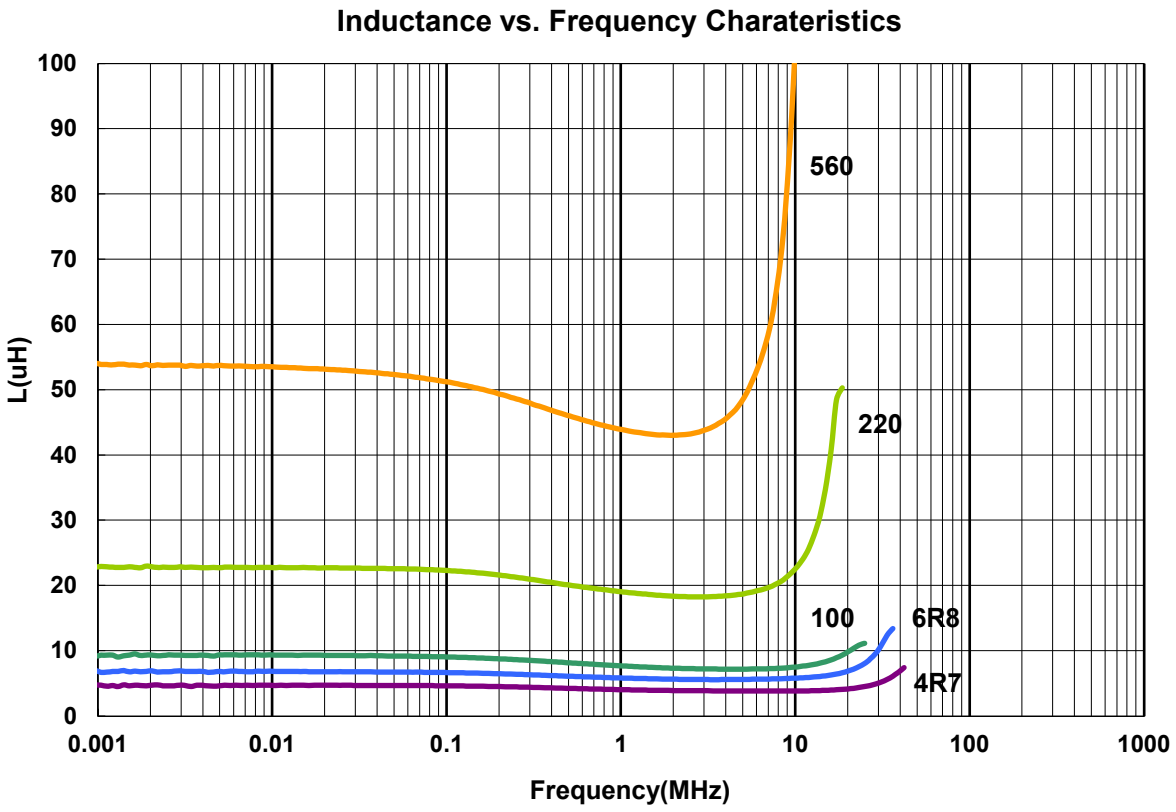
CHILISIN ELECTRONICS CORP.

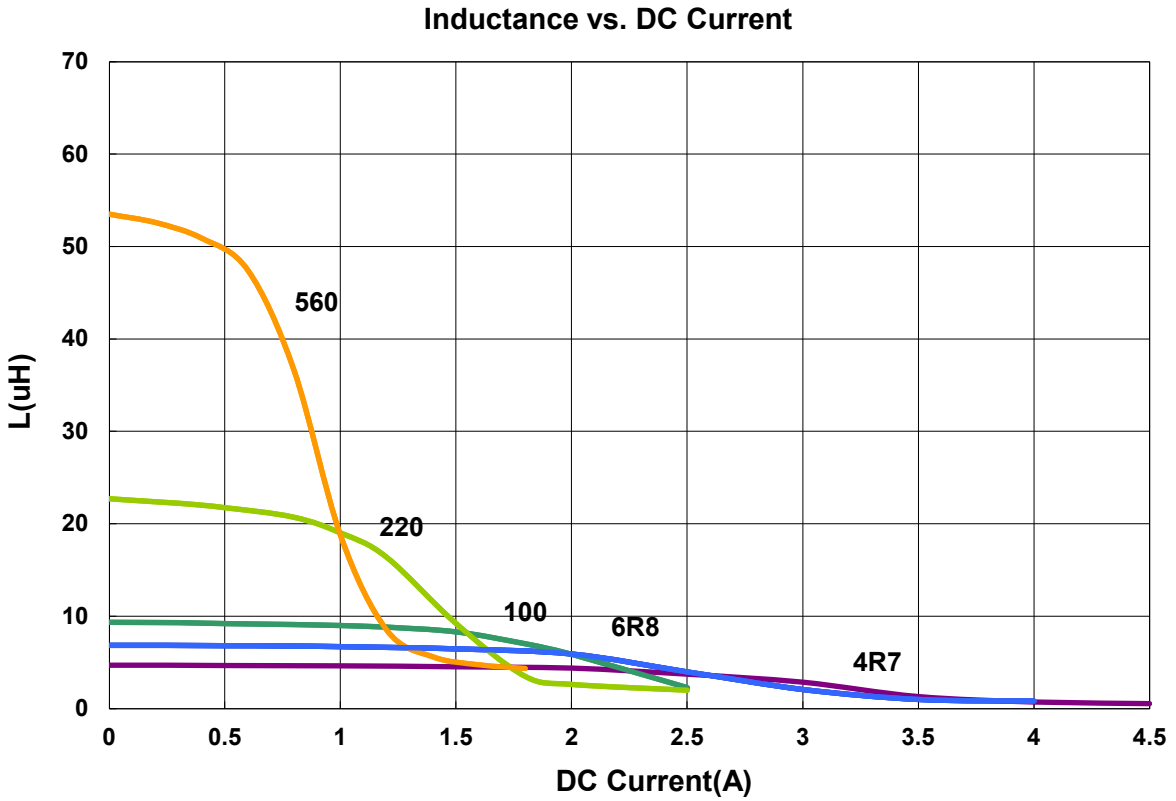
Power Inductor APSC Series

Automotive
AEC-Q200

APSC00070730 Type

■ Characteristics Graph





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Pulse a YAGEO company

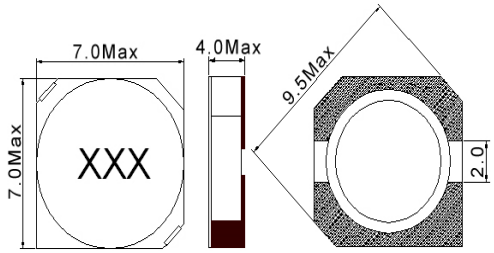
CHILISIN ELECTRONICS CORP.

Power Inductor APSC Series

Automotive
AEC-Q200

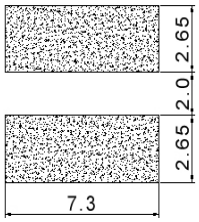
APSC00070740 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat(A) Max(Typ)	Tolerance (±%)	Marking
APSC000707402R2□S0	2.2	10 kHz,0.1 V	0.018	3.8(4.7)	30	2R2
APSC000707402R7□S0	2.7	10 kHz,0.1 V	0.002	3.2(4.0)	30	2R7
APSC000707403R3□S0	3.3	10 kHz,0.1 V	0.023	3.0(3.8)	30	3R3
APSC000707404R7□S0	4.7	10 kHz,0.1 V	0.025	2.7(3.4)	30	4R7
APSC000707405R0□S0	5	10 kHz,0.1 V	0.026	2.5(3.1)	30	5R0
APSC000707405R6□S0	5.6	10 kHz,0.1 V	0.027	2.3(3.0)	30	5R6
APSC000707406R2□S0	6.2	10 kHz,0.1 V	0.027	1.8(2.8)	30	6R2
APSC000707406R8□S0	6.8	10 kHz,0.1 V	0.032	1.7(2.7)	30	6R8
APSC000707407R4□S0	7.4	10 kHz,0.1 V	0.032	1.7(2.5)	30	7R4
APSC000707408R7□S0	8.7	10 kHz,0.1 V	0.034	1.7(2.4)	30	8R7
APSC00070740100□S0	10	10 kHz,0.1 V	0.041	1.6(2.2)	20,30	100
APSC00070740120□S0	12	10 kHz,0.1 V	0.053	1.5(1.9)	30	120
APSC00070740150□S0	15	10 kHz,0.1 V	0.057	1.4(1.8)	20,30	150
APSC00070740180□S0	18	10 kHz,0.1 V	0.092	1.25(1.6)	30	180
APSC00070740220□S0	22	10 kHz,0.1 V	0.096	1.1(1.5)	20,30	220
APSC00070740270□S0	27	10 kHz,0.1 V	0.109	0.9(1.2)	30	270
APSC00070740330□S0	33	10 kHz,0.1 V	0.124	0.85(1.1)	20,30	330
APSC00070740390□S0	39	10 kHz,0.1 V	0.138	0.8(1.1)	20,30	390
APSC00070740470□S0	47	10 kHz,0.1 V	0.150	0.7(1.0)	20,30	470
APSC00070740560□S0	56	10 kHz,0.1 V	0.202	0.65(0.9)	30	560
APSC00070740680□S0	68	10 kHz,0.1 V	0.234	0.6(0.8)	20,30	680
APSC00070740820□S0	82	10 kHz,0.1 V	0.324	0.55(0.7)	30	820
APSC00070740101□S0	100	10 kHz,0.1 V	0.358	0.5(0.65)	20,30	101
APSC00070740561□S0	560	10 kHz,0.1 V	1.8	0.2(0.25)	30	561

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 35% from its value without current
3. Measure Equipment:
   L: Agilent E4980 or HP4284A
   RDC: CH502BC
   Rate Current: HP4284+42841A or WK3260B+WK3265B

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Pulse a YAGEO company

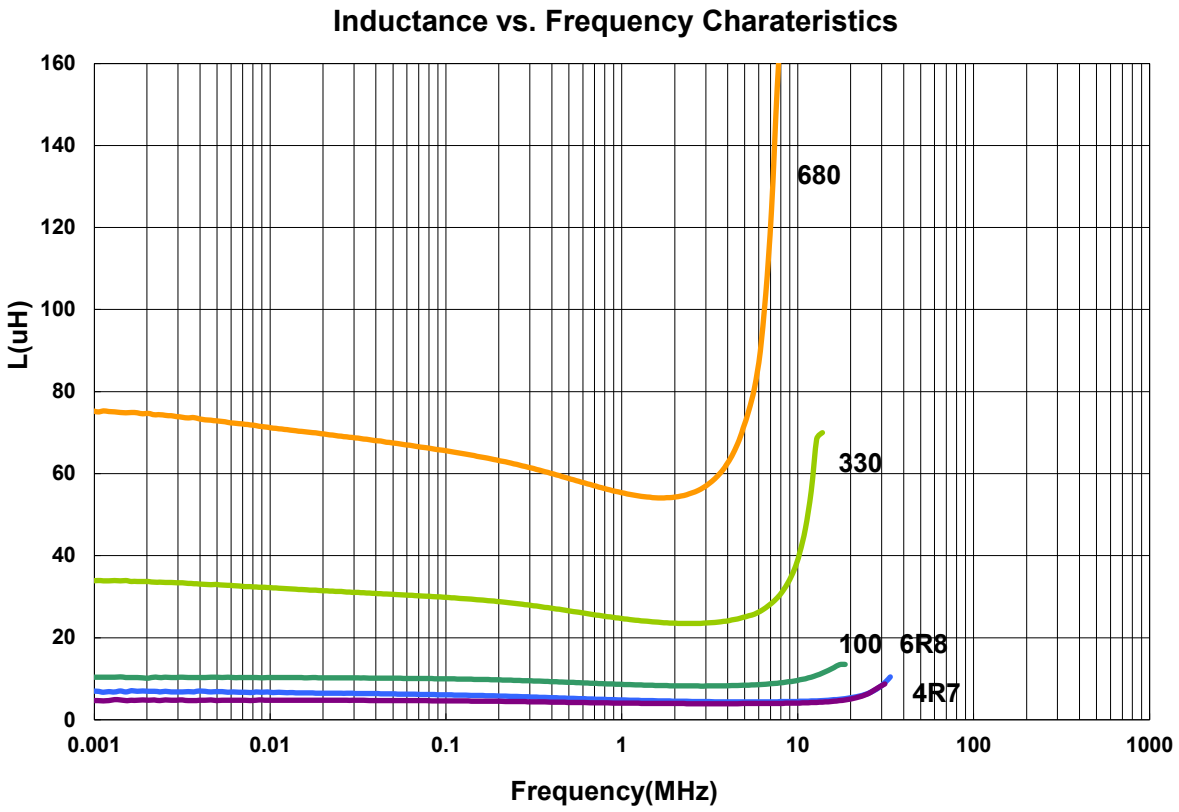
CHILISIN ELECTRONICS CORP.

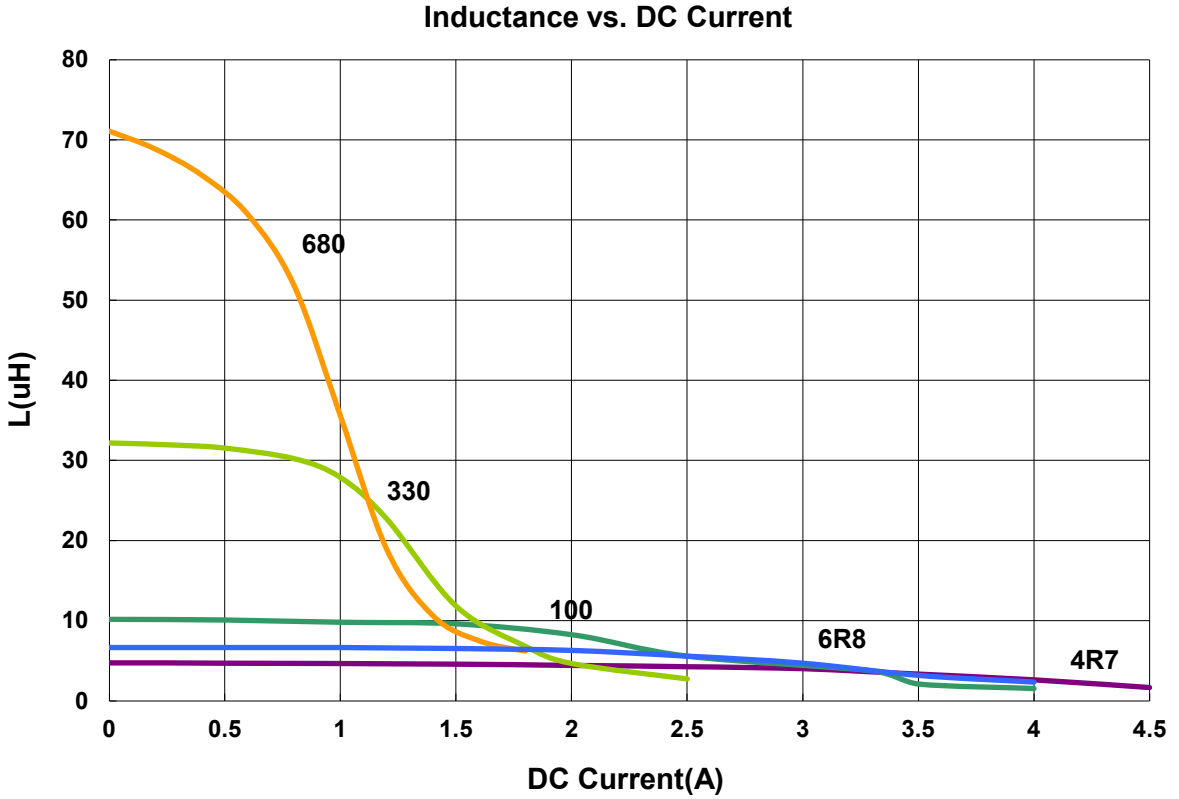
Power Inductor APSC Series

Automotive
AEC-Q200

APSC00070740 Type

■ Characteristics Graph





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Pulse a YAGEO company

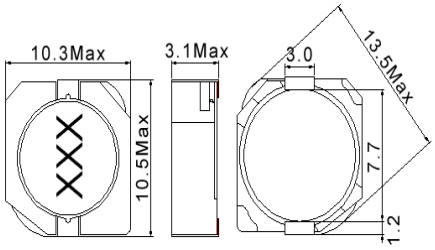
CHILISIN ELECTRONICS CORP.

Power Inductor APSC Series

Automotive
AEC-Q200

APSC00101131 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern

unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat (A)Max.	Irms (A)Typ.	Tolerance (±%)	Marking
APSC001011314R7□00	4.7	100 kHz,1 V	0.03	4.65	4.00	30	4R7
APSC001011316R8□00	6.8	100 kHz,1 V	0.035	3.84	3.60	30	6R8
APSC00101131100□00	10	100 kHz,1 V	0.059	3.18	2.80	20,30	100
APSC00101131150□00	15	100 kHz,1 V	0.091	2.6	2.05	20,30	150
APSC00101131330□00	33	100 kHz,1 V	0.202	1.74	1.35	20,30	330
APSC00101131470□00	47	100 kHz,1 V	0.299	1.43	1.20	20,30	470
APSC00101131560□00	56	100 kHz,1 V	0.325	0.9	1.15	20,30	560

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 35% from its value without current
3. Irms for a 40°C temperature rise from 25°C ambient.
4. Measure Equipment:
   L: Agilent E4980 or HP4284A
   RDC: CH502BC
   Isat: HP4284+42841A or WK3260B+WK3265B
   Irms: WK3255BQ+ WK3265B

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Pulse a YAGEO company

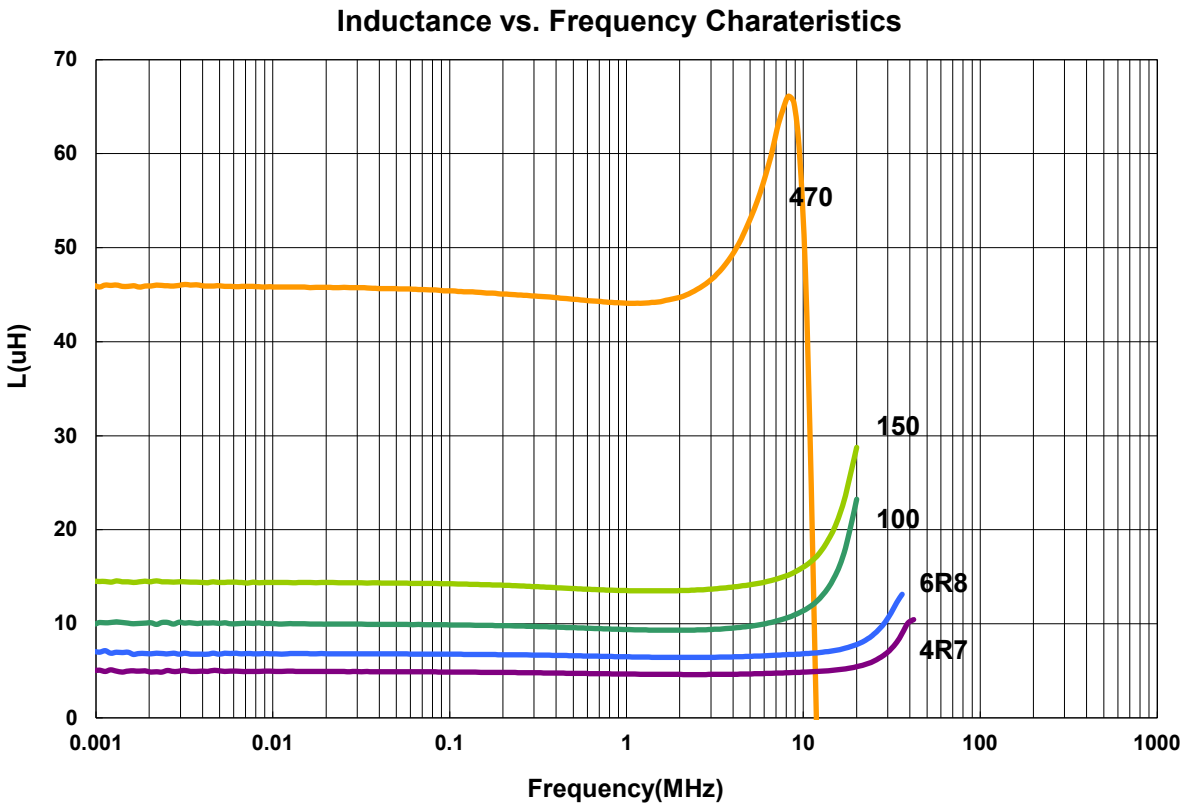
CHILISIN ELECTRONICS CORP.

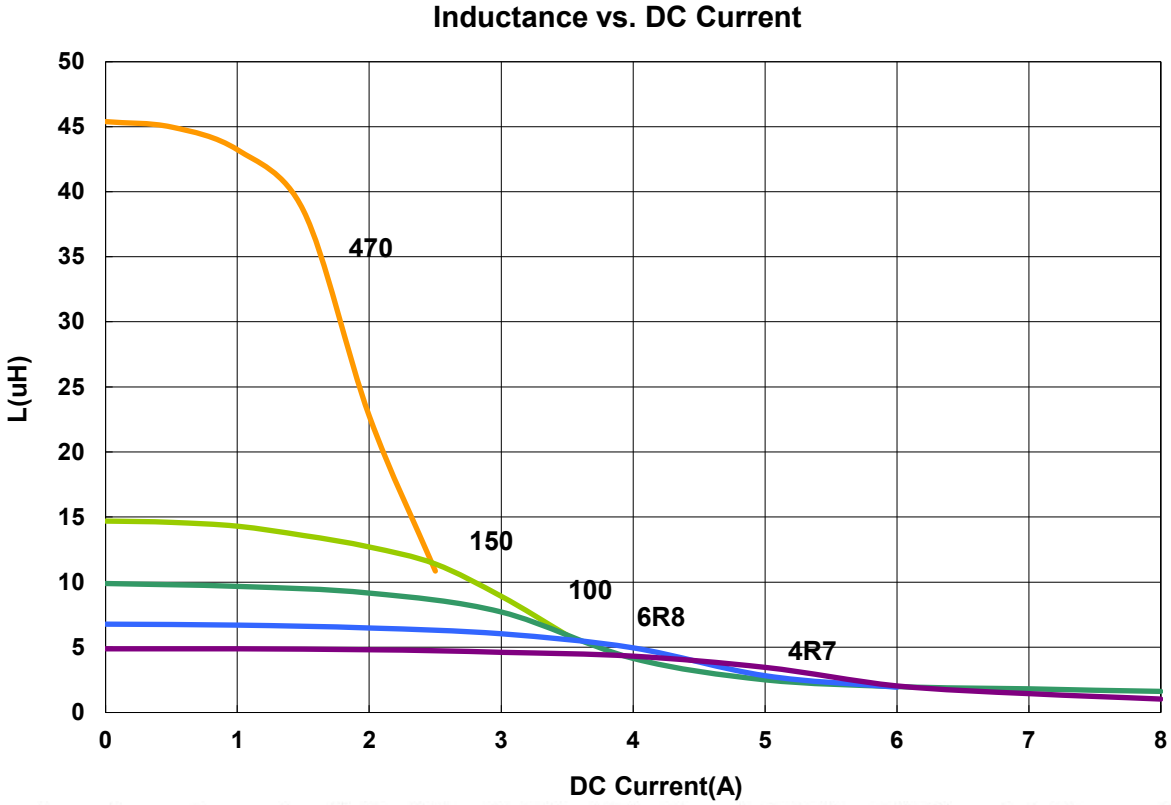
Power Inductor APSC Series

Automotive
AEC-Q200

APSC00101131 Type

■ Characteristics Graph





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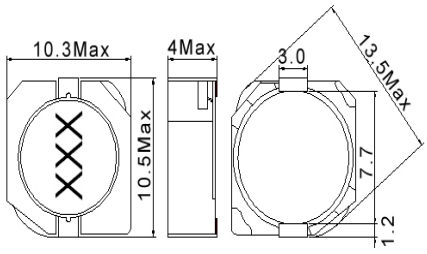
CHILISIN ELECTRONICS CORP.

Power Inductor APSC Series

Automotive
AEC-Q200

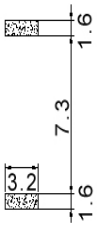
APSC00101140 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat(A) Max(Typ)	Irms (A)Typ.	Tolerance (±%)	Marking
APSC001011403R8□00	3.8	100 kHz,1 V	0.015	6.8(8.5)	5.50	30	3R8
APSC001011404R7□00	4.7	100 kHz,1 V	0.02	5.8(7.3)	5.40	30	4R7
APSC001011405R2□00	5.2	100 kHz,1 V	0.024	5.8(7.3)	5.20	30	5R2
APSC001011405R6□00	5.6	100 kHz,1 V	0.027	5.0(6.5)	4.50	30	5R6
APSC001011406R8□00	6.8	100 kHz,1 V	0.031	5.0(6.5)	4.40	30	6R8
APSC001011407R0□00	7	100 kHz,1 V	0.031	4.8(5.9)	4.40	30	7R0
APSC001011408R2□00	8.2	100 kHz,1 V	0.036	4.5(5.8)	3.80	30	8R2
APSC00101140100□00	10	100 kHz,1 V	0.04	4.0(5.0)	3.60	20,30	100
APSC00101140120□00	12	100 kHz,1 V	0.046	3.7(4.6)	3.40	20,30	120
APSC00101140150□00	15	100 kHz,1 V	0.055	3.4(4.3)	2.80	20,30	150
APSC00101140180□00	18	100 kHz,1 V	0.075	2.9(3.6)	2.50	20,30	180
APSC00101140220□00	22	100 kHz,1 V	0.08	2.6(3.3)	2.40	20,30	220
APSC00101140270□00	27	100 kHz,1 V	0.096	2.4(3.0)	2.20	20,30	270
APSC00101140330□00	33	100 kHz,1 V	0.098	2.3(2.9)	2.10	20,30	330
APSC00101140390□00	39	100 kHz,1 V	0.12	2.1(2.7)	2.00	20,30	390
APSC00101140470□00	47	100 kHz,1 V	0.144	1.8(2.5)	1.80	20,30	470
APSC00101140560□00	56	100 kHz,1 V	0.175	1.6(2.1)	1.60	20,30	560
APSC00101140680□00	68	100 kHz,1 V	0.204	1.4(1.9)	1.45	20,30	680
APSC00101140820□00	82	100 kHz,1 V	0.25	1.3(1.7)	1.40	20,30	820
APSC00101140101□00	100	100 kHz,1 V	0.304	1.0(1.6)	1.25	20,30	101
APSC00101140151□00	150	100 kHz,1 V	0.506	0.96(1.3)	0.85	20,30	151
APSC00101140221□00	220	100 kHz,1 V	0.69	0.8(1.0)	0.73	20,30	221
APSC00101140331□00	330	100 kHz,1 V	1	0.68(0.86)	0.52	20,30	331
APSC00101140471□00	470	100 kHz,1 V	1.6	6.0(0.75)	0.46	20,30	471
APSC00101140561□00	560	100 kHz,1 V	1.68	0.5(0.68)	0.45	20,30	561

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 35% from its value without current
3. Irms for a 40°C temperature rise from 25°C ambient.
4. Measure Equipment:
   L: Agilent E4980 or HP4284A
   RDC: CH502BC
   Isat: HP4284+42841A or WK3260B+WK3265B
   Irms: WK3255BQ+ WK3265B

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Pulse a YAGEO company

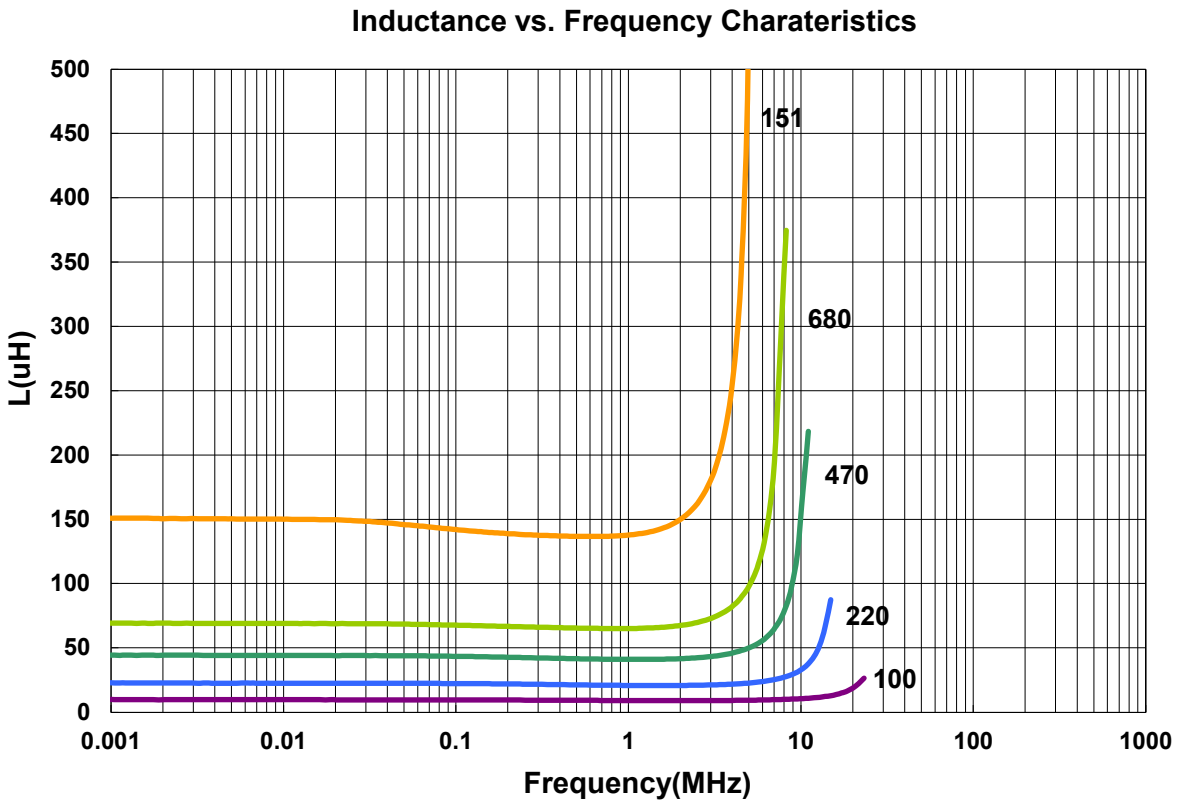
CHILISIN ELECTRONICS CORP.

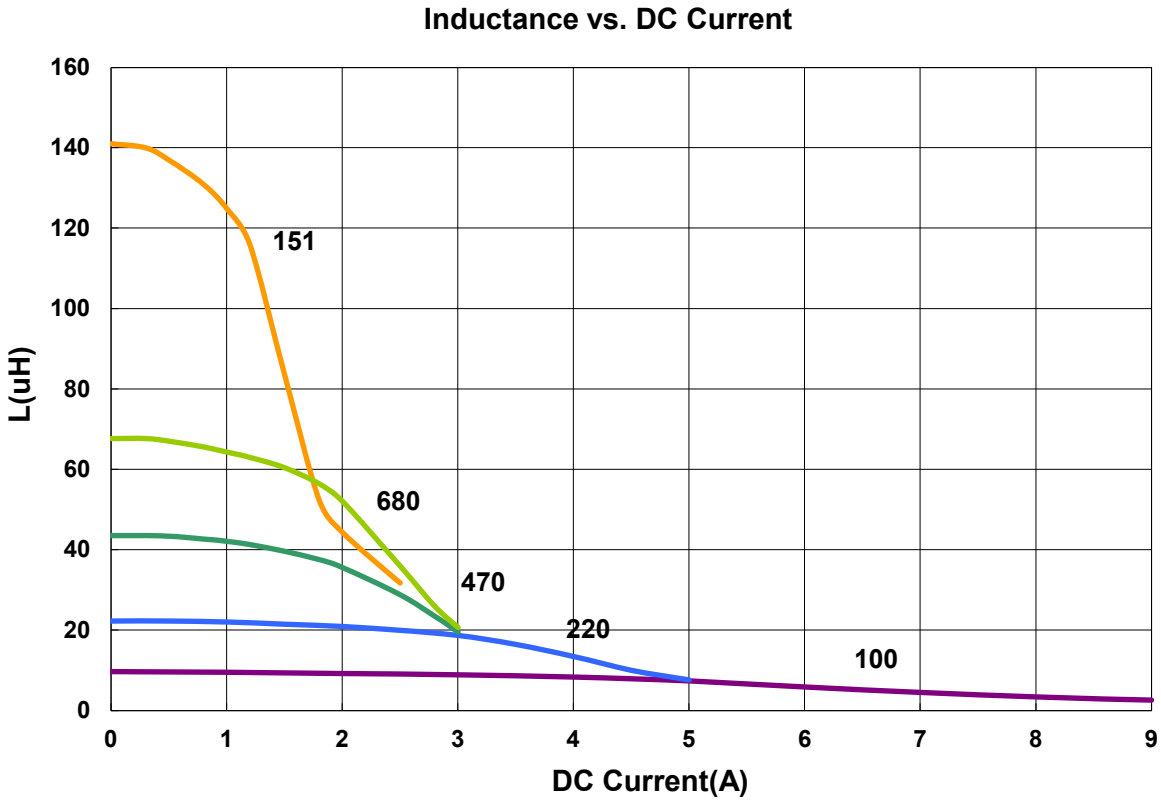
Power Inductor APSC Series

Automotive
AEC-Q200

APSC00101140 Type

■ Characteristics Graph





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Pulse a YAGEO company

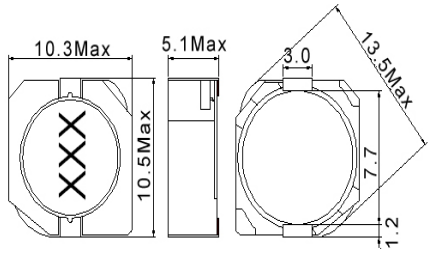
CHILISIN ELECTRONICS CORP.

Power Inductor APSC Series

Automotive
AEC-Q200

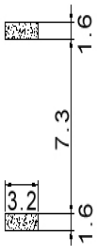
APSC00101151 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat(A) Max(Typ)	Irms (A)Typ	Tolerance (±%)	Marking
APSC001011514R7□00	4.7	100 kHz,1 V	0.014	5.6(7.6)	5.00	30	4R7
APSC001011516R8□00	6.8	100 kHz,1 V	0.024	5.1(6.4)	4.70	30	6R8
APSC001011518R2□00	8.2	100 kHz,1 V	0.027	4.7(5.9)	4.40	30	8R2
APSC00101151100□00	10	100 kHz,1 V	0.028	4.4(5.6)	4.20	20,30	100
APSC00101151120□00	12	100 kHz,1 V	0.036	3.4(5.8)	3.60	20,30	120
APSC00101151150□00	15	100 kHz,1 V	0.041	3.2(4.5)	3.40	20,30	150
APSC00101151180□00	18	100 kHz,1 V	0.046	3.0(3.8)	3.10	20,30	180
APSC00101151220□00	22	100 kHz,1 V	0.061	2.8(3.6)	2.90	20,30	220
APSC00101151270□00	27	100 kHz,1 V	0.069	2.1(3.2)	2.60	20,30	270
APSC00101151330□00	33	100 kHz,1 V	0.084	2.0(2.9)	2.50	20,30	330
APSC00101151390□00	39	100 kHz,1 V	0.106	1.9(2.6)	2.25	20,30	390
APSC00101151470□00	47	100 kHz,1 V	0.13	1.7(2.3)	2.00	20,30	470
APSC00101151560□00	56	100 kHz,1 V	0.149	1.6(2.2)	1.90	20,30	560
APSC00101151680□00	68	100 kHz,1 V	0.201	1.5(2.0)	1.60	20,30	680
APSC00101151820□00	82	100 kHz,1 V	0.227	1.3(1.8)	1.45	20,30	820
APSC00101151101□00	100	100 kHz,1 V	0.253	1.2(1.7)	1.35	20,30	101
APSC00101151121□00	120	100 kHz,1 V	0.303	1.1(1.5)	1.18	20,30	121
APSC00101151151□00	150	100 kHz,1 V	0.42	1.0(1.3)	1.00	20,30	151
APSC00101151181□00	180	100 kHz,1 V	0.45	0.9(1.2)	0.90	20,30	181
APSC00101151221□00	220	100 kHz,1 V	0.54	0.8(1.1)	0.85	20,30	221
APSC00101151271□00	270	100 kHz,1 V	0.672	0.75(0.99)	0.80	20,30	271
APSC00101151331□00	330	100 kHz,1 V	0.812	0.74(0.92)	0.73	20,30	331
APSC00101151391□00	390	100 kHz,1 V	0.953	0.82(0.83)	0.70	20,30	391
APSC00101151471□00	470	100 kHz,1 V	1.29	0.6(0.77)	0.54	20,30	471
APSC00101151561□00	560	100 kHz,1 V	1.43	0.47(0.71)	0.52	20,30	561
APSC00101151681□00	680	100 kHz,1 V	1.6	0.46(0.65)	0.51	20,30	681
APSC00101151821□00	820	100 kHz,1 V	1.77	0.42(0.57)	0.48	20,30	821
APSC00101151102□00	1000	100 kHz,1 V	2.2	0.4(0.54)	0.40	20,30	102

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 35% from its value without current
3. Irms for a 40°C temperature rise from 25°C ambient.
4. Measure Equipment:
   L: Agilent E4980 or HP4284A
   RDC: CH502BC
   Isat: HP4284+42841A or WK3260B+WK3265B
   Irms: WK3255BQ+ WK3265B

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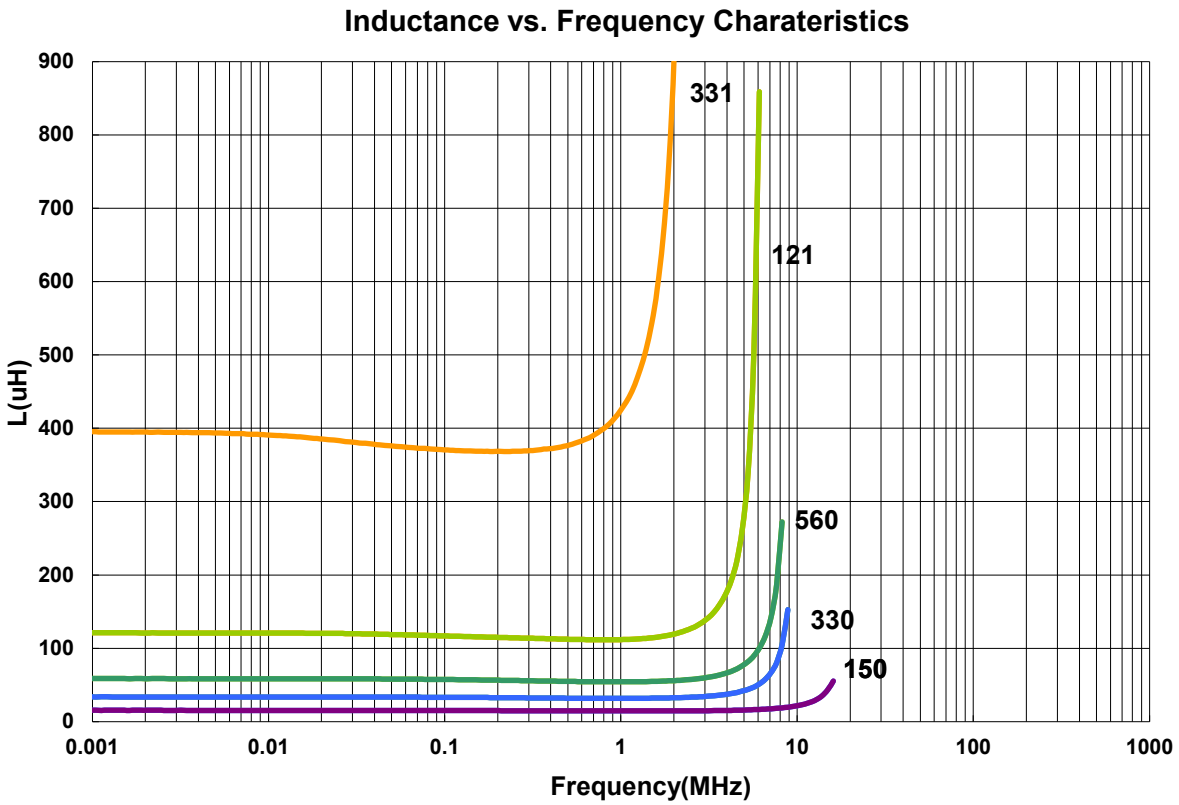
CHILISIN ELECTRONICS CORP.

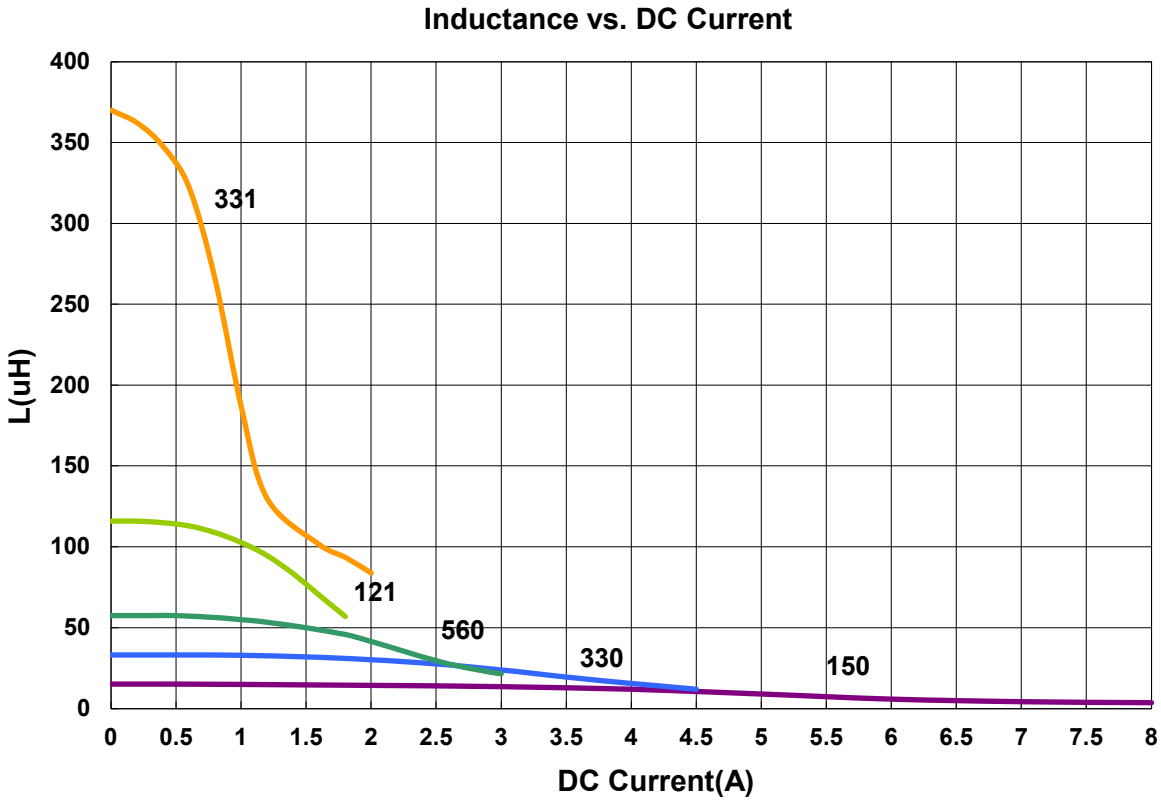
Power Inductor APSC Series

Automotive
AEC-Q200

APSC00101151 Type

■ Characteristics Graph





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Pulse a YAGEO company

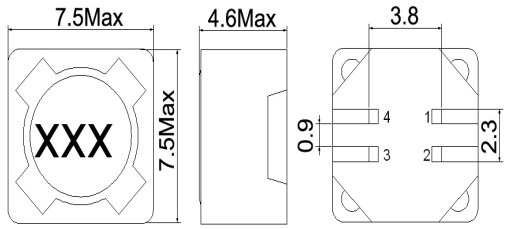
CHILISIN ELECTRONICS CORP.

Power Inductor APSC Series

Automotive AEC-Q200

APSC00080846 Type

■ Dimensions



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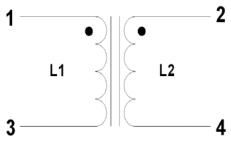
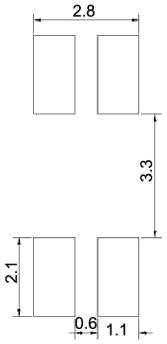


■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±20%	Isat(A) Max(Typ)	Irms (A)Max	Tolerance (±%)	Marking
APSC000808462R5□P0	2.5	100 kHz,0.1 V	0.033	5.0(6.3)	2.17	20	2R5
APSC000808464R7□P0	4.7	100 kHz,0.1 V	0.047	3.5(4.6)	1.74	20	4R7
APSC00080846100□P0	10	100 kHz,0.1 V	0.089	2.0(3.0)	1.24	20	100
APSC00080846221□P0	220	100 kHz,0.1 V	1.65	0.5(0.66)	0.30	20	221
APSC00080846821□P0	820	100 kHz,0.1 V	6	0.25(0.35)	0.15	20	821

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. The actual use current is suggested not to be out of Isat*80%
4. Irms for a 40℃ temprature rise from 25℃ ambient.
5. L,RDC,Isat,Irms: L1 or L2
6. Measure Equipment:
   L: Agilent E4980 or HP4284A
   RDC: CH502BC
   Isat: HP4284+42841A or WK3260B+WK3265B

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Pulse a YAGEO company

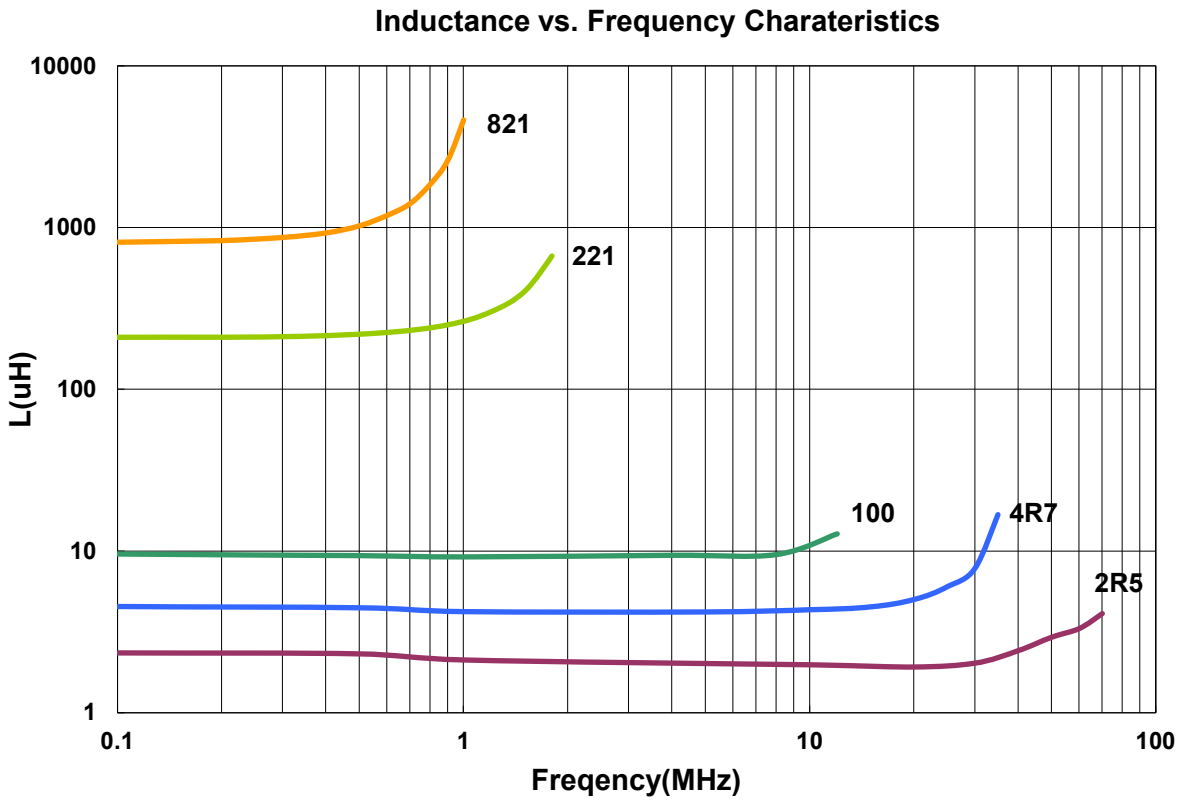
CHILISIN ELECTRONICS CORP.

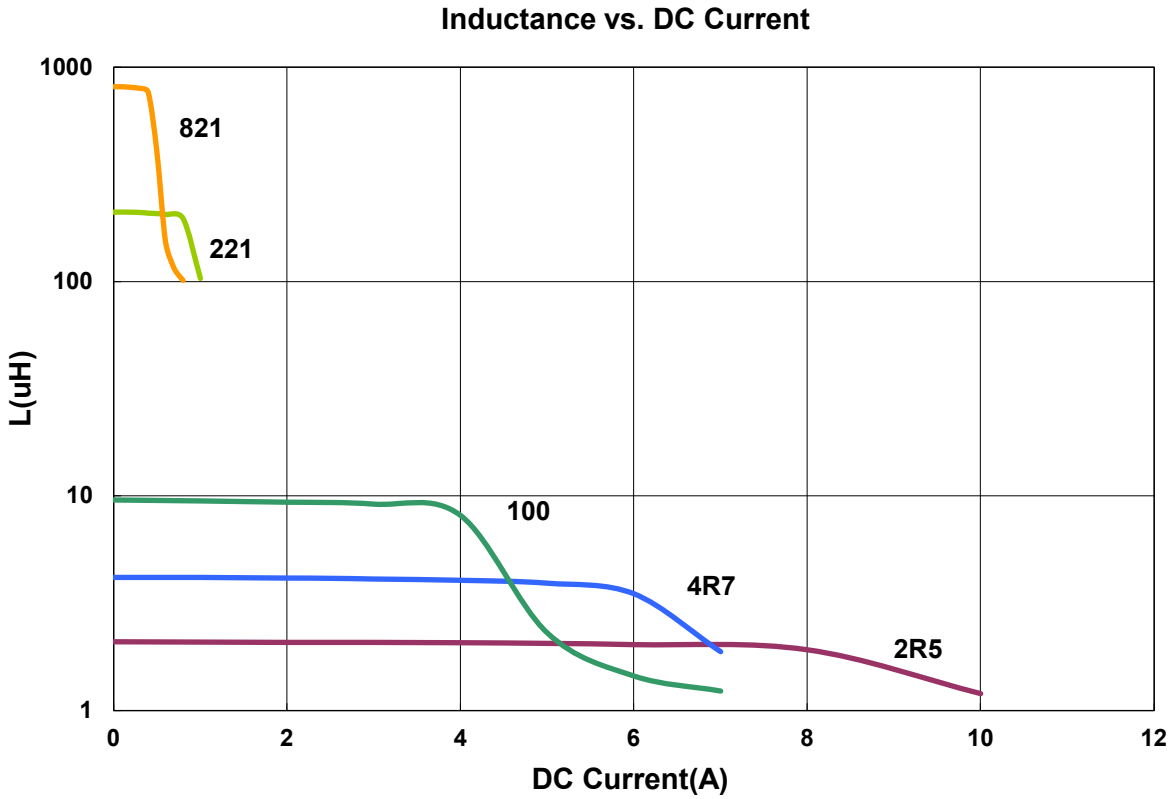
Power Inductor APSC Series

Automotive
AEC-Q200

APSC00080846 Type

■ Characteristics Graph





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Pulse a YAGEO company

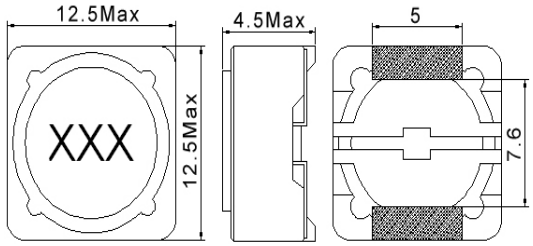
CHILISIN ELECTRONICS CORP.

Power Inductor APSC Series

Automotive
AEC-Q200

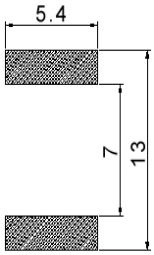
APSC00131345 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat(A) Max(Typ)	Tolerance (±%)	Marking
APSC001313453R9□00	3.9	100 kHz,1 V	0.016	8.0(10.1)	30	3R9
APSC001313454R7□00	4.7	100 kHz,1 V	0.018	7.9(9.9)	30	4R7
APSC001313456R8□00	6.8	100 kHz,1 V	0.023	6.5(8.3)	30	6R8
APSC00131345100□00	10	100 kHz,1 V	0.035	5.2(6.6)	20,30	100
APSC00131345120□00	12	100 kHz,1 V	0.038	4.8(6.2)	20,30	120
APSC00131345150□00	15	100 kHz,1 V	0.05	4.1(5.4)	20,30	150
APSC00131345180□00	18	100 kHz,1 V	0.057	4.0(5.1)	20,30	180
APSC00131345220□00	22	100 kHz,1 V	0.066	3.5(4.4)	20,30	220
APSC00131345270□00	27	100 kHz,1 V	0.08	3.1(3.9)	20,30	270
APSC00131345330□00	33	100 kHz,1 V	0.097	2.7(3.5)	20,30	330
APSC00131345390□00	39	100 kHz,1 V	0.132	2.1(3.2)	20,30	390
APSC00131345470□00	47	100 kHz,1 V	0.15	1.9(2.9)	20,30	470
APSC00131345560□00	56	100 kHz,1 V	0.19	1.8(2.6)	20,30	560
APSC00131345680□00	68	100 kHz,1 V	0.22	1.5(2.5)	20,30	680
APSC00131345820□00	82	100 kHz,1 V	0.26	1.3(2.3)	20,30	820
APSC00131345101□00	100	100 kHz,1 V	0.308	1.2(2.0)	20,30	101
APSC00131345121□00	120	100 kHz,1 V	0.38	1.1(1.8)	20,30	121
APSC00131345151□00	150	100 kHz,1 V	0.53	0.95(1.6)	20,30	151
APSC00131345181□00	180	100 kHz,1 V	0.62	0.85(1.4)	20,30	181
APSC00131345221□00	220	100 kHz,1 V	0.7	0.8(1.3)	20,30	221
APSC00131345271□00	270	100 kHz,1 V	0.876	0.6(1.1)	20,30	271
APSC00131345331□00	330	100 kHz,1 V	0.99	0.5(1.0)	20,30	331

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 35% from its value without current
3. Measure Equipment:
   L: Agilent E4980 or HP4284A
   RDC: CH502BC
   Isat: HP4284+42841A or WK3260B+WK3265B

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Pulse a YAGEO company

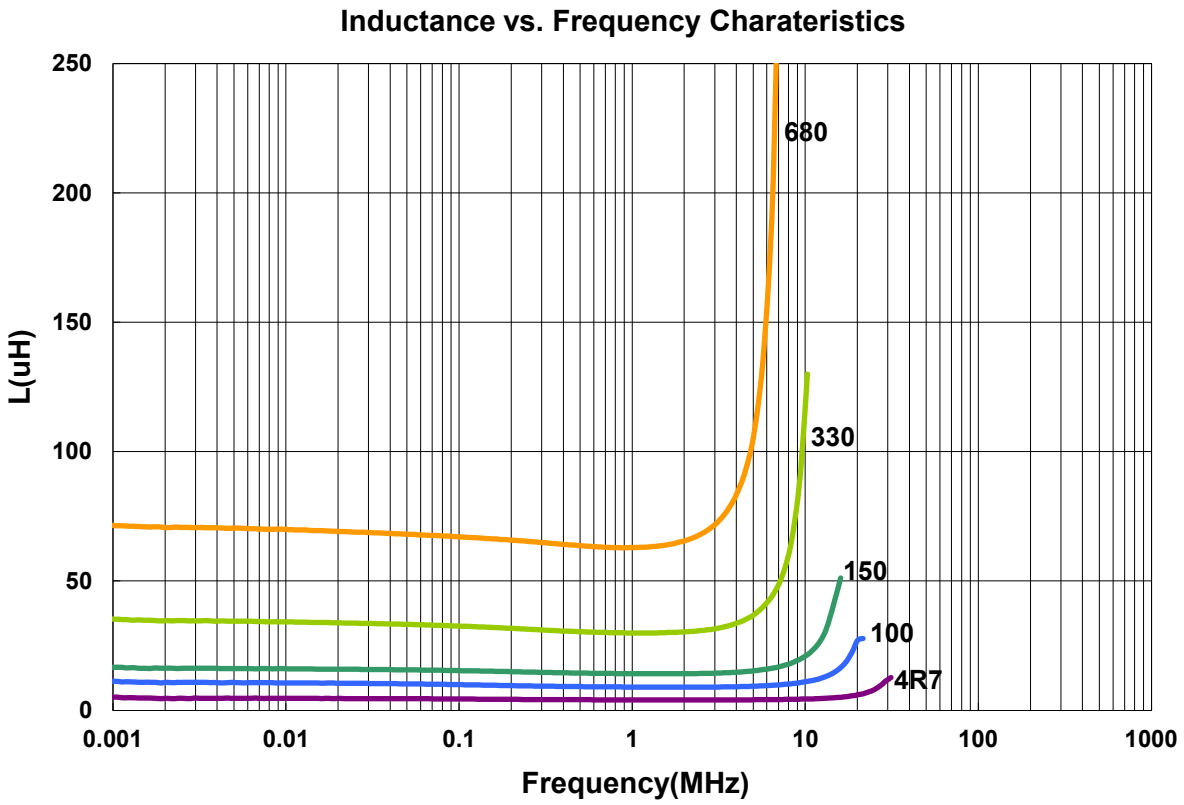
CHILISIN ELECTRONICS CORP.

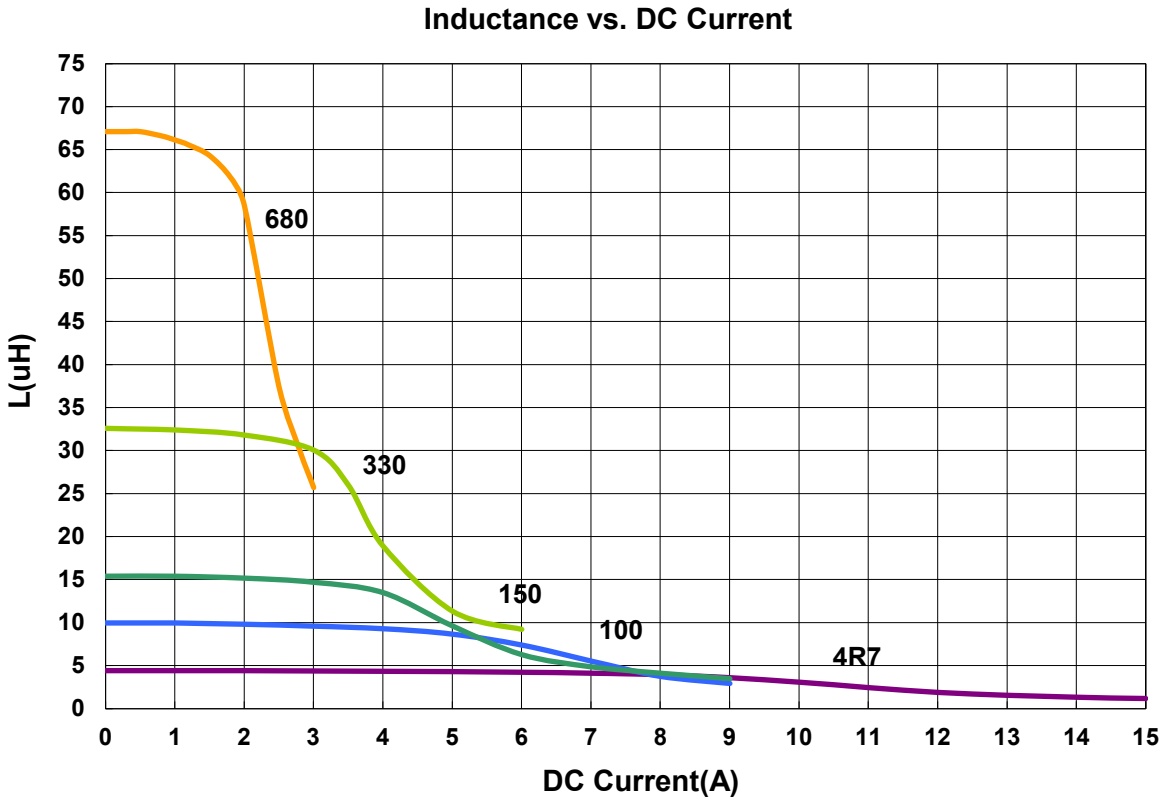
Power Inductor APSC Series

Automotive
AEC-Q200

APSC00131345 Type

■ Characteristics Graph





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Pulse a YAGEO company

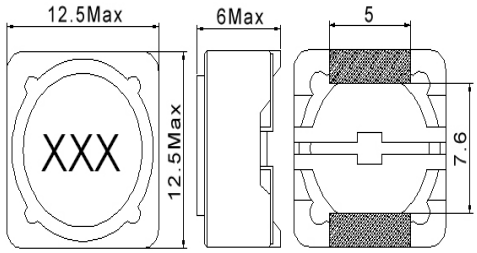
CHILISIN ELECTRONICS CORP.

Power Inductor APSC Series

Automotive
AEC-Q200

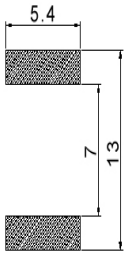
APSC00131360 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat(A) Max(Typ)	Irms (A)Typ	Tolerance (±%)	Marking
APSC001313604R7□00	4.7	1 kHz,1 V	0.018	7.6(9.2)	5.70	30	4R7
APSC001313606R4□00	6.4	1 kHz,1 V	0.018	6.4(8.1)	5.70	30	6R4
APSC001313608R2□00	8.2	1 kHz,1 V	0.02	5.8(7.4)	5.00	30	8R2
APSC00131360100□00	10	1 kHz,1 V	0.025	5.3(6.8)	4.00	20,30	100
APSC00131360120□00	12	1 kHz,1 V	0.027	5.3(6.8)	3.50	20,30	120
APSC00131360150□00	15	1 kHz,1 V	0.03	4.0(5.2)	3.30	20,30	150
APSC00131360180□00	18	1 kHz,1 V	0.034	3.8(4.9)	3.00	20,30	180
APSC00131360220□00	22	1 kHz,1 V	0.036	3.6(4.8)	2.80	20,30	220
APSC00131360270□00	27	1 kHz,1 V	0.051	3.2(4.1)	2.30	20,30	270
APSC00131360330□00	33	1 kHz,1 V	0.057	2.9(3.7)	2.10	20,30	330
APSC00131360390□00	39	1 kHz,1 V	0.068	2.7(3.5)	2.00	20,30	390
APSC00131360470□00	47	1 kHz,1 V	0.084	2.4(3.1)	1.90	20,30	470
APSC00131360560□00	56	1 kHz,1 V	0.1	2.1(2.7)	1.70	20,30	560
APSC00131360680□00	68	1 kHz,1 V	0.12	2.0(2.6)	1.50	20,30	680
APSC00131360820□00	82	1 kHz,1 V	0.14	1.8(2.3)	1.40	20,30	820
APSC00131360101□00	100	1 kHz,1 V	0.16	1.6(2.1)	1.30	20,30	101
APSC00131360121□00	120	1 kHz,1 V	0.18	1.5(1.9)	1.05	20,30	121
APSC00131360151□00	150	1 kHz,1 V	0.23	1.3(1.7)	1.00	20,30	151
APSC00131360181□00	180	1 kHz,1 V	0.29	1.2(1.6)	0.90	20,30	181
APSC00131360221□00	220	1 kHz,1 V	0.32	1.0(1.4)	0.85	20,30	221
APSC00131360271□00	270	1 kHz,1 V	0.38	0.9(1.2)	0.83	20,30	271
APSC00131360331□00	330	1 kHz,1 V	0.48	0.75(1.1)	0.73	20,30	331
APSC00131360391□00	390	1 kHz,1 V	0.6	0.7(1.0)	0.67	20,30	391
APSC00131360471□00	470	1 kHz,1 V	0.7	0.65(0.99)	0.66	20,30	471
APSC00131360561□00	560	1 kHz,1 V	0.86	0.6(0.91)	0.54	20,30	561
APSC00131360681□00	680	1 kHz,1 V	1.1	0.55(0.82)	0.52	20,30	681
APSC00131360821□00	820	1 kHz,1 V	1.34	0.5(0.71)	0.43	20,30	821
APSC00131360102□00	1000	1 kHz,1 V	1.53	0.45(0.64)	0.30	20,30	102

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 35% from its value without current
3. Irms for a 40°C temperature rise from 25°C ambient.
4. Measure Equipment:
   L: Agilent E4980 or HP4284A
   RDC: CH502BC
   Isat: HP4284+42841A or WK3260B+WK3265B
   Irms: WK3255BQ+ WK3265B

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Pulse a YAGEO company

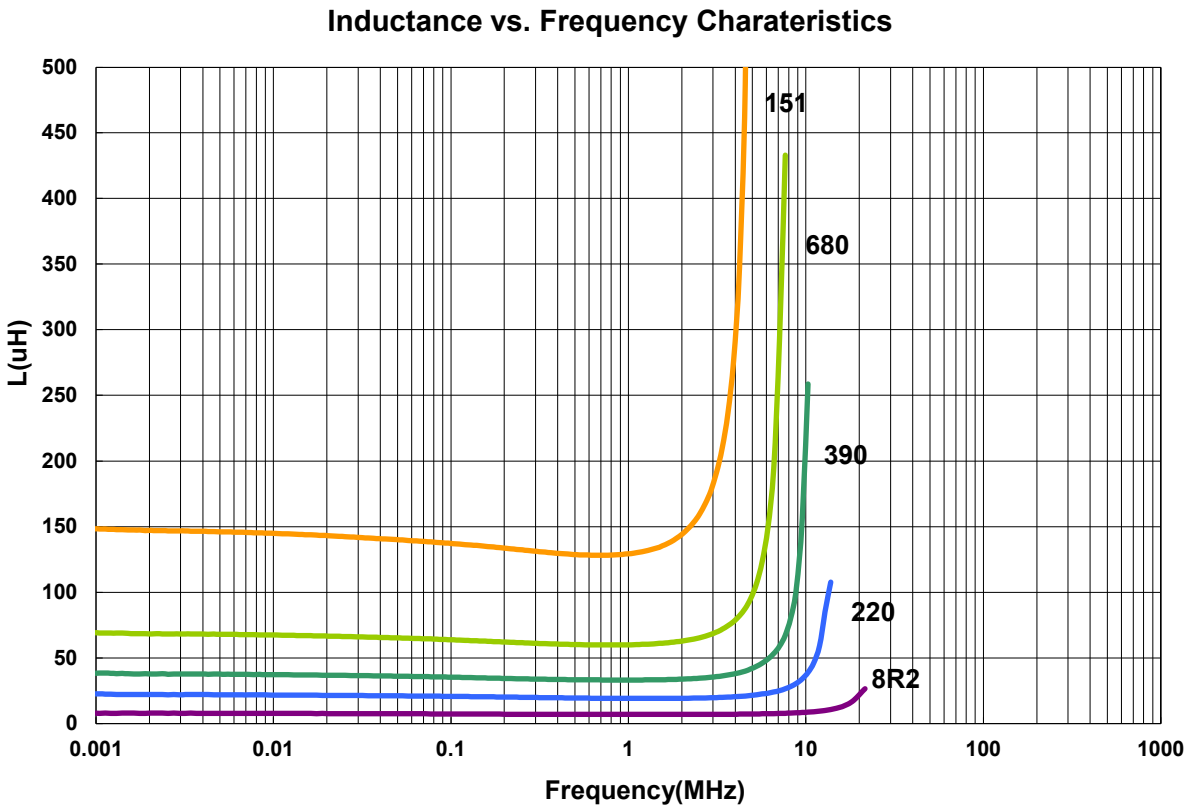
CHILISIN ELECTRONICS CORP.

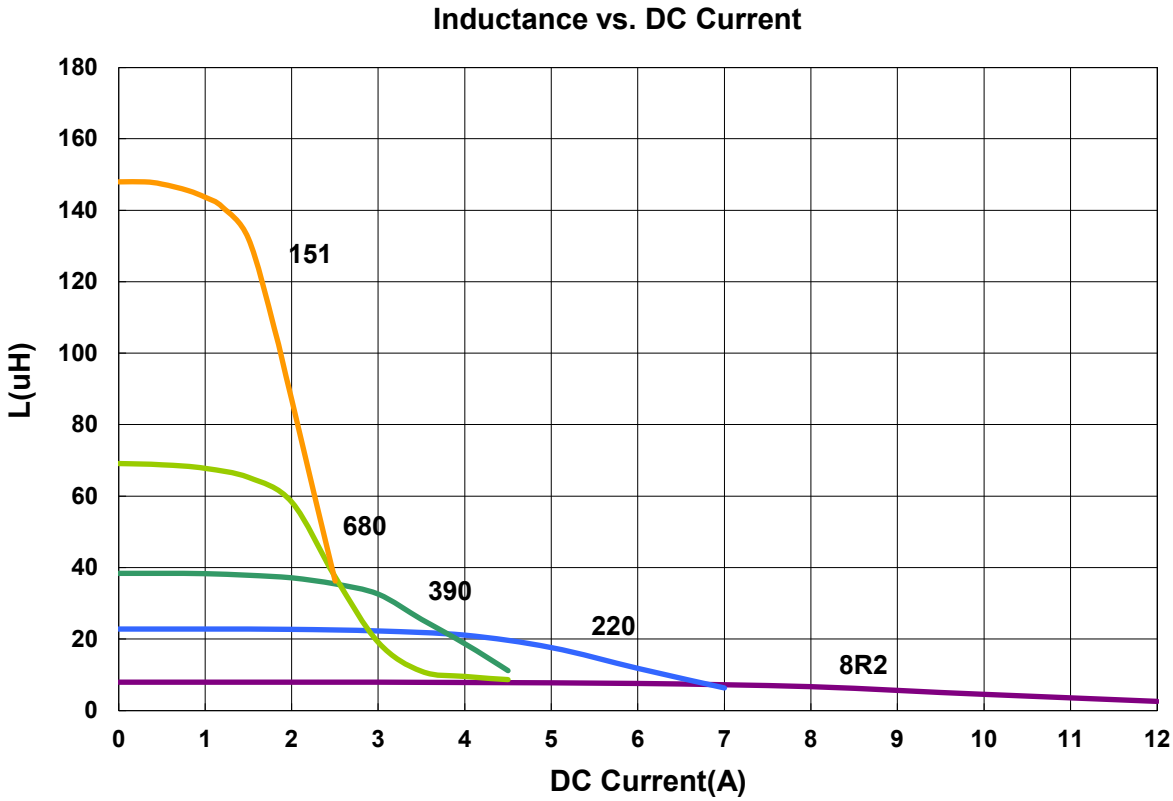
Power Inductor APSC Series

Automotive
AEC-Q200

APSC00131360 Type

■ Characteristics Graph





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Pulse a YAGEO company

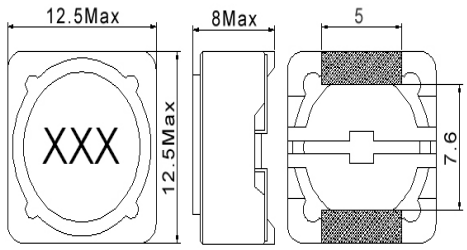
CHILISIN ELECTRONICS CORP.

Power Inductor APSC Series

Automotive
AEC-Q200

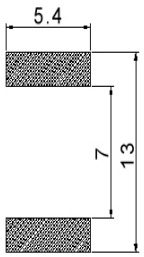
APSC00131380 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat(A) Max(Typ)	Irms (A)Typ	Tolerance (±%)	Marking
APSC001313803R5□00	3.5	100 kHz,1 V	0.0123	13.8(17.4)	7.70	$30,^{+40}_{-20}$	3R5
APSC001313804R7□00	4.7	100 kHz,1 V	0.0158	12.3(15.4)	6.80	30	4R7
APSC001313806R1□00	6.1	100 kHz,1 V	0.0176	10.9(13.8)	6.60	$30,^{+40}_{-20}$	6R1
APSC001313806R8□00	6.8	100 kHz,1 V	0.018	10.8(13.7)	6.50	30	6R8
APSC001313807R6□00	7.6	100 kHz,1 V	0.02	10(12.6)	5.90	30	7R6
APSC00131380100□00	10	1 kHz,1 V	0.022	8.9(11.2)	5.40	20,30	100
APSC00131380120□00	12	1 kHz,1 V	0.03	7.4(9.4)	4.30	20,30	120
APSC00131380150□00	15	1 kHz,1 V	0.034	7.1(9.0)	4.10	20,30	150
APSC00131380180□00	18	1 kHz,1 V	0.0392	6.5(8.2)	3.90	20,30	180
APSC00131380220□00	22	1 kHz,1 V	0.048	5.8(7.5)	3.20	20,30	220
APSC00131380270□00	27	1 kHz,1 V	0.052	5.3(6.7)	3.10	20,30	270
APSC00131380330□00	33	1 kHz,1 V	0.0648	4.8(6.1)	3.00	20,30	330
APSC00131380390□00	39	1 kHz,1 V	0.065	3.9(5.6)	3.00	20,30	390
APSC00131380470□00	47	1 kHz,1 V	0.1	3.6(5.2)	2.50	20,30	470
APSC00131380560□00	56	1 kHz,1 V	0.11	3.4(4.8)	2.35	20,30	560
APSC00131380680□00	68	1 kHz,1 V	0.12	2.8(4.1)	2.30	20,30	680
APSC00131380820□00	82	1 kHz,1 V	0.16	2.7(4.0)	1.95	20,30	820
APSC00131380101□00	100	1 kHz,1 V	0.17	2.5(3.5)	1.90	20,30	101
APSC00131380121□00	120	1 kHz,1 V	0.19	2.2(3.2)	1.80	20,30	121
APSC00131380151□00	150	1 kHz,1 V	0.25	2.0(2.9)	1.60	20,30	151
APSC00131380181□00	180	1 kHz,1 V	0.31	1.8(2.6)	1.37	20,30	181
APSC00131380221□00	220	1 kHz,1 V	0.35	1.7(2.4)	1.30	20,30	221
APSC00131380271□00	270	1 kHz,1 V	0.43	1.5(2.2)	1.10	20,30	271
APSC00131380331□00	330	1 kHz,1 V	0.51	1.2(2.0)	1.08	20,30	331
APSC00131380391□00	390	1 kHz,1 V	0.6	1.1(1.6)	0.95	20,30	391
APSC00131380471□00	470	1 kHz,1 V	0.71	0.99(1.6)	0.88	20,30	471
APSC00131380561□00	560	1 kHz,1 V	0.88	0.95(1.4)	0.85	20,30	561
APSC00131380681□00	680	1 kHz,1 V	1.04	0.84(1.2)	0.75	20,30	681
APSC00131380821□00	820	1 kHz,1 V	1.36	0.77(1.1)	0.70	20,30	821
APSC00131380102□00	1000	1 kHz,1 V	1.66	0.73(1.0)	0.59	20,30	102

Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30% / N=$^{+40}_{-20}$%

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 35% from its value without current
3. Irms for a 40°C temperature rise from 25°C ambient.
4. Measure Equipment:
   L: Agilent E4980 or HP4284A
   RDC: CH502BC
   Isat: HP4284+42841A or WK3260B+WK3265B
   Irms: WK3255BQ+ WK3265B

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Pulse a YAGEO company

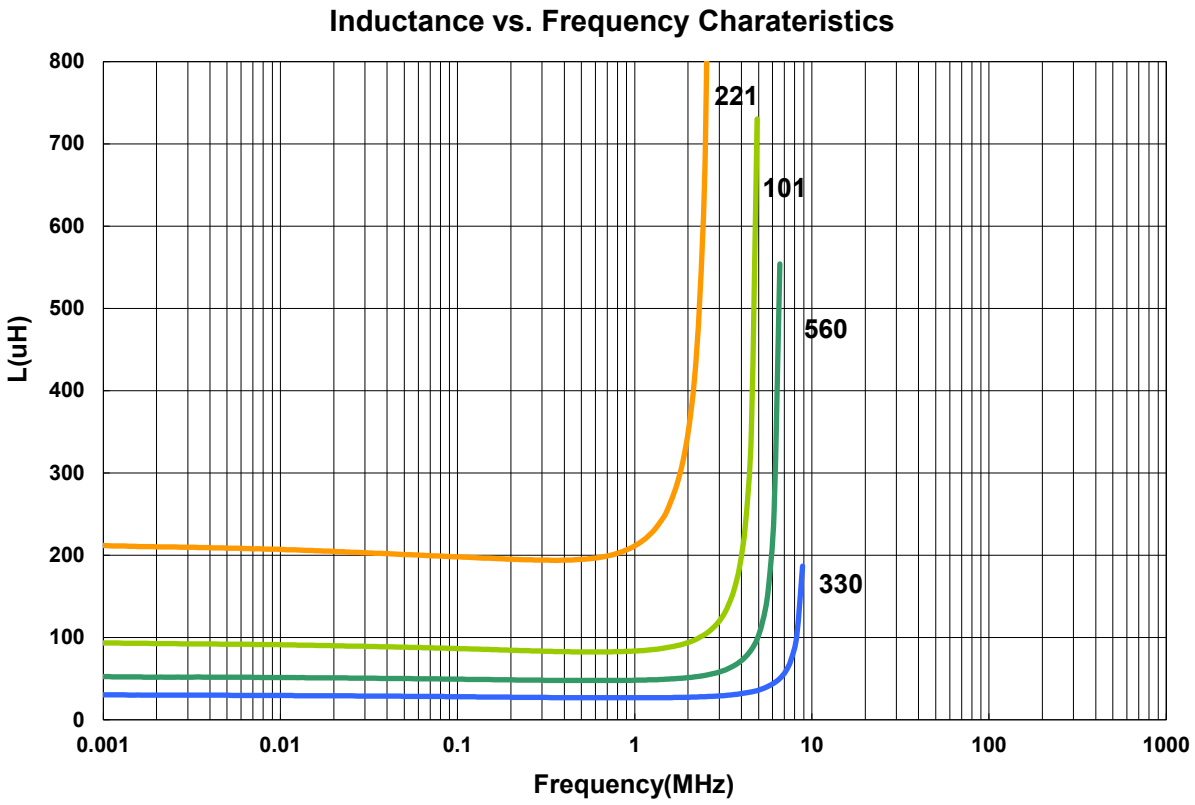
CHILISIN ELECTRONICS CORP.

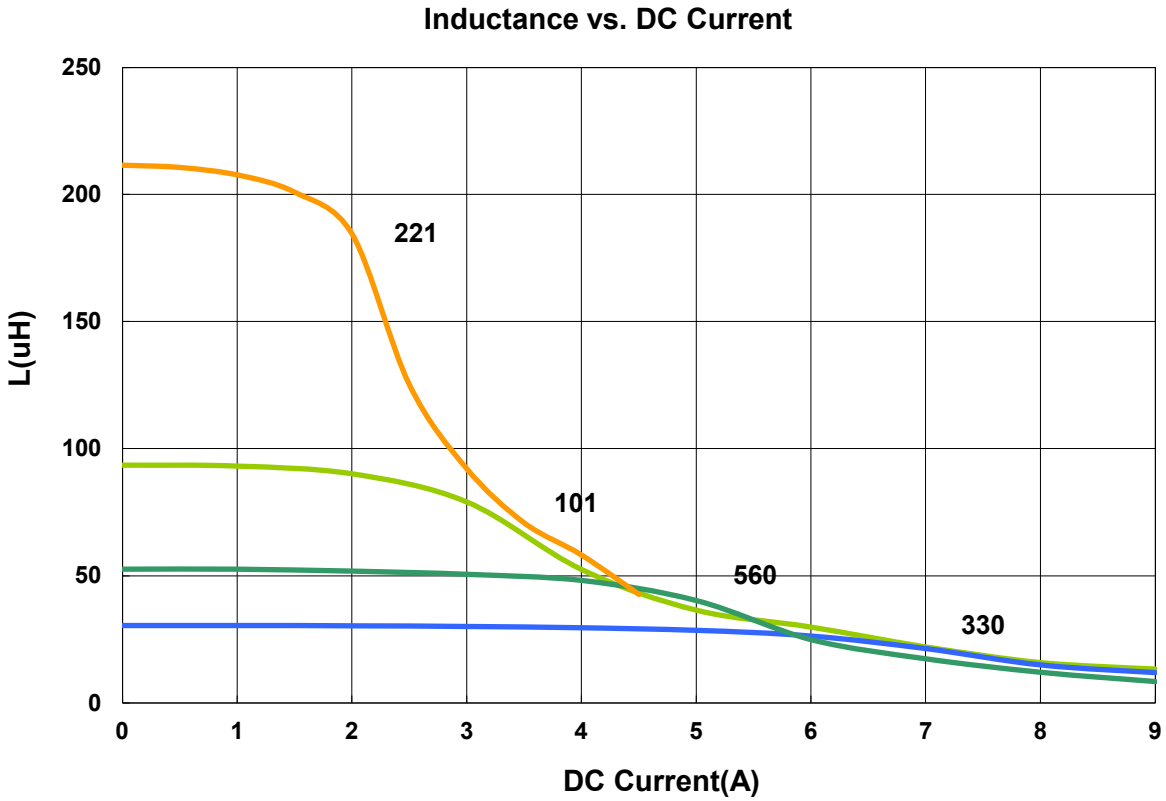
Power Inductor APSC Series

Automotive
AEC-Q200

APSC00131380 Type

■ Characteristics Graph





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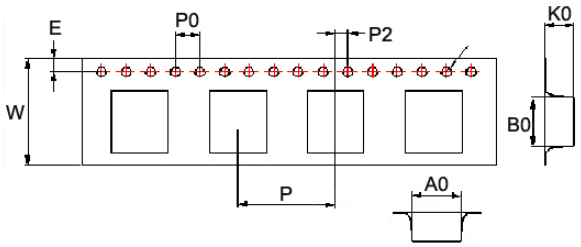
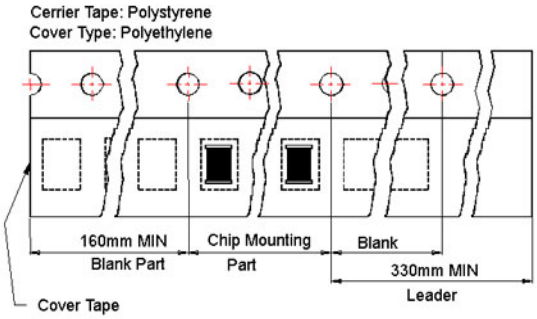
Power Inductor APSC Series

Automotive
AEC-Q200

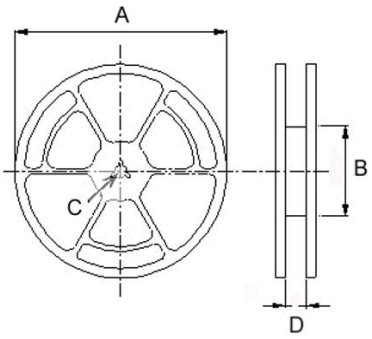
■ Packaging

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
APSC00030316	3.35	3.35	1.7	1.55	1.75	12	8	4	2	178	60	13	13.2	1000
APSC00040418	4.1	4.1	2.0	1.50	1.75	12	8	4	2	178	60	13	13.2	1000
APSC00040430	4.2	4.2	3.2	1.55	1.75	12	8	4	2	178	60	13	13.2	500
APSC00050220	5.3	5.3	2.4	1.50	1.75	12	8	4	2	330	100	13	13.4	2000
APSC00050530	5.3	5.3	3.4	1.50	1.75	12	8	4	2	330	100	13	13.4	2000
APSC00050540	5.35	5.35	4.1	1.55	1.75	12	8	4	2	330	100	13	13.4	1000
APSC00060620	6.2	6.2	2.2	1.55	1.75	16	12	4	2	330	100	13	13.4	1500
APSC00060630	6.2	6.2	3.1	1.55	1.75	16	12	4	2	330	100	13	17.4	1500
APSC00070730	7.25	7.25	3.35	1.55	1.75	16	12	4	2	330	100	13	17.4	1500
APSC00070740	7.1	7.1	4.1	1.55	1.75	16	12	4	2	330	100	13	17.4	1000
APSC00101131	10.6	10.75	4.2	1.55	1.75	24	16	4	2	300	100	13	24.4	1000
APSC00101140	10.6	10.75	4.2	1.50	1.75	24	16	4	2	330	100	13	24.4	1000
APSC00101151	10.6	10.6	5.0	1.50	1.75	24	16	4	2	330	100	13	24.4	500
APSC00080846	7.6	7.6	5.0	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
APSC00131345	13.0	12.8	5.1	1.55	1.75	24	16	4	2	330	100	13	24.4	500
APSC00131360	12.6	12.6	6.7	1.55	1.75	24	16	4	2	330	100	13	24.4	600
APSC00131380	12.6	12.6	8.7	1.55	1.75	24	16	4	2	330	100	13	24.4	500

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Power Inductor APCI Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Power Circuit | Shield | Wire Wound | Ferrite

Part Numbering

A	PCI	00	101040	1R0	M	80
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			070746 7.3x7.3x4.6	1R0 1	K ±10%	80
			121250 12x12x5	100 10	M ±20%	Y0
			121260 12x12x6	101 100	T ±30%	
			121280 12x12x8	102 1000		
			121210 12x12x10	103 10000		

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Pulse a YAGEO company

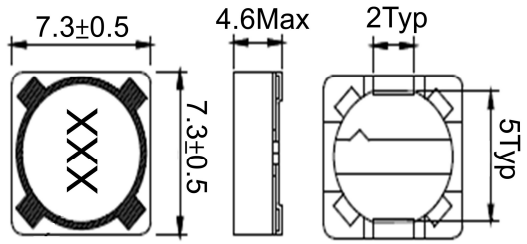
CHILISIN ELECTRONICS CORP.

Power Inductor APCI Series

Automotive
AEC-Q200

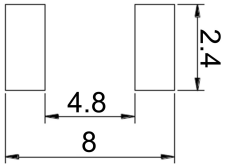
APCI00070746 - 80 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Typ	Isat (A)Max	Irms (A)Typ	Tolerance (±%)	Marking
APCI000707461R5□80	1.5	100kHz,0.25V	0.0089	7	6.6	20,30	1R5
APCI000707461R8□80	1.8	100kHz,0.25V	0.0105	6.7	5.9	20,30	1R8
APCI000707462R2□80	2.2	100kHz,0.25V	0.0126	6.5	5	20,30	2R2
APCI000707463R3□80	3.3	100kHz,0.25V	0.0169	5.9	4.8	20,30	3R3
APCI000707464R7□80	4.7	100kHz,0.25V	0.0235	4.5	4.2	20,30	4R7
APCI000707466R8□80	6.8	100kHz,0.25V	0.0282	4.3	4	20,30	6R8
APCI00070746100□80	10	100kHz,0.25V	0.0489	3.2	3	20,30	100
APCI00070746150□80	15	100kHz,0.25V	0.0637	2.48	2.11	20,30	150
APCI00070746220□80	22	100kHz,0.25V	0.0925	2.13	1.75	20,30	220
APCI00070746270□80	27	100kHz,0.25V	0.115	1.95	1.59	20,30	270
APCI00070746330□80	33	100kHz,0.25V	0.143	1.73	1.41	20	330
APCI00070746470□80	47	100kHz,0.25V	0.216	1.41	1.15	20	470
APCI00070746560□80	56	100kHz,0.25V	0.26	1.3	1.14	20,30	560
APCI00070746680□80	68	100kHz,0.25V	0.291	1.2	1.12	20	680
APCI00070746101□80	100	100kHz,0.25V	0.383	0.99	0.86	20	101
APCI00070746151□80	150	100kHz,0.25V	0.58	0.83	0.8	20	151
APCI00070746181□80	180	100kHz,0.25V	0.77	0.8	0.73	20,30	181
APCI00070746221□80	220	100kHz,0.25V	0.92	0.78	0.65	20,30	221
APCI00070746331□80	330	100kHz,0.25V	1.41	0.54	0.45	20	331
APCI00070746471□80	470	100kHz,0.25V	2.44	0.49	0.4	20	471
APCI00070746102□80	1000	100kHz,0.25V	3.89	0.31	0.27	20	102

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Rated DC Current: The less value which is Isat or Irms
5. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   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

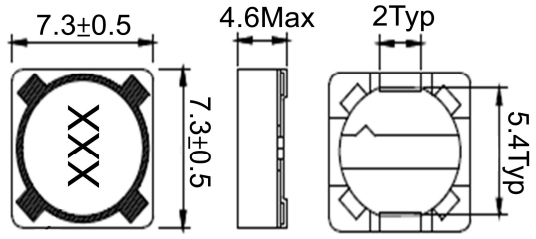
CHILISIN ELECTRONICS CORP.

Power Inductor APCI Series

Automotive
AEC-Q200

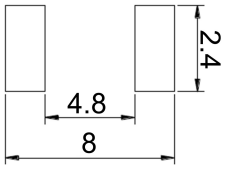
APCI00070746 - Y0 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max	Rated Current (A)Max	Tolerance (±%)	Marking
APCI00070746R33□Y0	0.33	100kHz,0.25V	0.0087	8.5	30	R33
APCI00070746R47□Y0	0.47	100kHz,0.25V	0.0109	8	30	R47
APCI000707461R0□Y0	1.0	100kHz,0.25V	0.0111	6.8	30	1R0
APCI000707461R2□Y0	1.2	100kHz,0.25V	0.0111	6.8	20,30	1R2
APCI000707461R5□Y0	1.5	100kHz,0.25V	0.0134	5.7	20,30	1R5
APCI000707462R2□Y0	2.2	100kHz,0.25V	0.0147	5	30	2R2
APCI000707463R3□Y0	3.3	100kHz,0.25V	0.0214	4	20,30	3R3
APCI000707464R7□Y0	4.7	100kHz,0.25V	0.031	3.4	20,30	4R7
APCI000707465R6□Y0	5.6	100kHz,0.25V	0.0335	3	20,30	5R6
APCI000707466R8□Y0	6.8	100kHz,0.25V	0.035	2.3	20,30	6R8
APCI000707468R2□Y0	8.2	100kHz,0.25V	0.042	2.1	20,30	8R2
APCI00070746100□Y0	10	100kHz,0.25V	0.049	1.84	20	100
APCI00070746120□Y0	12	100kHz,0.25V	0.058	1.71	20	120
APCI00070746150□Y0	15	100kHz,0.25V	0.081	1.47	20	150
APCI00070746180□Y0	18	100kHz,0.25V	0.091	1.31	20	180
APCI00070746220□Y0	22	100kHz,0.25V	0.11	1.23	20	220
APCI00070746270□Y0	27	100kHz,0.25V	0.15	1.12	20	270
APCI00070746330□Y0	33	100kHz,0.25V	0.2	0.96	20	330
APCI00070746390□Y0	39	100kHz,0.25V	0.23	0.91	20	390
APCI00070746470□Y0	47	100kHz,0.25V	0.26	0.88	20	470
APCI00070746560□Y0	56	100kHz,0.25V	0.35	0.75	20	560
APCI00070746680□Y0	68	100kHz,0.25V	0.38	0.69	20	680
APCI00070746820□Y0	82	100kHz,0.25V	0.43	0.61	20	820
APCI00070746101□Y0	100	100kHz,0.25V	0.61	0.6	20	101
APCI00070746121□Y0	120	100kHz,0.25V	0.66	0.52	20	121
APCI00070746151□Y0	150	100kHz,0.25V	0.88	0.46	20	151
APCI00070746181□Y0	180	100kHz,0.25V	0.98	0.42	20	181
APCI00070746221□Y0	220	100kHz,0.25V	1.17	0.36	20	221

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Rated DC Current: Based on inductance change (△L/Lo：drop 25% Max.) @ambient temperature 25℃ and Based on temperature rise (△T： 40℃ Typ.)
3. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   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

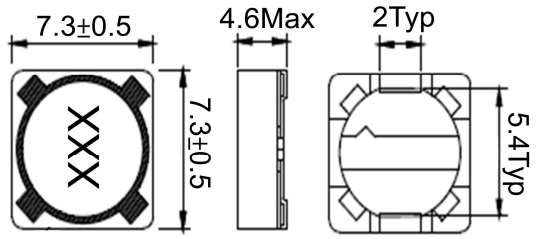
CHILISIN ELECTRONICS CORP.

Power Inductor APCI Series

Automotive
AEC-Q200

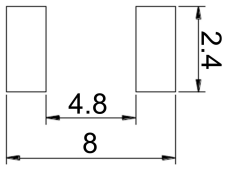
APCI00070746 - Y0 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max	Rated Current (A)Max	Tolerance (±%)	Marking
APCI00070746271□Y0	270	100kHz,0.25V	1.64	0.34	20	271
APCI00070746331□Y0	330	100kHz,0.25V	1.86	0.32	20	331
APCI00070746391□Y0	390	100kHz,0.25V	2.85	0.29	20	391
APCI00070746471□Y0	470	100kHz,0.25V	3.01	0.26	20	471
APCI00070746561□Y0	560	100kHz,0.25V	3.62	0.23	20	561
APCI00070746681□Y0	680	100kHz,0.25V	4.63	0.22	20	681
APCI00070746821□Y0	820	100kHz,0.25V	5.2	0.2	20	821
APCI00070746102□Y0	1000	100kHz,0.25V	6	0.18	20	102

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Rated DC Current: Based on inductance change (△L/Lo：drop 25% Max.) @ambient temperature 25℃ and Based on temperature rise (△T： 40℃ Typ.)
3. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   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

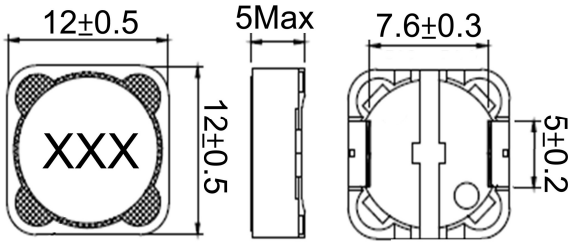
CHILISIN ELECTRONICS CORP.

Power Inductor APCI Series

Automotive
AEC-Q200

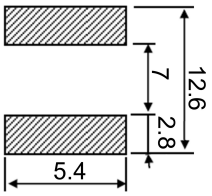
APCI00121250 - 80 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Tolerance (±%)	Marking
APCI001212504R7□80	4.7	100kHz,0.25V	0.017	9	7	20,30	4R7
APCI001212505R6□80	5.6	100kHz,0.25V	0.02	8	6.1	20,30	5R6
APCI00121250100□80	10	100kHz,0.25V	0.0307	6.5	5	20,30	100
APCI00121250150□80	15	100kHz,0.25V	0.0425	5.2	4.6	20,30	150
APCI00121250180□80	18	100kHz,0.25V	0.045	4.9	4.5	20,30	180
APCI00121250220□80	22	100kHz,0.25V	0.0583	4.5	4.3	20,30	220
APCI00121250330□80	33	100kHz,0.25V	0.0845	3.6	3	20,30	330
APCI00121250470□80	47	100kHz,0.25V	0.15	3	2.5	20,30	470
APCI00121250101□80	100	100kHz,0.25V	0.308	2	1.8	20	101
APCI00121250151□80	150	100kHz,0.25V	0.53	1.7	1.6	20	151

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Rated DC Current: The less value which is Isat or Irms
5. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   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

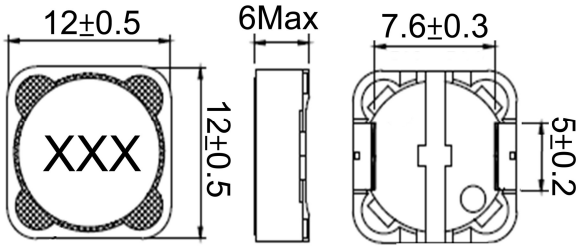
CHILISIN ELECTRONICS CORP.

Power Inductor APCI Series

Automotive
AEC-Q200

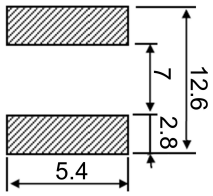
APCI00121260 - 80 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Tolerance (±%)	Marking
APCI001212602R2□80	2.2	100kHz,0.25V	0.0082	13.5	12.5	30	2R2
APCI001212602R4□80	2.4	100kHz,0.25V	0.0082	13.5	12.5	20,30	2R4
APCI001212602R7□80	2.7	100kHz,0.25V	0.0093	13	10.5	20,30	2R7
APCI001212603R3□80	3.3	100kHz,0.25V	0.114	12	9	20,30	3R3
APCI001212604R7□80	4.7	100kHz,0.25V	0.013	10	8	20,30	4R7
APCI001212605R6□80	5.6	100kHz,0.25V	0.014	9	7	20,30	5R6
APCI001212606R8□80	6.8	100kHz,0.25V	0.015	8	7	20,30	6R8
APCI001212608R2□80	8.2	100kHz,0.25V	0.022	7.5	6.5	20,30	8R2
APCI00121260100□80	10	100kHz,0.25V	0.0265	7.2	5.6	20,30	100
APCI00121260150□80	15	100kHz,0.25V	0.0319	5.8	5	20,30	150
APCI00121260220□80	22	100kHz,0.25V	0.0463	4.5	4	20,30	220
APCI00121260330□80	33	100kHz,0.25V	0.0663	4	3.5	20,30	330
APCI00121260470□80	47	100kHz,0.25V	0.0925	3.24	2.9	20,30	470
APCI00121260680□80	68	100kHz,0.25V	0.13	2.7	2.5	20,30	680
APCI00121260101□80	100	100kHz,0.25V	0.17	2	2.2	20	101
APCI00121260151□80	150	100kHz,0.25V	0.26	1.8	1.7	20,30	151
APCI00121260221□80	220	100kHz,0.25V	0.43	1.6	1.39	20	221
APCI00121260271□80	270	100kHz,0.25V	0.45	1.5	1.32	20	271
APCI00121260152□80	1500	100kHz,0.25V	2	0.58	0.6	20	152
APCI00121260222□80	2200	100kHz,0.25V	2.9	0.49	0.5	20	222

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Rated DC Current: The less value which is Isat or Irms
5. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   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

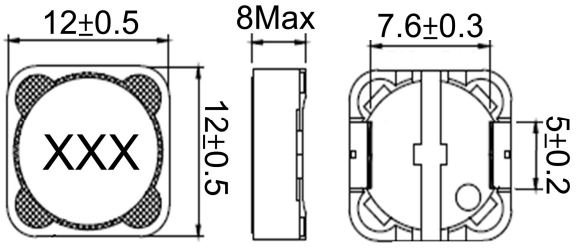
CHILISIN ELECTRONICS CORP.

Power Inductor APCI Series

Automotive
AEC-Q200

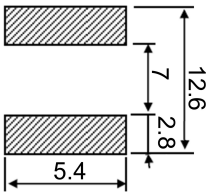
APCI00121280 - 80 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Tolerance (±%)	Marking
APCI001212801R0□80	1.0	100kHz,0.25V	0.0055	18	15	30	1R0
APCI001212802R2□80	2.2	100kHz,0.25V	0.0062	16	13	30	2R2
APCI001212803R3□80	3.3	100kHz,0.25V	0.0135	13.5	7.5	30	3R3
APCI001212804R5□80	4.5	100kHz,0.25V	0.0158	11.5	6.8	20,30	4R5
APCI001212804R7□80	4.7	100kHz,0.25V	0.0158	11.5	6.8	20,30	4R7
APCI001212805R6□80	5.6	100kHz,0.25V	0.0168	10.5	6.7	20,30	5R6
APCI001212806R5□80	6.5	100kHz,0.25V	0.0176	9.5	6.6	20,30	6R5
APCI001212806R8□80	6.8	100kHz,0.25V	0.0176	9.5	6.6	20,30	6R8
APCI00121280100□80	10	100kHz,0.25V	0.0216	7.8	5.4	20,30	100
APCI00121280120□80	12	100kHz,0.25V	0.0243	7.3	4.9	20,30	120
APCI00121280130□80	13	100kHz,0.25V	0.0243	7.3	4.9	20,30	130
APCI00121280150□80	15	100kHz,0.25V	0.027	6.5	4.5	20,30	150
APCI00121280180□80	18	100kHz,0.25V	0.0392	6	3.9	20,30	180
APCI00121280220□80	22	100kHz,0.25V	0.0432	5.3	3.6	20,30	220
APCI00121280270□80	27	100kHz,0.25V	0.0531	4.8	3.3	20,30	270
APCI00121280330□80	33	100kHz,0.25V	0.0648	4.3	3	20,30	330
APCI00121280390□80	39	100kHz,0.25V	0.071	4.1	2.8	20,30	390
APCI00121280470□80	47	100kHz,0.25V	0.1	3.8	2.5	20,30	470
APCI00121280560□80	56	100kHz,0.25V	0.11	3.4	2.35	20,30	560
APCI00121280680□80	68	100kHz,0.25V	0.14	3.1	2.1	20,30	680
APCI00121280820□80	82	100kHz,0.25V	0.16	2.7	1.95	20,30	820
APCI00121280101□80	100	100kHz,0.25V	0.22	2.5	1.7	20,30	101
APCI00121280121□80	120	100kHz,0.25V	0.25	2.3	1.6	20,30	121
APCI00121280151□80	150	100kHz,0.25V	0.28	2	1.42	20,30	151
APCI00121280181□80	180	100kHz,0.25V	0.35	1.9	1.3	20,30	181
APCI00121280201□80	200	100kHz,0.25V	0.37	1.8	1.23	20,30	201
APCI00121280221□80	220	100kHz,0.25V	0.39	1.7	1.16	20,30	221
APCI00121280271□80	270	100kHz,0.25V	0.51	1.6	1.06	20,30	271

Note: When ordering, please specify tolerance code. Tolerance: K=±10% / M=±20% / T=±30%

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Rated DC Current: The less value which is Isat or Irms
5. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   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

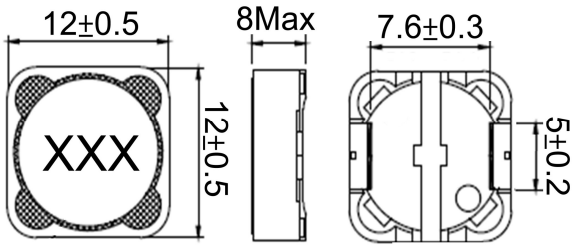
CHILISIN ELECTRONICS CORP.

Power Inductor APCI Series

Automotive
AEC-Q200

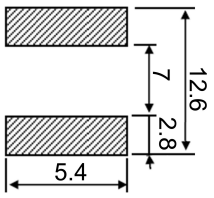
APCI00121280 - 80 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Tolerance (±%)	Marking
APCI00121280281□80	280	100kHz,0.25V	0.51	1.6	1.06	20,30	281
APCI00121280331□80	330	100kHz,0.25V	0.64	1.4	0.95	20,30	331
APCI00121280391□80	390	100kHz,0.25V	0.7	1.3	0.88	20,30	391
APCI00121280471□80	470	100kHz,0.25V	0.98	1.1	0.79	20,30	471
APCI00121280561□80	560	100kHz,0.25V	1.03	1.05	0.75	20,30	561
APCI00121280681□80	680	100kHz,0.25V	1.1	1	0.7	20	681
APCI00121280801□80	800	100kHz,0.25V	1.29	0.9	0.67	20	801
APCI00121280821□80	820	100kHz,0.25V	1.29	0.9	0.67	20	821
APCI00121280102□80	1000	100kHz,0.25V	1.53	0.85	0.64	20	102
APCI00121280112□80	1100	100kHz,0.25V	1.66	0.82	0.62	20	112
APCI00121280122□80	1200	100kHz,0.25V	1.8	0.8	0.6	20	122
APCI00121280132□80	1300	100kHz,0.25V	1.93	0.76	0.58	20	132
APCI00121280142□80	1400	100kHz,0.25V	2.1	0.73	0.56	10,20	142
APCI00121280152□80	1500	100kHz,0.25V	2.2	0.7	0.55	20	152
APCI00121280182□80	1800	10kHz,0.25V	2.5	0.65	0.5	20	182
APCI00121280202□80	2000	10kHz,0.25V	2.7	0.62	0.48	20	202
APCI00121280222□80	2200	10kHz,0.25V	2.9	0.59	0.46	20	222
APCI00121280242□80	2400	10kHz,0.25V	3.2	0.58	0.45	20	242
APCI00121280282□80	2800	10kHz,0.25V	3.6	0.53	0.42	20	282
APCI00121280332□80	3300	10kHz,0.25V	4.1	0.48	0.39	20	332
APCI00121280392□80	3900	10kHz,0.25V	4.7	0.45	0.37	20	392
APCI00121280472□80	4700	10kHz,0.25V	5.3	0.42	0.36	20	472
APCI00121280622□80	6200	10kHz,0.25V	7.1	0.33	0.3	10,20	622
APCI00121280682□80	6800	10kHz,0.25V	7.2	0.3	0.28	20	682
APCI00121280103□80	10000	10kHz,0.25V	14.2	0.15	0.15	20	103

Note: When ordering, please specify tolerance code. Tolerance: K=±10% / M=±20% / T=±30%

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Rated DC Current: The less value which is Isat or Irms
5. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   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

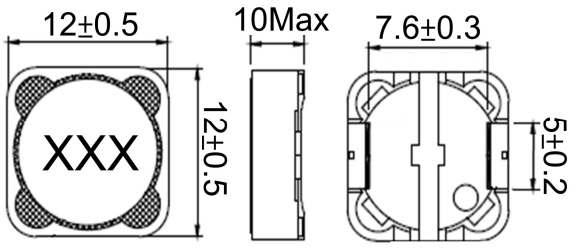
CHILISIN ELECTRONICS CORP.

Power Inductor APCI Series

Automotive
AEC-Q200

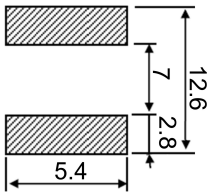
APCI00121210 - 80 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Tolerance (±%)	Marking
APCI001212106R8□80	6.8	100kHz,0.25V	0.014	12.8	8.4	20,30	6R8
APCI00121210100□80	10	100kHz,0.25V	0.0183	11.5	7.5	20,30	100
APCI00121210150□80	15	100kHz,0.25V	0.028	8.6	6	20,30	150
APCI00121210330□80	33	100kHz,0.25V	0.045	5.5	4.2	20	330
APCI00121210470□80	47	100kHz,0.25V	0.06	4.5	3.8	20	470
APCI00121210560□80	56	100kHz,0.25V	0.07	4	3.4	20	560
APCI00121210680□80	68	100kHz,0.25V	0.0885	3.6	3.2	20	680
APCI00121210101□80	100	100kHz,0.25V	0.11	3.1	2.5	20	101
APCI00121210221□80	220	100kHz,0.25V	0.27	2.5	1.8	20	221
APCI00121210271□80	270	100kHz,0.25V	0.33	2.1	1.6	20	271
APCI00121210301□80	300	100kHz,0.25V	0.34	1.8	1.45	20	301
APCI00121210331□80	330	100kHz,0.25V	0.34	1.8	1.45	20	331
APCI00121210681□80	680	100kHz,0.25V	0.675	1.6	1.25	20,30	681
APCI00121210821□80	820	100kHz,0.25V	1	1.1	0.85	20	821

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Rated DC Current: The less value which is Isat or Irms
5. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   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

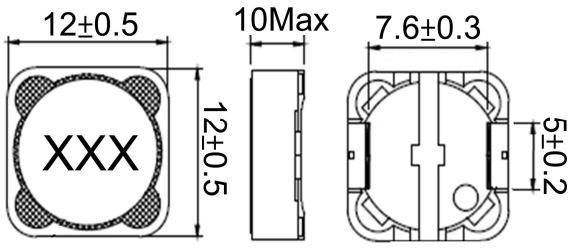
CHILISIN ELECTRONICS CORP.

Power Inductor APCI Series

Automotive
AEC-Q200

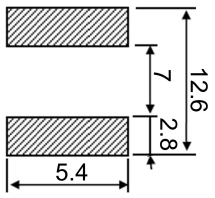
APCI00121210 - Y0 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Tolerance (±%)	Marking
APCI001212101R0□Y0	1.0	100kHz,0.1V	0.0055	19.9	11.6	30	1R0
APCI001212101R8□Y0	1.8	100kHz,0.1V	0.0065	13.4	11	30	1R8
APCI001212102R0□Y0	2.0	100kHz,0.1V	0.007	12.9	10.7	30	2R0
APCI001212102R2□Y0	2.2	100kHz,0.1V	0.007	12.9	10.7	20,30	2R2
APCI001212102R5□Y0	2.5	100kHz,0.1V	0.008	12.16	10.3	30	2R5
APCI001212103R5□Y0	3.5	100kHz,0.1V	0.0097	12	8.7	30	3R5
APCI001212103R6□Y0	3.6	100kHz,0.1V	0.01	12	8.7	30	3R6
APCI001212104R7□Y0	4.7	100kHz,0.1V	0.011	11	8.4	20,30	4R7
APCI001212105R8□Y0	5.8	100kHz,0.1V	0.0113	10.5	7.6	30	5R8
APCI001212106R8□Y0	6.8	100kHz,0.1V	0.0115	10	7.1	20,30	6R8
APCI001212107R5□Y0	7.5	100kHz,0.1V	0.014	8.48	6.8	20,30	7R5
APCI001212108R2□Y0	8.2	100kHz,0.1V	0.016	8.3	6.7	20,30	8R2
APCI00121210100□Y0	10	100kHz,0.1V	0.017	8.2	6.95	20,30	100
APCI00121210120□Y0	12	100kHz,0.1V	0.0185	7.04	6.2	20,30	120
APCI00121210150□Y0	15	100kHz,0.1V	0.025	5.8	5.22	20,30	150
APCI00121210220□Y0	22	100kHz,0.1V	0.029	5.12	4.95	20,30	220
APCI00121210330□Y0	33	100kHz,0.1V	0.053	4.25	3.6	20,30	330
APCI00121210470□Y0	47	100kHz,0.1V	0.063	3.6	3.45	20,30	470
APCI00121210560□Y0	56	100kHz,0.1V	0.068	2.85	2.95	20,30	560
APCI00121210680□Y0	68	100kHz,0.1V	0.093	2.76	2.85	20,30	680
APCI00121210820□Y0	82	100kHz,0.1V	0.099	2.62	2.6	20,30	820
APCI00121210850□Y0	85	100kHz,0.1V	0.12	2.6	2.6	20,30	850
APCI00121210101□Y0	100	100kHz,0.1V	0.126	2.31	2.45	20	101
APCI00121210121□Y0	120	100kHz,0.1V	0.154	2.05	2.2	20	121
APCI00121210151□Y0	150	100kHz,0.1V	0.174	1.8	1.9	20	151
APCI00121210181□Y0	180	100kHz,0.1V	0.191	1.66	1.86	20	181
APCI00121210221□Y0	220	100kHz,0.1V	0.246	1.64	1.72	20	221
APCI00121210331□Y0	330	100kHz,0.1V	0.386	1.28	1.28	20	331
APCI00121210391□Y0	390	100kHz,0.1V	0.44	1.2	1.27	20	391

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 25% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Rated DC Current: The less value which is Isat or Irms
5. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   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

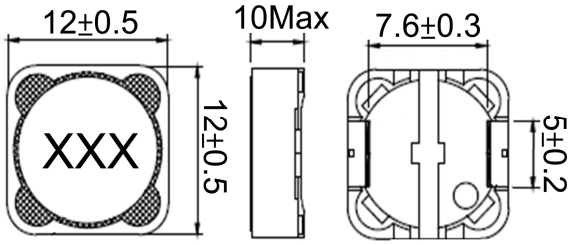
CHILISIN ELECTRONICS CORP.

Power Inductor APCI Series

Automotive
AEC-Q200

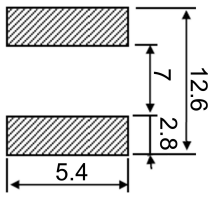
APCI00121210 - Y0 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Tolerance (±%)	Marking
APCI00121210471□Y0	470	100kHz,0.1V	0.471	1.06	1.25	20	471
APCI00121210561□Y0	560	100kHz,0.1V	0.65	1.01	0.98	20	561
APCI00121210681□Y0	680	100kHz,0.1V	0.73	0.83	0.96	20	681
APCI00121210821□Y0	820	100kHz,0.1V	0.824	0.81	0.94	20	821
APCI00121210102□Y0	1000	100kHz,0.1V	1.22	0.7	0.78	20	102
APCI00121210122□Y0	1200	100kHz,0.1V	1.33	0.64	0.79	20	122
APCI00121210152□Y0	1500	100kHz,0.1V	1.99	0.56	0.58	20	152
APCI00121210182□Y0	1800	100kHz,0.1V	2.18	0.48	0.54	20	182
APCI00121210222□Y0	2200	100kHz,0.1V	2.58	0.43	0.52	20	222
APCI00121210332□Y0	3300	100kHz,0.1V	4.6	0.3	0.4	20	332

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 25% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Rated DC Current: The less value which is Isat or Irms
5. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   RDC: CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
   Isat:WK3255BQ+ WK3265B (or equivalent)
   Irms: WK3255BQ+ WK3265B (or equivalent)

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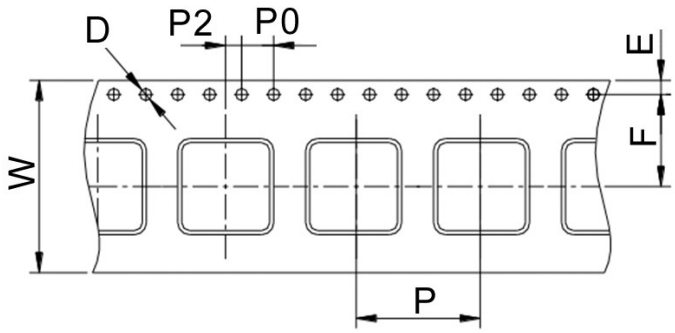
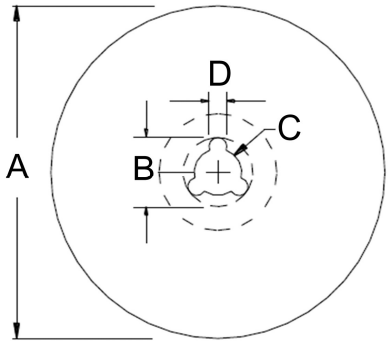
■ Packaging

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
APCI00070746	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
APCI00121250	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500
APCI00121260	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500
APCI00121280	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500
APCI00121210	24	1.5	1.75	11.5	24	4	2	330	20	13	2	250

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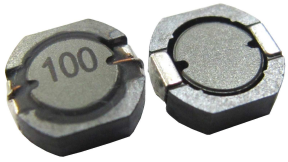
Power Inductor APSR Series

Automotive
AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant



Power Circuit | Shield | Wire Wound | Ferrite

Part Numbering

A	PSR	00	080725	1R0	M	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			050522 5.2x5.0x2.2	R47 0.47	M ±20%	
			080725 7.5x7.4x2.5	1R0 1.0	T ±30%	
			080740 7.5x7.4x4.0	101 100		

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Pulse a YAGEO company

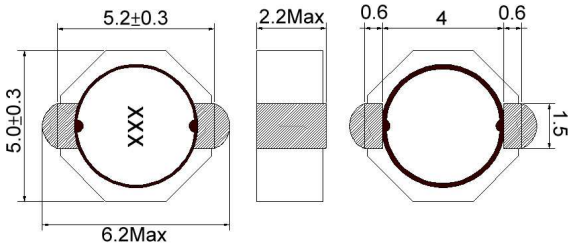
CHILISIN ELECTRONICS CORP.

Power Inductor APSR Series

Automotive
AEC-Q200

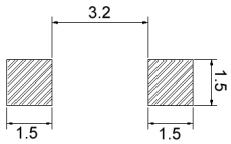
APSR00050522 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)Max.	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APSR000505221R2□00	1.2	100kHz,1V	25	4.3	3.43	30	1R2
APSR000505221R8□00	1.8	100kHz,1V	32	3.6	3.12	30	1R8
APSR000505223R3□00	3.3	100kHz,1V	54	2.5	2.68	30	3R3
APSR000505224R7□00	4.7	100kHz,1V	81	2.0	2.18	30	4R7
APSR00050522100□00	10	100kHz,1V	160	1.4	1.51	20,30	100
APSR00050522220□00	22	100kHz,1V	320	0.9	1.02	20,30	220
APSR00050522330□00	33	100kHz,1V	490	0.77	0.80	20,30	330

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

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Isat for Inductance drop 35% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Measure Equipment:
   L: Agilent E4980 or HP4284A
   RDC: Chroma 16502
   Isat: HP4284A+HP42841A or WK3260B+WK3265B
   Irms: Agilent 6641 SYSTEM DC POWER SUPPLY

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

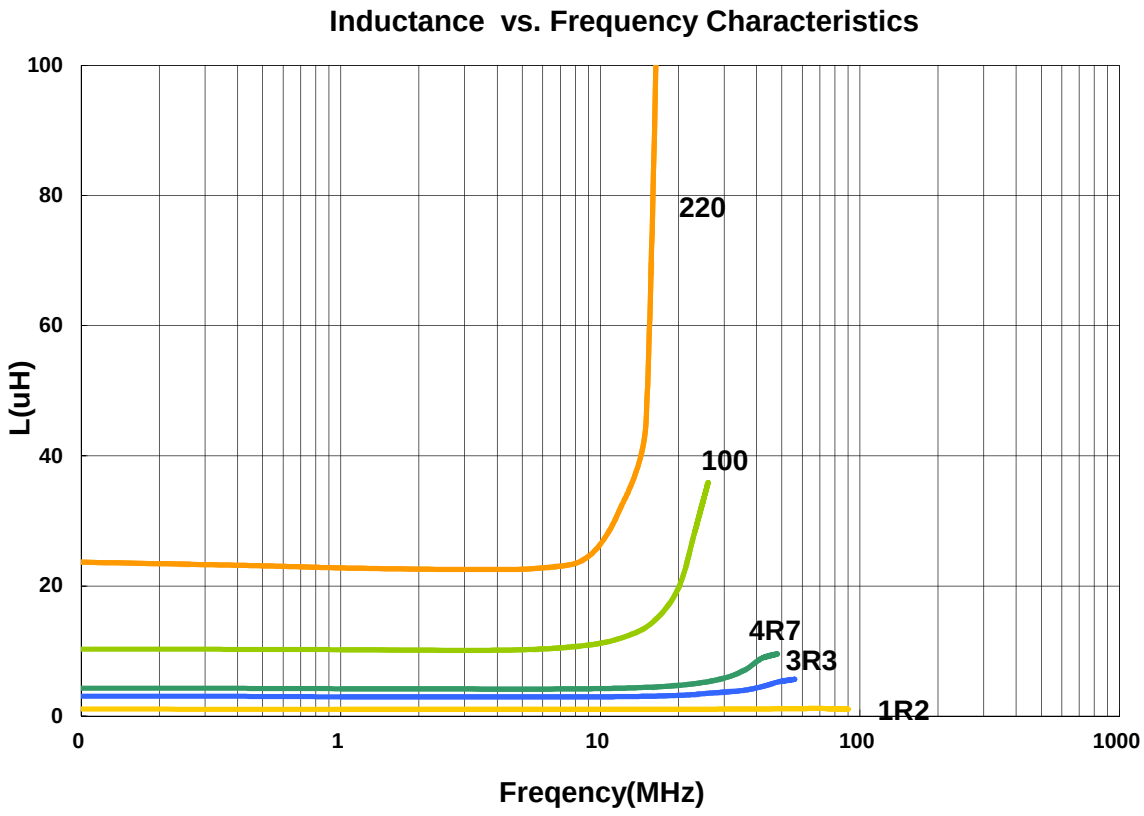
CHILISIN ELECTRONICS CORP.

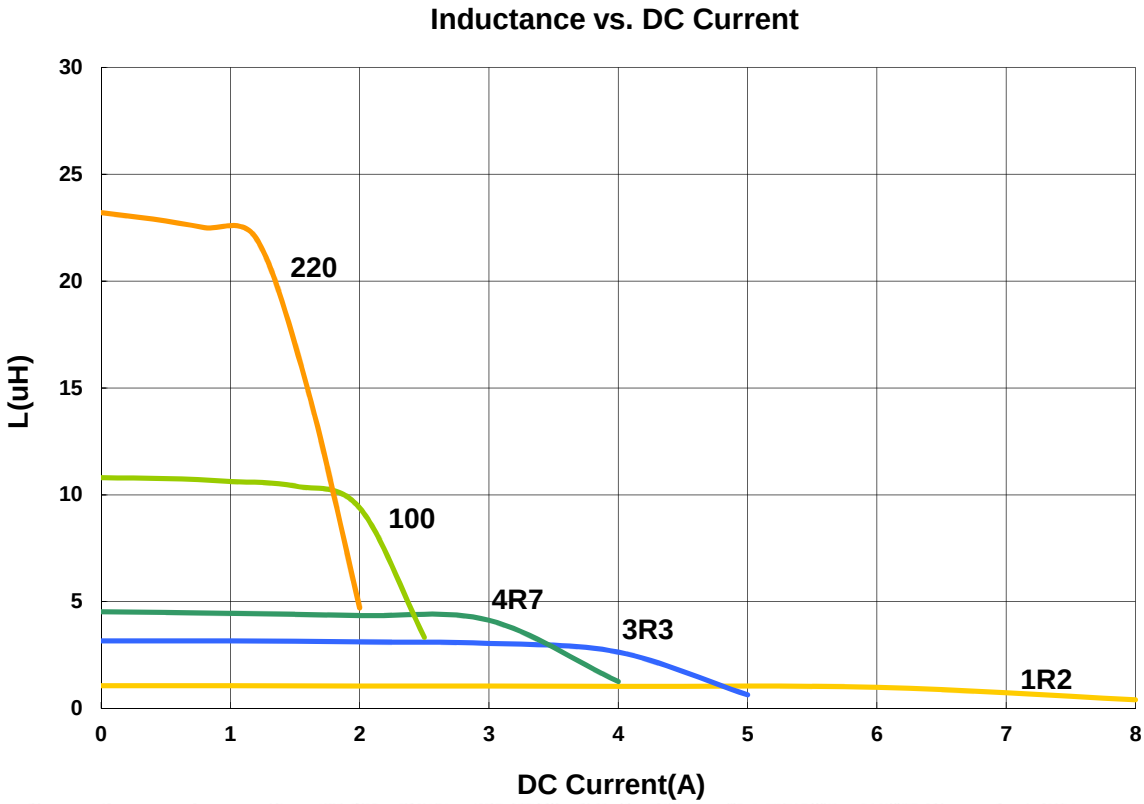
Power Inductor APSR Series

Automotive
AEC-Q200

APSR00050522 Type

■ Characteristics Graph





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Pulse a YAGEO company

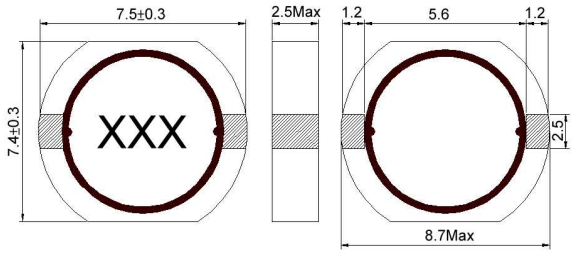
CHILISIN ELECTRONICS CORP.

Power Inductor APSR Series

Automotive
AEC-Q200

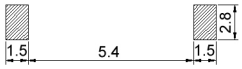
APSR00080725 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)Max.	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APSR000807251R0□00	1.0	100kHz,1V	14.28	2.20	6.22	30	1R0
APSR000807251R5□00	1.5	100kHz,1V	19.70	2.08	5.00	30	1R5
APSR000807252R2□00	2.2	100kHz,1V	24.09	1.86	4.40	30	2R2
APSR000807253R3□00	3.3	100kHz,1V	41.2	1.80	3.70	30	3R3
APSR000807254R7□00	4.7	100kHz,1V	49.7	1.80	3.20	30	4R7
APSR000807255R6□00	5.6	100kHz,1V	58.9	1.39	2.90	20,30	5R6
APSR000807256R8□00	6.8	100kHz,1V	66.3	1.32	2.70	20,30	6R8
APSR00080725100□00	10	100kHz,1V	92.4	1.25	1.90	20,30	100
APSR00080725150□00	15	100kHz,1V	170	1.20	1.70	20,30	150
APSR00080725220□00	22	100kHz,1V	210	1.13	1.52	20,30	220
APSR00080725330□00	33	100kHz,1V	320	0.91	1.10	20,30	330
APSR00080725470□00	47	100kHz,1V	490	0.85	0.95	20,30	470

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

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Isat for Inductance drop 35% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Measure Equipment:
   L: Agilent E4980 or HP4284A
   RDC: Chroma 16502
   Isat: HP4284A+HP42841A or WK3260B+WK3265B
   Irms: Agilent 6641 SYSTEM DC POWER SUPPLY

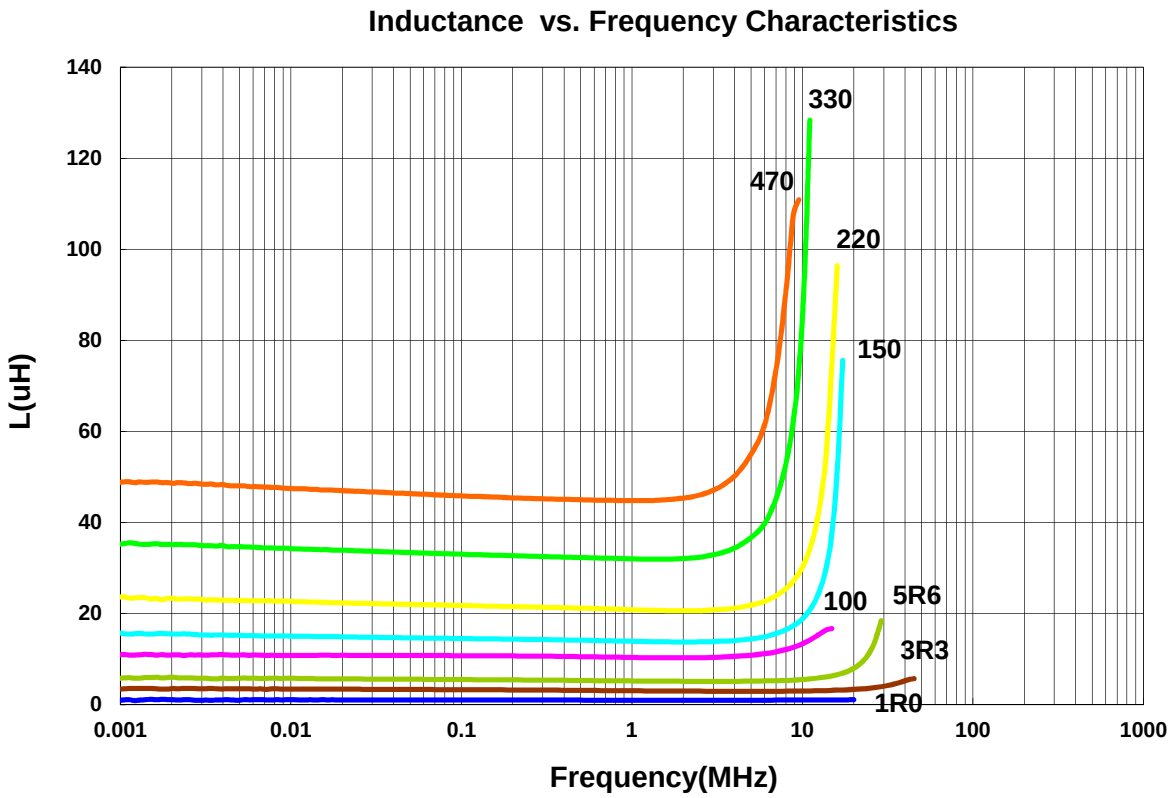
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

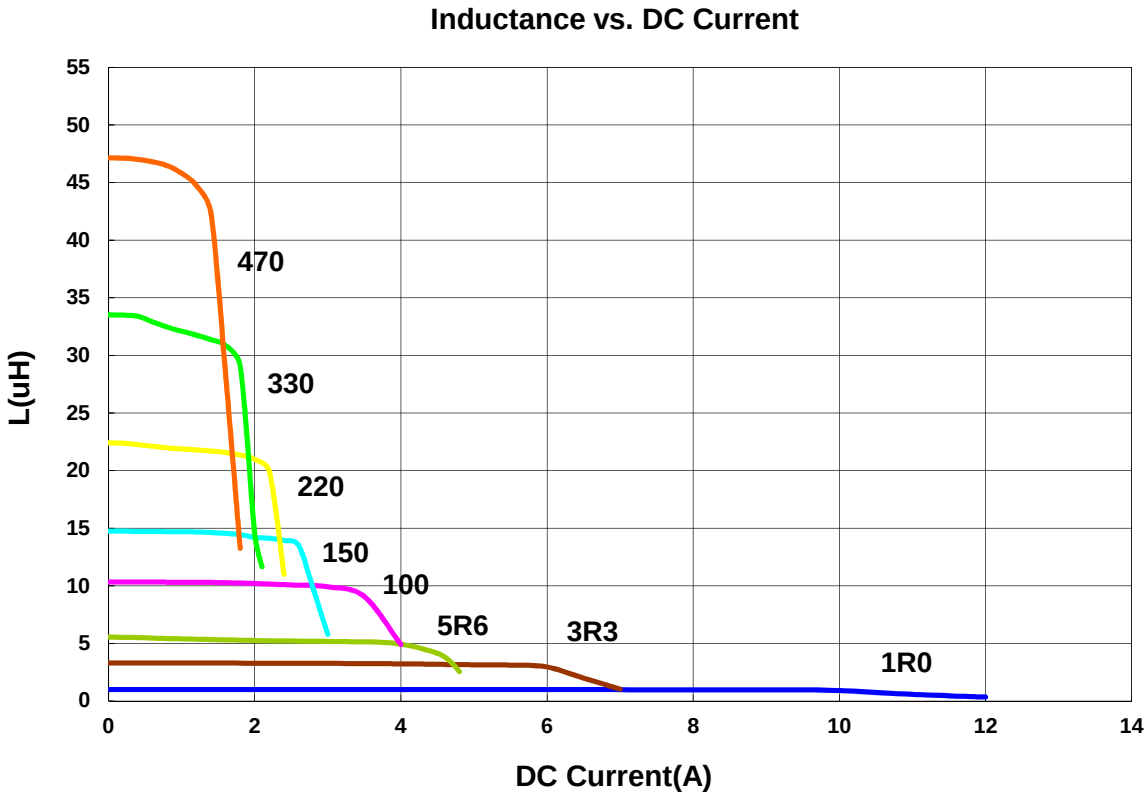
Power Inductor APSR Series

Automotive
AEC-Q200

APSR00080725 Type

■ Characteristics Graph





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Pulse a YAGEO company

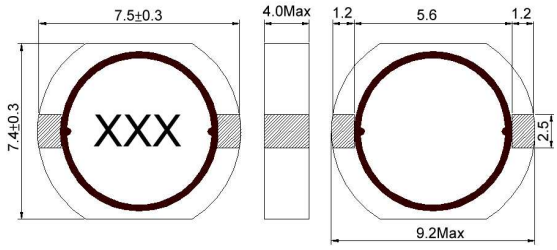
CHILISIN ELECTRONICS CORP.

Power Inductor APSR Series

Automotive
AEC-Q200

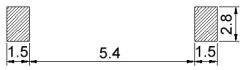
APSR00080740 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)Max.	Isat(A) Max(Typ)	Irms (A)	Tolerance (±%)	Marking
APSR000807401R0□00	1.0	100kHz,1V	6.38	8.0(12)	9.00	30	1R0
APSR000807401R5□00	1.5	100kHz,1V	8.64	7.0(10)	8.00	30	1R5
APSR000807401R8□00	1.8	100kHz,1V	9.60	6.5(8.6)	7.92	30	1R8
APSR000807402R5□00	2.5	100kHz,1V	13.6	4.8(7.2)	7.40	30	2R5
APSR000807403R3□00	3.3	100kHz,1V	17.8	3.9(6.8)	6.70	30	3R3
APSR000807404R7□00	4.7	100kHz,1V	26.6	3.5(4.6)	4.90	20,30	4R7
APSR000807405R6□00	5.6	100kHz,1V	29.0	3.3(4.1)	4.60	20,30	5R6
APSR000807406R8□00	6.8	100kHz,1V	34.0	3.2(3.9)	3.90	20,30	6R8
APSR00080740100□00	10	100kHz,1V	55.6	2.5(3.4)	3.25	20,30	100
APSR00080740150□00	15	100kHz,1V	71.4	2.1(3.0)	2.70	20,30	150
APSR00080740220□00	22	100kHz,1V	98.1	1.7(2.4)	2.40	20,30	220
APSR00080740330□00	33	100kHz,1V	140	1.4(2.0)	1.90	20,30	330
APSR00080740470□00	47	100kHz,1V	217	1.2(1.7)	1.48	20,30	470
APSR00080740560□00	56	100kHz,1V	260	1.0(1.5)	1.33	20,30	560
APSR00080740680□00	68	100kHz,1V	310	0.95(1.36)	1.20	20,30	680
APSR00080740820□00	82	100kHz,1V	360	0.9(1.20)	1.12	20,30	820
APSR00080740101□00	100	100kHz,1V	480	0.85(1.12)	0.95	20,30	101
APSR00080740121□00	120	100kHz,1V	560	0.75(1.00)	0.89	20,30	121
APSR00080740151□00	150	100kHz,1V	710	0.650.92)	0.82	20,30	151

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

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Isat for Inductance drop 35% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Measure Equipment:
   L: Agilent E4980 or HP4284A
   RDC: Chroma 16502
   Isat: HP4284A+HP42841A or WK3260B+WK3265B
   Irms: Agilent 6641 SYSTEM DC POWER SUPPLY

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Pulse a YAGEO company

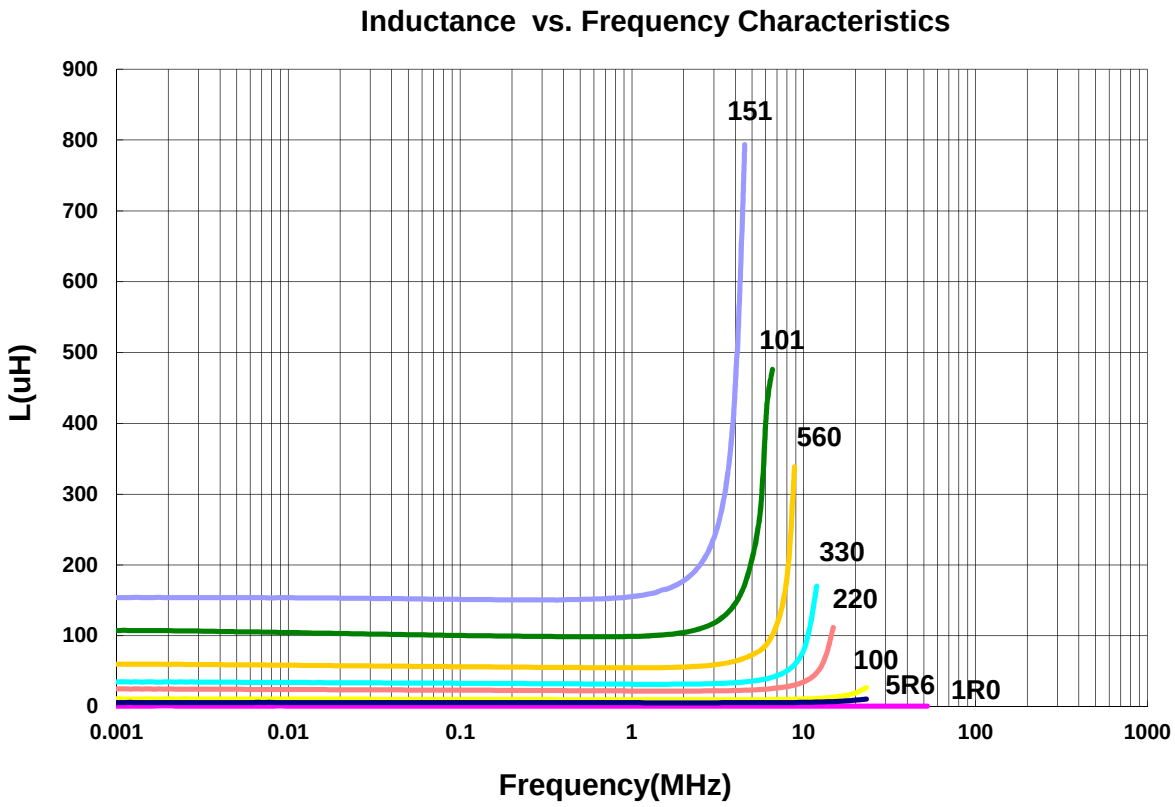
CHILISIN ELECTRONICS CORP.

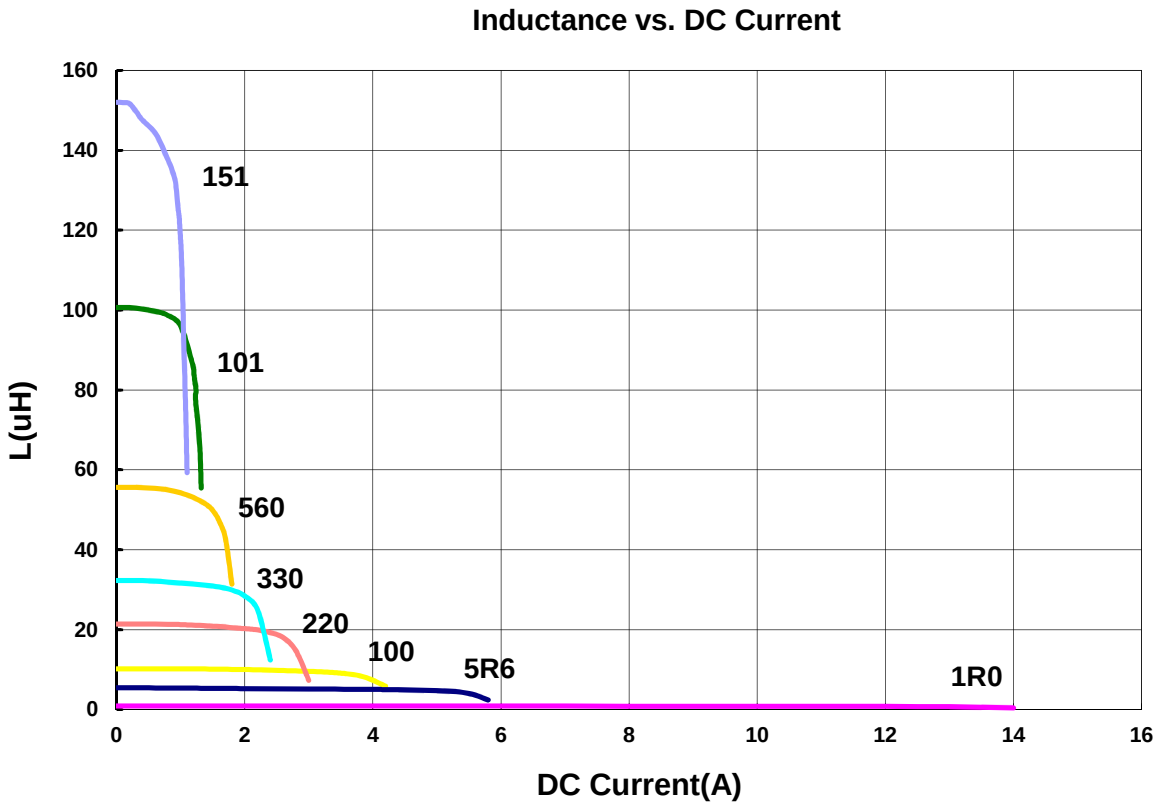
Power Inductor APSR Series

Automotive
AEC-Q200

APSR00080740 Type

■ Characteristics Graph





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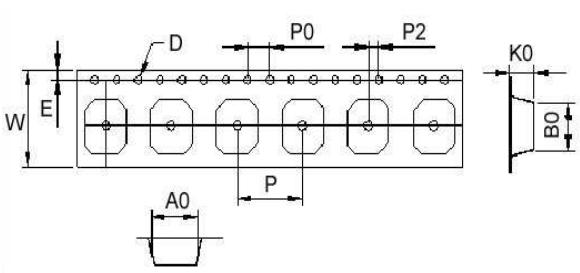
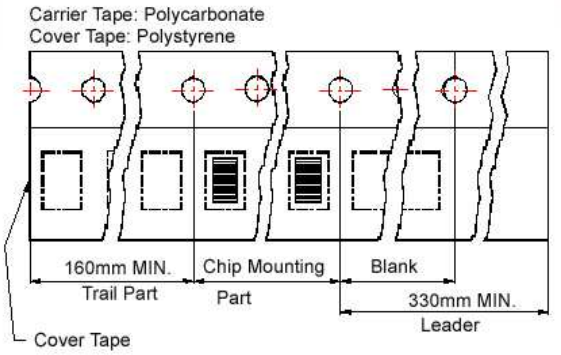
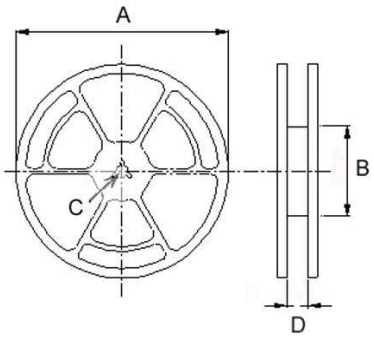
Packaging

Tape Dimensions





Reel Dimensions



Dimensions in mm

TYPE										Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
APSR00050522	5.25	6.25	2.4	1.55	1.75	12	8	4	2	330	100	13	13.4	2000
APSR00080725	7.60	8.65	2.8	1.55	1.75	16	12	4	2	330	100	13	16	1500
APSR00080740	7.60	9.00	4.3	1.55	1.75	16	12	4	2	330	100	13	16	1000

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Power Inductor APXX Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Power Circuit | Shield | Wire Wound | Ferrite

Part Numbering

A	PXX	00	040418	100	M	80
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			040418 4.0x4.0x1.8	1R0 1.0	M ±20%	80
			050530 5.0x5.0x3.0	100 10	T ±30%	
				101 100		

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Pulse a YAGEO company

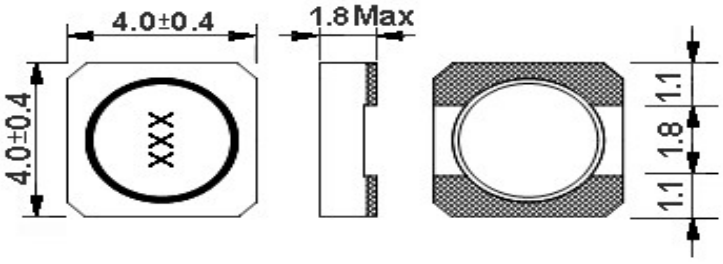
CHILISIN ELECTRONICS CORP.

Power Inductor APXX Series

Automotive
AEC-Q200

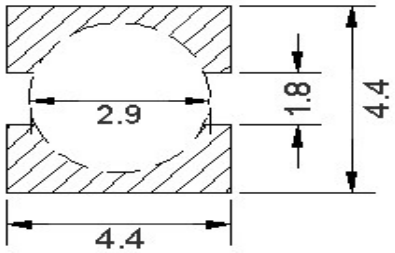
APXX00040418 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Tolerance (±%)	Marking
APXX00040418R56□80	0.56	100kHz,0.1V	0.030	4.80	2.80	30	R56
APXX00040418R68□80	0.68	100kHz,0.1V	0.035	4.50	2.75	30	R68
APXX000404181R0□80	1.0	100kHz,0.1V	0.040	3.40	2.70	20,30	1R0
APXX000404181R5□80	1.5	100kHz,0.1V	0.050	2.70	2.50	20,30	1R5
APXX000404181R6□80	1.6	100kHz,0.1V	0.050	2.70	2.50	30	1R6
APXX000404181R8□80	1.8	100kHz,0.1V	0.060	2.60	2.40	30	1R8
APXX000404182R2□80	2.2	100kHz,0.1V	0.070	2.50	2.20	20,30	2R2
APXX000404182R5□80	2.5	100kHz,0.1V	0.075	2.40	2.10	30	2R5
APXX000404183R3□80	3.3	100kHz,0.1V	0.080	2.20	2.00	20,30	3R3
APXX000404183R6□80	3.6	100kHz,0.1V	0.100	2.00	1.80	30	3R6
APXX000404183R9□80	3.9	100kHz,0.1V	0.100	2.00	1.80	20,30	3R9
APXX000404184R7□80	4.7	100kHz,0.1V	0.125	1.70	1.60	20,30	4R7
APXX000404185R6□80	5.6	100kHz,0.1V	0.135	1.50	1.45	20,30	5R6
APXX000404186R8□80	6.8	100kHz,0.1V	0.15	1.20	1.30	20,30	6R8
APXX00040418100□80	10	100kHz,0.1V	0.20	1.10	1.15	20,30	100
APXX00040418150□80	15	100kHz,0.1V	0.28	0.86	0.90	20,30	150
APXX00040418180□80	18	100kHz,0.1V	0.30	0.78	0.88	20,30	180
APXX00040418220□80	22	100kHz,0.1V	0.36	0.74	0.85	20,30	220
APXX00040418330□80	33	100kHz,0.1V	0.46	0.58	0.77	20,30	330
APXX00040418470□80	47	100kHz,0.1V	0.75	0.51	0.63	20,30	470
APXX00040418680□80	68	100kHz,0.1V	1.07	0.41	0.48	20,30	680
APXX00040418820□80	82	100kHz,0.1V	1.22	0.38	0.44	20,30	820
APXX00040418101□80	100	100kHz,0.1V	1.64	0.34	0.42	20,30	101
APXX00040418121□80	120	100kHz,0.1V	1.88	0.31	0.38	20,30	121
APXX00040418151□80	150	100kHz,0.1V	2.45	0.27	0.31	20,30	151
APXX00040418181□80	180	100kHz,0.1V	2.91	0.24	0.30	20,30	181
APXX00040418221□80	220	100kHz,0.1V	4.20	0.22	0.24	20,30	221
APXX00040418331□80	330	100kHz,0.1V	5.90	0.18	0.22	20,30	331

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

1. Operating temperature range －40℃～165℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient.
4. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   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

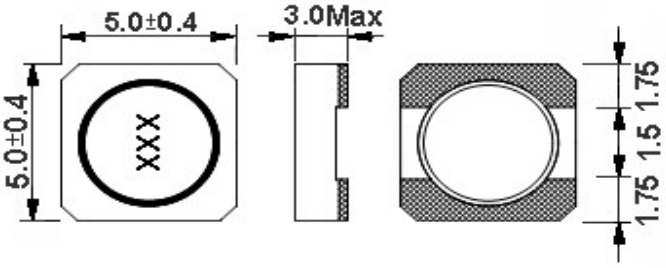
CHILISIN ELECTRONICS CORP.

Power Inductor APXX Series

Automotive
AEC-Q200

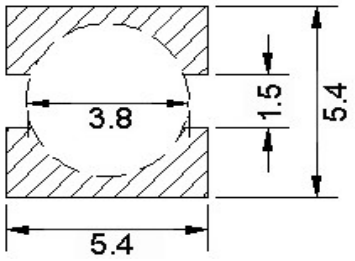
APXX00050530 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Tolerance (±%)	Marking
APXX000505301R2□80	1.2	100kHz,0.1V	0.040	3.50	2.65	T	1R2
APXX000505301R5□80	1.5	100kHz,0.1V	0.045	3.40	2.50	M,T	1R5
APXX000505302R2□80	2.2	100kHz,0.1V	0.057	3.10	2.15	T	2R2
APXX000505303R3□80	3.3	100kHz,0.1V	0.066	2.50	1.80	M,T	3R3
APXX000505304R7□80	4.7	100kHz,0.1V	0.083	2.00	1.75	M,T	4R7
APXX000505306R8□80	6.8	100kHz,0.1V	0.099	1.70	1.60	M,T	6R8
APXX000505308R2□80	8.2	100kHz,0.1V	0.120	1.60	1.50	M,T	8R2
APXX00050530100□80	10	100kHz,0.1V	0.150	1.50	1.40	M,T	100
APXX00050530120□80	12	100kHz,0.1V	0.160	1.40	1.30	M,T	120
APXX00050530150□80	15	100kHz,0.1V	0.175	1.30	1.20	M,T	150
APXX00050530220□80	22	100kHz,0.1V	0.190	1.00	1.10	M,T	220
APXX00050530270□80	27	100kHz,0.1V	0.27	0.90	1.00	M,T	270
APXX00050530330□80	33	100kHz,0.1V	0.35	0.80	0.90	M,T	330
APXX00050530470□80	47	100kHz,0.1V	0.50	0.75	0.75	M,T	470
APXX00050530560□80	56	100kHz,0.1V	0.65	0.65	0.65	M,T	560
APXX00050530680□80	68	100kHz,0.1V	0.75	0.60	0.60	M,T	680
APXX00050530101□80	100	100kHz,0.1V	0.90	0.45	0.55	M,T	101
APXX00050530221□80	220	100kHz,0.1V	1.35	0.25	0.45	M,T	221
APXX00050530331□80	330	100kHz,0.1V	1.80	0.17	0.42	M,T	331

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

1. Operating temperature range －40℃～165℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient.
4. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   RDC: CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
   Isat:WK3255BQ+ WK3265B (or equivalent)
   Irms: WK3255BQ+ WK3265B (or equivalent)

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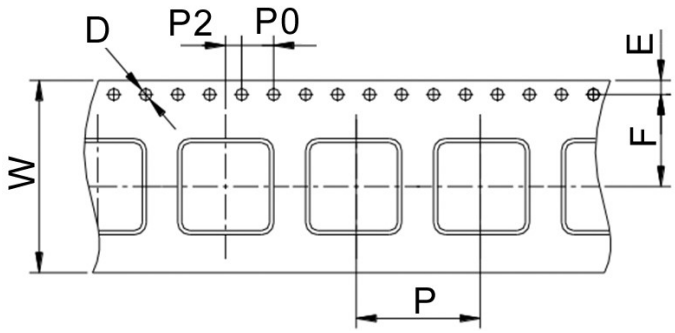
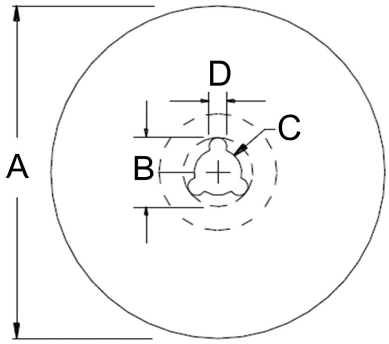
■ Packaging

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
APXX00040418	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
APXX00050530	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2000

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Power Inductor APCA Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Power Circuit | Shield | Wire Wound | Ferrite

Part Numbering

A	PCA	00	060645	1R0	T	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code

Dimensions Code (mm)		Inductance (uH)		Tolerance	
060645	6.0x6.3x4.5	1R0	1.0	M	±20%
070745	7.0x7.4x4.5	100	10	T	±30%
101065	10.3x10.0x6.5	101	100		
121280	12.5x12.3x8.0				

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Pulse a YAGEO company

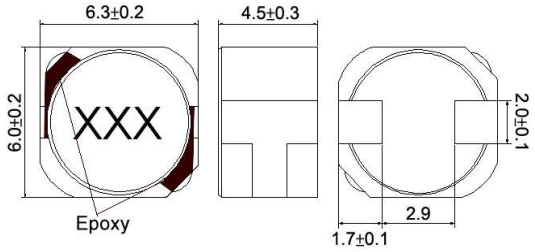
CHILISIN ELECTRONICS CORP.

Power Inductor APCA Series

Automotive
AEC-Q200

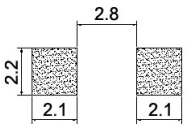
APCA00060645 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat(A) Typ(Max)	Irms (A)	Tolerance (±%)	Marking
APCA000606451R0□00	1.0	100 kHz,1 V	0.0143	6.7(6.0)	4.8	30	1R0
APCA000606451R5□00	1.5	100 kHz,1 V	0.0169	5.5(5.2)	4.5	30	1R5
APCA000606452R2□00	2.2	100 kHz,1 V	0.0195	4.2(3.6)	4.1	30	2R2
APCA000606453R3□00	3.3	100 kHz,1 V	0.0247	3.5(3.2)	3.7	30	3R3
APCA000606454R7□00	4.7	100 kHz,1 V	0.0299	3.1(2.5)	3.3	30	4R7
APCA000606456R8□00	6.8	100 kHz,1 V	0.0351	2.8(2.0)	3.1	30	6R8
APCA00060645100□00	10	100 kHz,1 V	0.042	2.1(1.7)	2.6	20	100
APCA00060645150□00	15	100 kHz,1 V	0.072	1.7(1.4)	2.0	20	150
APCA00060645220□00	22	100 kHz,1 V	0.09	1.4(1.1)	1.8	20	220
APCA00060645330□00	33	100 kHz,1 V	0.12	1.1(0.9)	1.6	20	330
APCA00060645470□00	47	100 kHz,1 V	0.156	0.97(0.78)	1.4	20	470
APCA00060645680□00	68	100 kHz,1 V	0.24	0.81(0.65)	1.1	20	680
APCA00060645101□00	100	100 kHz,1 V	0.384	0.61(0.55)	0.86	20	101
APCA00060645151□00	150	100 kHz,1 V	0.576	0.53(0.46)	0.72	20	151
APCA00060645221□00	220	100 kHz,1 V	0.864	0.47(0.36)	0.57	20	221
APCA00060645331□00	330	100 kHz,1 V	1.104	0.36(0.28)	0.49	20	331
APCA00060645471□00	470	100 kHz,1 V	1.56	0.28(0.25)	0.41	20	471

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

1. Operating temperature range －40℃～150℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. The actual use current is suggested not to be out of Isat*80%
4. Irms for a 40℃ temprature rise from 25℃ ambient.
5. Measure Equipment:
   L: HP4284+42841A
   RDC: Chroma 16502
   Isat: HP4284+42841A

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

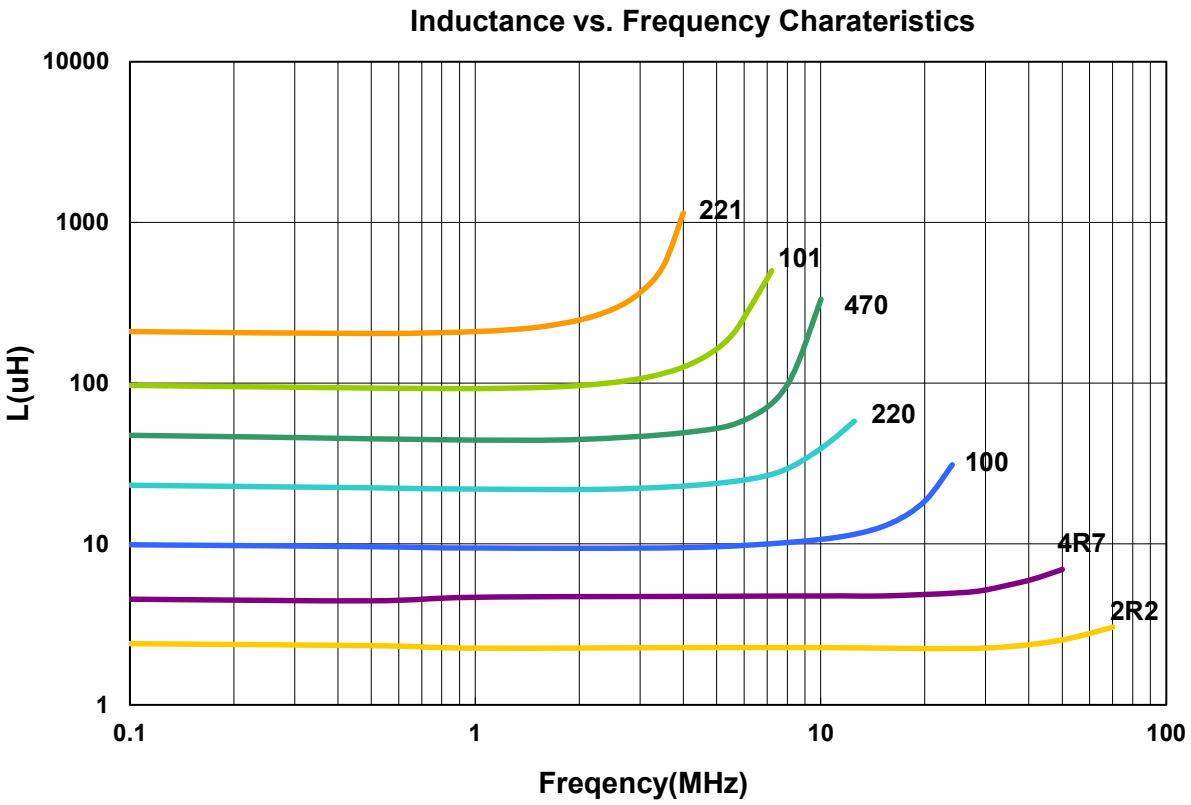
CHILISIN ELECTRONICS CORP.

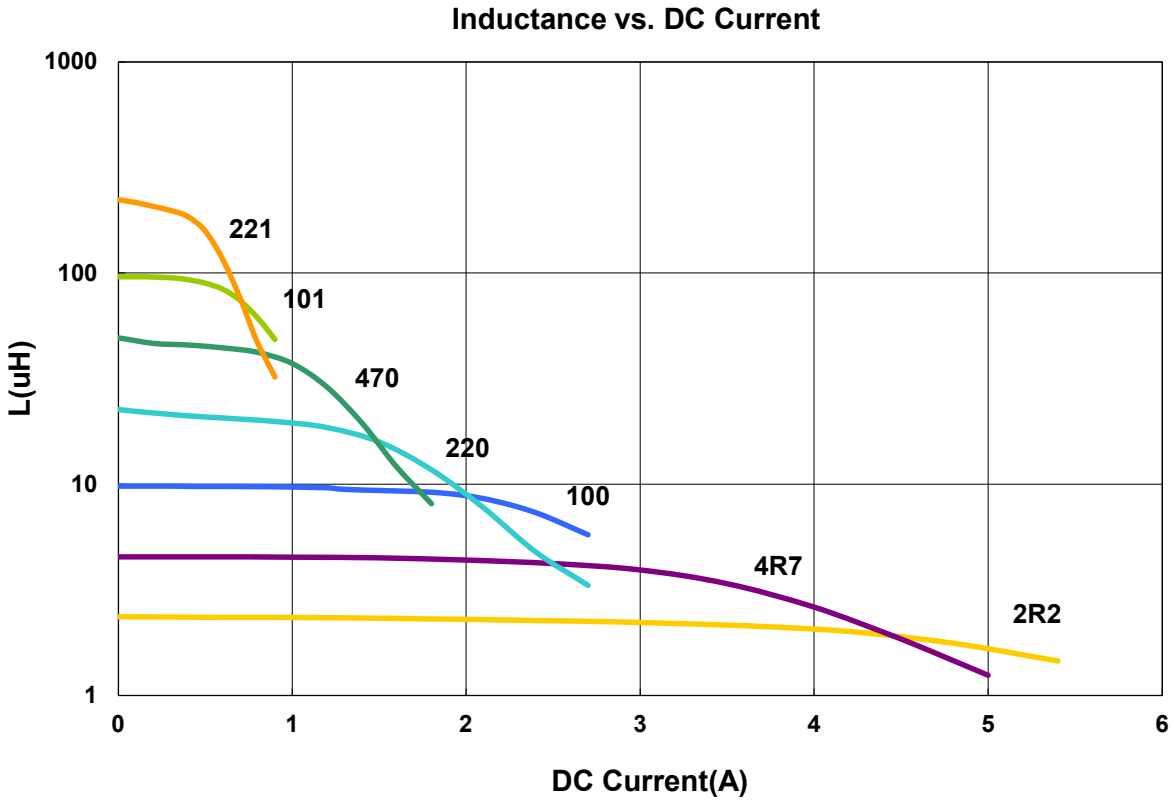
Power Inductor APCA Series

Automotive
AEC-Q200

APCA00060645 Type

■ Characteristics Graph





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Pulse a YAGEO company

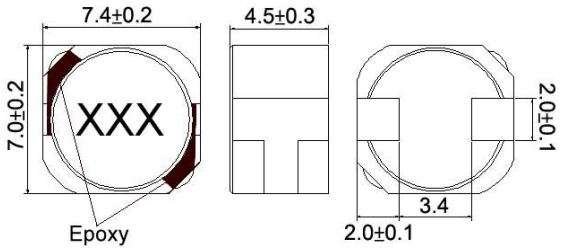
CHILISIN ELECTRONICS CORP.

Power Inductor APCA Series

Automotive
AEC-Q200

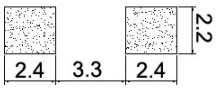
APCA00070745 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat(A) Typ(Max)	Irms (A)	Tolerance (±%)	Marking
APCA000707451R0□00	1.0	100 kHz,1 V	0.0117	9.3(7.6)	6.5	30	1R0
APCA000707451R5□00	1.5	100 kHz,1 V	0.013	7.8(6.2)	5.4	30	1R5
APCA000707452R2□00	2.2	100 kHz,1 V	0.0169	7.3(6.0)	5.1	30	2R2
APCA000707453R3□00	3.3	100 kHz,1 V	0.0208	5.8(4.6)	4.8	30	3R3
APCA000707454R7□00	4.7	100 kHz,1 V	0.0234	4.8(4.0)	4.1	30	4R7
APCA000707456R8□00	6.8	100 kHz,1 V	0.0264	3.6(3.0)	3.9	30	6R8
APCA00070745100□00	10	100 kHz,1 V	0.0396	3.2(2.6)	3.1	20	100
APCA00070745150□00	15	100 kHz,1 V	0.066	2.4(2.0)	2.6	20	150
APCA00070745220□00	22	100 kHz,1 V	0.0828	2.1(1.6)	2.2	20	220
APCA00070745330□00	33	100 kHz,1 V	0.116	1.6(1.3)	1.8	20	330
APCA00070745470□00	47	100 kHz,1 V	0.156	1.3(1.1)	1.7	20	470
APCA00070745680□00	68	100 kHz,1 V	0.204	1.08(0.95)	1.5	20	680
APCA00070745101□00	100	100 kHz,1 V	0.312	0.9(0.8)	1.05	20	101
APCA00070745151□00	150	100 kHz,1 V	0.516	0.8(0.65)	0.95	20	151
APCA00070745221□00	220	100 kHz,1 V	0.66	0.7(0.54)	0.75	20	221
APCA00070745331□00	330	100 kHz,1 V	0.96	0.55(0.45)	0.58	20	331
APCA00070745471□00	470	100 kHz,1 V	1.44	0.45(0.37)	0.46	20	471

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

1. Operating temperature range －40℃～150℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. The actual use current is suggested not to be out of Isat*80%
4. Irms for a 40℃ temprature rise from 25℃ ambient.
5. Measure Equipment:
   L: HP4284+42841A
   RDC: Chroma 16502
   Isat: HP4284+42841A

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Pulse a YAGEO company

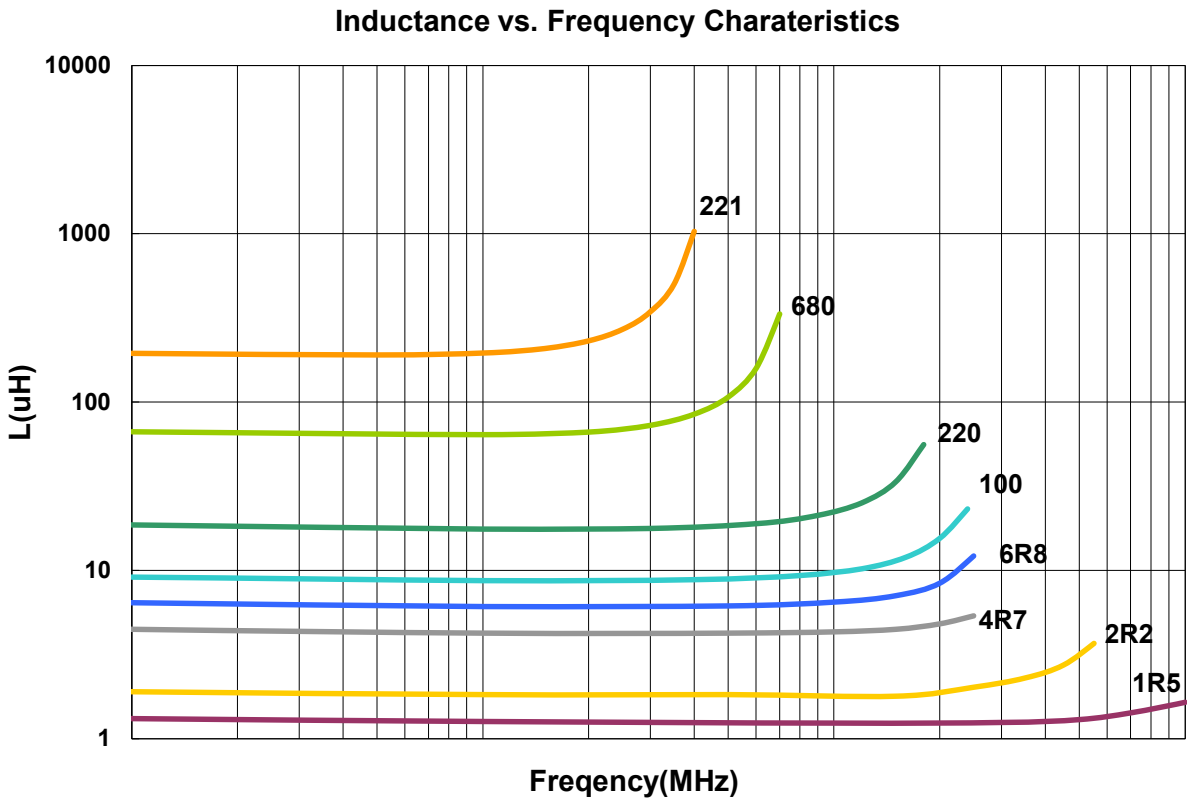
CHILISIN ELECTRONICS CORP.

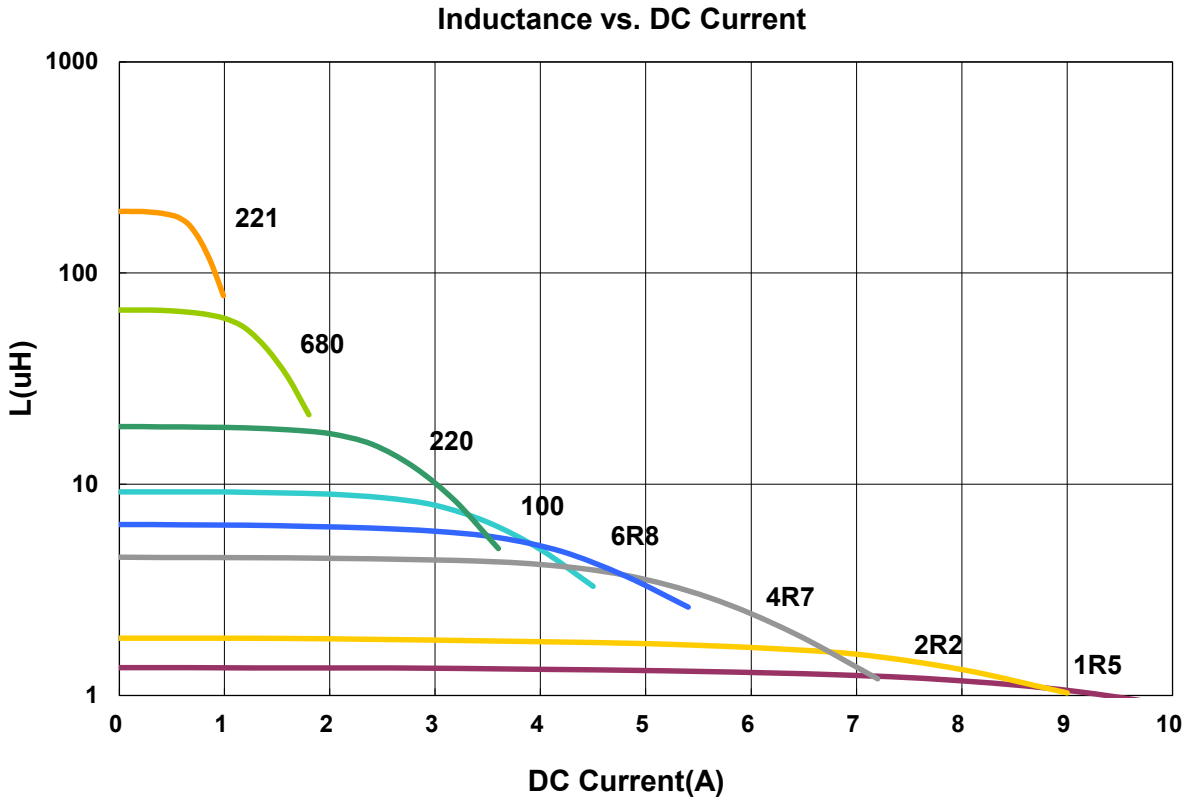
Power Inductor APCA Series

Automotive
AEC-Q200

APCA00070745 Type

■ Characteristics Graph





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Pulse a YAGEO company

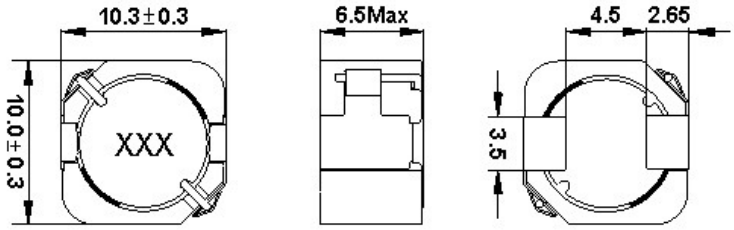
CHILISIN ELECTRONICS CORP.

Power Inductor APCA Series

Automotive
AEC-Q200

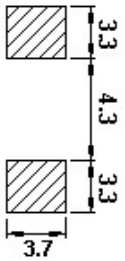
APCA00101065 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Tolerance (±%)	Marking
APCA001010652R2□80	2.2	100kHz,0.25V	7.1±30%	11	8.5	30	2R2
APCA001010653R3□80	3.3	100kHz,0.25V	8.5±30%	8.4	8.1	30	3R3
APCA001010654R7□80	4.7	100kHz,0.25V	11±30%	8	7	30	4R7
APCA001010656R8□80	6.8	100kHz,0.25V	13±30%	6.5	6.6	30	6R8
APCA00101065100□80	10	100kHz,0.25V	17±20%	5	5.8	20,30	100
APCA00101065150□80	15	100kHz,0.25V	30±20%	4.4	4.1	20,30	150
APCA00101065220□80	22	100kHz,0.25V	43±20%	3.6	3.3	20,30	220
APCA00101065330□80	33	100kHz,0.25V	61±20%	3.1	2.9	20,30	330
APCA00101065470□80	47	100kHz,0.25V	74±20%	2.35	2.6	20,30	470
APCA00101065680□80	68	100kHz,0.25V	91±20%	2.05	2.4	20,30	680
APCA00101065101□80	100	100kHz,0.25V	150±20%	1.65	1.9	20,30	101
APCA00101065151□80	150	100kHz,0.25V	240±20%	1.35	1.5	20,30	151
APCA00101065221□80	220	100kHz,0.25V	350±20%	1.1	1.2	20,30	221
APCA00101065331□80	330	100kHz,0.25V	445±20%	0.9	1.1	20,30	331
APCA00101065471□80	470	100kHz,0.25V	600±20%	0.75	0.9	20,30	471

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

1. Operating temperature range －40℃～165℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient.
4. Measure Equipment:
   L: HP4284+42841A
   RDC: Chroma 16502
   Isat:WK3255BQ+ WK3265B
   Irms: WK3255BQ+ WK3265B

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Pulse a YAGEO company

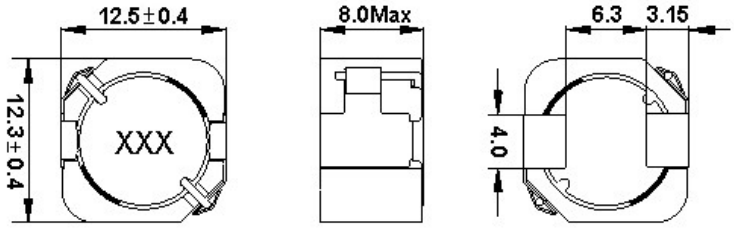
CHILISIN ELECTRONICS CORP.

Power Inductor APCA Series

Automotive
AEC-Q200

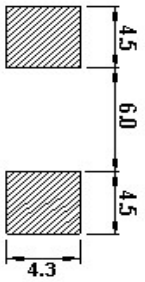
APCA00121280 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Tolerance (±%)	Marking
APCA001212801R5□80	1.5	100kHz,0.25V	5.5±30%	23.5	10.5	30	1R5
APCA001212802R2□80	2.2	100kHz,0.25V	6.3±30%	20	9.7	30	2R2
APCA001212803R3□80	3.3	100kHz,0.25V	7.7±30%	15	9.5	30	3R3
APCA001212804R7□80	4.7	100kHz,0.25V	8.7±30%	13	9	30	4R7
APCA001212806R8□80	6.8	100kHz,0.25V	10±20%	9.7	8.5	30	6R8
APCA00121280100□80	10	100kHz,0.25V	12±20%	9.2	7.7	20,30	100
APCA00121280150□80	15	100kHz,0.25V	24±20%	7.4	5.1	20,30	150
APCA00121280220□80	22	100kHz,0.25V	27±20%	5.8	4.5	20,30	220
APCA00121280330□80	33	100kHz,0.25V	52±20%	4.5	3.6	20,30	330
APCA00121280470□80	47	100kHz,0.25V	66±20%	4.2	3.2	20,30	470
APCA00121280680□80	68	100kHz,0.25V	90±20%	3.6	2.7	20,30	680
APCA00121280101□80	100	100kHz,0.25V	110±20%	2.9	2.6	20,30	101
APCA00121280151□80	150	100kHz,0.25V	170±20%	2.4	2.1	20,30	151
APCA00121280221□80	220	100kHz,0.25V	280±20%	1.95	1.6	20,30	221
APCA00121280331□80	330	100kHz,0.25V	410±20%	1.6	1.25	20,30	331
APCA00121280471□80	470	100kHz,0.25V	590±20%	1.3	1.1	20,30	471

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

1. Operating temperature range －40℃～165℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient.
4. Measure Equipment:
   L: HP4284+42841A
   RDC: Chroma 16502
   Isat:WK3255BQ+ WK3265B
   Irms: WK3255BQ+ WK3265B

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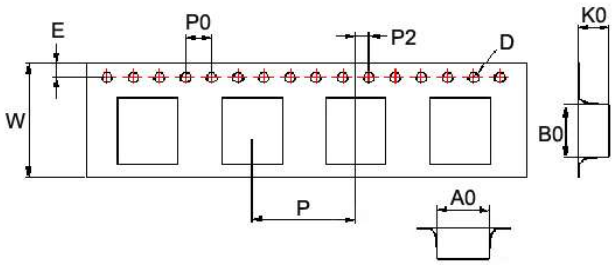
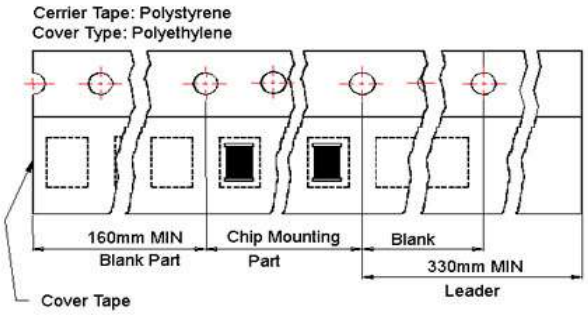
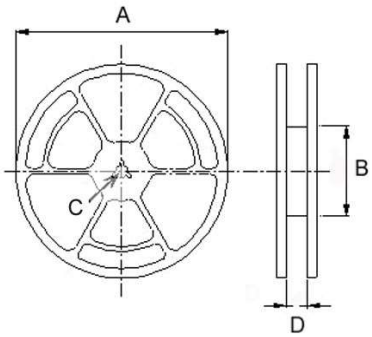
■ Packaging

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
APCA00060645	6.9	6.3	5	1.55	1.75	16	12	4	2	330	100	13	16	1000
APCA00070745	7.7	7.35	5	1.55	1.75	16	12	4	2	330	100	13	16	1000
APCA00101065	10.4	10.65	6.7	1.50	1.75	24	16	4	2	330	100	13	24	500
APCA00121280	12.8	13	8.7	1.50	1.75	24	16	4	2	330	100	13	24	400

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Power Inductor APCP Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Power Circuit | Shield | Wire Wound | Ferrite

■ Part Numbering

A	PCP	00	070738	220	M	80
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			070738 7.6x7.6x3.8	1R0 1	M ±20%	80
			070746 7.6x7.6x4.5	100 10	T ±30%	
			121281 12x12x8.1	101 100		

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Pulse a YAGEO company

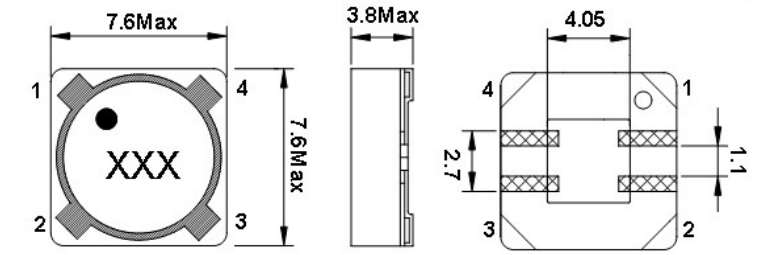
CHILISIN ELECTRONICS CORP.

Power Inductor APCP Series

Automotive
AEC-Q200

APCP00070738 Type

■ Dimensions



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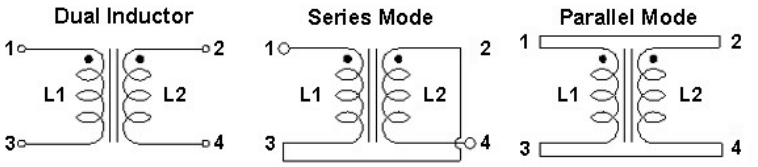
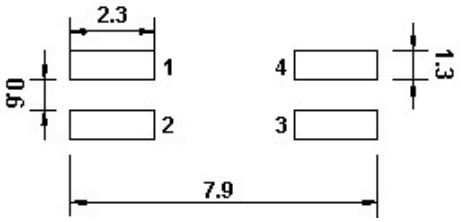


unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	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	
APCP000707383R3M80	3.3	3.3	0.0316	4.22	3.31	13.6	0.182	2.11	1.660	●3R3
APCP000707384R7M80	4.7	4.7	0.0406	3.78	3.09	17.1	0.242	1.89	1.550	●4R7
APCP000707386R8M80	6.8	6.8	0.0658	3.12	2.55	25.5	0.285	1.56	1.280	●6R8
APCP000707388R2M80	8.2	8.2	0.0772	2.66	2.19	34.1	0.306	1.33	1.100	●8R2
APCP00070738100M80	10	10	0.0826	2.47	2.08	39.6	0.342	1.24	1.040	●100
APCP00070738150M80	15	15	0.1190	2.05	1.83	59.6	0.470	1.03	0.916	●150
APCP00070738220M80	22	22	0.1500	1.67	1.62	89.5	0.620	0.83	0.811	●220
APCP00070738330M80	33	33	0.2400	1.35	1.31	140.5	1.000	0.68	0.653	●330
APCP00070738470M80	47	47	0.3380	1.14	1.08	194.2	1.280	0.57	0.542	●470
APCP00070738680M80	68	68	0.5070	0.96	0.89	289.3	1.920	0.48	0.444	●680
APCP00070738820M80	82	82	0.6100	0.89	0.86	324.7	2.280	0.44	0.430	●820
APCP00070738101M80	100	100	0.7150	0.79	0.73	397.6	2.640	0.39	0.367	●101
APCP00070738151M80	150	150	0.9860	0.65	0.58	608.2	3.630	0.32	0.289	●151
APCP00070738221M80	220	220	1.4800	0.53	0.52	922.6	5.500	0.27	0.260	●221
APCP00070738331M80	330	330	2.1600	0.44	0.42	1335	8.250	0.22	0.211	●331
APCP00070738471M80	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%

1. Operating temperature range －40℃～165℃(Including self - temperature rise)
2. Test Frequency : 100kHz,0.25V
3. Dual:L1(1-3) ,L2(2-4) Parallel:(1,2-3,4) Series:(1-4)tie(2-3)
4. Isat for Inductance drop 30% from its value without current
5. Irms for a 40℃ temprature rise from 25℃ ambient with current
6. Turns Ratio(1-3):(2-4) 1:1
7. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   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

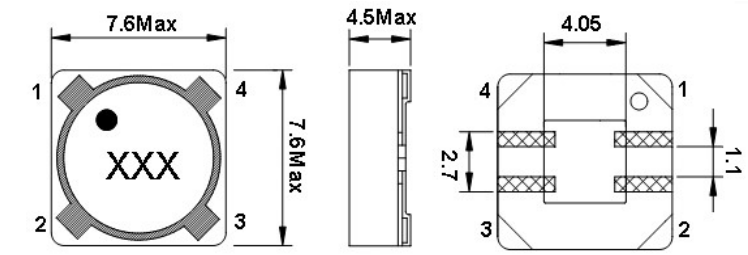
CHILISIN ELECTRONICS CORP.

Power Inductor APCP Series

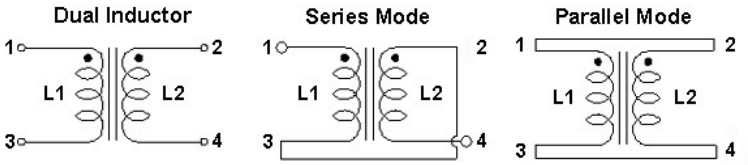
Automotive AEC-Q200

APCP00070746 Type

■ Dimensions

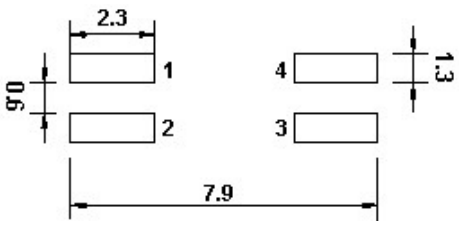


SCHEMATIC



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance L1,2(uH)	Parallel Ratings				Series Ratings				Marking
		OCL (uH)±20%	RDC (Ω)Max.	Isat (A)Typ	Irms (A)Typ	OCL (uH)±20%	RDC (Ω)Max.	Isat (A)Typ	Irms (A)Typ	
APCP000707463R3M80	3.3	3.396	0.0183	5.40	3.94	13.6	0.0732	2.70	1.970	●3R3
APCP000707464R7M80	4.7	5.182	0.0254	4.37	3.34	20.7	0.1020	2.19	1.670	●4R7
APCP000707466R8M80	6.8	7.344	0.0418	3.67	2.60	29.4	0.1670	1.84	1.300	●6R8
APCP000707468R2M80	8.2	8.566	0.0441	3.40	2.53	34.3	0.1770	1.70	1.270	●8R2
APCP00070746100M80	10	9.882	0.0489	3.17	2.41	39.5	0.1960	1.58	1.200	●100
APCP00070746150M80	15	16.09	0.0637	2.48	2.11	64.4	0.2550	1.24	1.050	●150
APCP00070746220M80	22	21.73	0.0925	2.13	1.75	86.9	0.3710	1.07	0.874	●220
APCP00070746330M80	33	33.01	0.1430	1.73	1.41	132.0	0.5740	0.87	0.702	●330
APCP00070746470M80	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%

1. Operating temperature range －40℃～165℃(Including self - temperature rise)
2. Test Frequency : 100kHz,0.25V
3. Dual:L1(1-3) ,L2(2-4) Parallel:(1,2-3,4) Series:(1-4)tie(2-3)
4. Isat for Inductance drop 30% from its value without current
5. Irms for a 40℃ temprature rise from 25℃ ambient with current
6. Turns Ratio(1-3):(2-4) 1:1
7. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   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

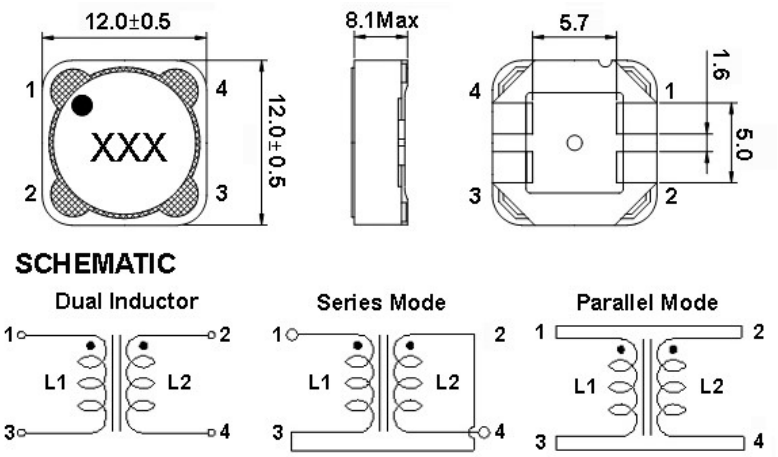
CHILISIN ELECTRONICS CORP.

Power Inductor APCP Series

Automotive
AEC-Q200

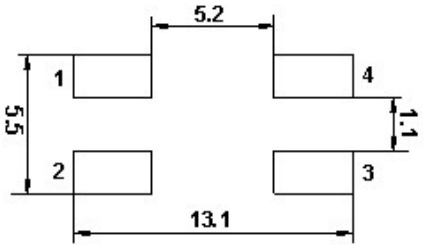
APCP00121281 Type

Dimensions



unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

Part No.	Inductance L1,2(uH)	Parallel Ratings				Series Ratings				Marking
		OCL (uH)±20%	RDC (Ω)Max.	Isat (A)Typ	Irms (A)Typ	OCL (uH)±20%	RDC (Ω)Max.	Isat (A)Typ	Irms (A)Typ	
APCP001212812R2T80	2.2	2.2±30%	0.0092	25.50	12.50	8.8±30%	0.0338	12.70	6.23	●2R2
APCP001212813R3T80	3.3	3.3±30%	0.0110	21.50	10.40	13.2±30%	0.0400	10.80	5.23	●3R3
APCP001212814R7T80	4.7	4.7±30%	0.0135	16.50	8.25	18.8±30%	0.0500	8.24	4.13	●4R7
APCP001212816R8M80	6.8	6.8±20%	0.0183	13.30	7.34	27.2±20%	0.0656	6.67	3.67	●6R8
APCP001212818R2M80	8	8.2±20%	0.0191	12.20	6.32	32.8±20%	0.0714	6.09	3.16	●8R2
APCP00121281100M80	10	10±20%	0.0241	11.20	6.04	40±20%	0.0921	5.6	3.02	●100
APCP00121281150M80	15	15±20%	0.0333	9.66	5.03	60±20%	0.1290	4.83	2.51	●150
APCP00121281220M80	22	22±20%	0.0503	7.57	4.00	88±20%	0.1920	3.78	2.00	●220
APCP00121281330M80	33	33±20%	0.0664	6.22	3.23	132±20%	0.2650	3.11	1.61	●330
APCP00121281470M80	47	47±20%	0.0898	5.28	2.95	188±20%	0.3530	2.64	1.47	●470
APCP00121281680M80	68	68±20%	0.1230	4.44	2.44	272±20%	0.4690	2.22	1.22	●680
APCP00121281820M80	82	82±20%	0.1530	4.06	2.09	328±20%	0.5780	2.03	1.04	●820
APCP00121281101M80	100	100±20%	0.1750	3.64	1.96	400±20%	0.7010	1.82	0.98	●101
APCP00121281151M80	150	150±20%	0.2610	3.01	1.59	600±20%	1.0130	1.51	0.796	●151
APCP00121281221M80	220	220±20%	0.3430	2.43	1.29	880±20%	1.3800	1.22	0.645	●221
APCP00121281331M80	330	330±20%	0.5400	2.01	1.04	1320±20%	2.1720	1.01	0.522	●331
APCP00121281471M80	470	470±20%	0.8650	1.68	0.85	1880±20%	3.3000	0.838	0.427	●471
APCP00121281681M80	680	680±20%	1.2960	1.39	0.76	2720±20%	4.8880	0.697	0.380	●681
APCP00121281821M80	820	820±20%	1.6320	1.27	0.65	3280±20%	5.8960	0.633	0.325	●821
APCP00121281102M80	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%

1. Operating temperature range －40℃～165℃(Including self - temperature rise)
2. Test Frequency : 100kHz,0.25V
3. Dual:L1(1-3) ,L2(2-4) Parallel:(1,2-3,4) Series:(1-4)tie(2-3)
4. Isat for Inductance drop 30% from its value without current
5. Irms for a 40℃ temprature rise from 25℃ ambient with current
6. Turns Ratio(1-3):(2-4) 1:1
7. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   RDC: CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
   Isat:WK3255BQ+ WK3265B (or equivalent)
   Irms: WK3255BQ+ WK3265B (or equivalent)

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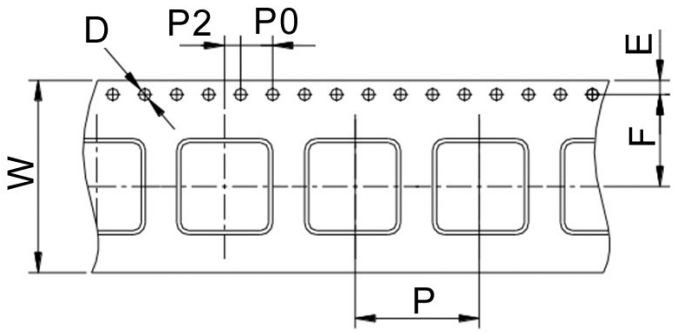
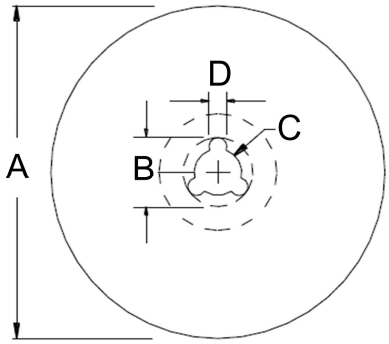
■ Packaging

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
APCP00070738	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
APCP00070746	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
APCP00121281	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Power Inductor APCF Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Power Circuit | Shield | Wire Wound | Ferrite

Part Numbering

A	PCF	00	070745	1R0	M	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			070732 7x7x3.2	1R0 1	M ±20%	00
			070745 7x7x4.5	100 10	T ±30%	Y0
			101045 10x10x4.5	101 100		
			131365 12.5x12.5x6.5			
			131375 12.5x12.5x7.5			

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Pulse a YAGEO company

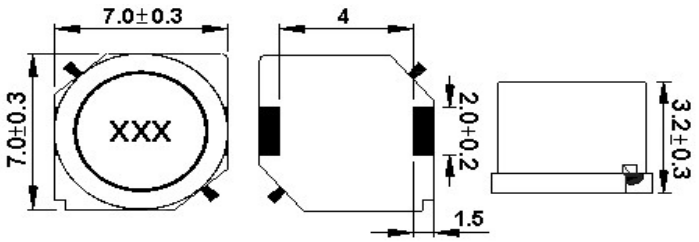
CHILISIN ELECTRONICS CORP.

Power Inductor APCF Series

Automotive
AEC-Q200

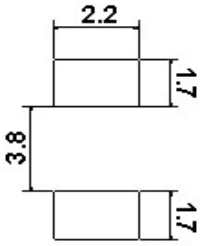
APCF00070732 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±20%	Isat (A)Max	Irms (A)Typ	Tolerance (±%)	Marking
APCF000707321R5□Y0	1.5	100kHz,0.5V	0.018	3.4	3.4	20,30	1R5
APCF000707322R2□Y0	2.2	100kHz,0.5V	0.021	2.8	2.8	20,30	2R2
APCF000707323R3□Y0	3.3	100kHz,0.5V	0.023	1.9	1.9	20,30	3R3
APCF000707324R7□Y0	4.7	100kHz,0.5V	0.036	1.7	1.7	20,30	4R7
APCF000707326R8□Y0	6.8	100kHz,0.5V	0.041	1.6	1.6	20,30	6R8
APCF00070732100□Y0	10	100kHz,0.5V	0.053	1.4	1.4	20,30	100
APCF00070732150□Y0	15	100kHz,0.5V	0.075	1.1	1.1	20,30	150
APCF00070732220□Y0	22	100kHz,0.5V	0.11	0.96	0.96	20,30	220
APCF00070732330□Y0	33	100kHz,0.5V	0.16	0.75	0.75	20,30	330
APCF00070732470□Y0	47	100kHz,0.5V	0.24	0.67	0.67	20,30	470
APCF00070732680□Y0	68	100kHz,0.5V	0.31	0.59	0.59	20,30	680
APCF00070732101□Y0	100	100kHz,0.5V	0.45	0.45	0.45	10,20	101
APCF00070732151□Y0	150	100kHz,0.5V	0.65	0.37	0.37	10,20	151
APCF00070732221□Y0	220	100kHz,0.5V	1.05	0.29	0.29	10,20	221
APCF00070732331□Y0	330	100kHz,0.5V	1.67	0.22	0.22	10,20	331
APCF00070732471□Y0	470	100kHz,0.5V	2.05	0.2	0.2	10,20	471
APCF00070732681□Y0	680	100kHz,0.5V	3.15	0.16	0.16	10,20	681
APCF00070732102□Y0	1000	100kHz,0.5V	4.78	0.13	0.13	10,20	102

Note: When ordering, please specify tolerance code. Tolerance: K=±10% / M=±20% / T=±30%

1. Operating temperature range －40℃～165℃(Including self - temperature rise)
2. Isat for Inductance drop 15% from its value without current
3. Irms for a 25℃ temprature rise from 25℃ ambient with current
4. Rated DC Current: The less value which is Isat or Irms
5. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   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

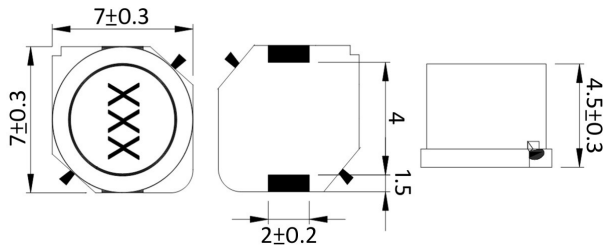
CHILISIN ELECTRONICS CORP.

Power Inductor APCF Series

Automotive
AEC-Q200

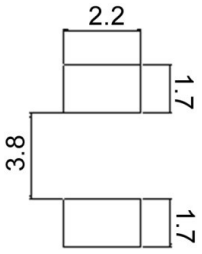
APCF00070745 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±20%	Isat (A)Max	Irms (A)Typ	Tolerance (±%)	Marking
APCF000707451R0□00	1.0	100kHz,0.5V	0.011	4.5	4.5	20,30	1R0
APCF000707452R2□00	2.2	100kHz,0.5V	0.015	3.4	3.3	20,30	2R2
APCF000707453R3□00	3.3	100kHz,0.5V	0.02	2.5	2.3	20,30	3R3
APCF000707454R7□00	4.7	100kHz,0.5V	0.03	2	2.1	20,30	4R7
APCF000707456R8□00	6.8	100kHz,0.5V	0.039	1.7	1.74	20,30	6R8
APCF00070745100□00	10	100kHz,0.5V	0.036	1.3	1.78	20,30	100
APCF00070745150□00	15	100kHz,0.5V	0.052	1.1	1.53	20,30	150
APCF00070745220□00	22	100kHz,0.5V	0.061	0.9	1.34	20,30	220
APCF00070745330□00	33	100kHz,0.5V	0.096	0.82	1.09	20,30	330
APCF00070745470□00	47	100kHz,0.5V	0.125	0.75	0.92	20,30	470
APCF00070745680□00	68	100kHz,0.5V	0.175	0.6	0.77	20,30	680
APCF00070745101□00	100	100kHz,0.5V	0.25	0.5	0.65	10,20	101
APCF00070745151□00	150	100kHz,0.5V	0.34	0.4	0.55	10,20	151
APCF00070745221□00	220	100kHz,0.5V	0.52	0.33	0.45	10,20	221
APCF00070745331□00	330	100kHz,0.5V	0.74	0.25	0.37	10,20	331
APCF00070745471□00	470	100kHz,0.5V	1.05	0.22	0.31	10,20	471
APCF00070745681□00	680	100kHz,0.5V	1.48	0.2	0.27	10,20	681
APCF00070745102□00	1000	100kHz,0.5V	2.28	0.14	0.25	10,20	102

Note: When ordering, please specify tolerance code. Tolerance: K=±10% / M=±20% / T=±30%

1. Operating temperature range －40℃～165℃(Including self - temperature rise)
2. Isat for Inductance drop 15% from its value without current
3. Irms for a 25℃ temprature rise from 25℃ ambient with current
4. Rated DC Current: The less value which is Isat or Irms
5. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   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.

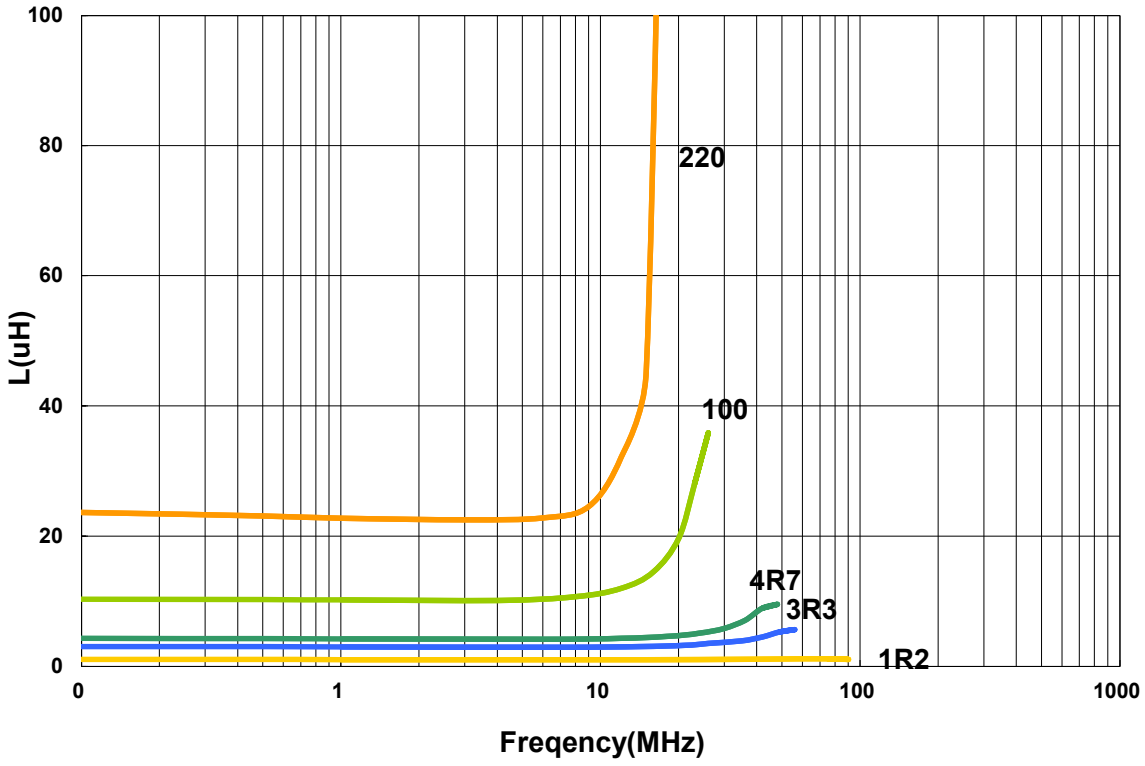
Power Inductor APCF Series

Automotive
AEC-Q200

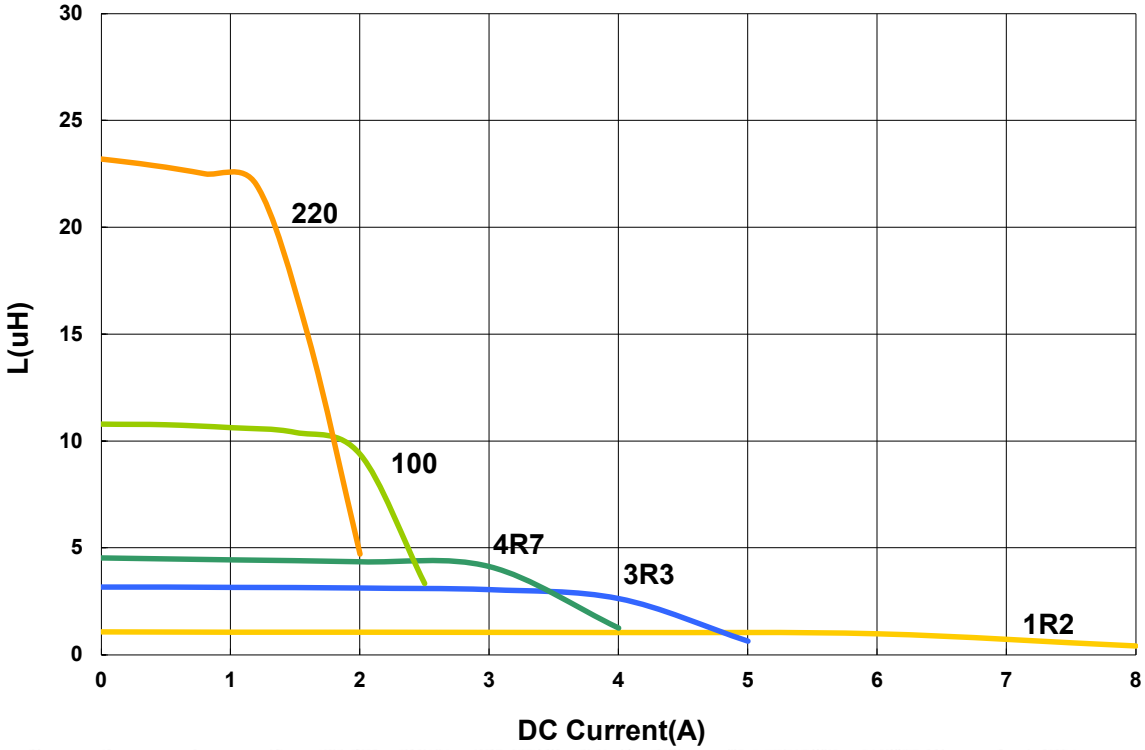
APCF00070745 Type

■ Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current



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Pulse a YAGEO company

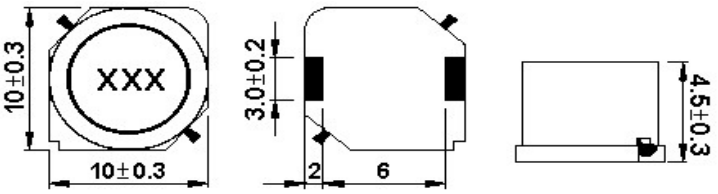
CHILISIN ELECTRONICS CORP.

Power Inductor APCF Series

Automotive
AEC-Q200

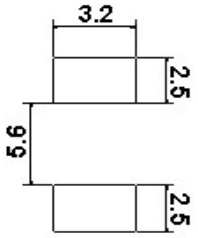
APCF00101045 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±20%	Isat (A)Typ	Irms (A)Typ	Tolerance (±%)	Marking
APCF001010451R5□Y0	1.5	100kHz,0.25V	0.0118	7.5	6	30	1R5
APCF001010453R3□Y0	3.3	100kHz,0.25V	0.0161	4.9	3.7	30	3R3
APCF001010454R7□Y0	4.7	100kHz,0.25V	0.0198	4.2	3.5	20,30	4R7
APCF001010455R6□Y0	5.6	100kHz,0.25V	0.022	3.8	3.2	30	5R6
APCF00101045100□Y0	10	100kHz,0.25V	0.0364	3	2.5	20,30	100
APCF00101045150□Y0	15	100kHz,0.25V	0.0472	2.4	2.2	20,30	150
APCF00101045220□Y0	22	100kHz,0.25V	0.0591	2.1	1.9	20,30	220
APCF00101045330□Y0	33	100kHz,0.25V	0.0815	1.6	1.7	20,30	330
APCF00101045470□Y0	47	100kHz,0.25V	0.1	1.4	1.5	20,30	470
APCF00101045680□Y0	68	100kHz,0.25V	0.14	1.2	1.3	20,30	680
APCF00101045101□Y0	100	100kHz,0.25V	0.2	1	1.1	20,30	101
APCF00101045151□Y0	150	100kHz,0.25V	0.35	0.79	0.81	20,30	151
APCF00101045221□Y0	220	100kHz,0.25V	0.47	0.65	0.7	20,30	221
APCF00101045331□Y0	330	100kHz,0.25V	0.68	0.54	0.58	20,30	331
APCF00101045471□Y0	470	100kHz,0.25V	1.03	0.47	0.47	20,30	471
APCF00101045681□Y0	680	100kHz,0.25V	1.6	0.38	0.38	20,30	681
APCF00101045102□Y0	1000	100kHz,0.25V	2.8	0.32	0.29	20,30	102
APCF00101045152□Y0	1500	100kHz,0.25V	3.4	0.22	0.26	20,30	152

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

1. Operating temperature range －40℃～165℃(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current
3. Irms for a 40°C temprature rise from 25°C ambient with current
4. Rated DC Current: The less value which is Isat or Irms
5. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   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

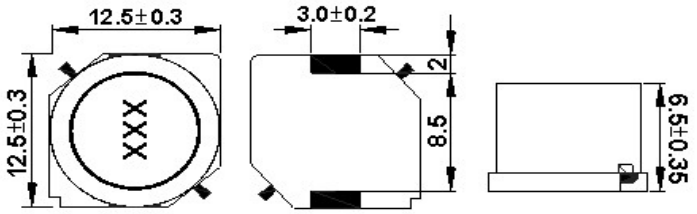
CHILISIN ELECTRONICS CORP.

Power Inductor APCF Series

Automotive
AEC-Q200

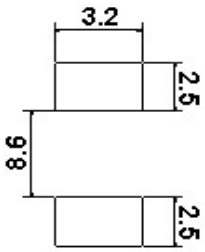
APCF00131365 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±20%	Isat (A)Max	Irms (A)Typ	Tolerance (±%)	Marking
APCF001313652R0□Y0	2.0	100kHz,0.5V	0.0117	10	6.2	30	2R0
APCF001313654R2□Y0	4.2	100kHz,0.5V	0.015	7.3	5.5	30	4R2
APCF001313657R0□Y0	7.0	100kHz,0.5V	0.0177	5.7	5	30	7R0
APCF00131365100□Y0	10.0	100kHz,0.5V	0.0202	5	4.8	20,30	100
APCF00131365150□Y0	15	100kHz,0.5V	0.0237	4.2	4.4	20,30	150
APCF00131365220□Y0	22	100kHz,0.5V	0.0316	3.5	3.8	20,30	220
APCF00131365330□Y0	33	100kHz,0.5V	0.0406	2.8	3.4	20,30	330
APCF00131365470□Y0	47	100kHz,0.5V	0.0578	2.4	2.8	20,30	470
APCF00131365680□Y0	68	100kHz,0.5V	0.0787	2	2.4	20,30	680
APCF00131365101□Y0	100	100kHz,0.5V	0.123	1.6	1.9	20,30	101
APCF00131365221□Y0	220	100kHz,0.5V	0.273	1	1.2	20,30	221
APCF00131365102□Y0	1000	100kHz,0.5V	1.1	0.3	0.35	20,30	102

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

1. Operating temperature range －40℃～165℃(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current
3. Irms for a 40°C temprature rise from 25°C ambient with current
4. Rated DC Current: The less value which is Isat or Irms
5. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   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

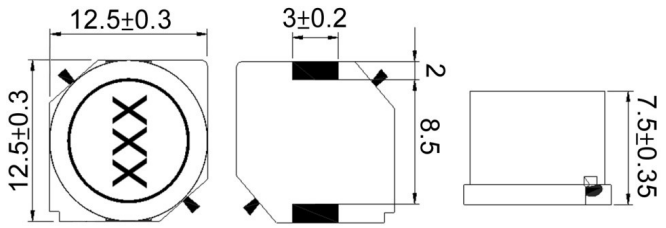
CHILISIN ELECTRONICS CORP.

Power Inductor APCF Series

Automotive
AEC-Q200

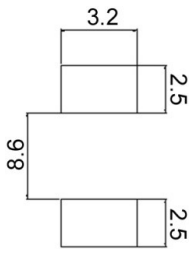
APCF00131375 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±20%	Isat (A)Max	Irms (A)Typ	Tolerance (±%)	Marking
APCF001313751R2□00	1.2	100kHz,0.5V	0.0069	13	8.2	30	1R2
APCF001313752R7□00	2.7	100kHz,0.5V	0.0094	10	7	30	2R7
APCF001313753R9□00	3.9	100kHz,0.5V	0.0104	9	6.7	30	3R9
APCF001313755R6□00	5.6	100kHz,0.5V	0.0116	7.8	6.3	30	5R6
APCF001313756R8□00	6.8	100kHz,0.5V	0.0131	7.2	5.9	30	6R8
APCF00131375100□00	10	100kHz,0.5V	0.0156	5.5	5.4	20,30	100
APCF00131375150□00	15	100kHz,0.5V	0.0184	4.7	5	20,30	150
APCF00131375220□00	22	100kHz,0.5V	0.0263	4	4	20,30	220
APCF00131375330□00	33	100kHz,0.5V	0.0395	3.2	3.4	20,30	330
APCF00131375470□00	47	100kHz,0.5V	0.0528	2.7	3	20,30	470
APCF00131375680□00	68	100kHz,0.5V	0.0778	2	2.4	20,30	680
APCF00131375101□00	100	100kHz,0.5V	0.125	1.9	1.9	20,30	101
APCF00131375151□00	150	100kHz,0.5V	0.175	1.5	1.6	20,30	151
APCF00131375221□00	220	100kHz,0.5V	0.258	1.3	1.3	20,30	221

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

1. Operating temperature range －40℃～165℃(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Rated DC Current: The less value which is Isat or Irms
5. Measure Equipment:
   L: HP4284A PRECISION LCR METER (or equivalent)
   RDC: CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
   Isat:WK3255BQ+ WK3265B (or equivalent)
   Irms: WK3255BQ+ WK3265B (or equivalent)

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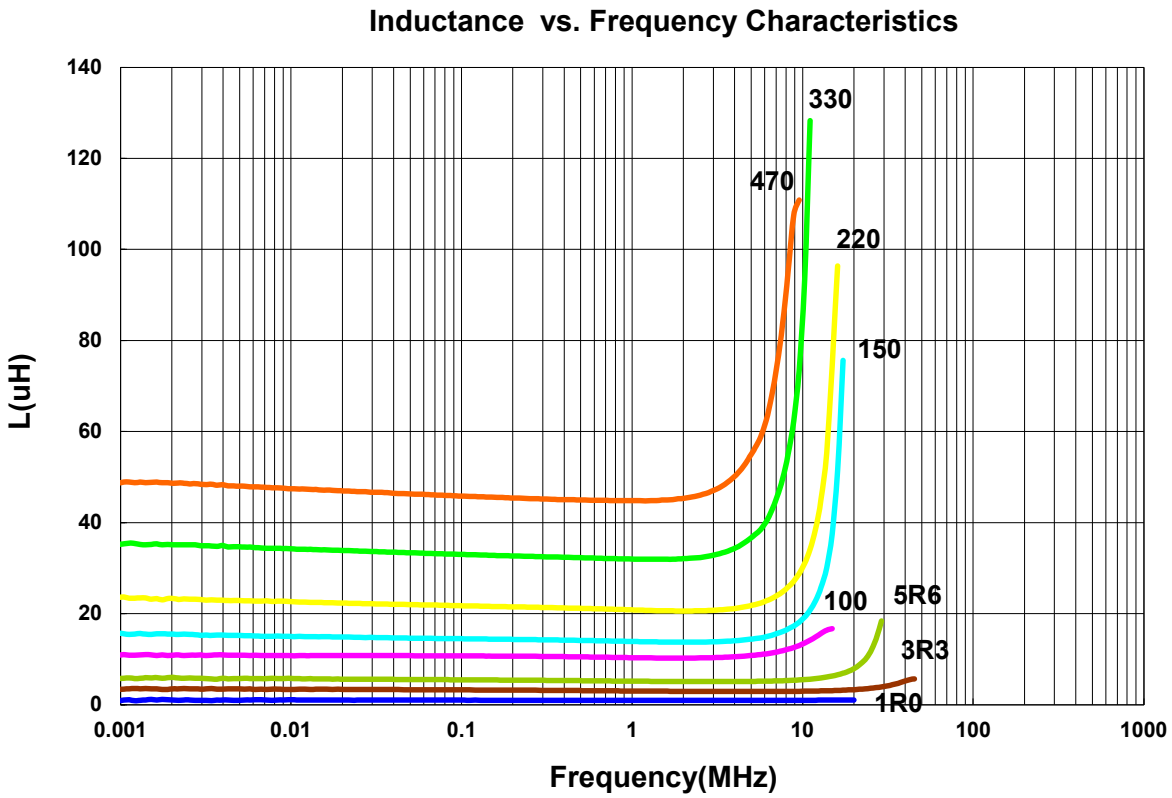
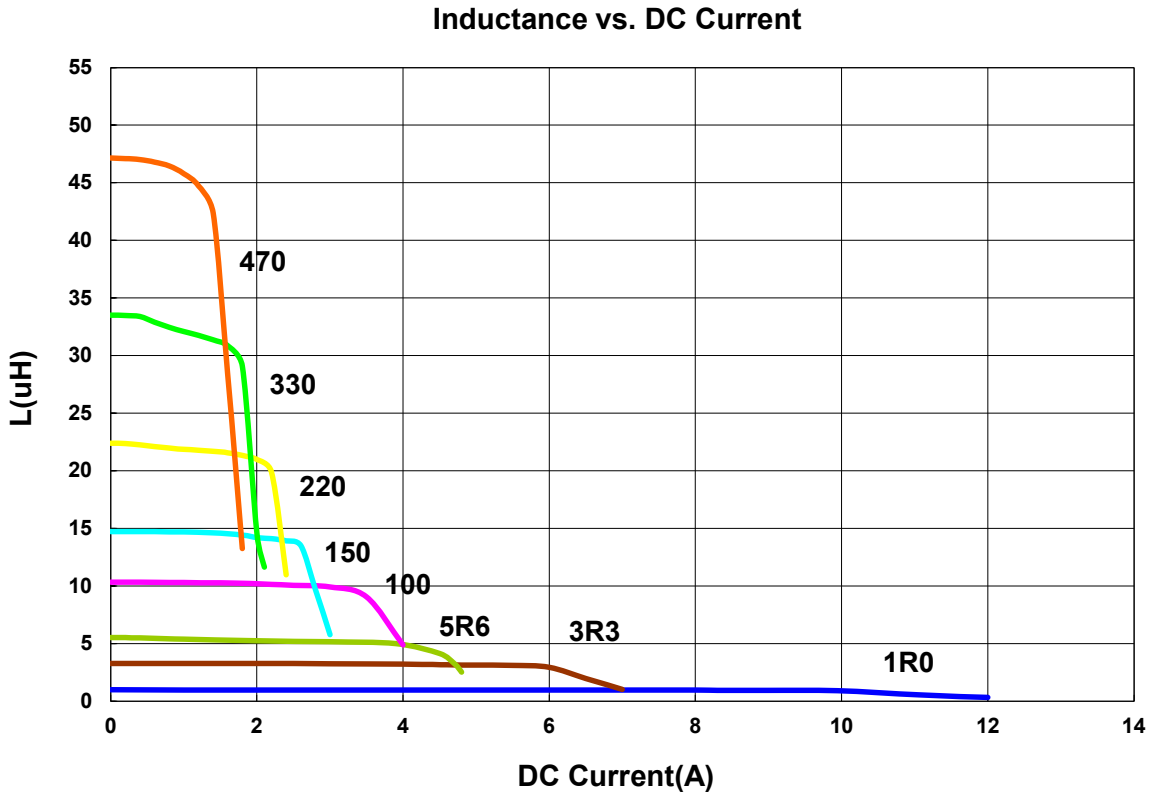
Power Inductor APCF Series

Automotive
AEC-Q200

APCF00131375 Type

■ Characteristics Graph





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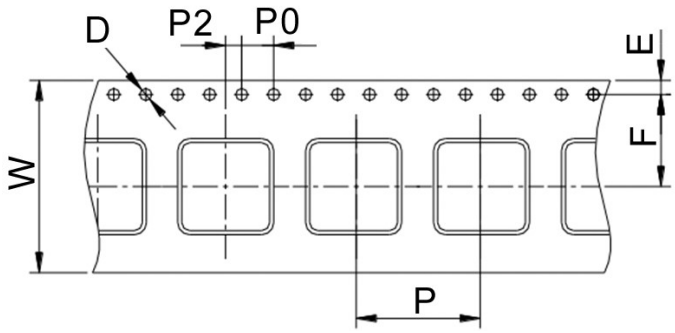
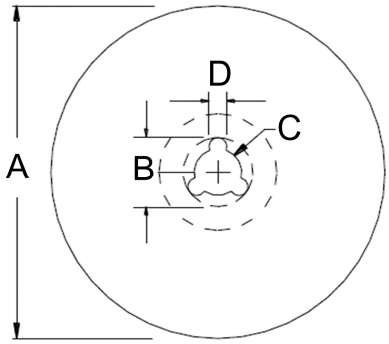
■ Packaging

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
APCF00070732	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
APCF00070745	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
APCF00101045	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500
APCF00131365	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500
APCF00131375	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Power Inductor APSA Series

Automotive
AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Power Circuit | Shield | Wire Wound | Ferrite

Part Numbering

A	PSA	00	131358	100	M	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code

Dimensions Code (mm)	
060630	6.3x6.3x3.0
070748	7.3x7.3x4.8
070758	7.3x7.3x5.8
131358	12.5x12.5x5.8

Inductance (uH)	
6R0	6.0
100	10
101	100

Tolerance	
M	±20%
T	±30%

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Pulse a YAGEO company

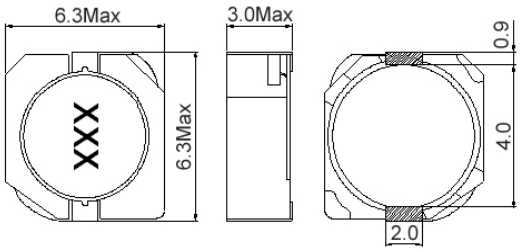
CHILISIN ELECTRONICS CORP.

Power Inductor APSA Series

Automotive
AEC-Q200

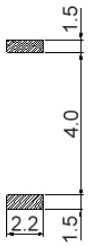
APSA00060630 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	SRF (MHz)Min	RDC (mΩ)Max.	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APSA000606306R8□00	6.8	100 kHz,1 V	35	42	1.50	2.20	20	6R8
APSA00060630100□00	10	100 kHz,1 V	20	63.8	1.30	1.80	20	100
APSA00060630150□00	15	100 kHz,1 V	15	89.4	1.00	1.40	20	150
APSA00060630220□00	22	100 kHz,1 V	10	124	0.77	1.30	20	220
APSA00060630330□00	33	100 kHz,1 V	7	177	0.69	1.10	20	330
APSA00060630470□00	47	100 kHz,1 V	5	252	0.59	0.92	20	470
APSA00060630680□00	68	100 kHz,1 V	4	348	0.50	0.78	20	680
APSA00060630101□00	100	100 kHz,1 V	4	516	0.42	0.64	20	101
APSA00060630151□00	150	100 kHz,1 V	4	780	0.34	0.50	20	151
APSA00060630221□00	220	100 kHz,1 V	3.2	1170	0.26	0.38	20	221

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

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current.
3. Irms for a 25℃ temprature rise from 25℃ ambient.
4. Measure Equipment:
   L: WK6500B+WK6565
   RDC: Chroma 16502
   Isat: WK3260B+WK3265B

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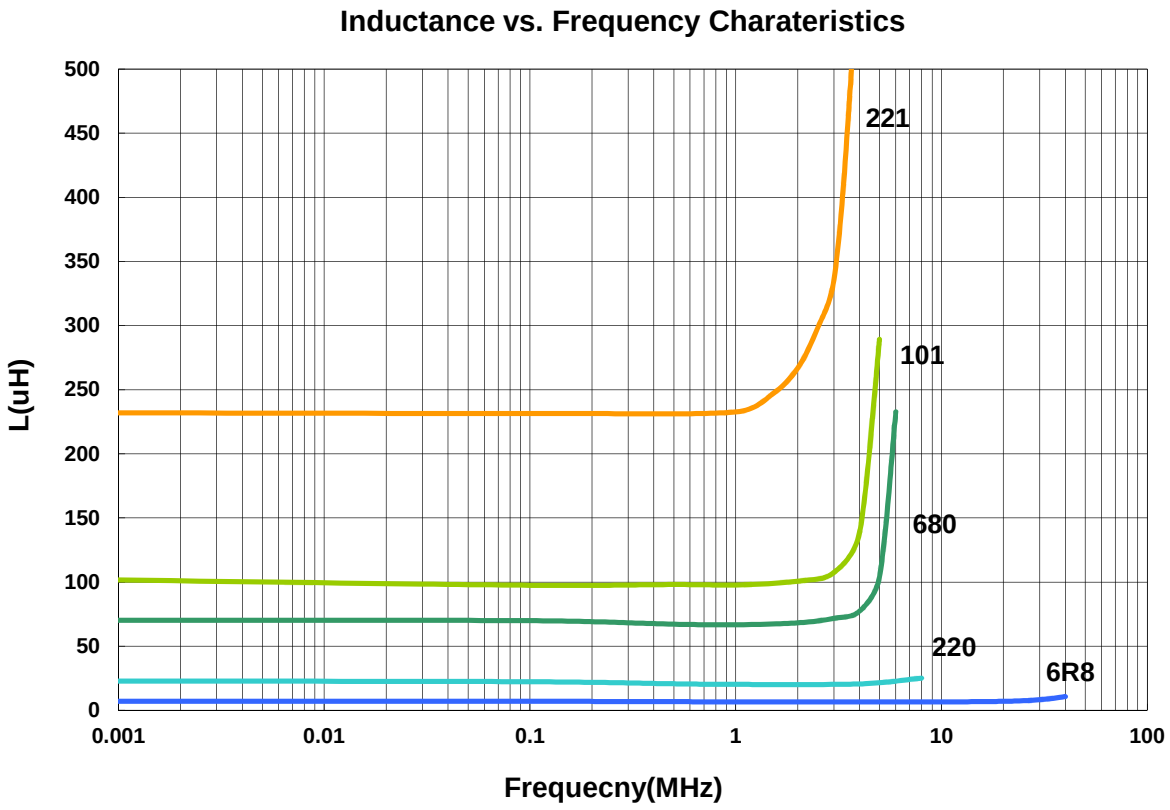
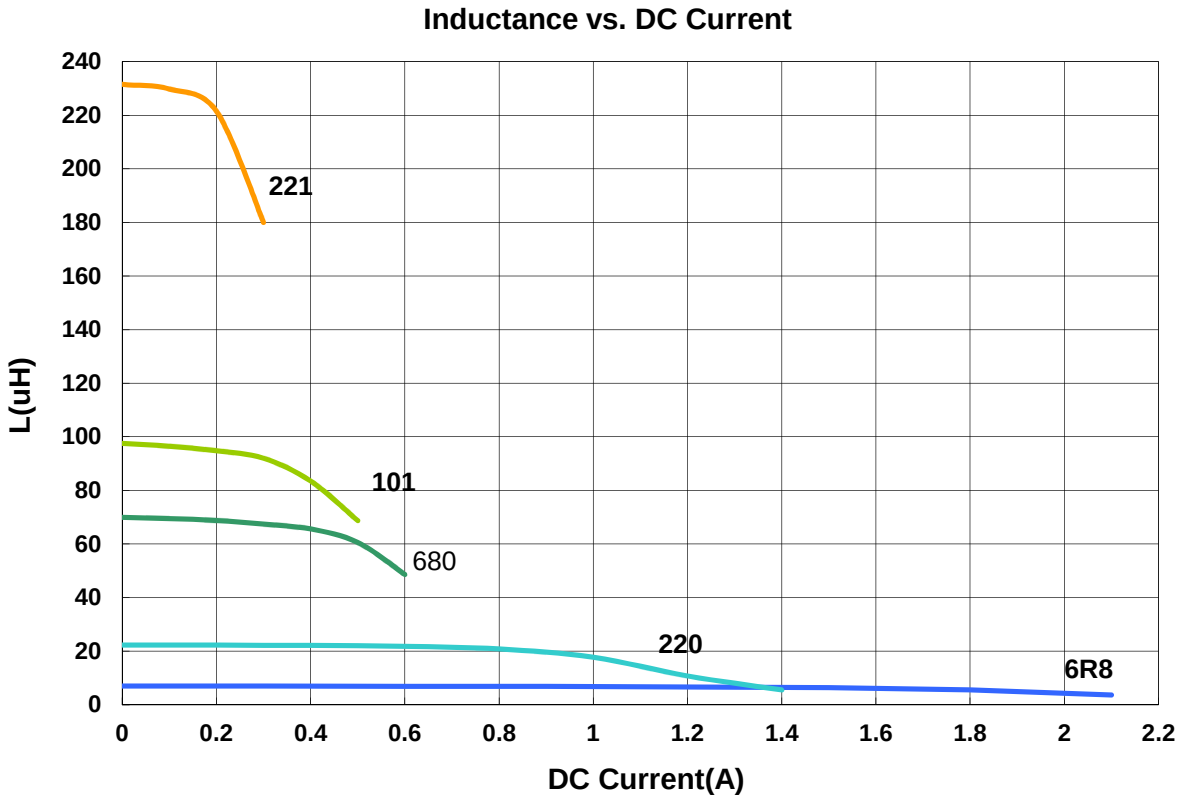
Power Inductor APSA Series

Automotive
AEC-Q200

APSA00060630 Type

■ Characteristics Graph





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Pulse a YAGEO company

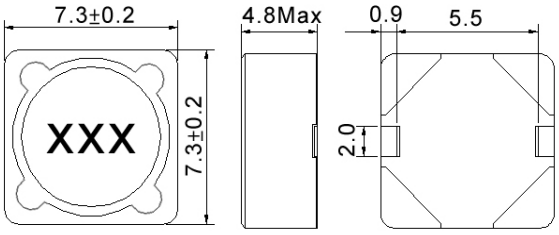
CHILISIN ELECTRONICS CORP.

Power Inductor APSA Series

Automotive AEC-Q200

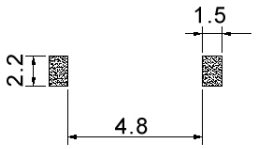
APSA00070748 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	SRF (MHz)Min	RDC (mΩ)Max.	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APSA000707483R3□00	3.3	100 kHz,1 V	90	24	2.50	2.30	20	3R3
APSA000707484R7□00	4.7	100 kHz,1 V	65	36	2.00	2.10	20	4R7
APSA000707486R8□00	6.8	100 kHz,1 V	24	40	1.70	1.74	20	6R8
APSA00070748100□00	10	100 kHz,1 V	17	43.2	1.30	1.78	20	100
APSA00070748150□00	15	100 kHz,1 V	14	62.4	1.10	1.53	20	150
APSA00070748220□00	22	100 kHz,1 V	11	73.2	0.90	1.34	20	220
APSA00070748330□00	33	100 kHz,1 V	10	115	0.82	1.09	20	330
APSA00070748470□00	47	100 kHz,1 V	8.0	150	0.75	0.92	20	470
APSA00070748680□00	68	100 kHz,1 V	7.0	210	0.60	0.77	20	680
APSA00070748101□00	100	100 kHz,1 V	6.0	300	0.50	0.65	20	101
APSA00070748151□00	150	100 kHz,1 V	4.0	408	0.40	0.55	20	151
APSA00070748221□00	220	100 kHz,1 V	3.5	624	0.33	0.45	20	221
APSA00070748331□00	330	100 kHz,1 V	3.0	880	0.25	0.37	20	331
APSA00070748471□00	470	100 kHz,1 V	2.5	1260	0.22	0.31	20	471
APSA00070748681□00	680	100 kHz,1 V	2.1	1770	0.20	0.27	20	681

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

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current.
3. Irms for a 20℃ temprature rise from 25℃ ambient.
4. Measure Equipment:
   L: WK6500B+WK6565
   RDC: Chroma 16502
   Isat: WK3260B+WK3265B

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Pulse a YAGEO company

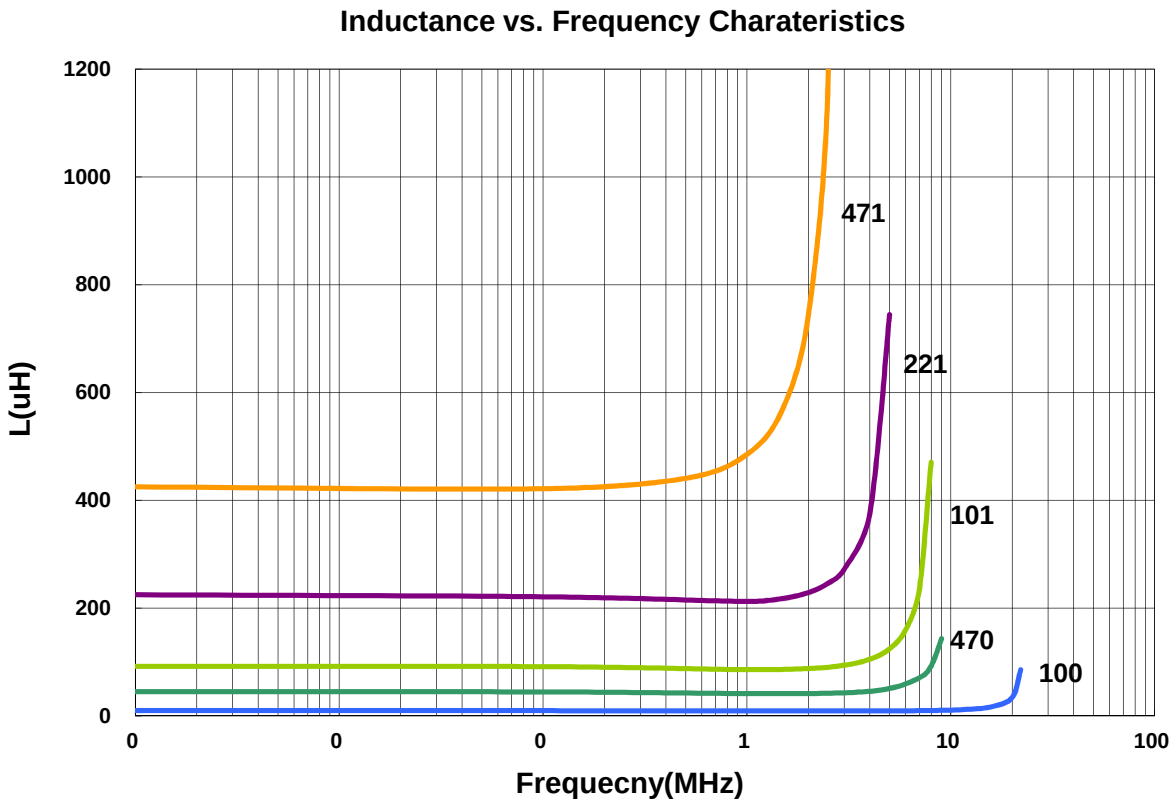
CHILISIN ELECTRONICS CORP.

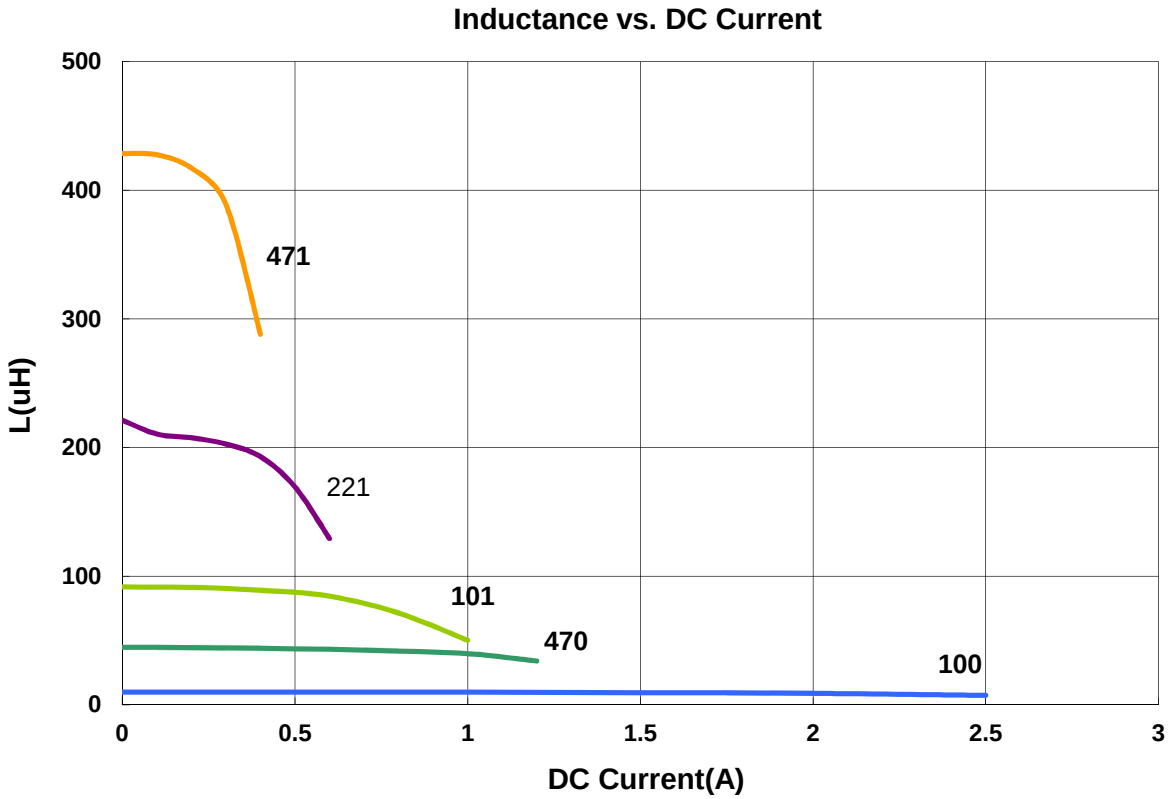
Power Inductor APSA Series

Automotive
AEC-Q200

APSA00070748 Type

■ Characteristics Graph





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Pulse a YAGEO company

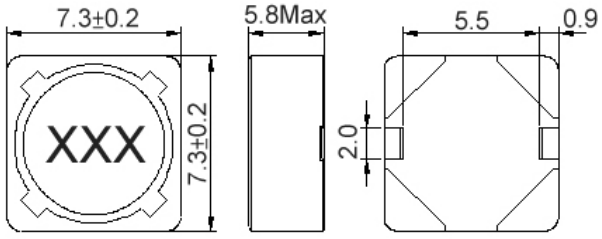
CHILISIN ELECTRONICS CORP.

Power Inductor APSA Series

Automotive
AEC-Q200

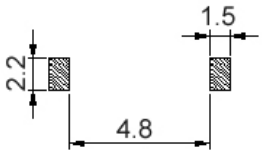
APSA00070758 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	SRF (MHz)Min	RDC (mΩ)Max.	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APSA000707581R5□00	1.5	100 kHz,1 V	75	20	6.2	4.0	30	1R5
APSA000707582R2□00	2.2	100 kHz,1 V	55	23	5.3	3.5	30	2R2
APSA000707583R3□00	3.3	100 kHz,1 V	48	31	4.3	3.3	30	3R3
APSA000707584R7□00	4.7	100 kHz,1 V	38	36	3.6	3.1	30	4R7
APSA000707586R8□00	6.8	100 kHz,1 V	35	44	3.0	2.8	30	6R8
APSA00070758100□00	10	100 kHz,1 V	22	46	2.6	2.5	20	100
APSA00070758150□00	15	100 kHz,1 V	14	60.9	2.1	2.2	20	150
APSA00070758220□00	22	100 kHz,1 V	8	77	1.7	2.0	20	220

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

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current.
3. Irms for a 30℃ temprature rise from 25℃ ambient.
4. Measure Equipment:
   L: WK6500B+WK6565
   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

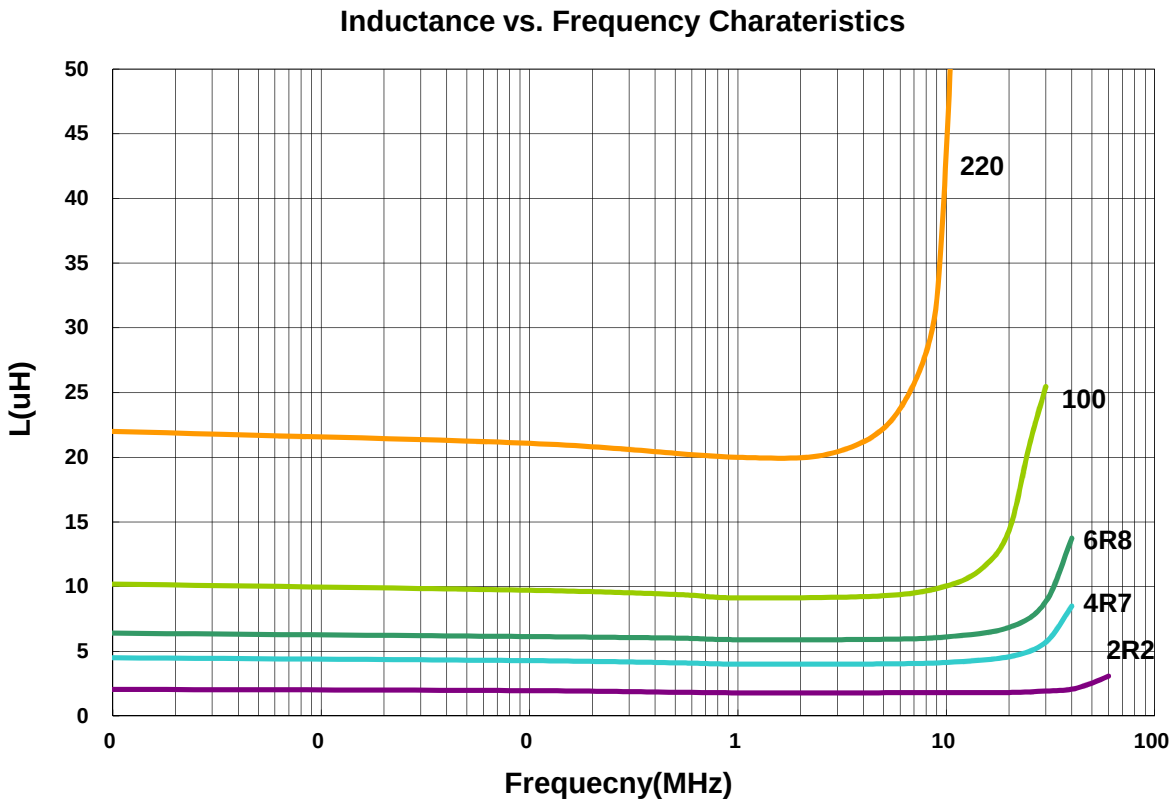
CHILISIN ELECTRONICS CORP.

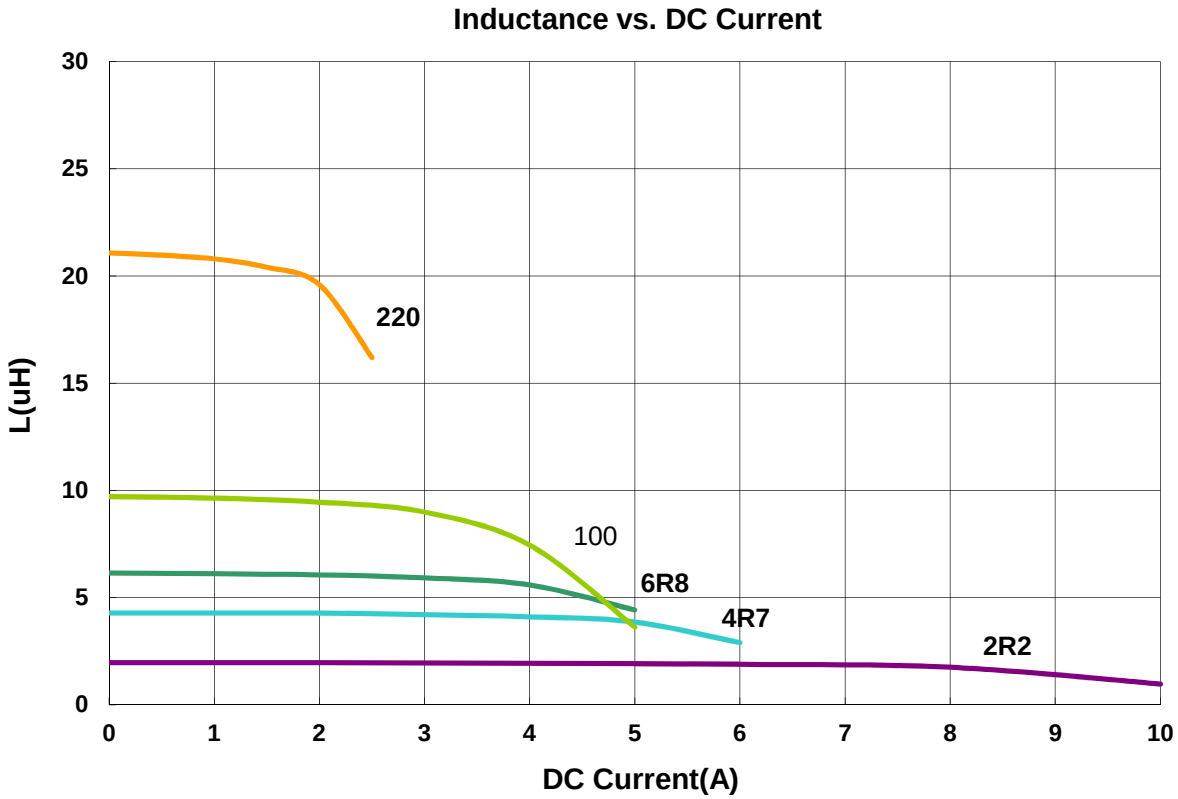
Power Inductor APSA Series

Automotive
AEC-Q200

APSA00070758 Type

■ Characteristics Graph





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Pulse a YAGEO company

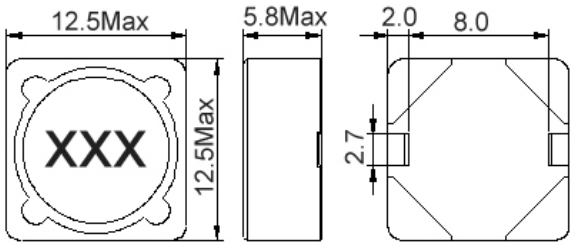
CHILISIN ELECTRONICS CORP.

Power Inductor APSA Series

Automotive
AEC-Q200

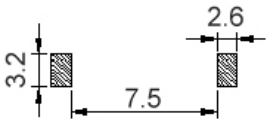
APSA00131358 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	SRF (MHz)Min	RDC (mΩ)Max.	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APSA001313586R0□00	6.0	1 kHz,1 V	26	19.7	3.6	4.9	30	6R0
APSA00131358100□00	10	1 kHz,1 V	17	25.8	3.4	4.3	20	100
APSA00131358150□00	15	1 kHz,1 V	15	31.0	2.8	3.9	20	150
APSA00131358220□00	22	1 kHz,1 V	11	40.6	2.3	3.4	20	220
APSA00131358330□00	33	1 kHz,1 V	10	49.8	1.9	3.1	20	330
APSA00131358470□00	47	1 kHz,1 V	8	74.2	1.6	2.5	20	470
APSA00131358680□00	68	1 kHz,1 V	7	99.8	1.3	2.2	20	680
APSA00131358101□00	100	1 kHz,1 V	5.5	140	1.1	1.8	20	101
APSA00131358151□00	150	1 kHz,1 V	4.5	228	0.88	1.4	20	151
APSA00131358221□00	220	1 kHz,1 V	3.0	324	0.72	1.2	20	221
APSA00131358331□00	330	1 kHz,1 V	3.0	492	0.59	1.0	20	331
APSA00131358471□00	470	1 kHz,1 V	2.5	624	0.49	0.88	20	471
APSA00131358681□00	680	1 kHz,1 V	2.0	912	0.43	0.73	20	681
APSA00131358102□00	1000	1 kHz,1 V	1.7	1344	0.34	0.60	20	102
APSA00131358152□00	1500	1 kHz,1 V	1.4	2076	0.29	0.48	20	152

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

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current.
3. Irms for a 30℃ temprature rise from 25℃ ambient.
4. Measure Equipment:
   L: WK6500B+WK6565
   RDC: Chroma 16502
   Isat: WK3260B+WK3265B

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Pulse a YAGEO company

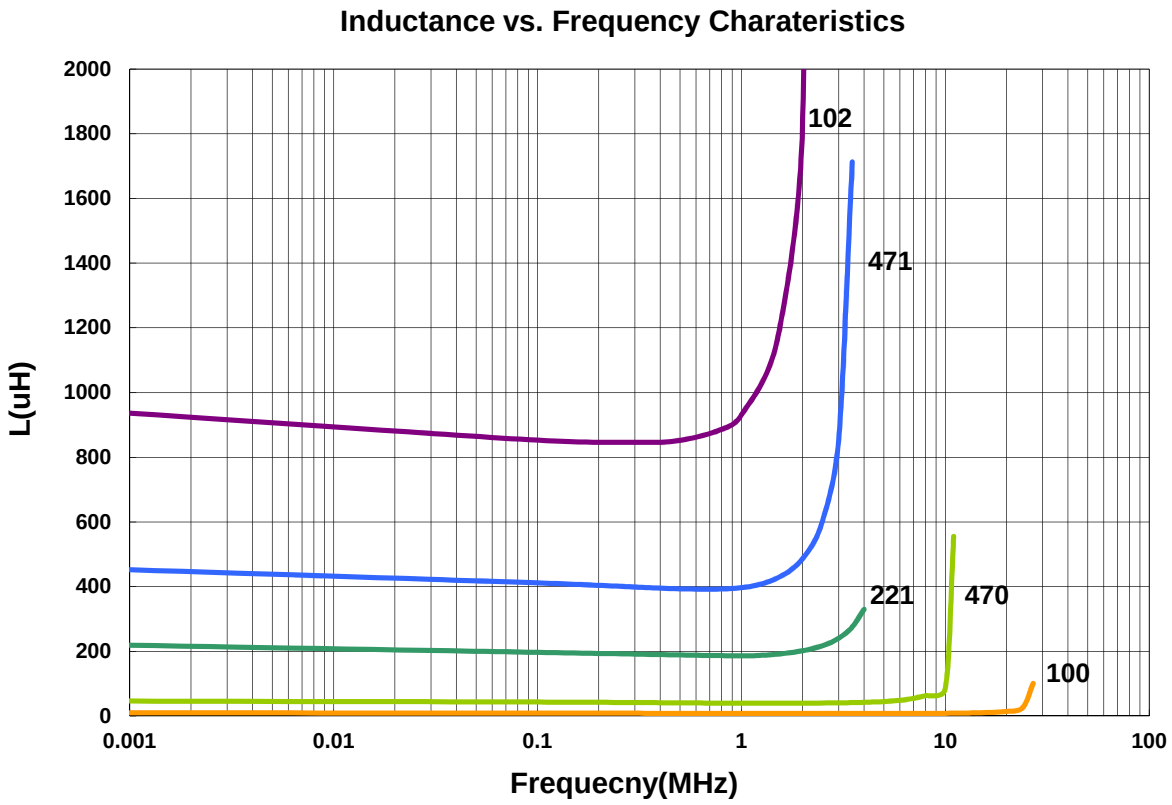
CHILISIN ELECTRONICS CORP.

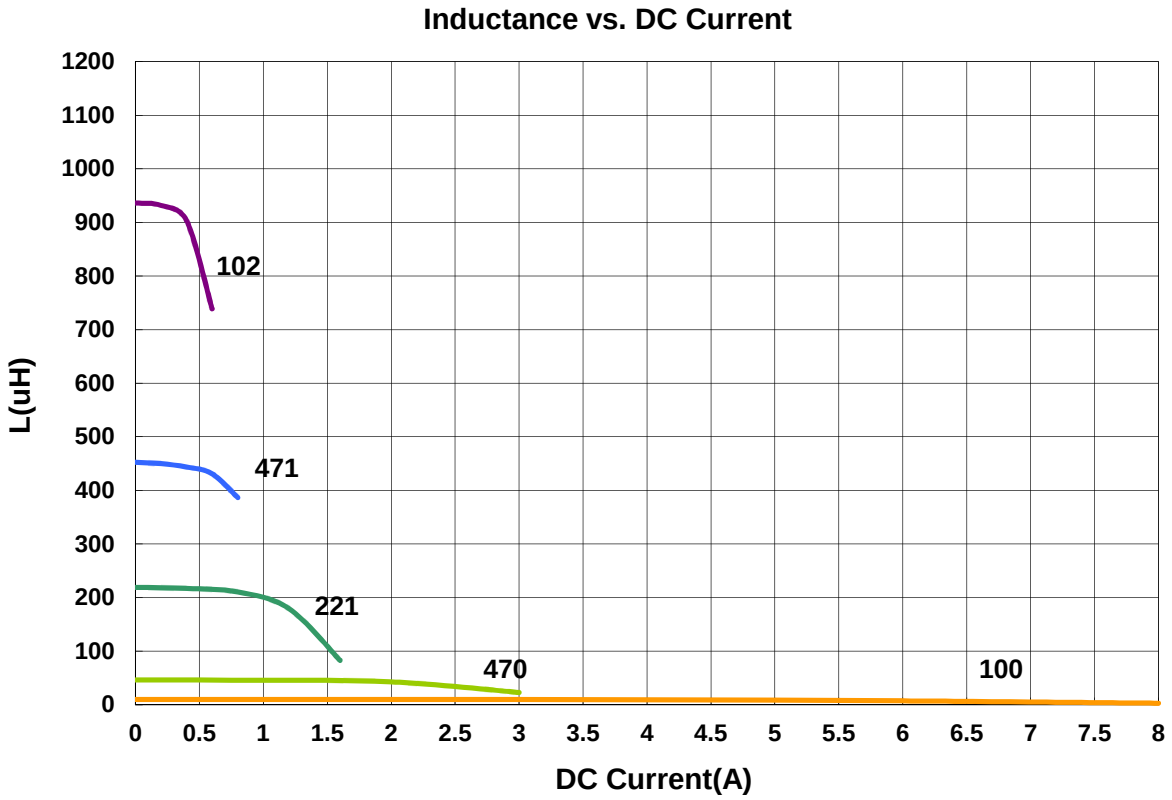
Power Inductor APSA Series

Automotive
AEC-Q200

APSA00131358 Type

■ Characteristics Graph





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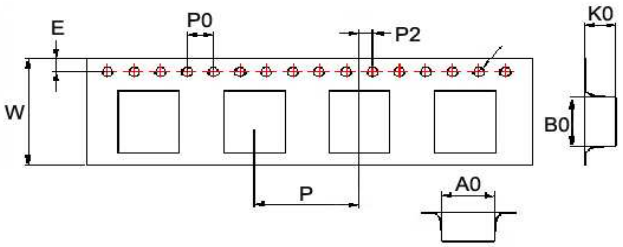
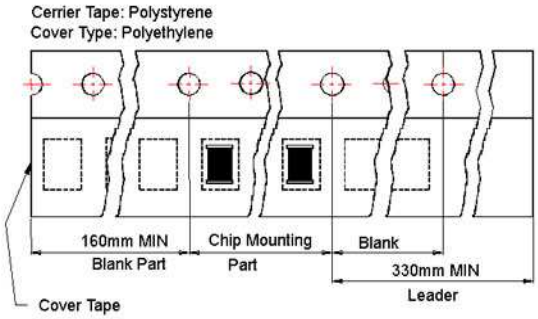
Power Inductor APSA Series

Automotive
AEC-Q200

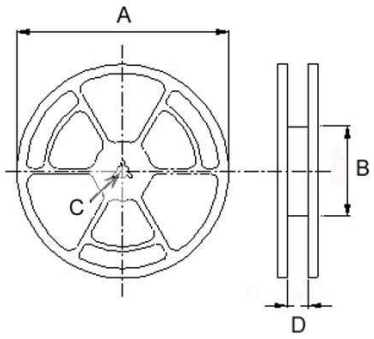
Packaging

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
APSA00060630	6.3	6.55	3.3	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
APSA00070748	7.6	7.6	5.2	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
APSA00070758	7.8	7.8	6.0	1.55	1.75	16	12	4	2	330	100	13	16.0	900
APSA00131358	12.6	12.6	6.7	1.55	1.75	24	16	4	2	330	100	13	24.2	600

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Power Inductor APSD Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Power Circuit | Unshield | Wire Wound | Ferrite

Part Numbering

A	PSD	00	030321	1R0	M	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code

Dimensions Code (mm)		Inductance (uH)		Tolerance	
030321	3.3x3.0x2.1	R47	0.47	K	±10%
050432	4.5x4.0x3.2	1R0	1.0	M	±20%
060530	5.8x5.2x3.0	101	100	T	±30%
060545	5.8x5.2x4.5				
080735	7.8x7.0x3.5				
080750	7.8x7.0x5.0				

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Pulse a YAGEO company

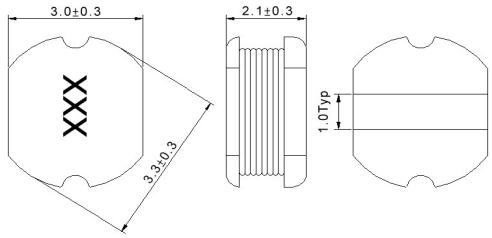
CHILISIN ELECTRONICS CORP.

Power Inductor APSD Series

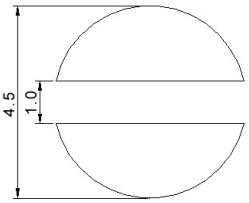
Automotive
AEC-Q200

APSD00030321 Type

Dimensions



Recommended Land Pattern



Electrical Characteristics

unit:mm

unit:mm

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APSD00030321R82□00	0.82	7.96 MHz,1 V	0.06	2.2	2.53	30	AX
APSD000303211R0□00	1	7.96 MHz,1 V	0.07	2.08	2.39	20	BA
APSD000303211R4□00	1.4	7.96 MHz,1 V	0.09	1.86	2.14	20	BE
APSD000303211R5□00	1.5	7.96 MHz,1 V	0.11	1.8	2.07	20	BF
APSD000303211R8□00	1.8	7.96 MHz,1 V	0.11	1.8	2.07	20	BI
APSD000303212R2□00	2.2	7.96 MHz,1 V	0.13	1.39	1.60	20	CC
APSD000303212R7□00	2.7	7.96 MHz,1 V	0.14	1.32	1.52	20	CH
APSD000303213R3□00	3.3	7.96 MHz,1 V	0.17	1.25	1.44	20	DD
APSD000303213R9□00	3.9	7.96 MHz,1 V	0.19	1.2	1.38	20	DJ
APSD000303214R7□00	4.7	7.96 MHz,1 V	0.21	1.13	1.30	20	EH
APSD000303215R6□00	5.6	7.96 MHz,1 V	0.22	0.91	1.05	20	FG
APSD000303216R8□00	6.8	7.96 MHz,1 V	0.25	0.85	0.98	20	GI
APSD000303217R0□00	7	7.96 MHz,1 V	0.28	0.82	0.94	20	HA
APSD000303218R2□00	8.2	7.96 MHz,1 V	0.28	0.82	0.94	20	IC
APSD00030321100□00	10	2.52 MHz,1 V	0.32	0.74	0.85	10,20	KA
APSD00030321120□00	12	2.52 MHz,1 V	0.35	0.64	0.74	20	QA
APSD00030321150□00	15	2.52 MHz,1 V	0.4	0.6	0.69	20	MA
APSD00030321180□00	18	2.52 MHz,1 V	0.48	0.54	0.62	20	RA
APSD00030321220□00	22	2.52 MHz,1 V	0.58	0.5	0.58	10,20	LA
APSD00030321270□00	27	2.52 MHz,1 V	0.65	0.43	0.49	20	SA
APSD00030321330□00	33	2.52 MHz,1 V	0.8	0.4	0.46	20	NA
APSD00030321390□00	39	2.52 MHz,1 V	0.9	0.37	0.43	20	PA
APSD00030321470□00	47	2.52 MHz,1 V	1.19	0.36	0.41	20	OA
APSD00030321500□00	50	2.52 MHz,1 V	1.22	0.33	0.38	20	TA
APSD00030321560□00	56	2.52 MHz,1 V	1.27	0.31	0.36	20	UA
APSD00030321680□00	68	2.52 MHz,1 V	1.73	0.3	0.35	10,20	VA
APSD00030321750□00	75	2.52 MHz,1 V	1.9	0.29	0.33	20	WA
APSD00030321820□00	82	2.52 MHz,1 V	1.99	0.28	0.32	10,20	XA
APSD00030321101□00	100	1 kHz,1 V	2.52	0.25	0.29	10,20	KB
APSD00030321121□00	120	1 kHz,1 V	2.9	0.2	0.23	10,20	QB
APSD00030321151□00	150	1 kHz,1 V	3.36	0.19	0.22	20	MB
APSD00030321181□00	180	1 kHz,1 V	5.1	0.17	0.20	20	RB
APSD00030321221□00	220	1 kHz,1 V	5.8	0.16	0.18	10,20	LB
APSD00030321271□00	270	1 kHz,1 V	7.8	0.14	0.16	10,20	SB

Note: When ordering, please specify tolerance code. Tolerance: K=±10% / M=±20% / T=±30%

1. Operating temperature range - 40°C ~ 150°C(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current
3. Irms for a 40°C temperature rise from 25°C ambient.
4. Measure Equipment:
   L: Agilent E4980 or HP4284A (over 1MHz), HP4285A (under 1MHz)
   RDC: Chroma 16502
   Isat: HP4284+42841A or WK3260B+WK3265B
   Irms: WK3255BQ+ WK3265B (or equivalent)

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Pulse a YAGEO company

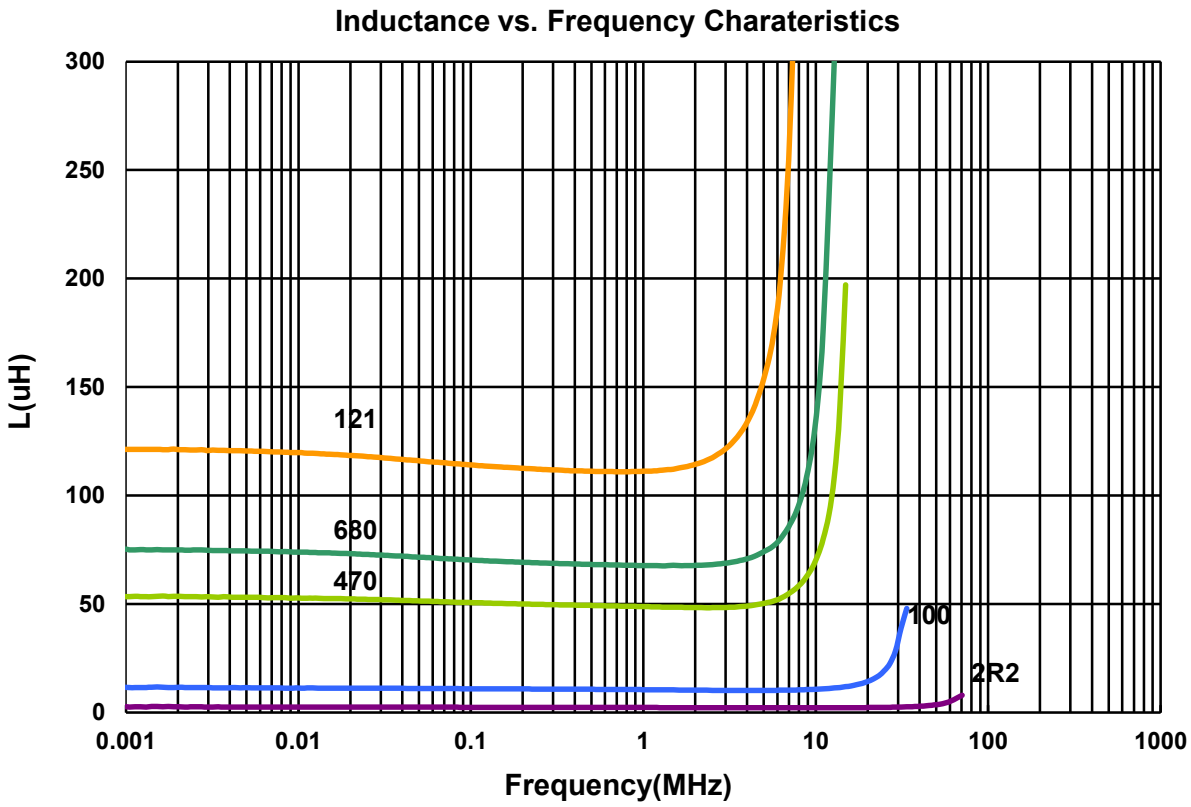
CHILISIN ELECTRONICS CORP.

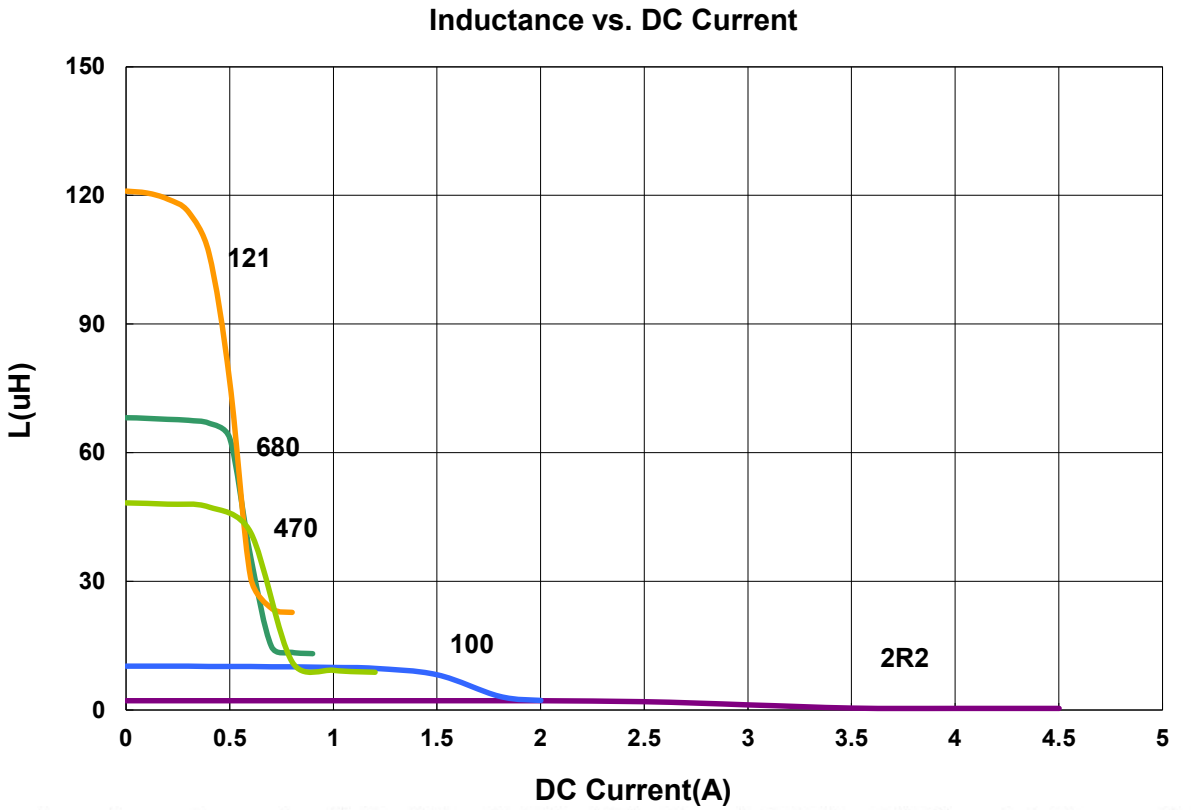
Power Inductor APSD Series

Automotive
AEC-Q200

APSD00030321 Type

■ Characteristics Graph





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Pulse a YAGEO company

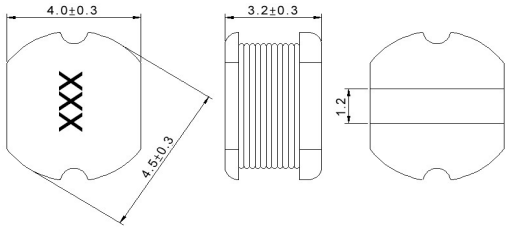
CHILISIN ELECTRONICS CORP.

Power Inductor APSD Series

Automotive
AEC-Q200

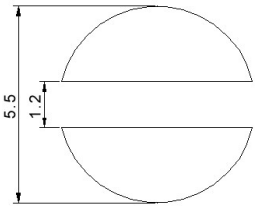
APSD00050432 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APSD00050432R15□00	0.15	7.96 MHz,1 V	0.0085	7.5	7.5	30	R15
APSD000504321R0□00	1	7.96 MHz,1 V	0.033	3.8	3.8	10,20	1R0
APSD000504321R2□00	1.2	7.96 MHz,1 V	0.035	3.5	3.5	20	1R2
APSD000504321R4□00	1.4	7.96 MHz,1 V	0.038	3.3	3.3	20	1R4
APSD000504321R8□00	1.8	7.96 MHz,1 V	0.042	2.91	2.91	10,20	1R8
APSD000504322R2□00	2.2	7.96 MHz,1 V	0.047	2.6	2.6	10,20	2R2
APSD000504322R7□00	2.7	7.96 MHz,1 V	0.052	2.43	2.43	20	2R7
APSD000504323R3□00	3.3	7.96 MHz,1 V	0.058	2.15	2.15	10,20	3R3
APSD000504323R9□00	3.9	7.96 MHz,1 V	0.076	1.98	1.98	20	3R9
APSD000504324R7□00	4.7	7.96 MHz,1 V	0.094	1.7	1.7	10,20	4R7
APSD000504325R6□00	5.6	7.96 MHz,1 V	0.101	1.6	1.6	10,20	5R6
APSD000504326R2□00	6.2	7.96 MHz,1 V	0.11	1.5	1.5	20	6R2
APSD000504326R8□00	6.8	7.96 MHz,1 V	0.117	1.41	1.41	10,20	6R8
APSD000504328R2□00	8.2	7.96 MHz,1 V	0.132	1.26	1.26	10,20	8R2
APSD00050432100□00	10	2.52 MHz,1 V	0.182	1.15	1.15	10,20	100
APSD00050432120□00	12	2.52 MHz,1 V	0.21	1.05	1.05	20	120
APSD00050432150□00	15	2.52 MHz,1 V	0.235	0.92	0.92	10,20	150
APSD00050432180□00	18	2.52 MHz,1 V	0.338	0.84	0.84	20	180
APSD00050432220□00	22	2.52 MHz,1 V	0.378	0.76	0.76	10,20	220
APSD00050432270□00	27	2.52 MHz,1 V	0.522	0.71	0.71	20	270
APSD00050432330□00	33	2.52 MHz,1 V	0.54	0.64	0.64	10,20	330
APSD00050432390□00	39	2.52 MHz,1 V	0.587	0.59	0.59	10,20	390
APSD00050432470□00	47	2.52 MHz,1 V	0.844	0.54	0.54	10,20	470
APSD00050432560□00	56	2.52 MHz,1 V	0.937	0.5	0.5	10,20	560
APSD00050432680□00	68	2.52 MHz,1 V	1.117	0.46	0.46	10,20	680
APSD00050432101□00	100	1 kHz,1 V	2	0.4	0.4	10,20	101
APSD00050432121□00	120	1 kHz,1 V	1.8	0.38	0.38	10,20	121
APSD00050432151□00	150	1 kHz,1 V	2.8	0.3	0.3	10,20	151
APSD00050432181□00	180	1 kHz,1 V	3.2	0.25	0.25	10,20	181
APSD00050432221□00	220	1 kHz,1 V	4	0.15	0.15	10,20	221
APSD00050432331□00	330	1 kHz,1 V	5.85	0.21	0.21	10,20	331

Note: When ordering, please specify tolerance code. Tolerance: K=±10% / M=±20% / T=±30%

1. Operating temperature range －40℃～150℃(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current
3. Irms for a 40°C temperature rise from 25°C ambient.
4. Measure Equipment:
   L: Agilent E4980 or HP4284A (over 1MHz), HP4285A (under 1MHz)
   RDC: Chroma 16502
   Isat: HP4284+42841A or WK3260B+WK3265B
   Irms: WK3255BQ+ WK3265B (or equivalent)

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Pulse a YAGEO company

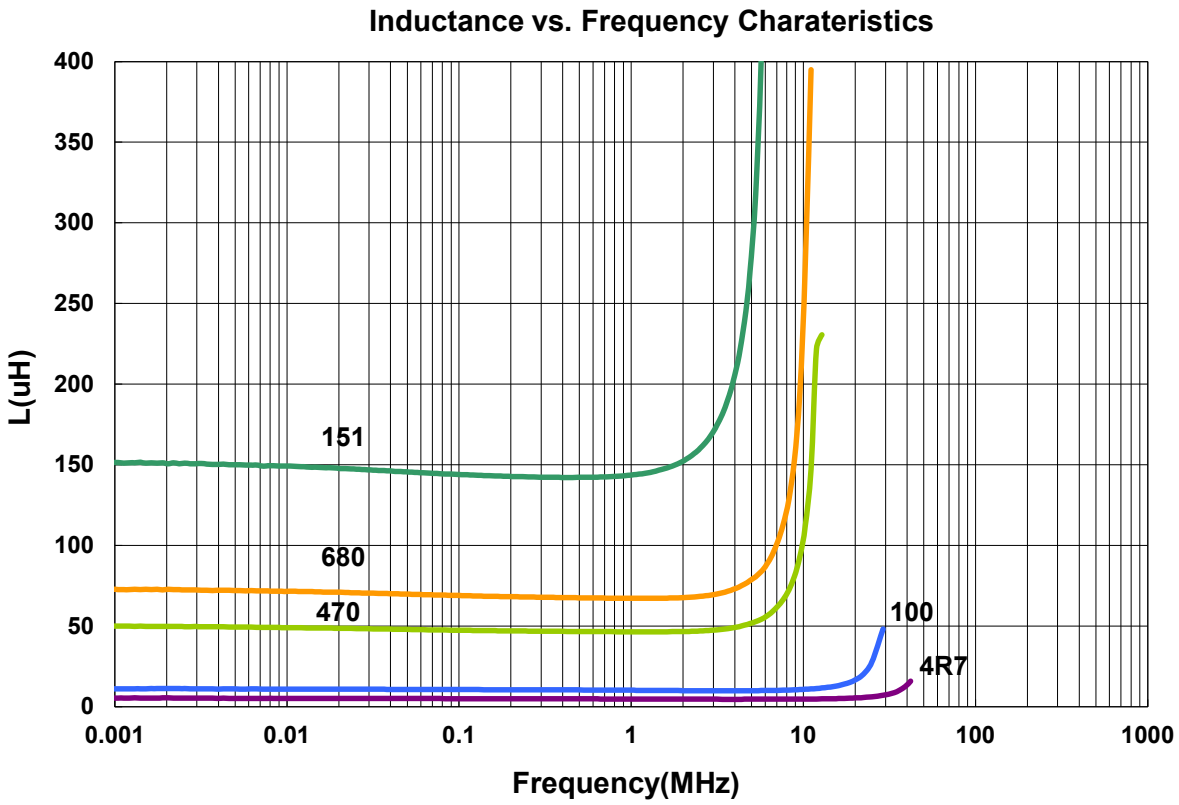
CHILISIN ELECTRONICS CORP.

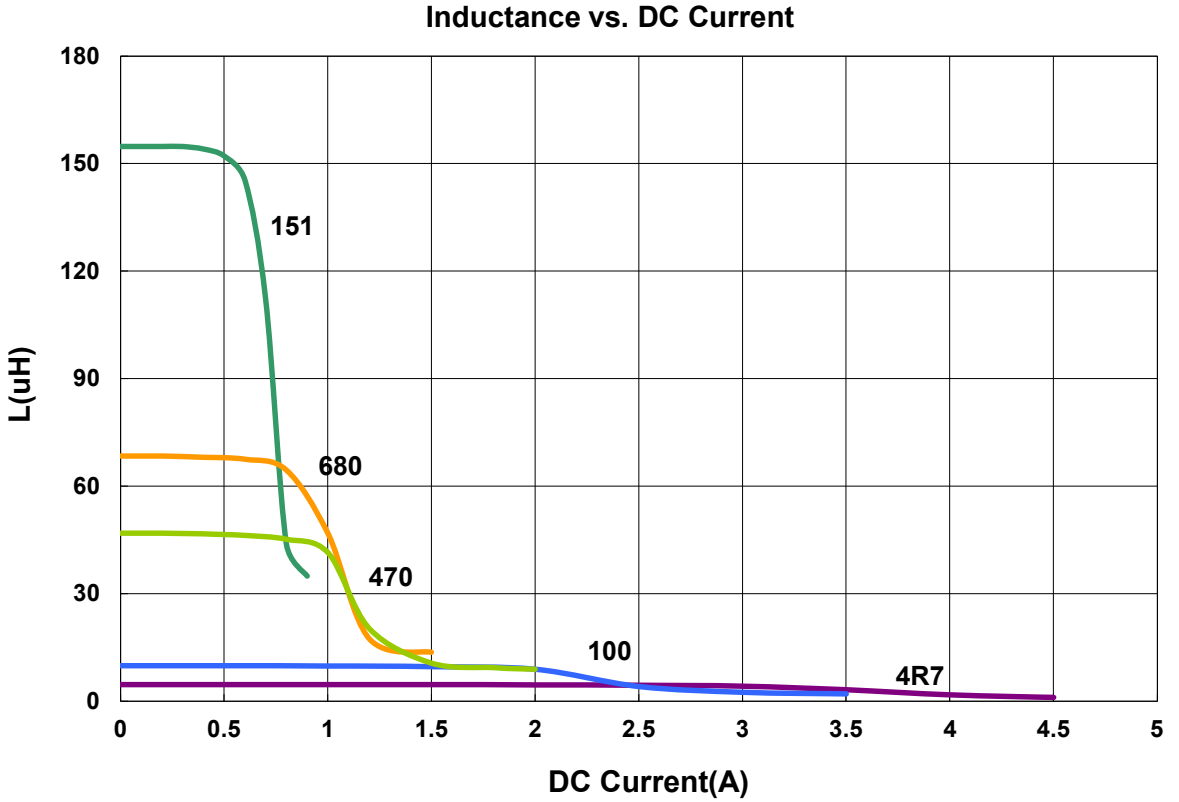
Power Inductor APSD Series

Automotive
AEC-Q200

APSD00050432 Type

■ Characteristics Graph





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Pulse a YAGEO company

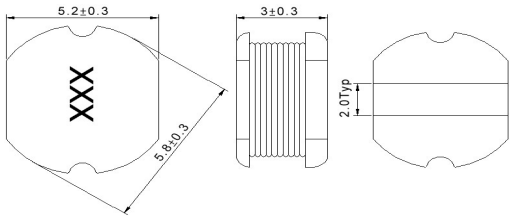
CHILISIN ELECTRONICS CORP.

Power Inductor APSD Series

Automotive
AEC-Q200

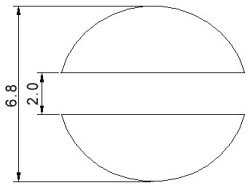
APSD00060530 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APSD000605301R0□00	1	7.96 MHz,1 V	0.03	4.5	4.5	20	1R0
APSD000605301R2□00	1.2	7.96 MHz,1 V	0.03	4.2	4.2	20	1R2
APSD000605301R5□00	1.5	7.96 MHz,1 V	0.03	4.1	4.1	20	1R5
APSD000605301R8□00	1.8	7.96 MHz,1 V	0.03	3.7	3.7	10,20	1R8
APSD000605302R0□00	2	7.96 MHz,1 V	0.03	3.6	3.6	20	2R0
APSD000605302R2□00	2.2	7.96 MHz,1 V	0.03	3.5	3.5	20	2R2
APSD000605302R7□00	2.7	7.96 MHz,1 V	0.04	3.2	3.2	20	2R7
APSD000605303R3□00	3.3	7.96 MHz,1 V	0.05	2.8	2.8	10,20	3R3
APSD000605303R9□00	3.9	7.96 MHz,1 V	0.06	2.6	2.6	20	3R9
APSD000605304R7□00	4.7	7.96 MHz,1 V	0.07	2.5	2.5	10,20	4R7
APSD000605305R6□00	5.6	7.96 MHz,1 V	0.08	2.4	2.4	20	5R6
APSD000605306R8□00	6.8	7.96 MHz,1 V	0.09	2.2	2.2	20	6R8
APSD000605308R2□00	8.2	7.96 MHz,1 V	0.1	2	2	20	8R2
APSD00060530100□00	10	2.52 MHz,1 V	0.12	1.8	1.8	10,20	100
APSD00060530120□00	12	2.52 MHz,1 V	0.13	1.75	1.75	20	120
APSD00060530150□00	15	2.52 MHz,1 V	0.15	1.7	1.7	10,20	150
APSD00060530180□00	18	2.52 MHz,1 V	0.22	1.6	1.6	10,20	180
APSD00060530220□00	22	2.52 MHz,1 V	0.22	1.5	1.5	10,20	220
APSD00060530270□00	27	2.52 MHz,1 V	0.26	1.4	1.4	20	270
APSD00060530330□00	33	2.52 MHz,1 V	0.33	1.1	1.1	10,20	330
APSD00060530390□00	39	2.52 MHz,1 V	0.42	1	1	10,20	390
APSD00060530470□00	47	2.52 MHz,1 V	0.5	0.9	0.9	10,20	470
APSD00060530560□00	56	2.52 MHz,1 V	0.55	0.85	0.85	10,20	560
APSD00060530680□00	68	2.52 MHz,1 V	0.65	0.8	0.8	10,20	680
APSD00060530820□00	82	2.52 MHz,1 V	0.8	0.65	0.65	10,20	820
APSD00060530101□00	100	1 kHz,1 V	0.9	0.6	0.6	10,20	101
APSD00060530121□00	120	1 kHz,1 V	1	0.58	0.58	10,20	121
APSD00060530151□00	150	1 kHz,1 V	1.3	0.43	0.43	10,20	151
APSD00060530181□00	180	1 kHz,1 V	1.5	0.41	0.41	10,20	181
APSD00060530221□00	220	1 kHz,1 V	2	0.38	0.38	10,20	221
APSD00060530271□00	270	1 kHz,1 V	2.5	0.35	0.35	10,20	271
APSD00060530331□00	330	1 kHz,1 V	3.2	0.28	0.28	10,20	331

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

1. Operating temperature range - 40°C ~ 150°C(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current
3. Irms for a 40°C temperature rise from 25°C ambient.
4. Measure Equipment:
   L: Agilent E4980 or HP4284A (over 1MHz), HP4285A (under 1MHz)
   RDC: Chroma 16502
   Isat: HP4284+42841A or WK3260B+WK3265B
   Irms: WK3255BQ+ WK3265B (or equivalent)

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Pulse a YAGEO company

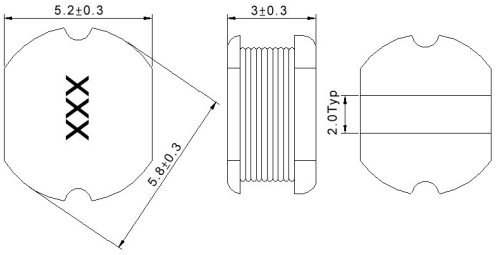
CHILISIN ELECTRONICS CORP.

Power Inductor APSD Series

Automotive
AEC-Q200

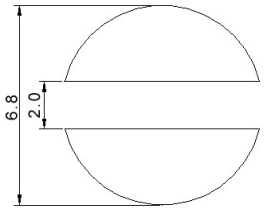
APSD00060530 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APSD00060530391□00	390	1 kHz,1 V	3.5	0.26	0.26	10,20	391
APSD00060530471□00	470	1 kHz,1 V	4.2	0.2	0.2	10,20	471
APSD00060530561□00	560	1 kHz,1 V	4.5	0.19	0.19	10,20	561
APSD00060530681□00	680	1 kHz,1 V	6.5	0.18	0.18	10,20	681
APSD00060530821□00	820	1 kHz,1 V	7.5	0.15	0.15	10,20	821
APSD00060530102□00	1000	1 kHz,1 V	8	0.13	0.13	10,20	102

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

1. Operating temperature range －40°C～150°C(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current
3. Irms for a 40°C temperature rise from 25°C ambient.
4. Measure Equipment:
   L: Agilent E4980 or HP4284A (over 1MHz), HP4285A (under 1MHz)
   RDC: Chroma 16502
   Isat: HP4284+42841A or WK3260B+WK3265B
   Irms: WK3255BQ+ WK3265B (or equivalent)

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Pulse a YAGEO company

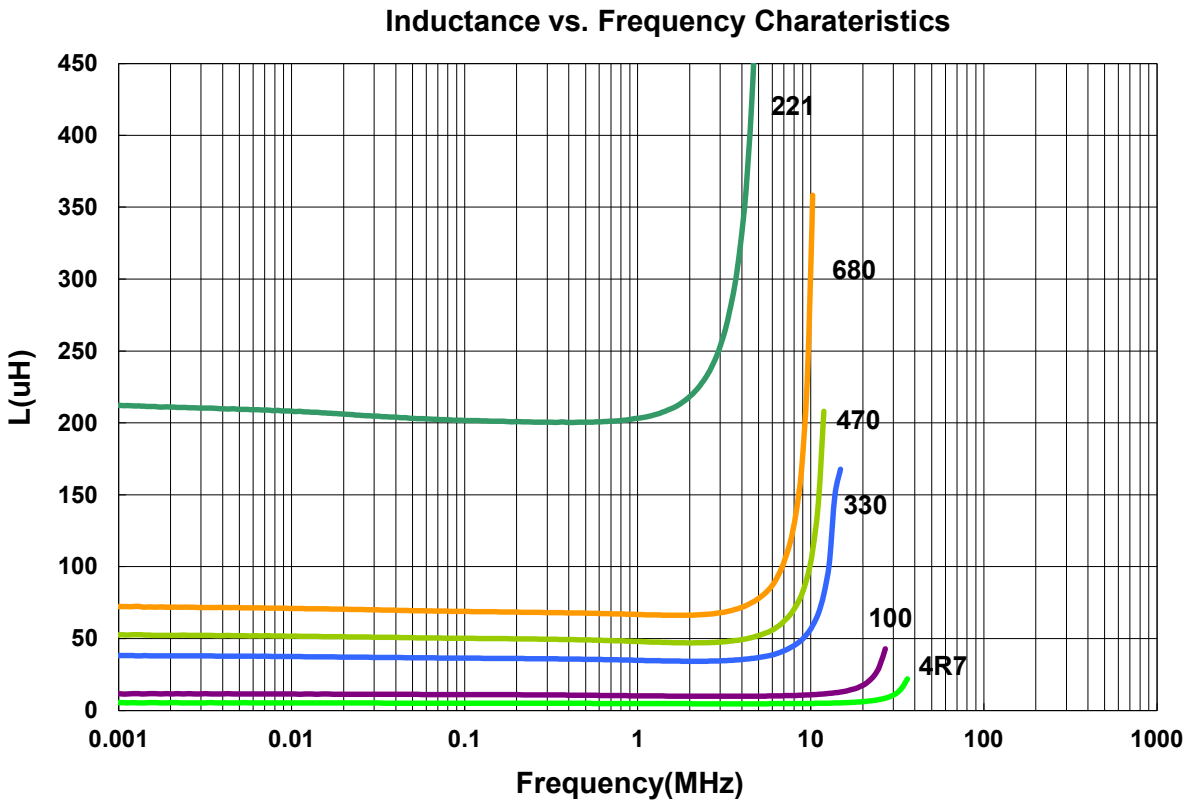
CHILISIN ELECTRONICS CORP.

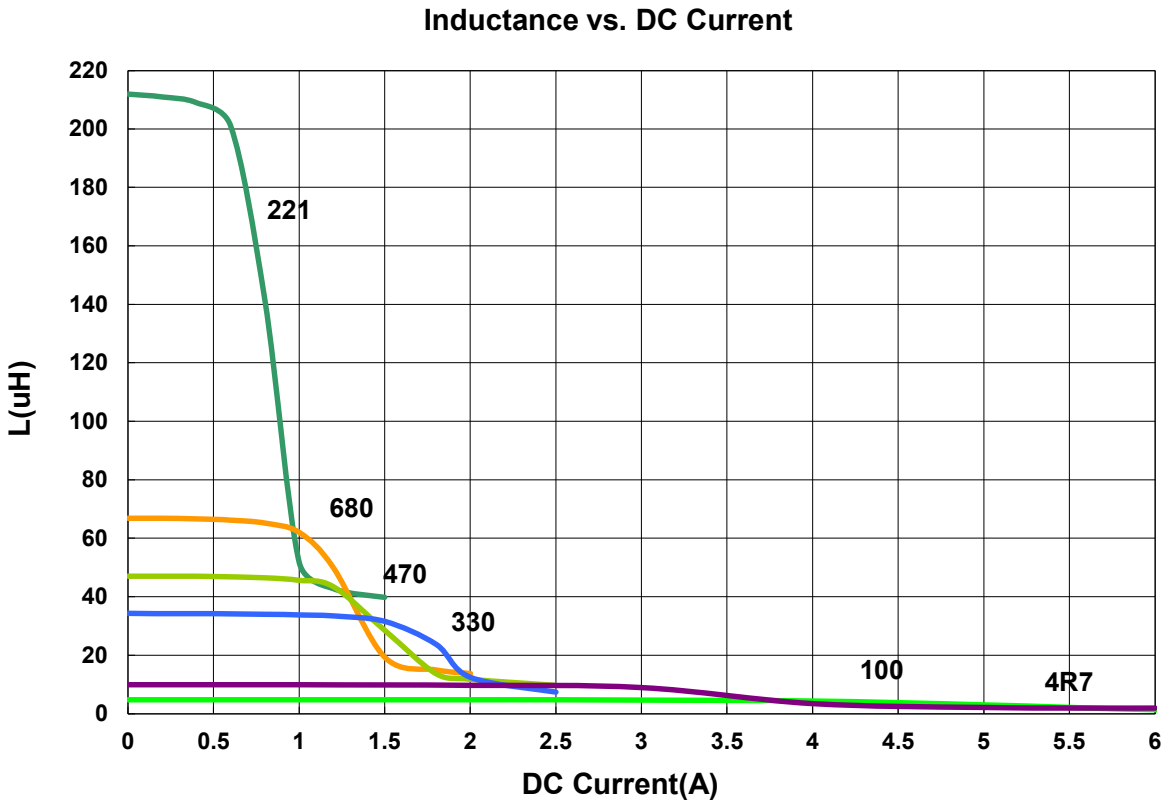
Power Inductor SCD Series

Automotive
AEC-Q200

APSD00060530 Type

■ Characteristics Graph





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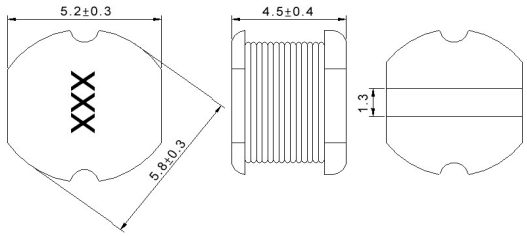
CHILISIN ELECTRONICS CORP.

Power Inductor APSD Series

Automotive
AEC-Q200

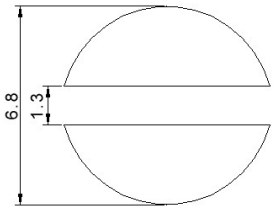
APSD00060545 Type

Dimensions



unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APSD000605451R8□00	1.8	7.96 MHz,1 V	0.02	3.5	3.5	20	1R8
APSD000605452R2□00	2.2	7.96 MHz,1 V	0.023	3.2	3.2	20	2R2
APSD000605453R3□00	3.3	7.96 MHz,1 V	0.0314	2.59	2.59	10,20	3R3
APSD000605453R5□00	3.5	7.96 MHz,1 V	0.03	2.4	2.4	20	3R5
APSD000605454R7□00	4.7	7.96 MHz,1 V	0.0372	2.3	2.3	10,20	4R7
APSD000605456R8□00	6.8	7.96 MHz,1 V	0.057	1.8	1.8	20	6R8
APSD000605458R2□00	8.2	7.96 MHz,1 V	0.0594	1.7	1.7	20	8R2
APSD00060545100□00	10	2.52 MHz,1 V	0.1	1.44	1.44	10,20	100
APSD00060545120□00	12	2.52 MHz,1 V	0.12	1.4	1.4	20	120
APSD00060545150□00	15	2.52 MHz,1 V	0.14	1.3	1.3	10,20	150
APSD00060545180□00	18	2.52 MHz,1 V	0.15	1.23	1.23	20	180
APSD00060545220□00	22	2.52 MHz,1 V	0.18	1.11	1.11	20	220
APSD00060545270□00	27	2.52 MHz,1 V	0.2	0.97	0.97	20	270
APSD00060545330□00	33	2.52 MHz,1 V	0.23	0.88	0.88	10,20	330
APSD00060545390□00	39	2.52 MHz,1 V	0.32	0.8	0.8	10,20	390
APSD00060545470□00	47	2.52 MHz,1 V	0.37	0.72	0.72	10,20	470
APSD00060545560□00	56	2.52 MHz,1 V	0.42	0.68	0.68	10,20	560
APSD00060545680□00	68	2.52 MHz,1 V	0.46	0.61	0.61	10,20	680
APSD00060545820□00	82	2.52 MHz,1 V	0.6	0.58	0.58	10,20	820
APSD00060545101□00	100	1 kHz,1 V	0.7	0.52	0.52	10,20	101
APSD00060545121□00	120	1 kHz,1 V	0.93	0.48	0.48	10,20	121
APSD00060545151□00	150	1 kHz,1 V	1.1	0.4	0.4	10,20	151
APSD00060545181□00	180	1 kHz,1 V	1.38	0.38	0.38	10,20	181
APSD00060545221□00	220	1 kHz,1 V	1.57	0.35	0.35	10,20	221
APSD00060545271□00	270	1 kHz,1 V	1.85	0.29	0.29	10,20	271
APSD00060545331□00	330	1 kHz,1 V	2	0.28	0.28	10,20	331
APSD00060545391□00	390	1 kHz,1 V	2.6	0.26	0.26	10,20	391
APSD00060545471□00	470	1 kHz,1 V	3	0.12	0.12	10,20	471
APSD00060545561□00	560	1 kHz,1 V	4.19	0.1	0.1	10,20	561
APSD00060545681□00	680	1 kHz,1 V	4.44	0.08	0.08	10,20	681
APSD00060545821□00	820	1 kHz,1 V	5.12	0.05	0.05	10,20	821
APSD00060545102□00	1000	1 kHz,1 V	10	0.03	0.03	10,20	102

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

1. Operating temperature range －40℃～150℃(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current
3. Irms for a 40°C temperature rise from 25°C ambient.
4. Measure Equipment:
   L: Agilent E4980 or HP4284A (over 1MHz), HP4285A (under 1MHz)
   RDC: Chroma 16502
   Isat: HP4284+42841A or WK3260B+WK3265B

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Pulse a YAGEO company

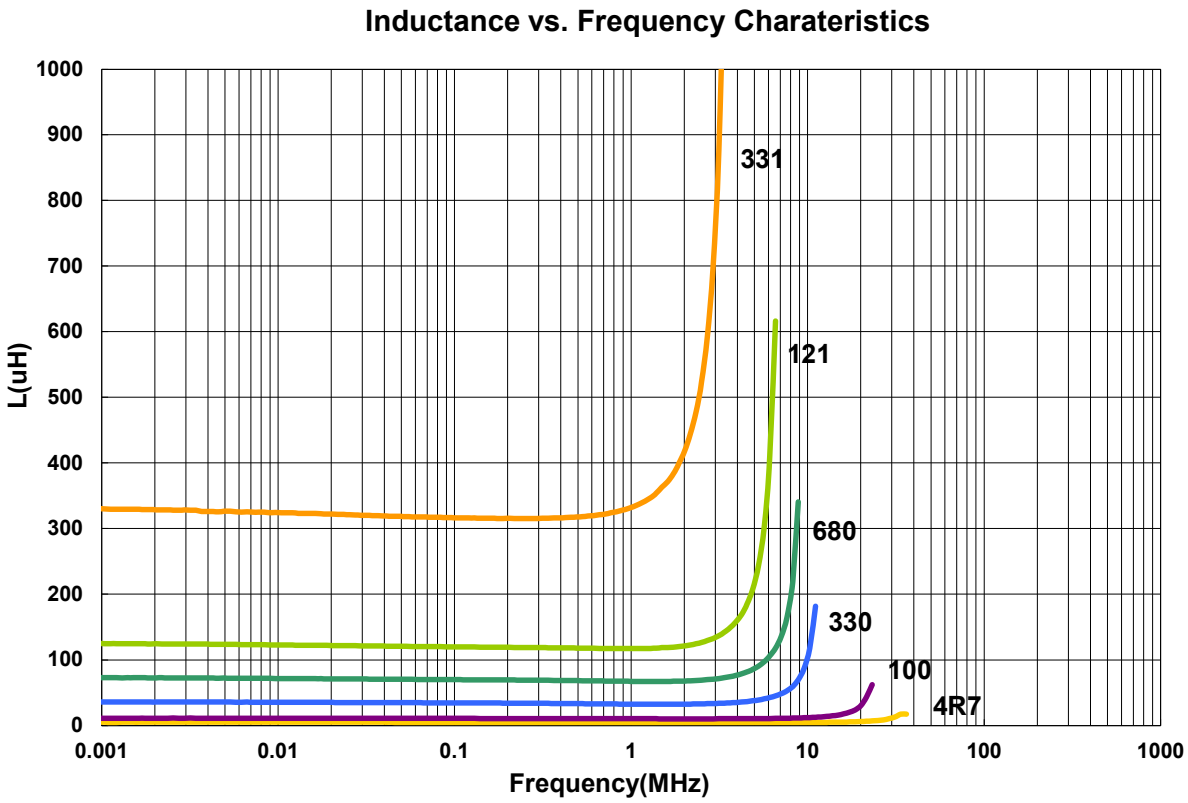
CHILISIN ELECTRONICS CORP.

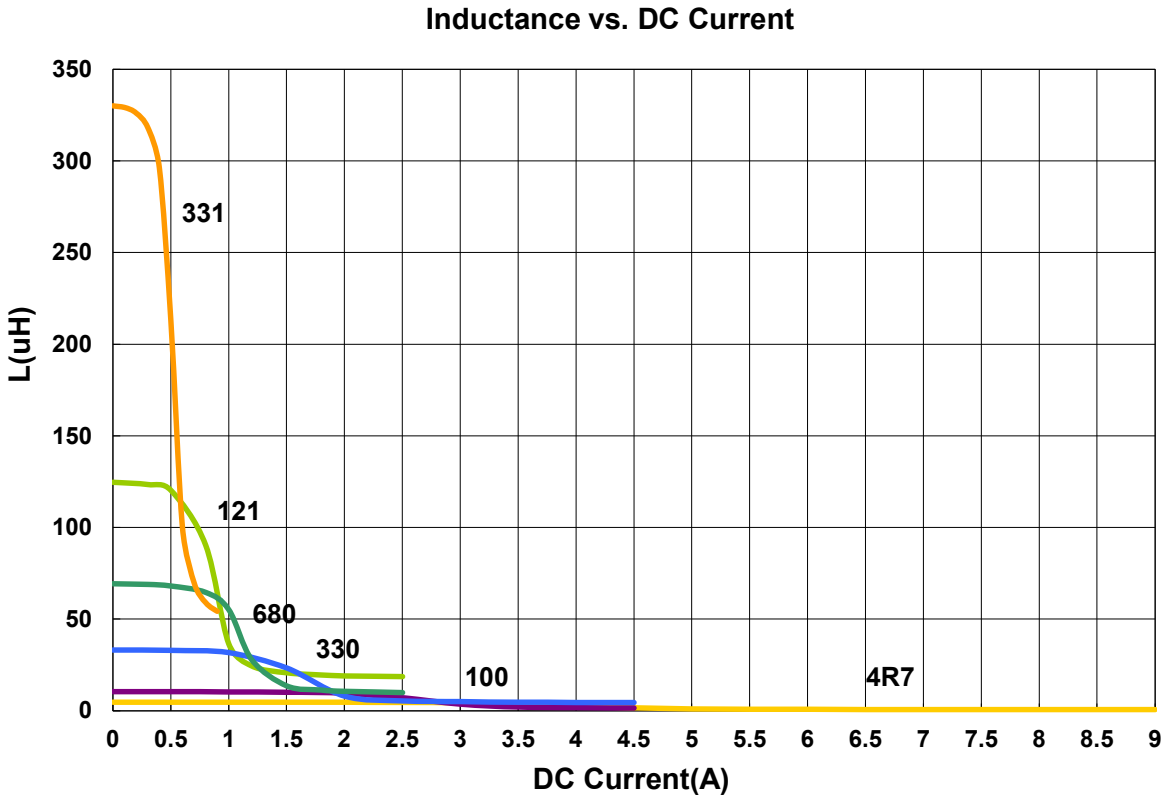
Power Inductor APSD Series

Automotive
AEC-Q200

APSD00060545 Type

■ Characteristics Graph





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Pulse a YAGEO company

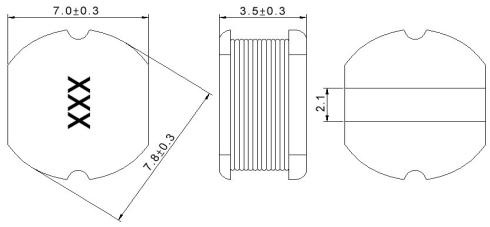
CHILISIN ELECTRONICS CORP.

Power Inductor APSD Series

Automotive
AEC-Q200

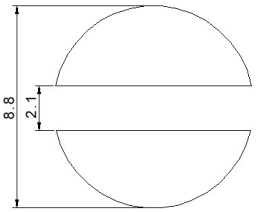
APSD00080735 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APSD000807352R2□00	2.2	7.96 MHz,1 V	0.03	3.2	3.2	20	2R2
APSD000807354R7□00	4.7	2.52 MHz,1 V	0.04	1.6	1.6	20	4R7
APSD00080735100□00	10	2.52 MHz,1 V	0.08	1.44	1.44	20	100
APSD00080735120□00	12	2.52 MHz,1 V	0.09	1.39	1.39	10,20	120
APSD00080735150□00	15	2.52 MHz,1 V	0.1	1.24	1.24	10,20	150
APSD00080735180□00	18	2.52 MHz,1 V	0.11	1.12	1.12	20	180
APSD00080735220□00	22	2.52 MHz,1 V	0.13	1.07	1.07	20	220
APSD00080735270□00	27	2.52 MHz,1 V	0.15	0.94	0.94	20	270
APSD00080735330□00	33	2.52 MHz,1 V	0.17	0.85	0.85	10,20	330
APSD00080735390□00	39	2.52 MHz,1 V	0.22	0.74	0.74	10,20	390
APSD00080735470□00	47	2.52 MHz,1 V	0.25	0.68	0.68	10,20	470
APSD00080735560□00	56	2.52 MHz,1 V	0.28	0.64	0.64	10,20	560
APSD00080735680□00	68	2.52 MHz,1 V	0.33	0.59	0.59	10,20	680
APSD00080735820□00	82	2.52 MHz,1 V	0.41	0.54	0.54	10,20	820
APSD00080735101□00	100	1 kHz,1 V	0.48	0.51	0.51	10,20	101
APSD00080735121□00	120	1 kHz,1 V	0.54	0.49	0.49	10,20	121
APSD00080735151□00	150	1 kHz,1 V	0.75	0.4	0.4	10,20	151
APSD00080735181□00	180	1 kHz,1 V	1.02	0.36	0.36	10,20	181
APSD00080735221□00	220	1 kHz,1 V	1.2	0.31	0.31	10,20	221
APSD00080735271□00	270	1 kHz,1 V	1.31	0.29	0.29	10,20	271
APSD00080735331□00	330	1 kHz,1 V	1.5	0.28	0.28	10,20	331
APSD00080735561□00	560	1 kHz,1 V	2.5	0.14	0.14	10,20	561

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

1. Operating temperature range －40℃～150℃(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current
3. Irms for a 40°C temperature rise from 25°C ambient.
4. Measure Equipment:

   L: Agilent E4980 or HP4284A (over 1MHz), HP4285A (under 1MHz)

   RDC: Chroma 16502

   Isat: HP4284+42841A or WK3260B+WK3265B

   Irms: WK3255BQ+ WK3265B (or equivalent)

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Pulse a YAGEO company

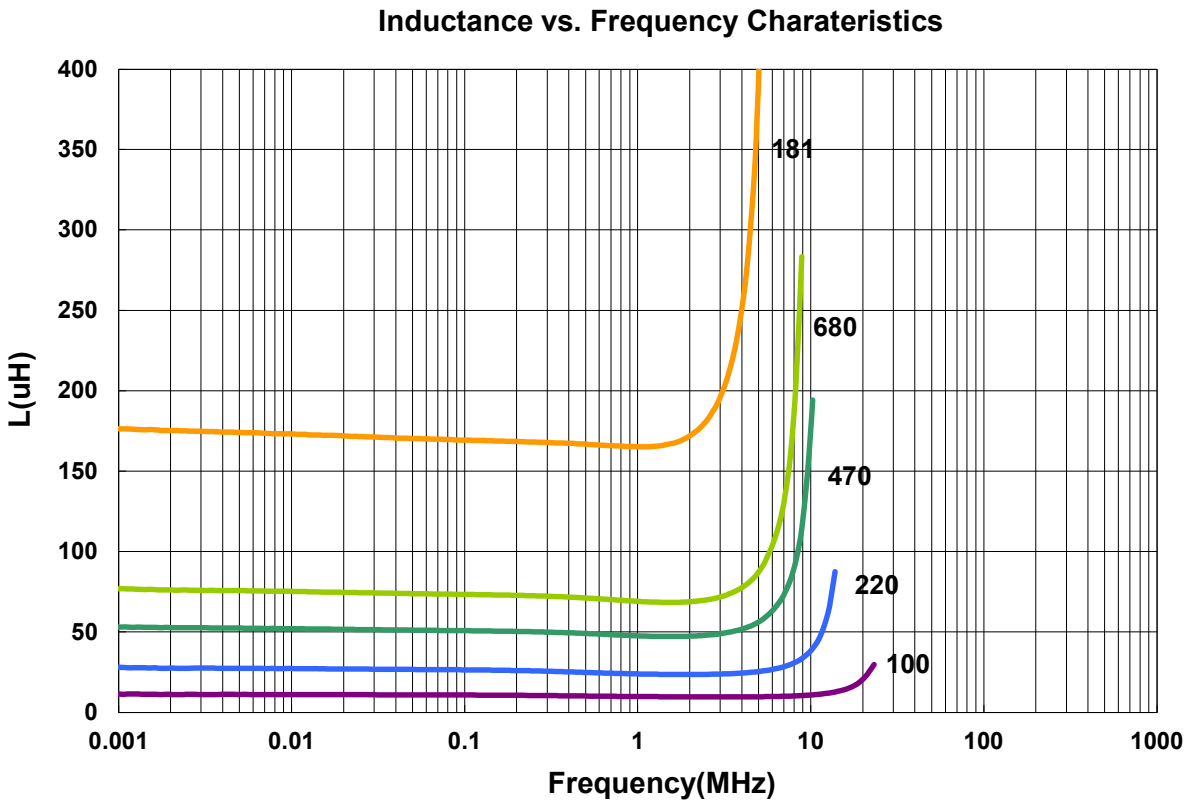
CHILISIN ELECTRONICS CORP.

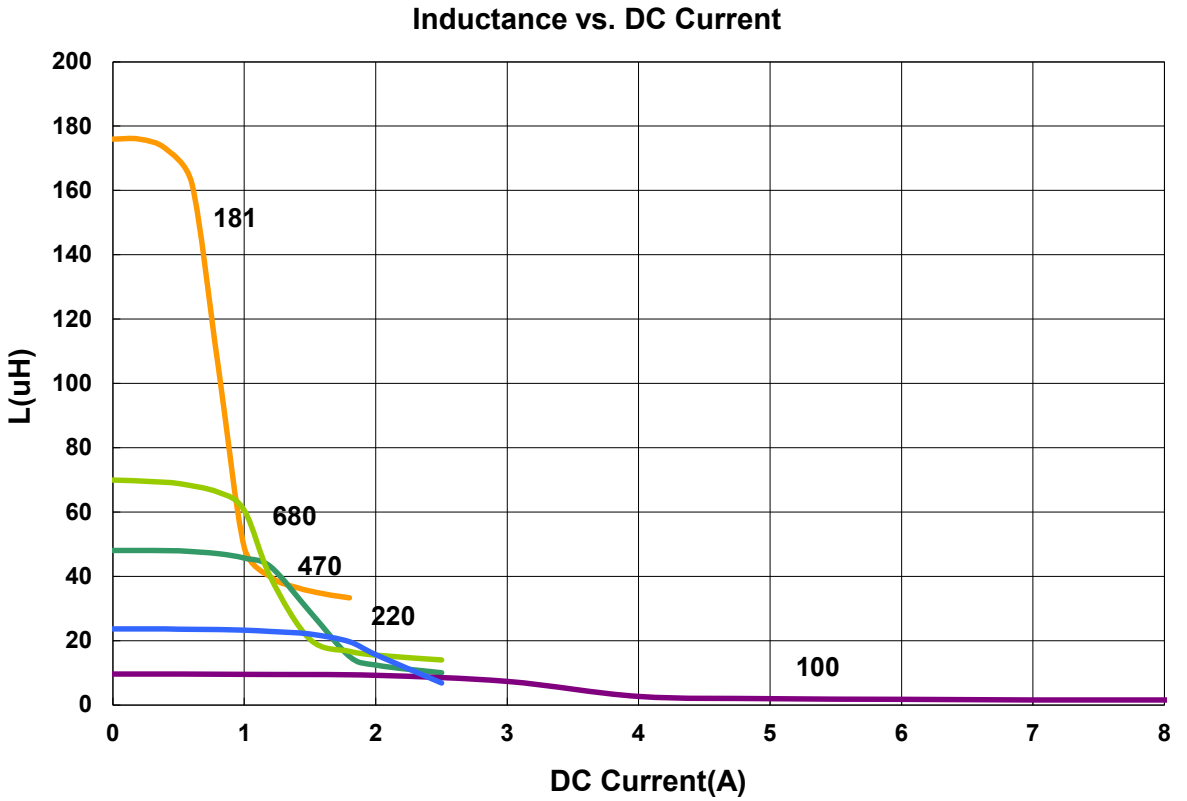
Power Inductor APSD Series

Automotive
AEC-Q200

APSD00080735 Type

■ Characteristics Graph





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Pulse a YAGEO company

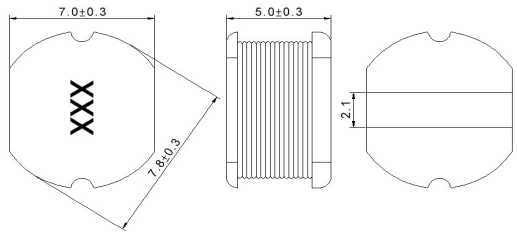
CHILISIN ELECTRONICS CORP.

Power Inductor APSD Series

Automotive
AEC-Q200

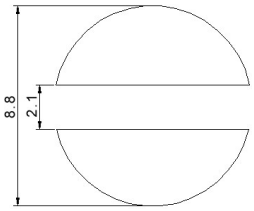
APSD00080750 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APSD000807501R4□00	1.4	7.96 MHz,1 V	0.02	3.7	3.7	20	1R4
APSD000807501R5□00	1.5	7.96 MHz,1 V	0.02	3.7	3.7	20	1R5
APSD000807501R8□00	1.8	7.96 MHz,1 V	0.02	3.7	3.7	20	1R8
APSD000807502R2□00	2.2	7.96 MHz,1 V	0.02	3.7	3.7	20	2R2
APSD000807502R7□00	2.7	7.96 MHz,1 V	0.02	3.7	3.7	20	2R7
APSD000807503R0□00	3	7.96 MHz,1 V	0.025	3.7	3.7	20	3R0
APSD000807503R3□00	3.3	7.96 MHz,1 V	0.03	3.7	3.7	20	3R3
APSD000807503R6□00	3.6	7.96 MHz,1 V	0.03	3.7	3.7	20	3R6
APSD000807503R9□00	3.9	7.96 MHz,1 V	0.03	3.7	3.7	20	3R9
APSD000807504R7□00	4.7	7.96 MHz,1 V	0.04	3.5	3.5	10,20	4R7
APSD000807505R6□00	5.6	7.96 MHz,1 V	0.04	3.3	3.3	20	5R6
APSD000807506R8□00	6.8	7.96 MHz,1 V	0.04	3.1	3.1	20	6R8
APSD000807508R2□00	8.2	7.96 MHz,1 V	0.05	2.7	2.7	20	8R2
APSD00080750100□00	10	2.52 MHz,1 V	0.07	2.3	2.3	10,20	100
APSD00080750120□00	12	2.52 MHz,1 V	0.08	2	2	20	120
APSD00080750150□00	15	2.52 MHz,1 V	0.09	1.8	1.8	10,20	150
APSD00080750180□00	18	2.52 MHz,1 V	0.1	1.6	1.6	20	180
APSD00080750220□00	22	2.52 MHz,1 V	0.11	1.5	1.5	10,20	220
APSD00080750270□00	27	2.52 MHz,1 V	0.12	1.3	1.3	20	270
APSD00080750330□00	33	2.52 MHz,1 V	0.13	1.2	1.2	10,20	330
APSD00080750390□00	39	2.52 MHz,1 V	0.16	1.1	1.1	10,20	390
APSD00080750470□00	47	2.52 MHz,1 V	0.18	1.1	1.1	10,20	470
APSD00080750560□00	56	2.52 MHz,1 V	0.24	0.94	0.94	10,20	560
APSD00080750680□00	68	2.52 MHz,1 V	0.28	0.85	0.85	10,20	680
APSD00080750820□00	82	2.52 MHz,1 V	0.37	0.78	0.78	10,20	820
APSD00080750101□00	100	1 kHz,1 V	0.43	0.72	0.72	10,20	101
APSD00080750121□00	120	1 kHz,1 V	0.47	0.66	0.66	10,20	121
APSD00080750151□00	150	1 kHz,1 V	0.64	0.58	0.58	10,20	151
APSD00080750181□00	180	1 kHz,1 V	0.71	0.51	0.51	10,20	181
APSD00080750221□00	220	1 kHz,1 V	0.96	0.49	0.49	10,20	221

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

1. Operating temperature range - 40°C ~ 150°C(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current
3. Irms for a 40°C temperature rise from 25°C ambient.
4. Measure Equipment:
   L: Agilent E4980 or HP4284A (over 1MHz), HP4285A (under 1MHz)
   RDC: Chroma 16502
   Isat: HP4284+42841A or WK3260B+WK3265B
   Irms: WK3255BQ+ WK3265B (or equivalent)

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Pulse a YAGEO company

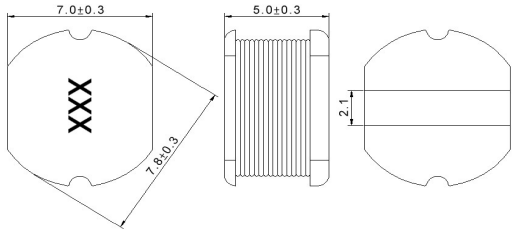
CHILISIN ELECTRONICS CORP.

Power Inductor APSD Series

Automotive
AEC-Q200

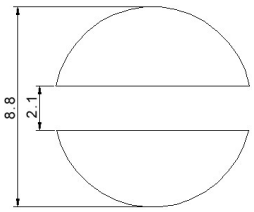
APSD00080750 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APSD00080750271□00	270	1 kHz,1 V	1.11	0.42	0.42	10,20	271
APSD00080750331□00	330	1 kHz,1 V	1.26	0.4	0.4	10,20	331
APSD00080750391□00	390	1 kHz,1 V	1.77	0.36	0.36	10,20	391
APSD00080750471□00	470	1 kHz,1 V	1.96	0.34	0.34	10,20	471
APSD00080750561□00	560	1 kHz,1 V	2.41	0.32	0.32	10,20	561
APSD00080750681□00	680	1 kHz,1 V	2.5	0.29	0.29	10,20	681
APSD00080750102□00	1000	1 kHz,1 V	2.8	0.19	0.19	10,20	102

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

1. Operating temperature range - 40°C ~ 150°C(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current
3. Irms for a 40°C temperature rise from 25°C ambient.
4. Measure Equipment:
   L: Agilent E4980 or HP4284A (over 1MHz), HP4285A (under 1MHz)
   RDC: Chroma 16502
   Isat: HP4284+42841A or WK3260B+WK3265B
   Irms: WK3255BQ+ WK3265B (or equivalent)

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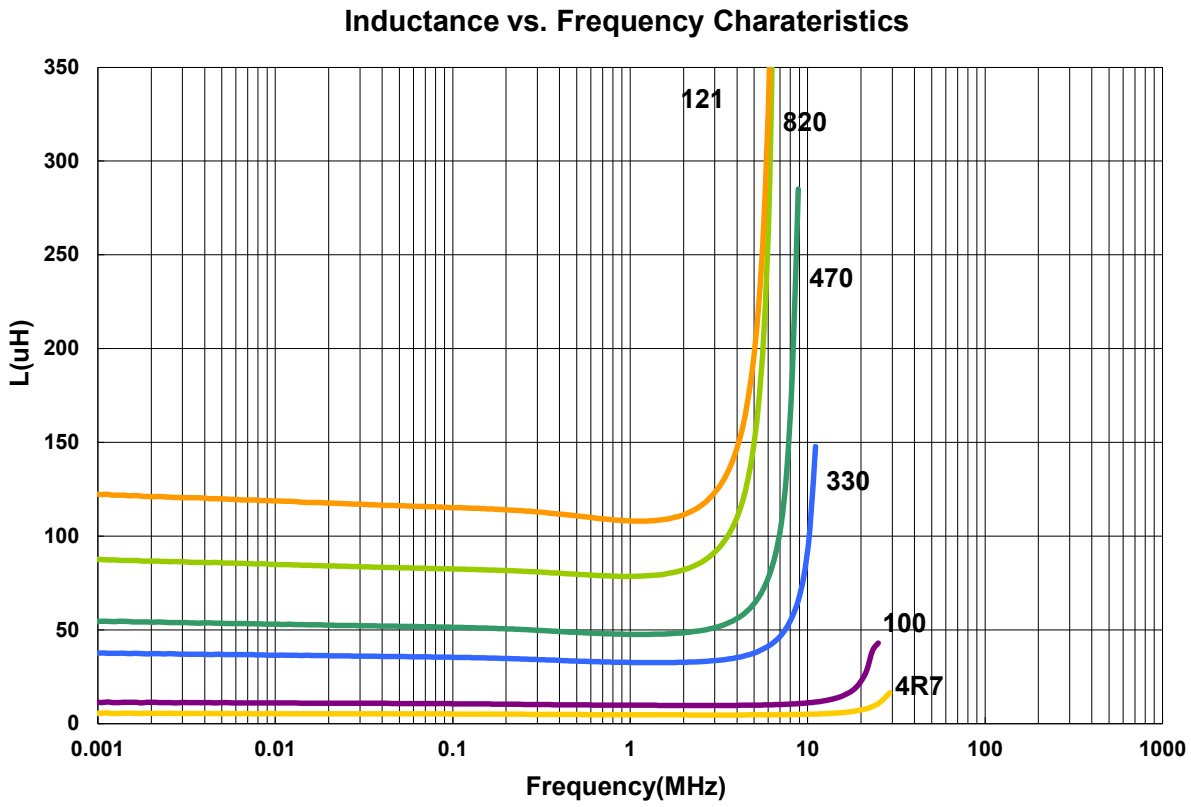
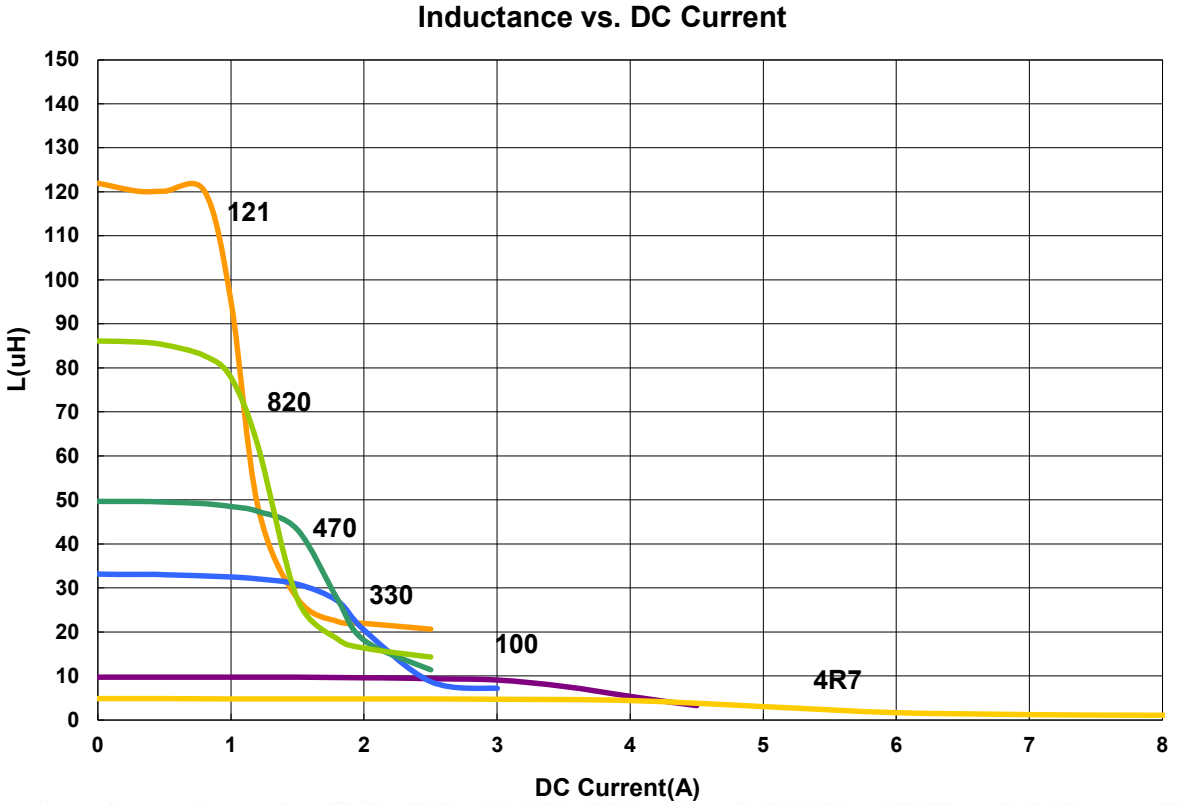
Power Inductor APSD Series

Automotive
AEC-Q200

APSD00080750 Type

■ Characteristics Graph





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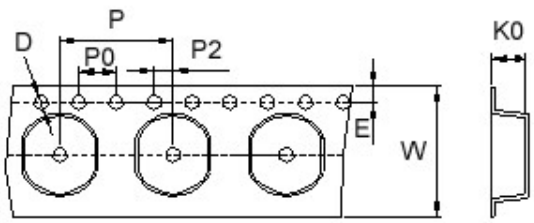
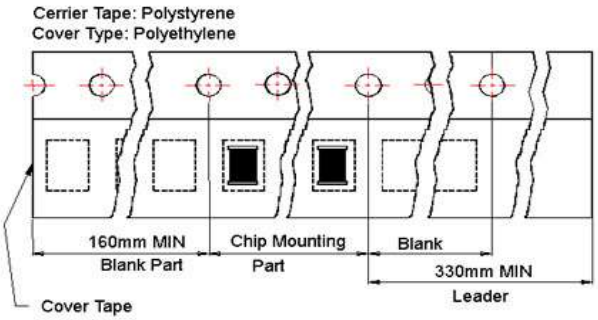
Power Inductor APSD Series

Automotive
AEC-Q200

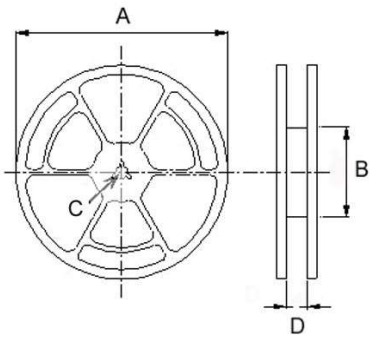
■ Packaging

Tape Dimensions





Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
APSD00030321	2.5	1.55	1.75	12	8	4	2	330	100	13	13.4	3000
APSD00050432	3.55	1.55	1.75	12	8	4	2	330	100	13	13.4	2000
APSD00060530	3.3	1.5	1.75	16	8	4	2	330	100	13	17.4	2000
APSD00060545	4.8	1.55	1.75	16	8	4	2	330	100	13	17.4	1500
APSD00080735	3.8	1.55	1.75	16	12	4	2	330	100	13	17.4	1000
APSD00080750	5.2	1.55	1.75	16	12	4	2	330	100	13	17.4	700

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Power Inductor APSL Series

Automotive
AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Power Circuit | Unshield | Wire Wound | Ferrite

Part Numbering

A	PSL	00	130952	1R0	M	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			130952 12.95x9.4x5.21	R47 0.47	M ±20%	
			130911 12.95x9.4x11.43	1R0 1.0	T ±30%	
				101 100		

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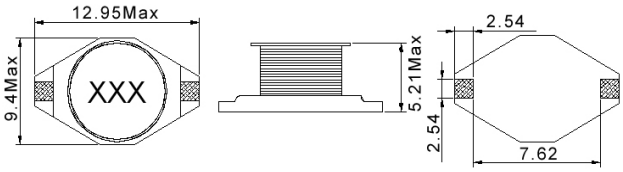
CHILISIN ELECTRONICS CORP.

Power Inductor APSL Series

Automotive
AEC-Q200

APSL00130952 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern

unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat (A)	Irms (A)	SRF (MHz)Typ.	Tolerance (±%)	Marking
APSL001309521R0□00	1	100 kHz,0.1 V	0.009	9	6.8	100	20	1R0
APSL001309521R5□00	1.5	100 kHz,0.1 V	0.010	8	6.4	90	20	1R5
APSL001309522R2□00	2.2	100 kHz,0.1 V	0.012	7	6.1	80	20	2R2
APSL001309523R3□00	3.3	100 kHz,0.1 V	0.015	6.4	5.4	65	20	3R3
APSL001309524R7□00	4.7	100 kHz,0.1 V	0.018	5.4	4.8	45	20	4R7
APSL001309526R8□00	6.8	100 kHz,0.1 V	0.027	4.6	4.4	38	20	6R8
APSL00130952100□00	10	100 kHz,0.1 V	0.038	3.8	3.9	30	20	100
APSL00130952120□00	12	100 kHz,0.1 V	0.043	3.5	3.6	27	20	120
APSL00130952150□00	15	100 kHz,0.1 V	0.046	3	3.1	27	20	150
APSL00130952220□00	22	100 kHz,0.1 V	0.085	2.6	2.7	19	20	220
APSL00130952330□00	33	100 kHz,0.1 V	0.100	2	2.1	15	20	330
APSL00130952470□00	47	100 kHz,0.1 V	0.140	1.6	1.8	12	20	470
APSL00130952680□00	68	100 kHz,0.1 V	0.200	1.4	1.5	10	20	680
APSL00130952101□00	100	100 kHz,0.1 V	0.260	1.2	1.3	9	20	101
APSL00130952151□00	150	100 kHz,0.1 V	0.400	1	1	6	20	151
APSL00130952221□00	220	100 kHz,0.1 V	0.610	0.8	0.8	5	20	221
APSL00130952331□00	330	100 kHz,0.1 V	1.020	0.6	0.6	4.5	20	331
APSL00130952471□00	470	100 kHz,0.1 V	1.270	0.5	0.5	3.5	20	471
APSL00130952681□00	680	100 kHz,0.1 V	2.020	0.4	0.4	2.5	20	681
APSL00130952102□00	1000	100 kHz,0.1 V	3.000	0.3	0.3	2	20	102
APSL00130952152□00	1500	100 kHz,0.1 V	4.500	0.25	0.2	1.4	20	152

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

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Isat for Inductance drop 20% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Measure Equipment:
   L: Agilent E4980 or HP4284A
   RDC: Chroma 16502
   Isat: HP4284+42841A or WK3260B+WK3265B
   SRF: HP4291A or HP4192A

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Pulse a YAGEO company

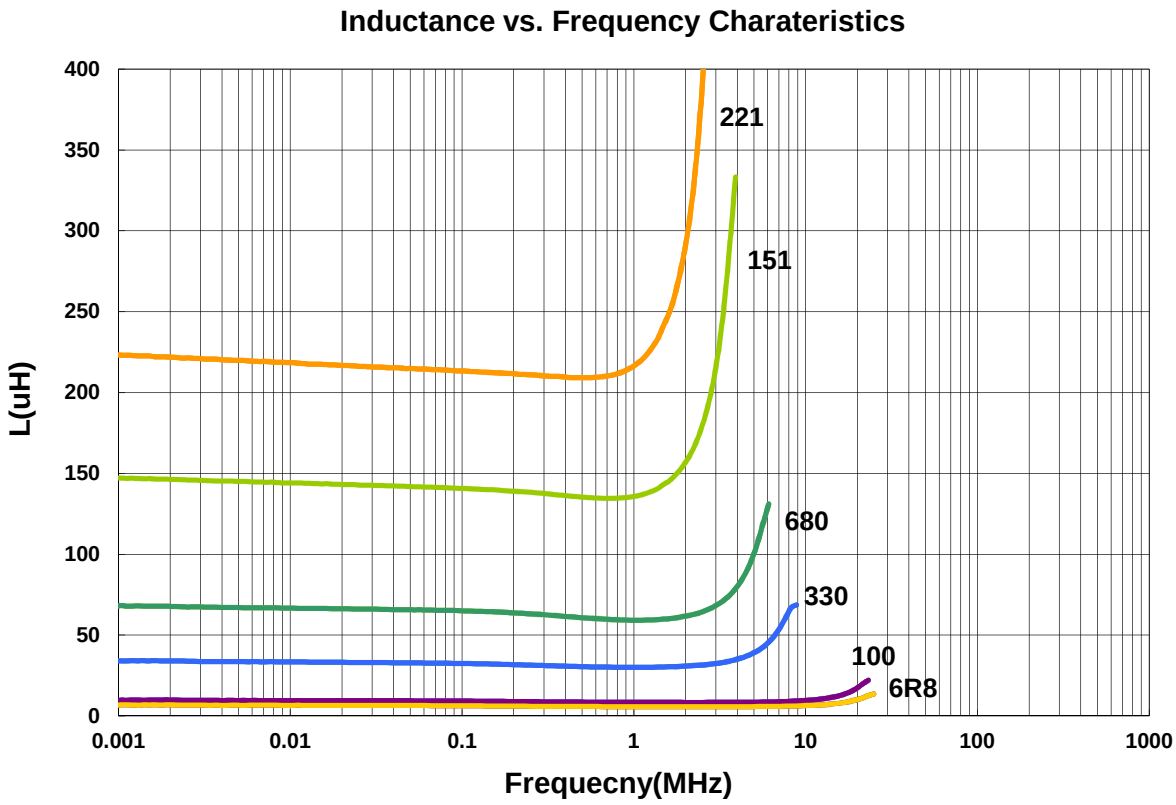
CHILISIN ELECTRONICS CORP.

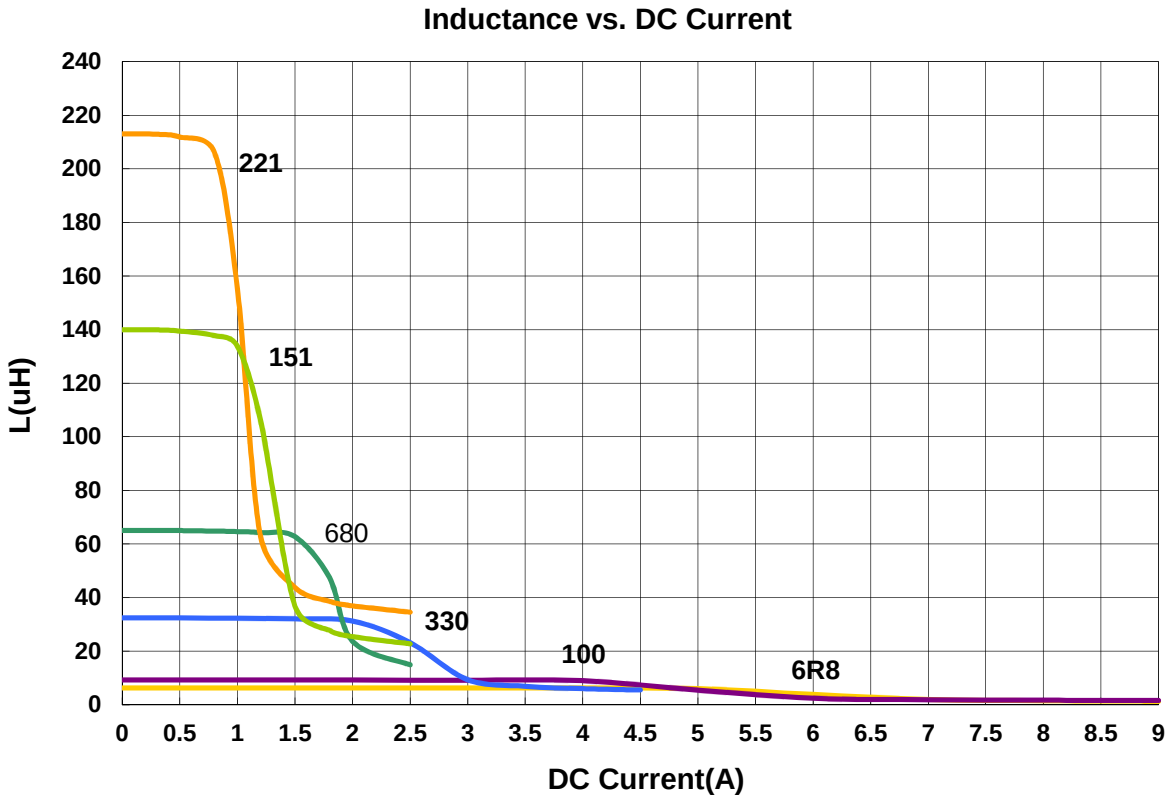
Power Inductor APSL Series

Automotive
AEC-Q200

APSL00130952 Type

■ Characteristics Graph





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Pulse a YAGEO company

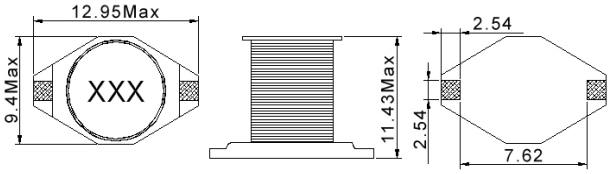
CHILISIN ELECTRONICS CORP.

Power Inductor APSL Series

Automotive
AEC-Q200

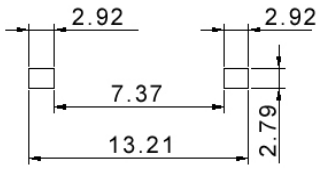
APSL00130911 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat (A)	Irms (A)	SRF (MHz)Typ.	Tolerance (±%)	Marking
APSL001309112R2□00	2.2	100 kHz,0.1 V	0.007	13			20	2R2
APSL001309113R3□00	3.3	100 kHz,0.1 V	0.025	10	4	30	20	3R3
APSL001309114R7□00	4.7	100 kHz,0.1 V	0.033	8	3.5	25	20	4R7
APSL001309116R8□00	6.8	100 kHz,0.1 V	0.025	7			20	6R8
APSL00130911100□00	10	100 kHz,0.1 V	0.033	8	3.5	22	20	100
APSL00130911150□00	15	100 kHz,0.1 V	0.042	7	3	18	20	150
APSL00130911220□00	22	100 kHz,0.1 V	0.054	5.5	2.5	11	20	220
APSL00130911330□00	33	100 kHz,0.1 V	0.080	4	2	9	20	330
APSL00130911470□00	47	100 kHz,0.1 V	0.100	3.8	1.6	8	20	470
APSL00130911680□00	68	100 kHz,0.1 V	0.170	3	1.2	7	20	680
APSL00130911101□00	100	100 kHz,0.1 V	0.220	2.5	1.2	5	20	101
APSL00130911151□00	150	100 kHz,0.1 V	0.340	2	0.9	4	20	151
APSL00130911221□00	220	100 kHz,0.1 V	0.440	1.6	0.7	3.5	20	221
APSL00130911271□00	270	100 kHz,0.1 V	0.600	1.4	0.6	2.5	20	271
APSL00130911331□00	330	100 kHz,0.1 V	0.700	1.2	0.6	2.5	20	331
APSL00130911471□00	470	100 kHz,0.1 V	0.950	1	0.3	2	20	471
APSL00130911681□00	680	100 kHz,0.1 V	1.200	1	0.2	2	20	681
APSL00130911102□00	1000	100 kHz,0.1 V	2.000	0.8	0.1	1.5	20	102

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

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Isat for Inductance drop 20% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. Measure Equipment:
   L: Agilent/ E4980 or HP4284A
   RDC: Chroma 16502
   Isat: HP4284+42841A or WK3260B+WK3265B
   SRF: HP4291A or HP4192A

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Pulse a YAGEO company

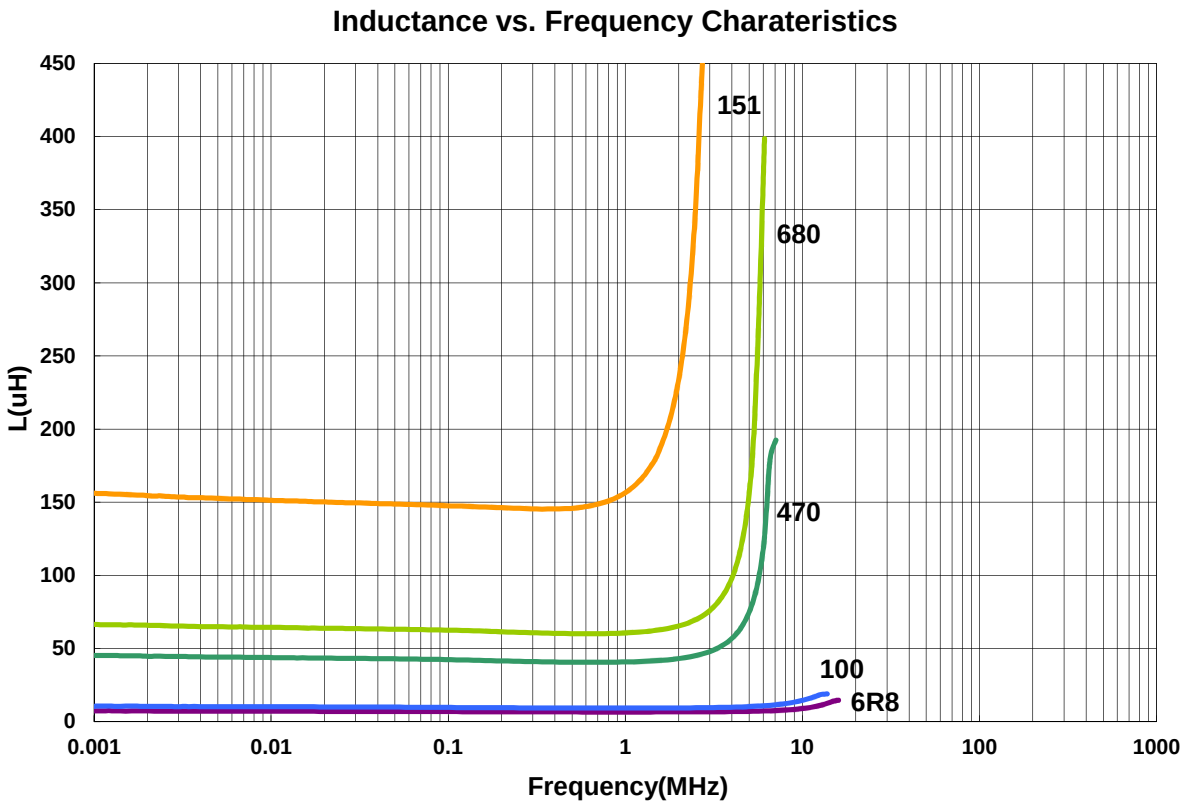
CHILISIN ELECTRONICS CORP.

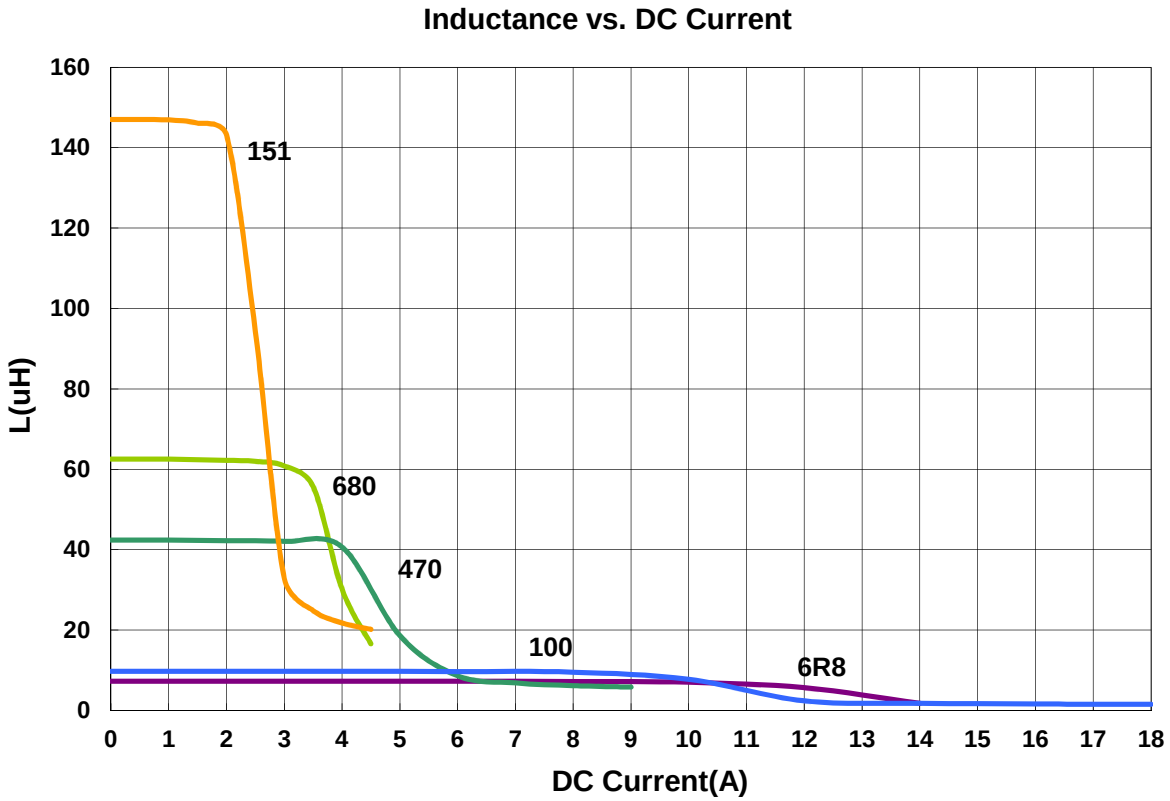
Power Inductor APSL Series

Automotive
AEC-Q200

APSL00130911 Type

■ Characteristics Graph





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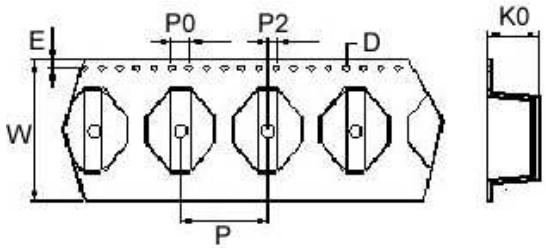
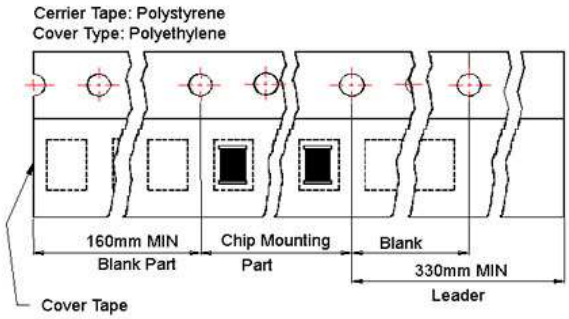
Power Inductor APSL Series

Automotive
AEC-Q200

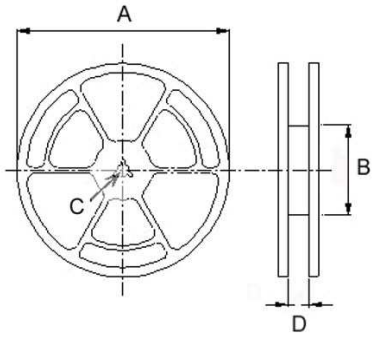
Packaging

Tape Dimensions





Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
APSL00130952	5.4	1.55	1.75	24	16	4	2	330	100	13	13.4	750
APSL00130911	11.2	1.55	1.75	24	20	4	2	330	100	13	13.4	225

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

SMD Power Chokes – AFSI Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Power Circuit | Shield | Wire Wound | Metal | Ultra High Current

■ Part Numbering

A	FSI	00	090908	1R0	M	05
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code

Dimensions Code (mm)		Inductance (uH)		Tolerance	
090908	9.3x9x8.1	R47	0.47	M	±20%
121109	12x11x8.8	4R7	4.7		
111010	12.1x10.8x10	100	10		
161508	16.8x15.8x8				
161510	16.8x15.8x10				

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Pulse a YAGEO company

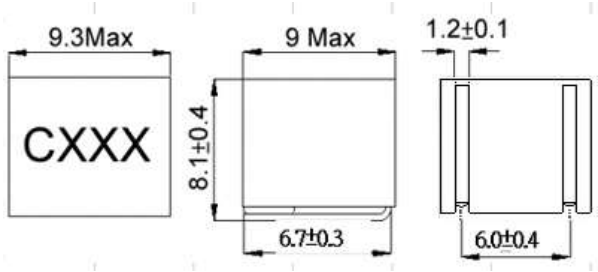
CHILISIN ELECTRONICS CORP.

SMD Power Chokes – AFSI Series

Automotive AEC-Q200

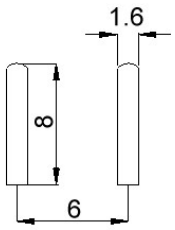
AFSI00090908 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Typ(Max)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AFSI00090908R68M05	0.68	100kHz,1V	1.3(2)	38	36	20	CR68
AFSI000909081R0M05	1	100kHz,1V	1.7(2.5)	31	34	20	C1R0
AFSI000909081R5M05	1.5	100kHz,1V	2.5(3.5)	28	28	20	C1R5
AFSI000909082R2M05	2.2	100kHz,1V	2.9(3.8)	24	25	20	C2R2
AFSI000909083R3M05	3.3	100kHz,1V	5.6(6.5)	19	17.5	20	C3R3
AFSI000909084R7M05	4.7	100kHz,1V	7(8.5)	17.5	15	20	C4R7
AFSI000909086R8M05	6.8	100kHz,1V	12(13)	14	12	20	C6R8
AFSI000909088R2M05	8.2	100kHz,1V	13.3(15)	12	11	20	C8R2
AFSI00090908100M05	10	100kHz,1V	13.8(15.5)	11	10	20	C100

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

1. Customized Specifications are welcome
2. Operating temperature range －50℃～155℃(Including self - temperature rise)
3. Isat for Inductance drop 30% from its value without current
4. Irms for a 40℃ temprature rise from 25℃ ambient with current
5. Apply glue around the product to fix the product body after loading the plate
6. Measure Equipment:
   L: WK4237
   RDC: CHEN HWA502
   Isat: WK3260B/ 3265
   Irms: WK3260B/ 3265

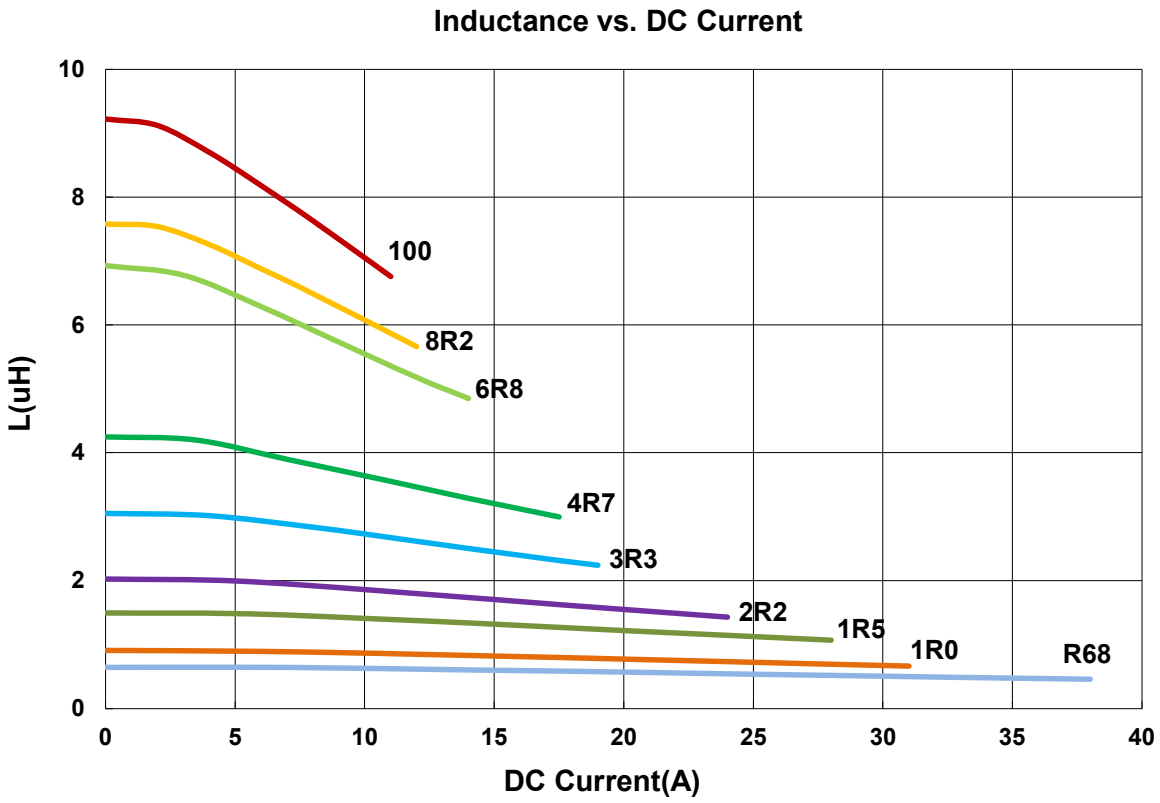
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

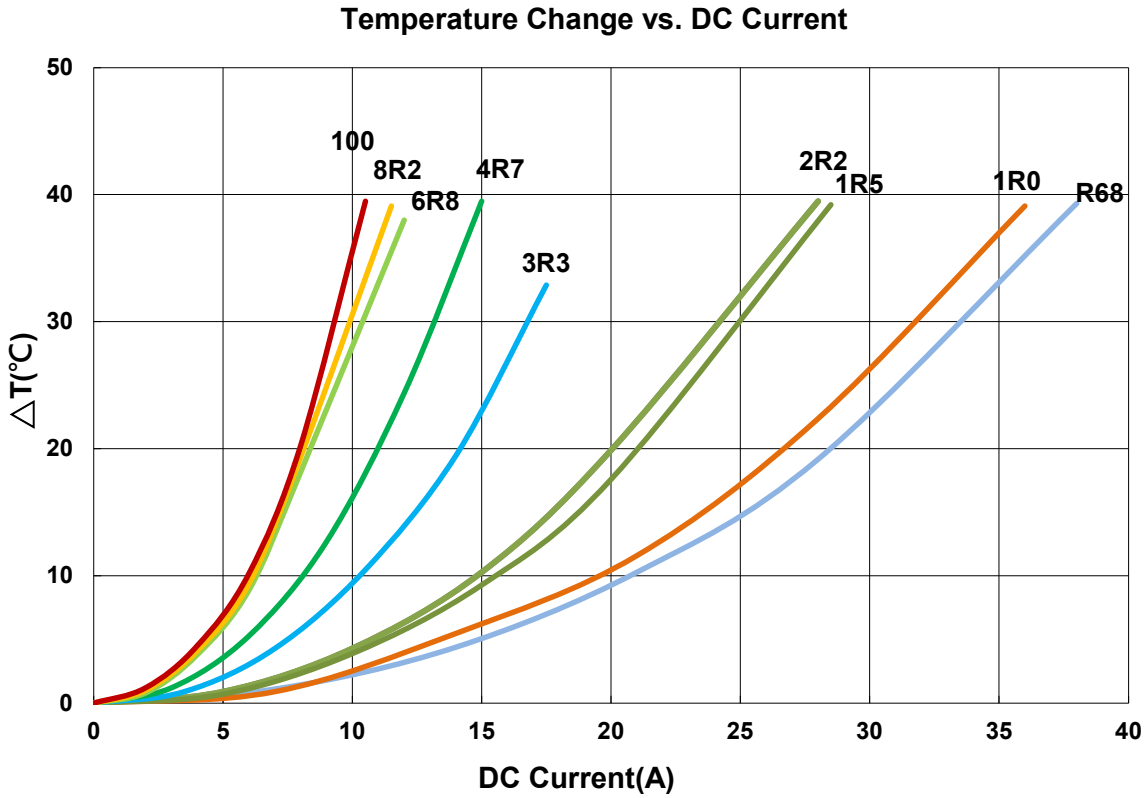
SMD Power Chokes – AFSI Series

Automotive
AEC-Q200

AFSI00090908 Type

■ Characteristics Graph





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Pulse a YAGEO company

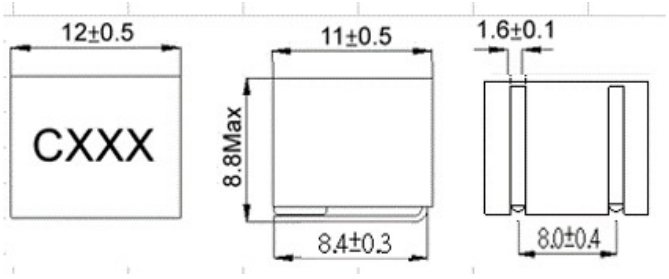
CHILISIN ELECTRONICS CORP.

SMD Power Chokes – AFSI Series

Automotive
AEC-Q200

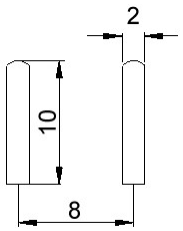
AFSI00121109 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Typ(Max)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AFSI00121109R47M05	0.47	100kHz,1V	1.1(1.5)	65	50	20	CR47
AFSI001211091R0M05	1	100kHz,1V	1.5(2.0)	45	40	20	C1R0
AFSI001211091R5M05	1.5	100kHz,1V	2.0(2.5)	36	33	20	C1R5
AFSI001211092R2M05	2.2	100kHz,1V	2.4(2.8)	30	30	20	C2R2
AFSI001211093R3M05	3.3	100kHz,1V	3.3(3.8)	26	26	20	C3R3
AFSI001211094R7M05	4.7	100kHz,1V	5.7(6.2)	23	20	20	C4R7
AFSI001211095R6M05	5.6	100kHz,1V	6.4(7.0)	21	18	20	C5R6
AFSI001211096R8M05	6.8	100kHz,1V	6.8(7.8)	19	17	20	C6R8
AFSI001211098R2M05	8.2	100kHz,1V	8.2(9.0)	18	16	20	C8R2
AFSI00121109100M05	10	100kHz,1V	11.3(12)	17.5	13	20	C100
AFSI00121109150M05	15	100kHz,1V	14.3(15)	13.5	11	20	C150

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

1. Customized Specifications are welcome
2. Operating temperature range －50℃～155℃(Including self - temperature rise)
3. Isat for Inductance drop 30% from its value without current
4. Irms for a 40℃ temprature rise from 25℃ ambient with current
5. Apply glue around the product to fix the product body after loading the plate
6. Measure Equipment:
   L: WK4237
   RDC: CHEN HWA502
   Isat: WK3260B/ 3265
   Irms: WK3260B/ 3265

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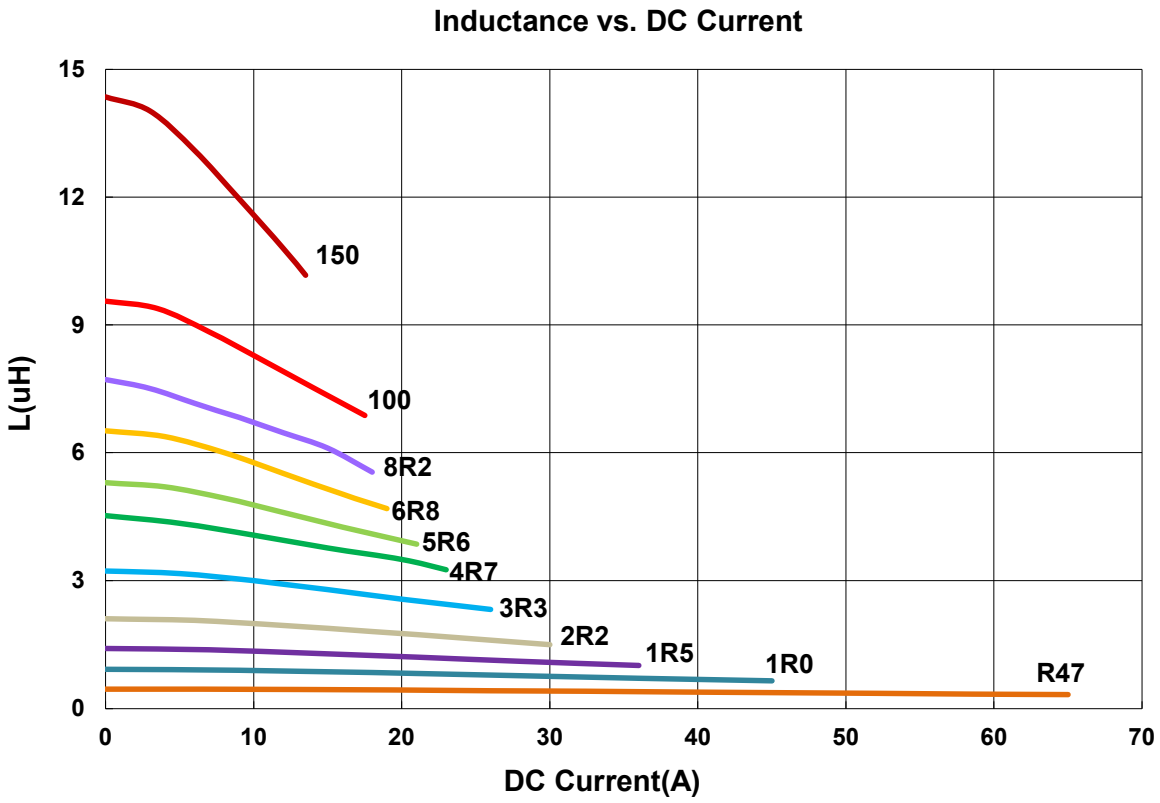
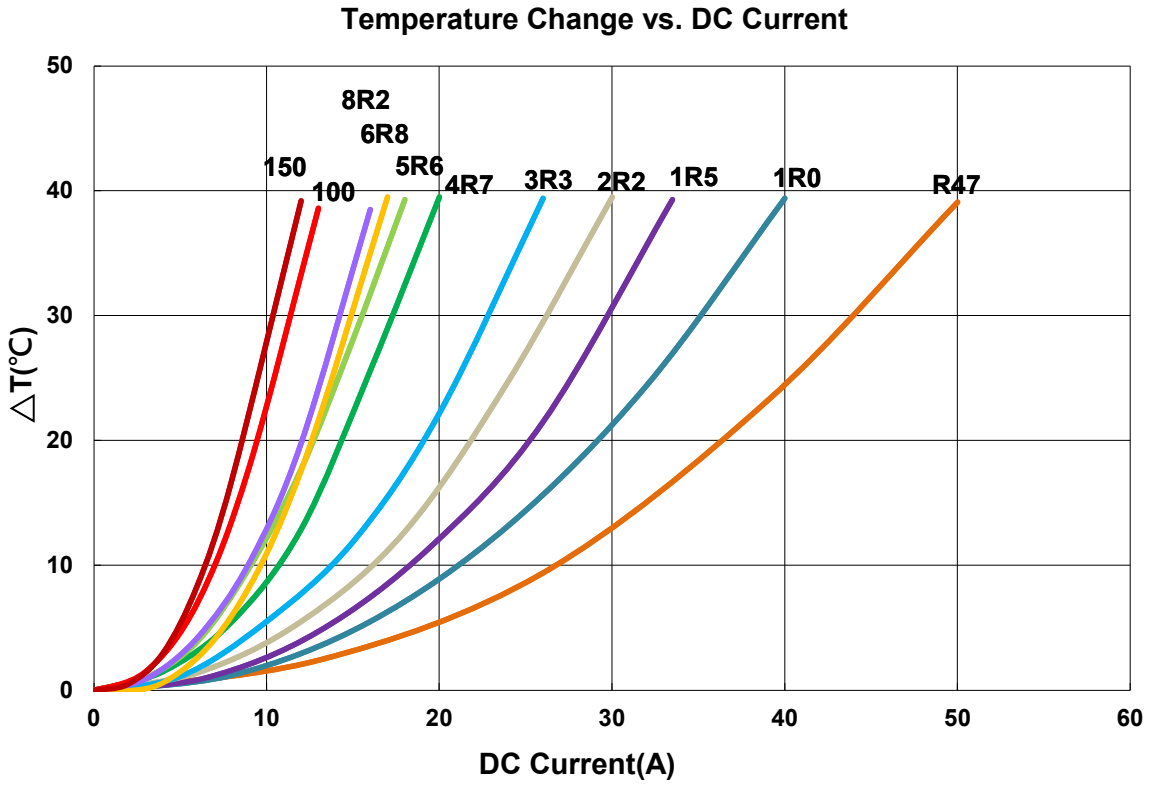
SMD Power Chokes – AFSI Series

Automotive
AEC-Q200

AFSI00121109 Type

■ Characteristics Graph





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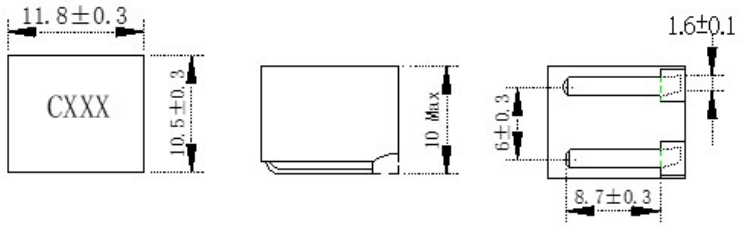
CHILISIN ELECTRONICS CORP.

SMD Power Chokes – AFSI Series

Automotive AEC-Q200

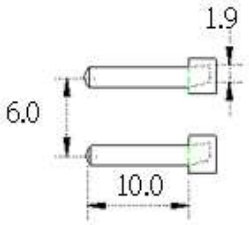
AFSI00111010 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Typ(Max)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AFSI00111010R45M17	0.45	100kHz,1V	0.86	71	52	20	CR45
AFSI00111010R68M17	0.68	100kHz,1V	1.05	62	47	20	CR68
AFSI001110101R0M17	1	100kHz,1V	1.3	55	42	20	C1R0
AFSI001110101R5M17	1.5	100kHz,1V	1.8	45	41	20	C1R5
AFSI001110102R2M17	2.2	100kHz,1V	2.8	38	33	20	C2R2
AFSI001110103R3M17	3.3	100kHz,1V	4.1	37	25	20	C3R3
AFSI001110104R7M17	4.7	100kHz,1V	5.7	33	24	20	C4R7
AFSI001110105R6M17	5.6	100kHz,1V	6.9	28	21	20	C5R6
AFSI001110106R8M17	6.8	100kHz,1V	8.9	27	19	20	C6R8
AFSI001110108R2M17	8.2	100kHz,1V	10	26	18	20	C8R2
AFSI00111010100M17	10	100kHz,1V	12.7	22	16	20	C100
AFSI00111010150M17	15	100kHz,1V	14.6	20	15	20	C150

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40°C temprature rise from 25°C ambient with current
4. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design125°C under worst case operating conditions. Component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
5. Apply glue around the product to fix the product body after loading the plate

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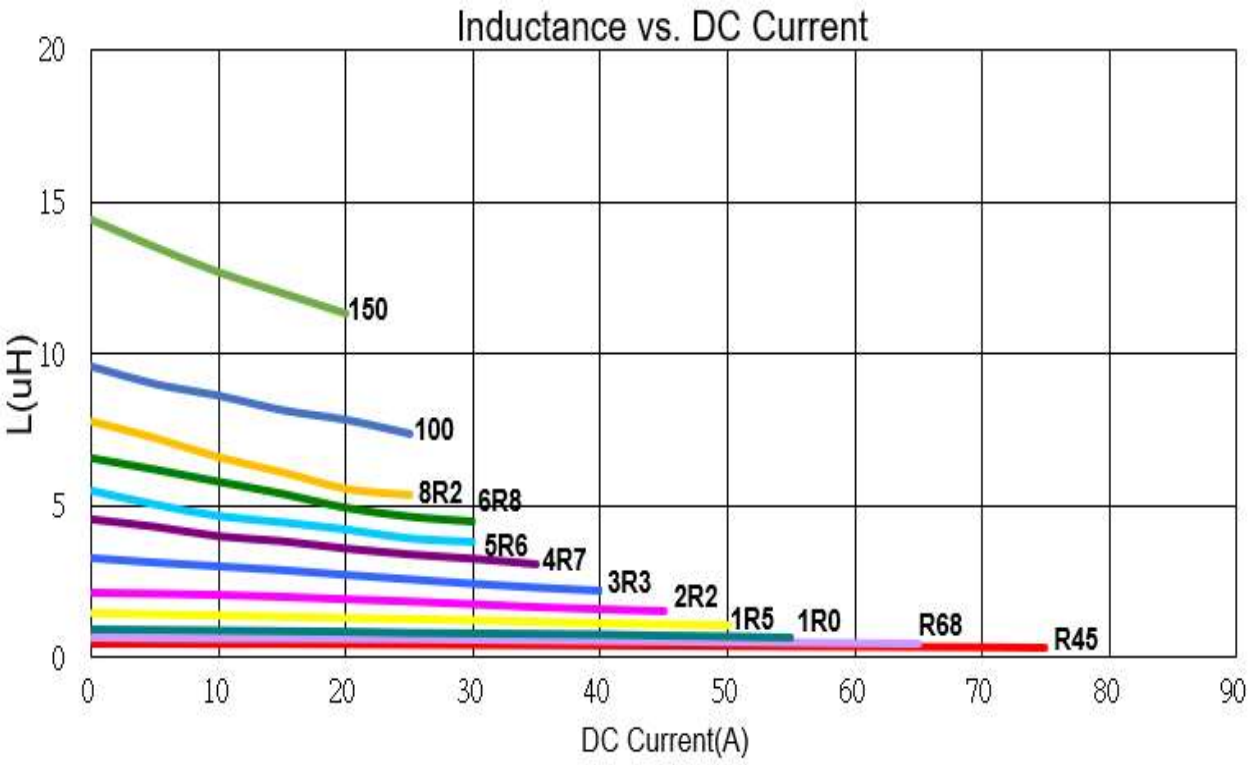
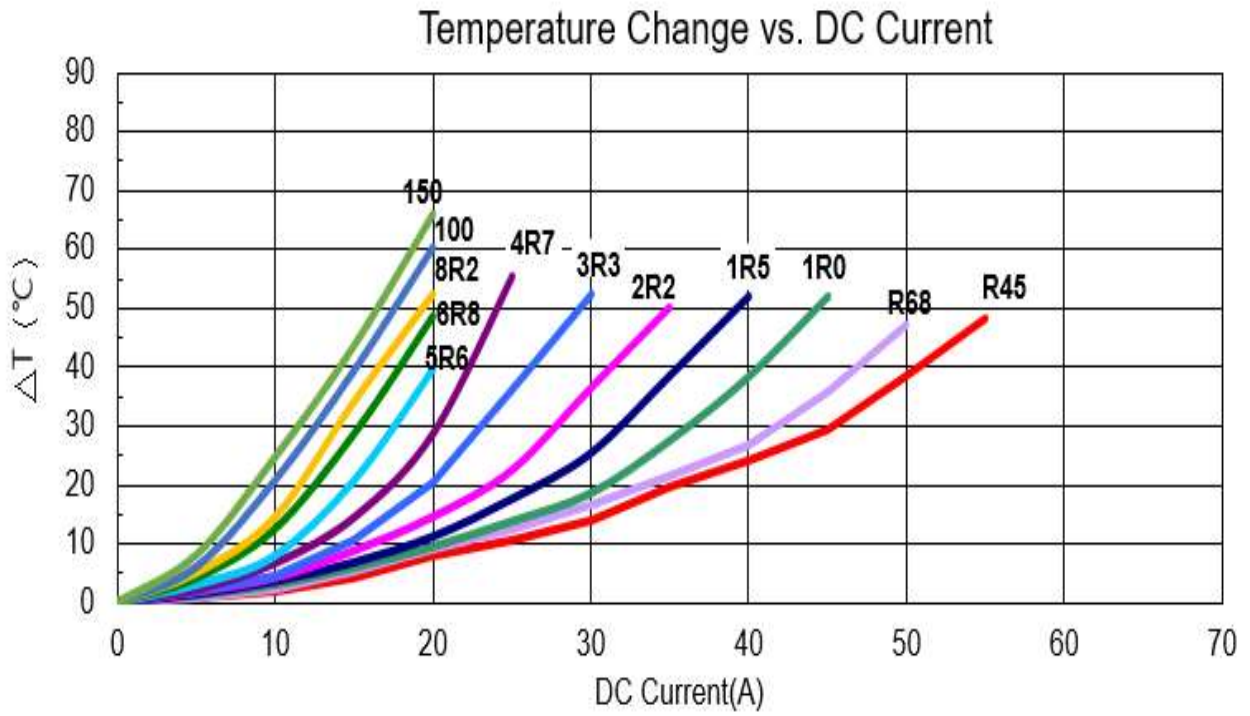
AFSI00111010 Type

■ Characteristics Graph





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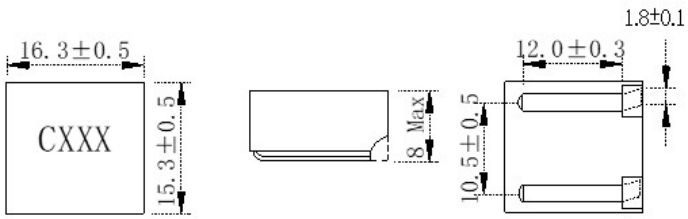
CHILISIN ELECTRONICS CORP.

SMD Power Chokes – AFSI Series

Automotive AEC-Q200

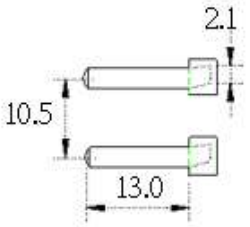
AFSI00161508 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Typ(Max)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AFSI00161508R74M17	0.74	100kHz,1V	0.96	86	59	20	CR74
AFSI001615081R0M17	1	100kHz,1V	1.15	74	57	20	C1R0
AFSI001615081R3M17	1.3	100kHz,1V	1.45	70	46	20	C1R3
AFSI001615081R8M17	1.8	100kHz,1V	1.93	65	44	20	C1R8
AFSI001615082R0M17	2	100kHz,1V	2.3	60	39	20	C2R0
AFSI001615083R0M17	3	100kHz,1V	3.1	50	35	20	C3R0
AFSI001615084R5M17	4.5	100kHz,1V	4.5	42	28	20	C4R5
AFSI001615085R4M17	5.4	100kHz,1V	5	37	27	20	C5R4
AFSI001615086R1M17	6.1	100kHz,1V	5.8	36	23	20	C6R1
AFSI001615087R8M17	7.8	100kHz,1V	6.8	33	21	20	C7R8

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design125°C under worst case operating conditions. Component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
5. Apply glue around the product to fix the product body after loading the plate

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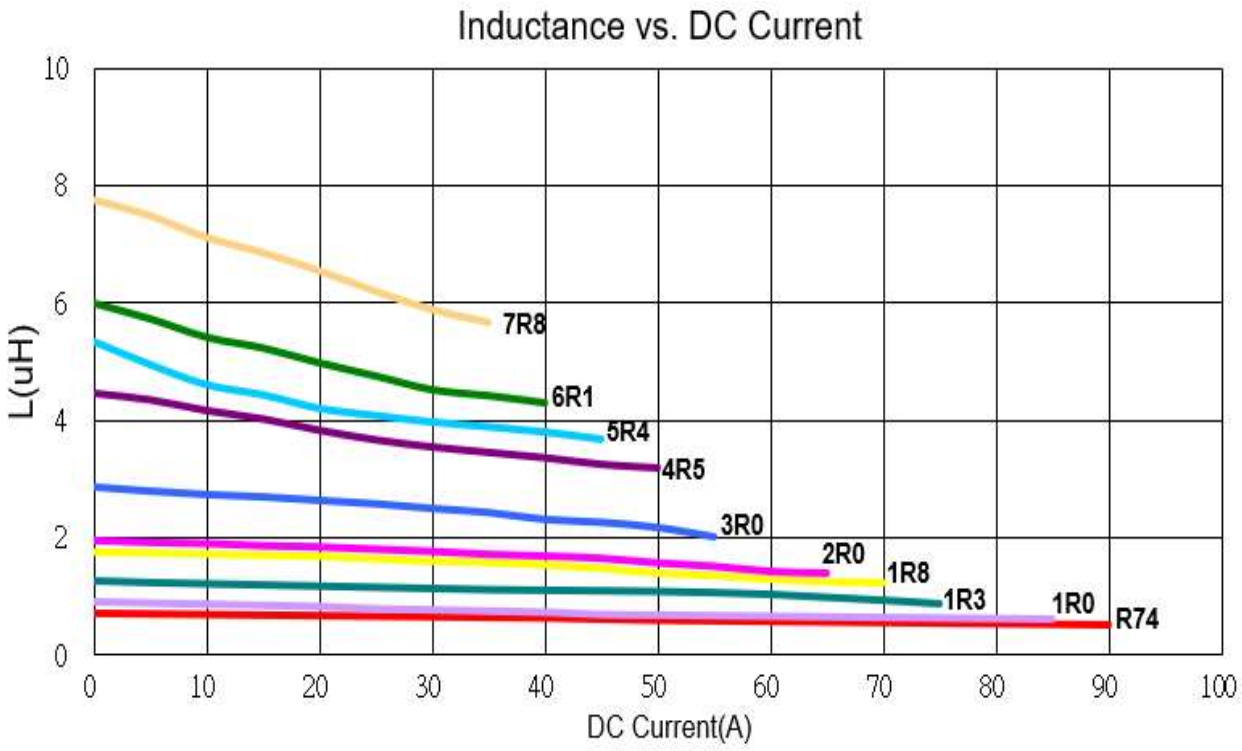
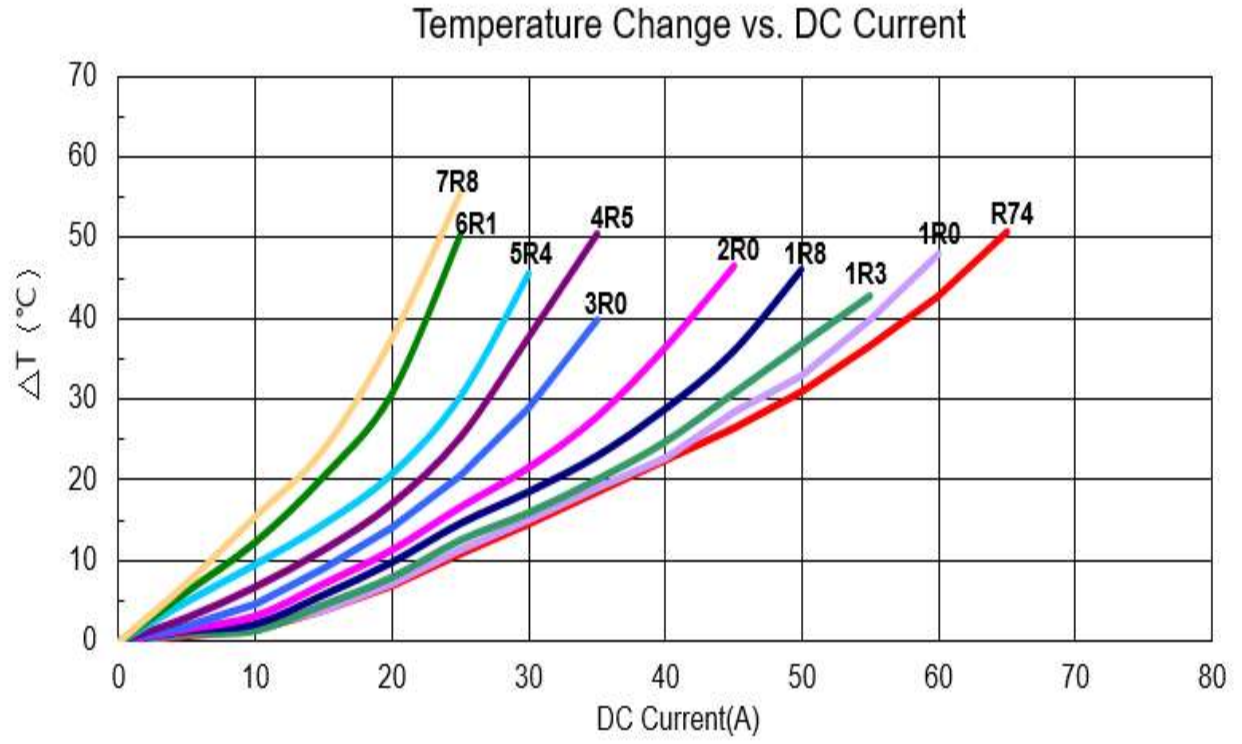
AFSI00161508 Type

■ Characteristics Graph





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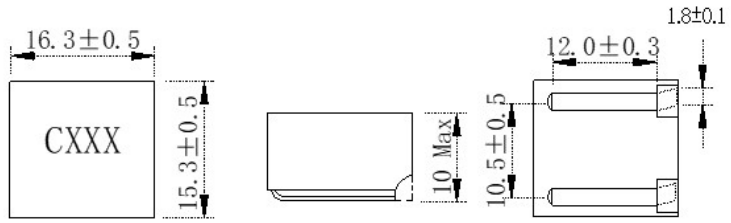
CHILISIN ELECTRONICS CORP.

SMD Power Chokes – AFSI Series

Automotive AEC-Q200

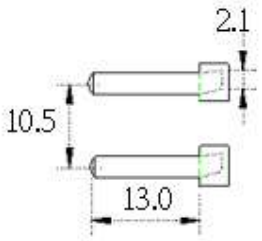
AFSI001615010 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Typ(Max)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AFSI001615104R7M17	4.7	100kHz,1V	3.8	60	30	20	C4R7
AFSI001615106R8M17	6.8	100kHz,1V	4.6	50	26	20	C6R8
AFSI001615108R2M17	8.2	100kHz,1V	6	43	25	20	C8R2
AFSI00161510100M17	10	100kHz,1V	8	40	22	20	C100
AFSI00161510150M17	15	100kHz,1V	11.4	32	18	20	C150
AFSI00161510220M17	22	100kHz,1V	14	28	15	20	C220
AFSI00161510330M17	33	100kHz,1V	19	24	12	20	C330

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

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current
4. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design125°C under worst case operating conditions. Component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
5. Apply glue around the product to fix the product body after loading the plate

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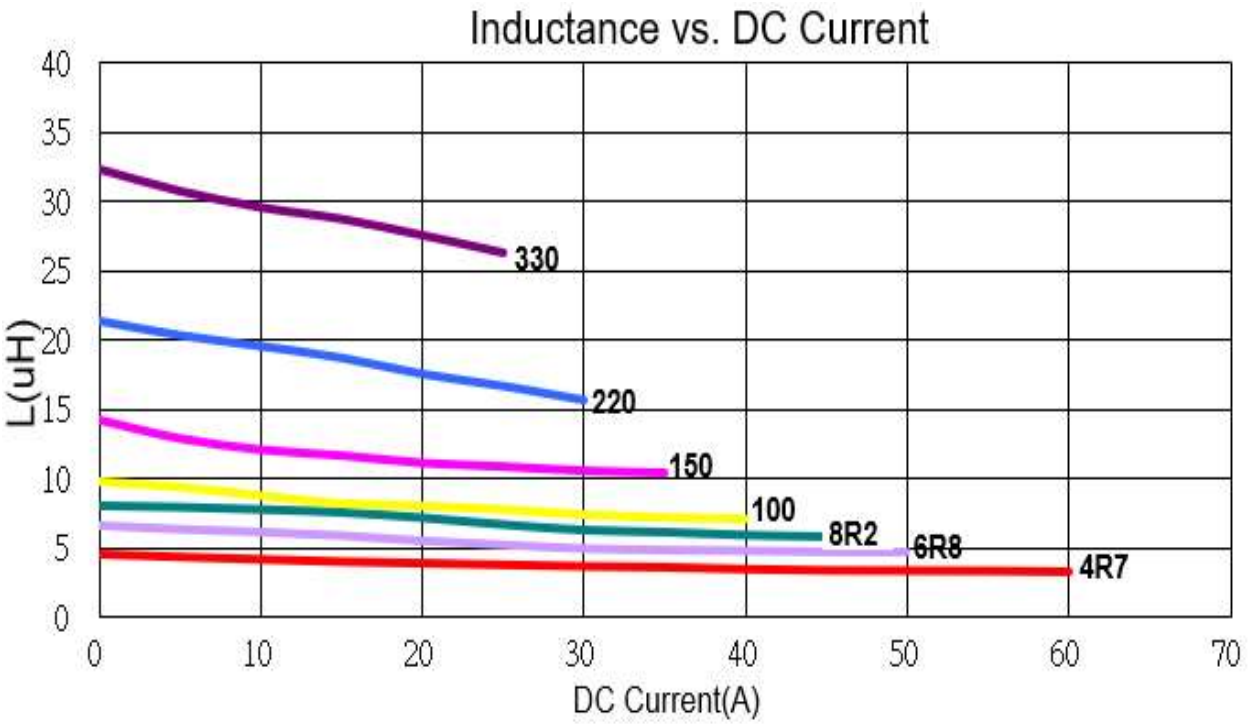
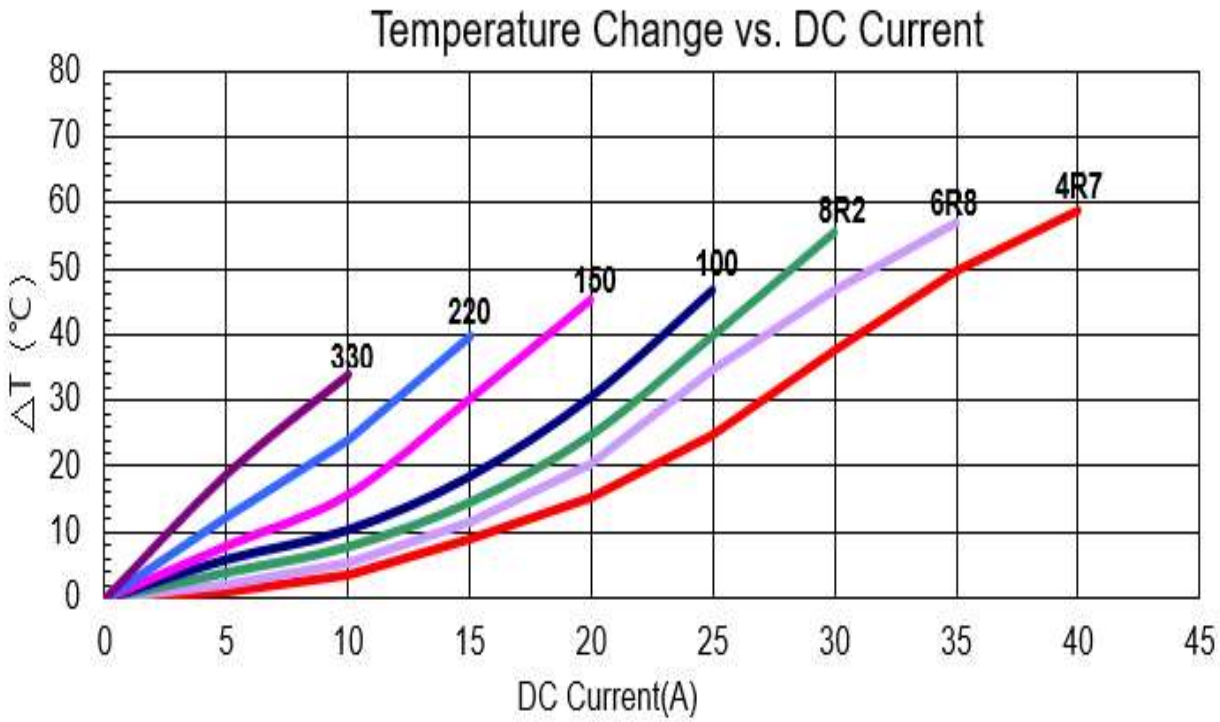
AFSI00161510 Type

■ Characteristics Graph





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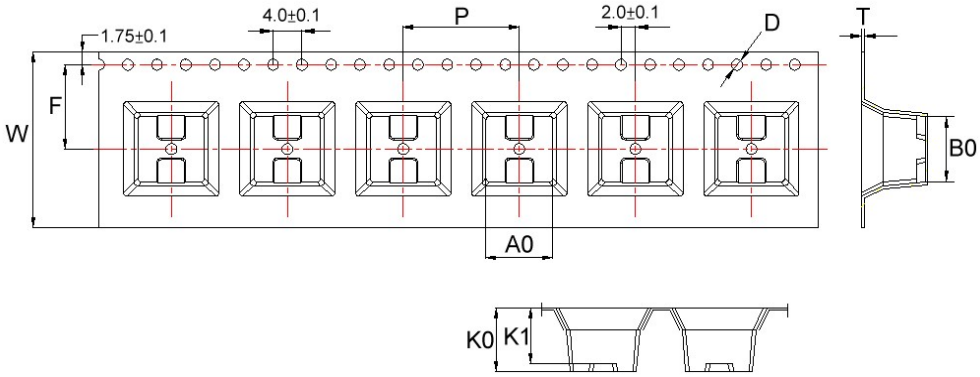
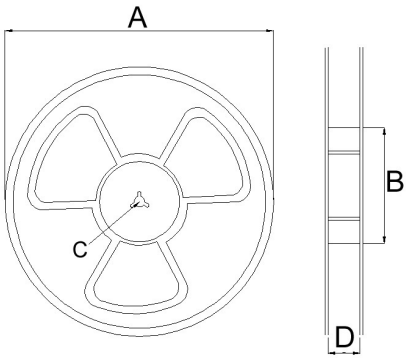
■ Packaging

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
AFSI00090908	9.2	9	8.8	7.6	1.5	11.5	24	0.4	16	330	100	13	24.3	300
AFSI00121109	12.2	11	9	8.07	1.5	11.5	24	0.5	20	330	100	13	24.3	240
AFSI00111010	12.15	10.9	10.5		1.5	11.5	24	0.5	20	330	100	13	24.3	240
AFSI00161508	16.75	15.7	8.8		1.5	14.2	32	0.5	24	330	100	13	33.4	200
AFSI00161510	16.75	15.7	10.5		1.5	14.2	32	0.5	24	330	100	13	33.4	150

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Power Inductor – AFSG Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Shield | Wire Wound | Metal | Ultra High Current

Part Numbering

A	FSG	00	111010	R52	M	17
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			111010 12.1x10.8x10	R52 0.52	M ±20%	
			151312 16x13.8x13	1R5 1.5		

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Pulse a YAGEO company

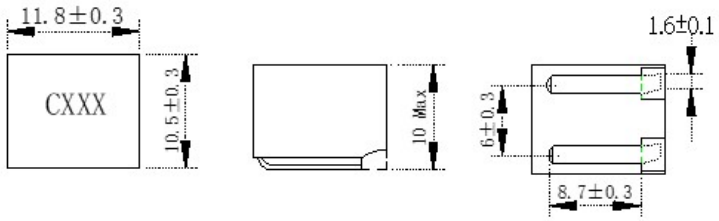
CHILISIN ELECTRONICS CORP.

Power Inductor – AFSG Series

Automotive AEC-Q200

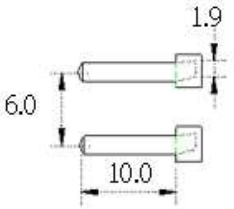
AFSG00111010 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Typ(Max)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AFSG00111010R52M17	0.52	100kHz,1V	0.88	76	50	20	CR52
AFSG00111010R80M17	0.8	100kHz,1V	1.25	64	46	20	CR80
AFSG001110101R2M17	1.2	100kHz,1V	1.45	50	41	20	C1R2
AFSG001110101R5M17	1.5	100kHz,1V	2	45	40	20	C1R5
AFSG001110102R2M17	2.2	100kHz,1V	2.8	38	33	20	C2R2
AFSG001110103R3M17	3.3	100kHz,1V	3.7	34	26	20	C3R3
AFSG001110104R7M17	4.7	100kHz,1V	4.7	29	25	20	C4R7
AFSG001110105R6M17	5.6	100kHz,1V	5.9	26	24	20	C5R6
AFSG001110106R8M17	6.8	100kHz,1V	7.3	22	21	20	C6R8
AFSG001110108R2M17	8.2	100kHz,1V	9	20	19	20	C8R2
AFSG00111010100M17	10	100kHz,1V	9.7	18	18	20	C100
AFSG00111010150M17	15	100kHz,1V	15.2	16	15	20	C150
AFSG00111010220M17	22	100kHz,1V	22.5	13	13	20	C220
AFSG00111010330M17	33	100kHz,1V	33.5	10	8.5	20	C330

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40°C temprature rise from 25°C ambient with current
4. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design125°C under worst case operating conditions. Component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
5. Apply glue around the product to fix the product body after loading the plate

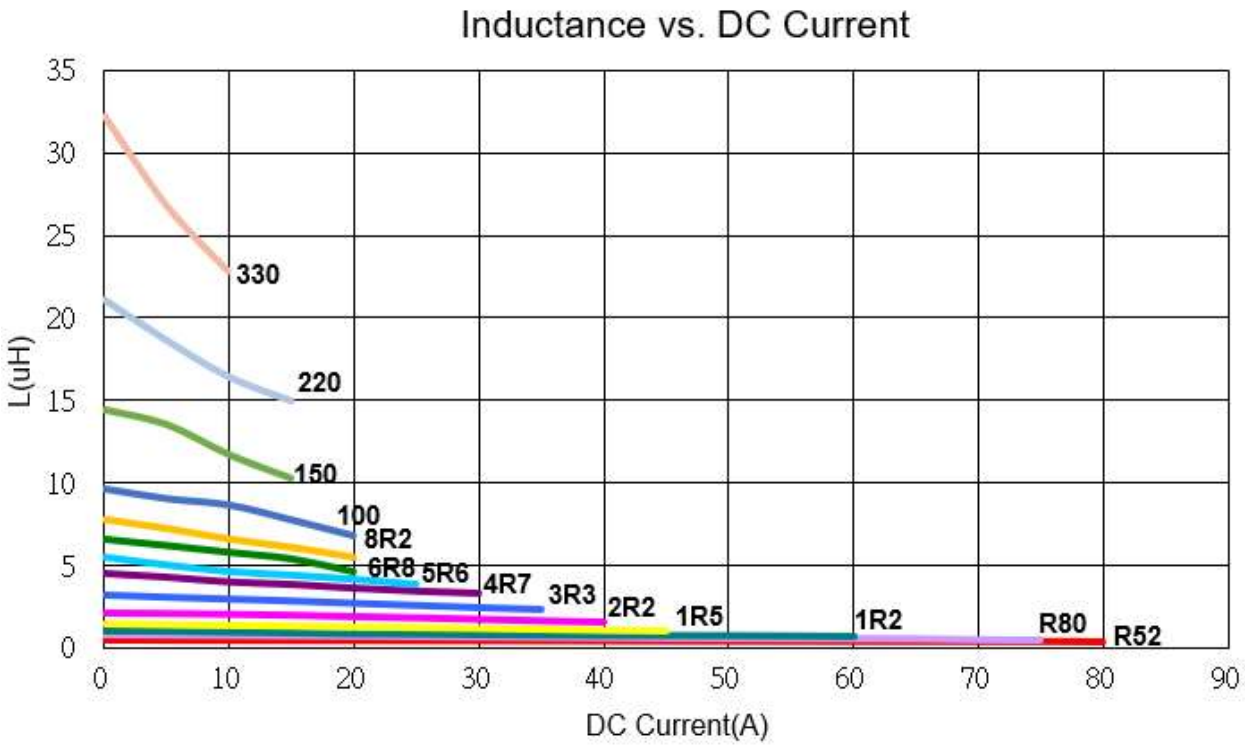
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

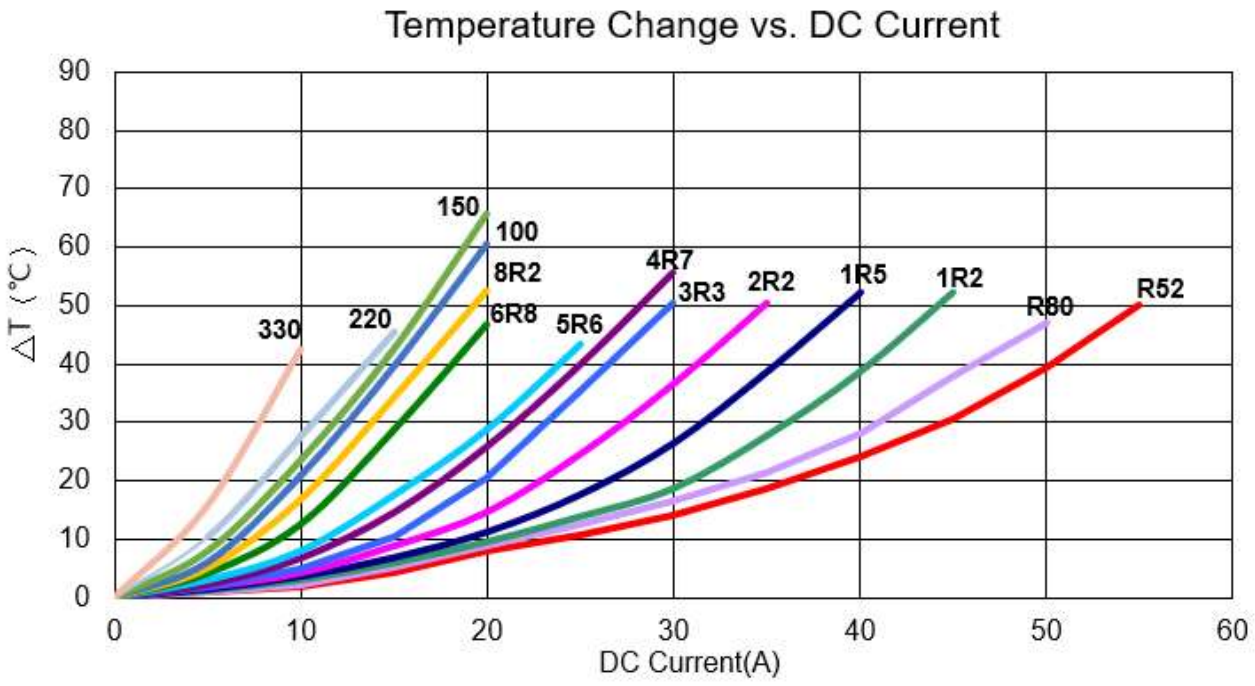
Power Inductor – AFSG Series

Automotive
AEC-Q200

AFSG00111010 Type

■ Characteristics Graph





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Pulse a YAGEO company

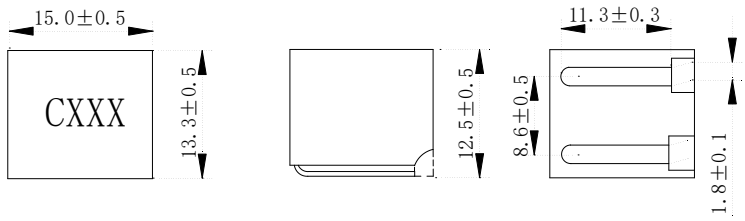
CHILISIN ELECTRONICS CORP.

Power Inductor – AFSG Series

Automotive AEC-Q200

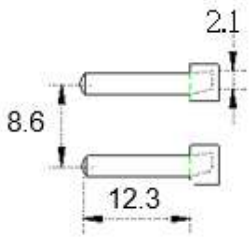
AFSG00151312 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Typ(Max)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AFSG001513121R5M17	1.5	100kHz,1V	1.25	60	30	20	C1R5
AFSG001513122R2M17	2.2	100kHz,1V	1.7	50	28	20	C2R2
AFSG001513123R3M17	3.3	100kHz,1V	2.5	40	25	20	C3R3
AFSG001513124R7M17	4.7	100kHz,1V	3	35	24	20	C4R7
AFSG001513126R8M17	6.8	100kHz,1V	4.3	32	22	20	C6R8
AFSG001513128R2M17	8.2	100kHz,1V	5	30	21	20	C8R2
AFSG00151312100M17	10	100kHz,1V	6.3	25	18.5	20	C100
AFSG00151312150M17	15	100kHz,1V	9.5	21	16.5	20	C150
AFSG00151312220M17	22	100kHz,1V	13	18	14.5	20	C220
AFSG00151312330M17	33	100kHz,1V	20	15	12	20	C330
AFSG00151312470M17	47	100kHz,1V	28	12.5	9.5	20	C470

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40°C temprature rise from 25°C ambient with current
4. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design125°C under worst case operating conditions. Component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
5. Apply glue around the product to fix the product body after loading the plate

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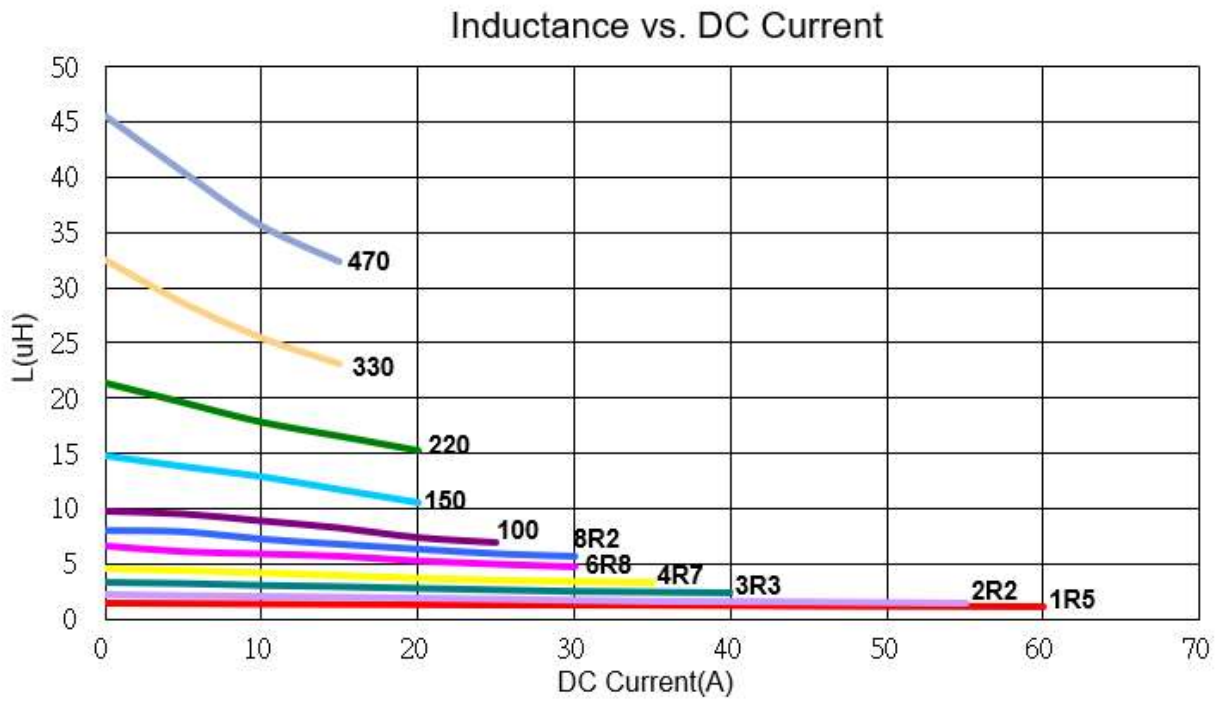
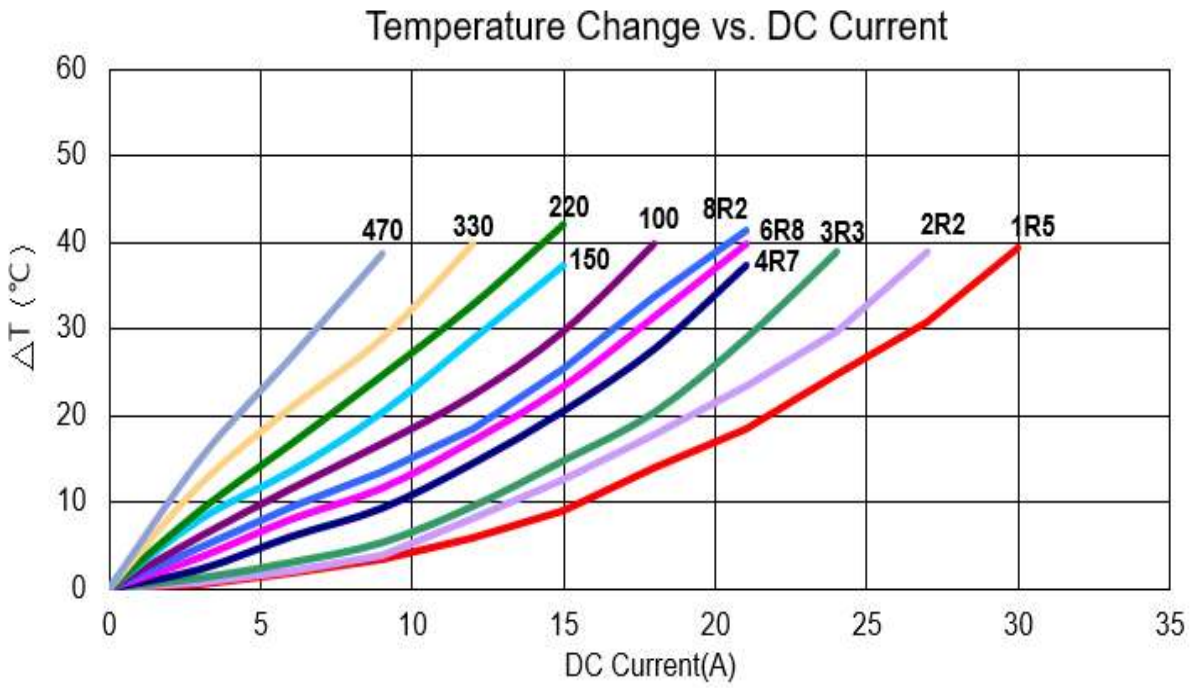
Power Inductor – AFSG Series

Automotive
AEC-Q200

AFSG00151312 Type

■ Characteristics Graph





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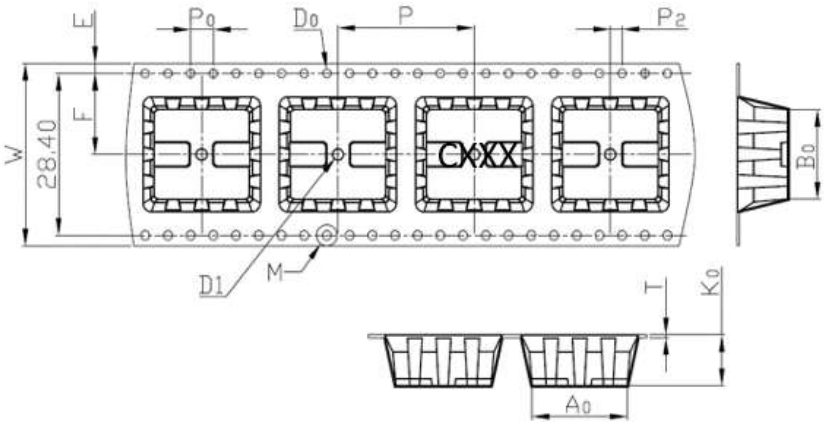
Power Inductor – AFSG Series

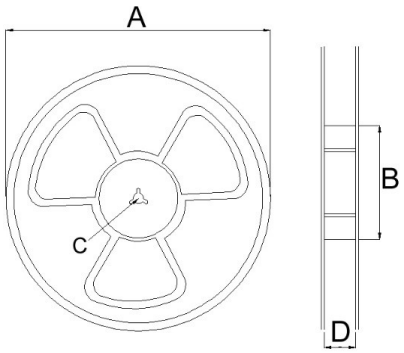
Automotive
AEC-Q200

■ 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
AFSG00111010	12.15	10.9	10.5		1.5	11.5	24	0.5	20	330	100	13	24.3	240
AFSG00151312	15.25	13.7	12.5		1.5	14.2	32	0.5	24	330	100	13	33.4	150

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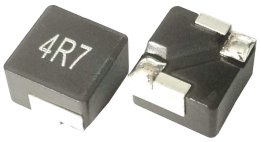
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Power Inductor AP3Y Series

Automotive
AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant



Shield | Wire Wound | Metal | Ultra High Current

Part Numbering

A	P3Y	00	151510	100	M	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code

Dimensions Code (mm)	
151510	15x15.7x10.5
151511	15x15.7x11.5
151513	15x15.7x13.5
202015	21.5*21.5*15.2
282816	29.5x29.5x16

Inductance (uH)	
8R2	8.2
100	10
330	33

Tolerance	
M	±20%

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Pulse a YAGEO company

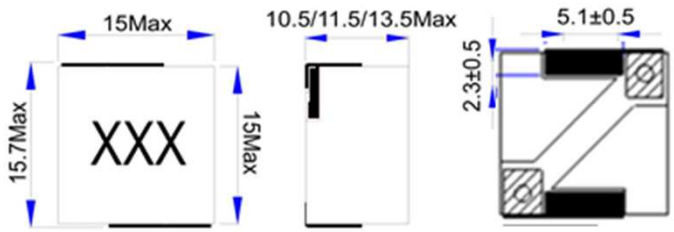
CHILISIN ELECTRONICS CORP.

Power Inductor AP3Y Series

Automotive
AEC-Q200

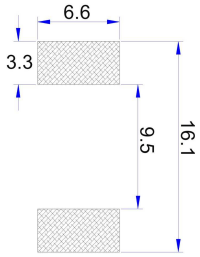
AP3Y001515xx Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)Max	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AP3Y001515101R0M00	1	100kHz,1V	1.8	100	44	20	1R0
AP3Y001515101R5M00	1.5	100kHz,1V	2.1	95	38	20	1R5
AP3Y001515102R2M00	2.2	100kHz,1V	2.7	70	36	20	2R2
AP3Y001515103R3M00	3.3	100kHz,1V	3.5	50	32	20	3R3
AP3Y001515104R7M00	4.7	100kHz,1V	5.2	45	28	20	4R7
AP3Y001515106R8M00	6.8	100kHz,1V	6	38	26	20	6R8
AP3Y001515108R2M00	8.2	100kHz,1V	7.2	34	24	20	8R2
AP3Y00151510100M00	10	100kHz,1V	8.5	32	21	20	100
AP3Y00151510150M00	15	100kHz,1V	11.5	30	18	20	150
AP3Y00151510220M00	22	100kHz,1V	16.8	24	14	20	220
AP3Y00151511270M00	27	100kHz,1V	26.5	23	11	20	270
AP3Y00151511330M00	33	100kHz,1V	28	19	10	20	330
AP3Y00151513470M00	47	100kHz,1V	38	17	9	20	470
AP3Y00151513680M00	68	100kHz,1V	61	16	7	20	680

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

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current

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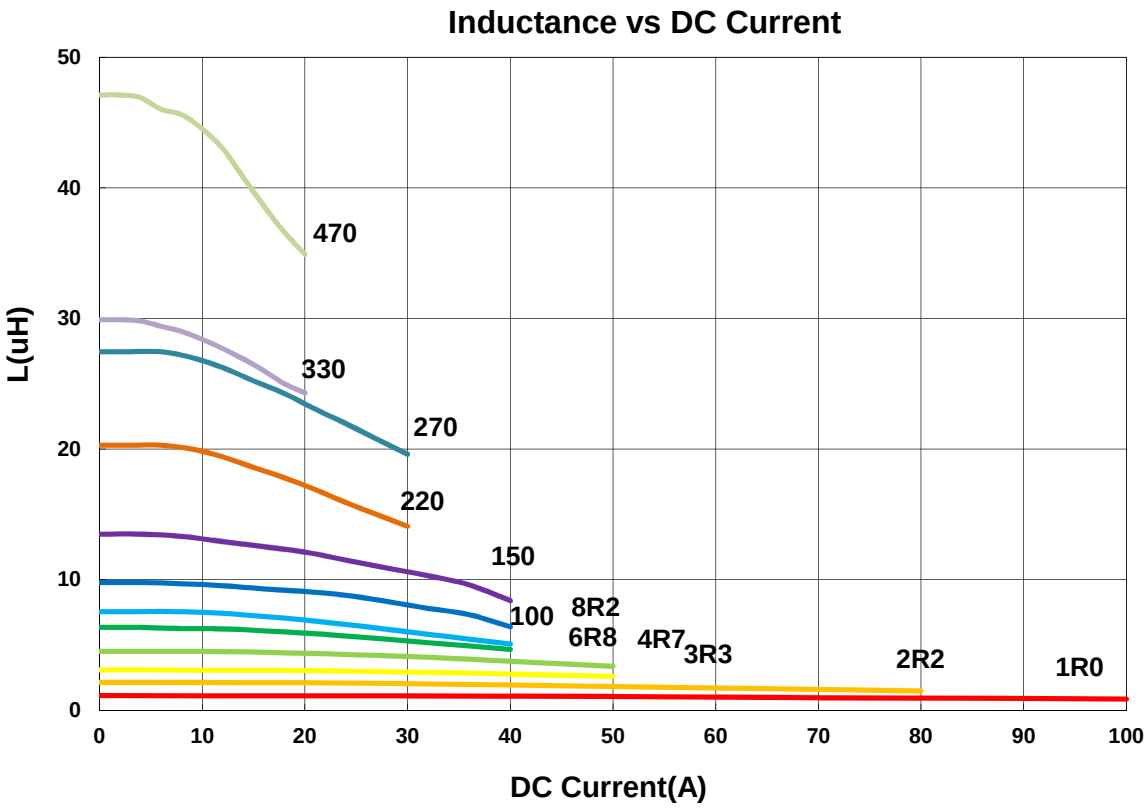
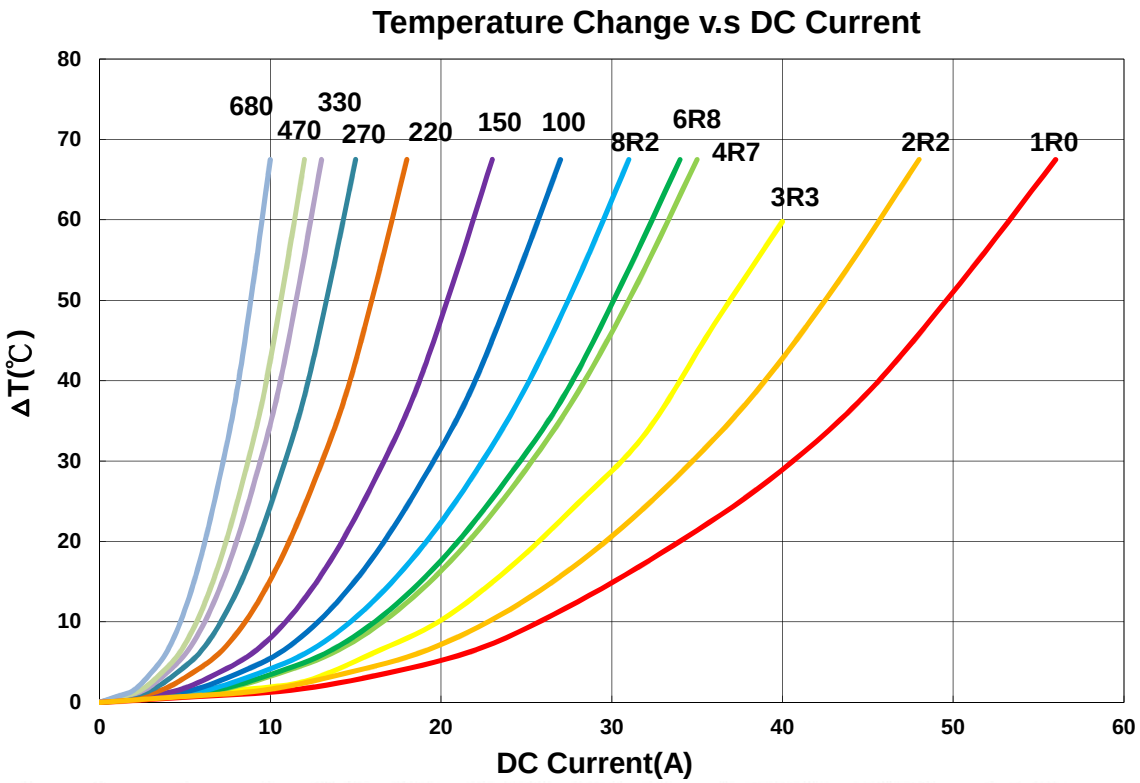
Power Inductor AP3Y Series

Automotive
AEC-Q200

AP3Y001515xx Type

■ Characteristics Graph





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Pulse a YAGEO company

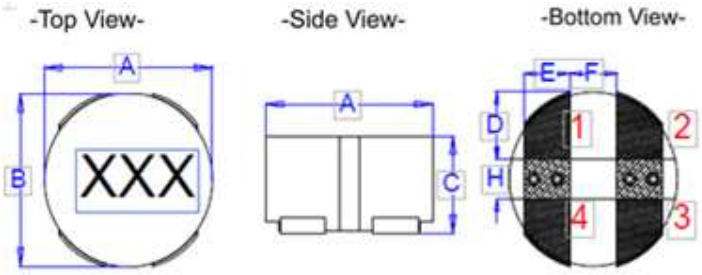
CHILISIN ELECTRONICS CORP.

Power Inductor AP3Y Series

Automotive
AEC-Q200

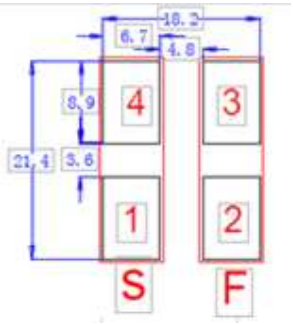
AP3Y00202015 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)Max	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AP3Y00202015R47M00	0.47	100kHz,1V	0.6	93	73	20	R47
AP3Y002020151R0M00	1	100kHz,1V	0.7	62	68	20	1R0
AP3Y002020151R5M00	1.5	100kHz,1V	1	50	58	20	1R5
AP3Y002020152R2M00	2.2	100kHz,1V	1.3	48	53	20	2R2
AP3Y002020153R3M00	3.3	100kHz,1V	1.6	33	47	20	3R3
AP3Y002020154R7M00	4.7	100kHz,1V	2.2	30	42	20	4R7
AP3Y002020155R6M00	5.6	100kHz,1V	3	28	40	20	5R6
AP3Y002020156R8M00	6.8	100kHz,1V	3.8	25	35	20	6R8
AP3Y002020158R2M00	8.2	100kHz,1V	4.3	23	30	20	8R2
AP3Y00202015100M00	10	100kHz,1V	4.8	20	26	20	100
AP3Y00202015220M00	22	100kHz,1V	9	11	18	20	220

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

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current

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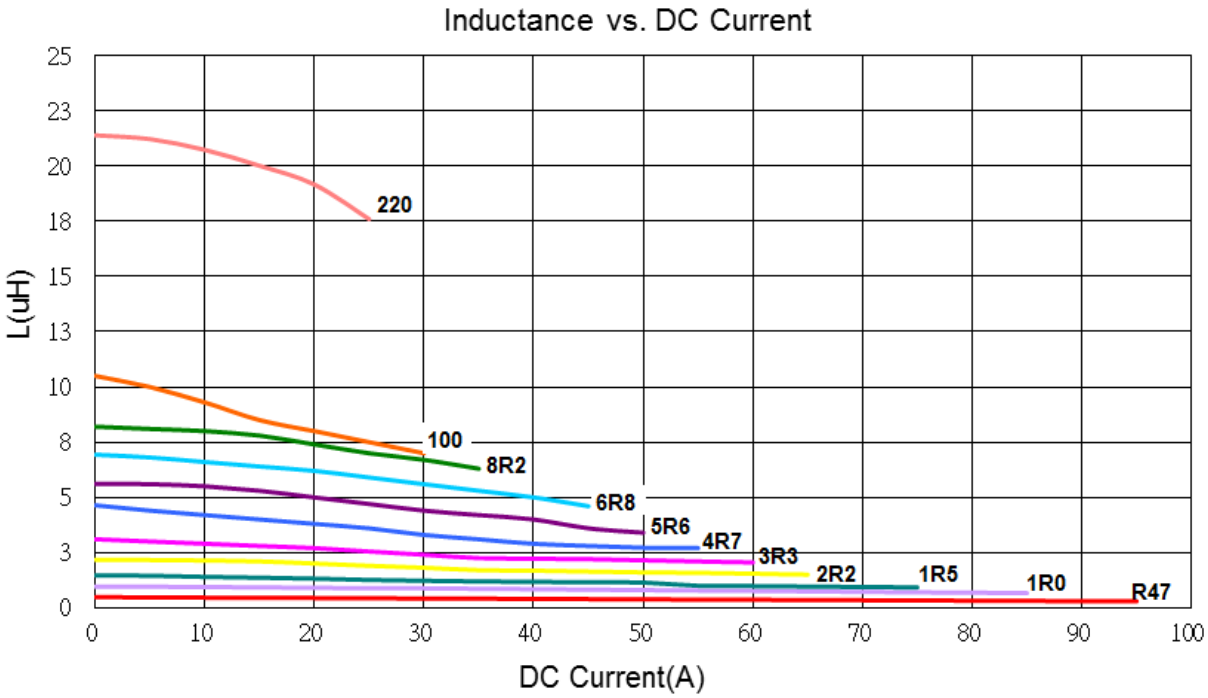
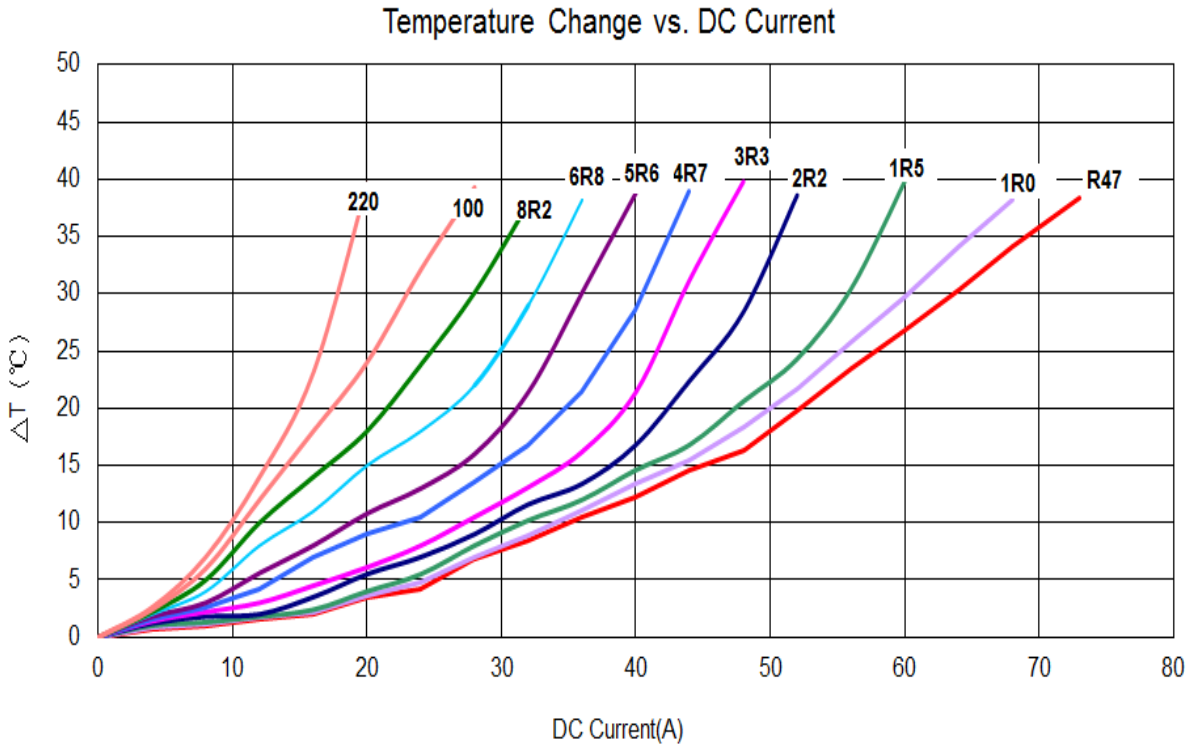
Power Inductor AP3Y Series

Automotive
AEC-Q200

AP3Y00202015 Type

■ Characteristics Graph





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Pulse a YAGEO company

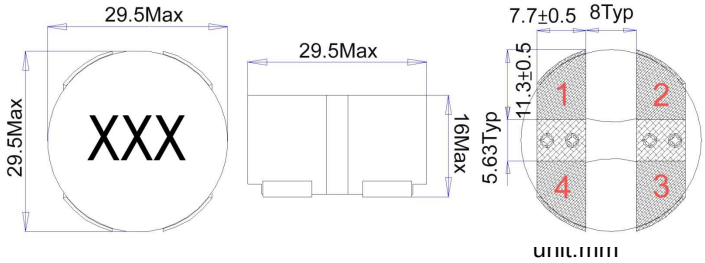
CHILISIN ELECTRONICS CORP.

Power Inductor AP3Y Series

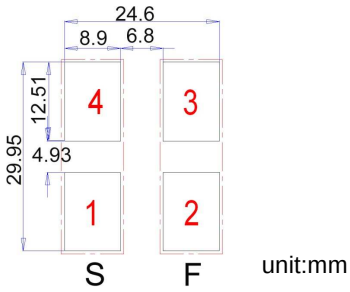
Automotive
AEC-Q200

AP3Y00282816 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)Max	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AP3Y002828161R5M00	1.5	100kHz,1V	1	145	70	20	1R5
AP3Y002828163R3M00	3.3	100kHz,1V	1.5	125	58	20	3R3
AP3Y002828164R7M00	4.7	100kHz,1V	1.9	100	50	20	4R7
AP3Y002828166R0M00	6	100kHz,1V	2	60	50	20	6R0
AP3Y002828166R8M00	6.8	100kHz,1V	3	70	40	20	6R8
AP3Y002828168R2M00	8.2	100kHz,1V	4	85	40	20	8R2
AP3Y00282816100M00	10	100kHz,1V	5.5	62	37	20	100
AP3Y00282816150M00	15	100kHz,1V	7.5	55	32	20	150
AP3Y00282816220M00	22	100kHz,1V	11.5	46	25	20	220
AP3Y00282816330M00	33	100kHz,1V	16	44	20	20	330
AP3Y00282816470M00	47	100kHz,1V	24	35	18	20	470
AP3Y00282816820M00	82	100kHz,1V	28	18	16	20	820

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

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40℃ temprature rise from 25℃ ambient with current

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Pulse a YAGEO company

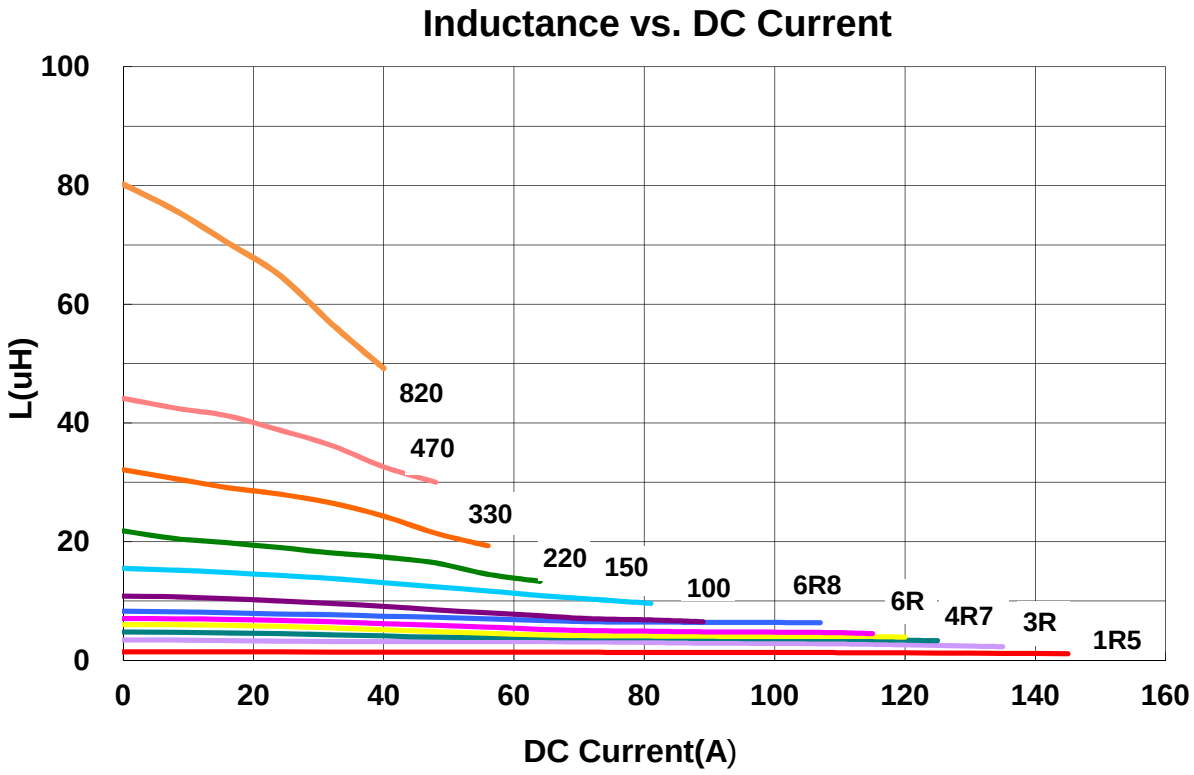
CHILISIN ELECTRONICS CORP.

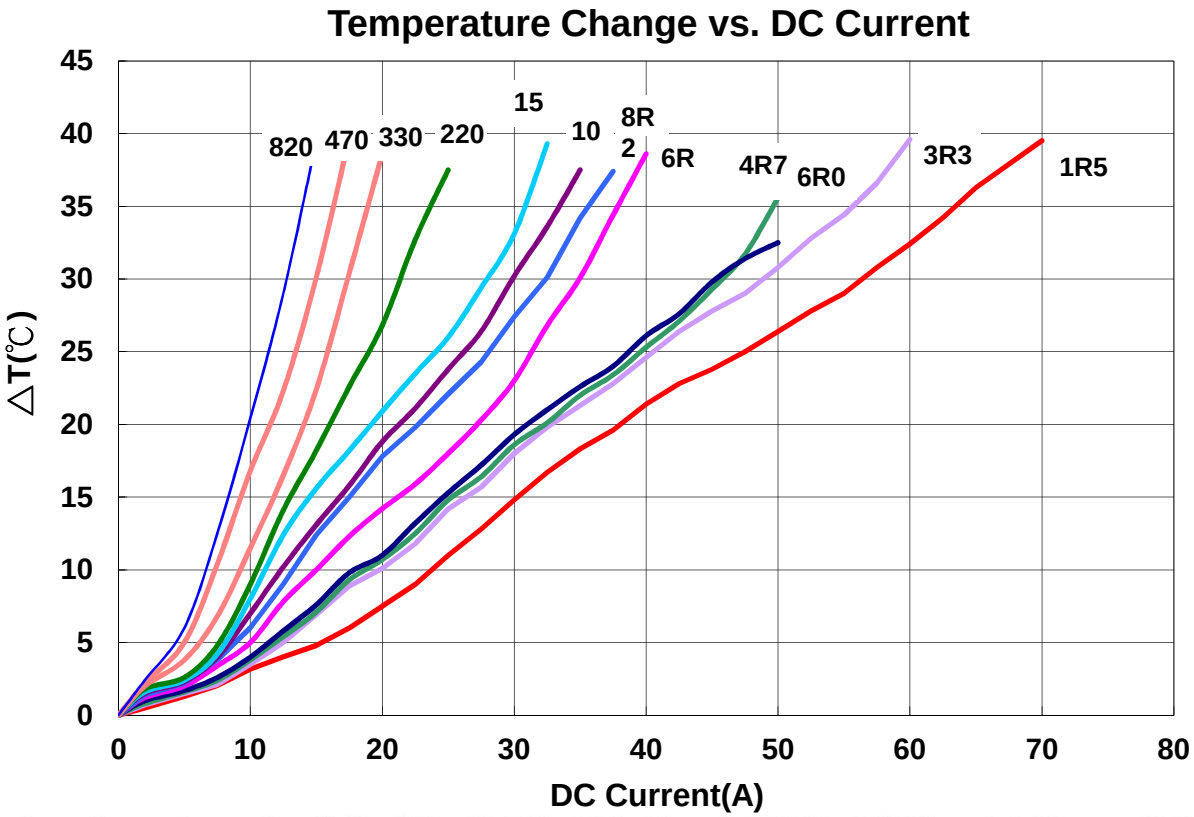
Power Inductor AP3Y Series

Automotive
AEC-Q200

AP3Y00282816 Type

■ Characteristics Graph





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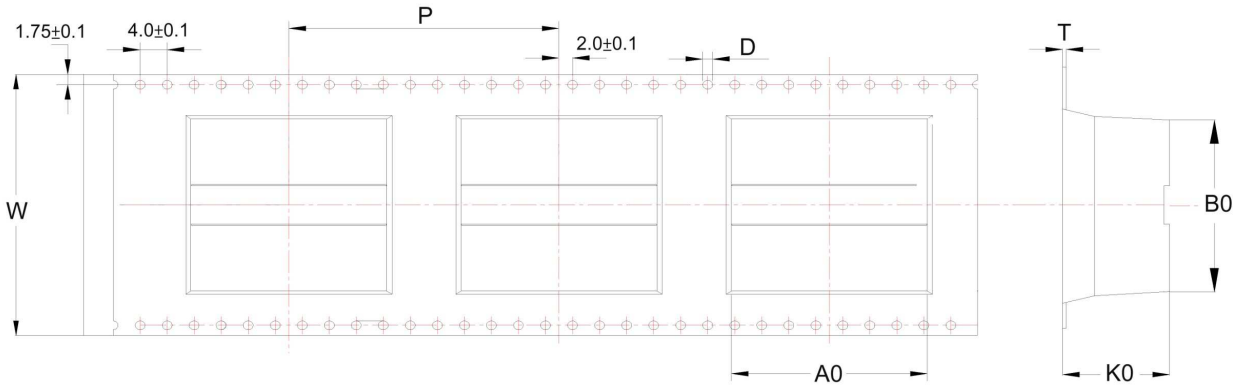
Power Inductor AP3Y Series

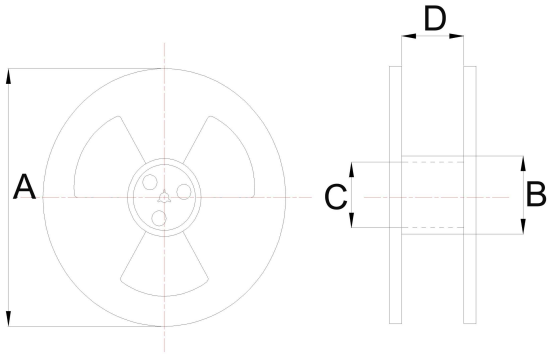
Automotive
AEC-Q200

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
AP3Y00151510	15.7	15.1	10.7	1.5	24	0.5	24	330	100	13.5	24.5	150
AP3Y00151511	15.7	15.1	11.7	1.5	24	0.5	24	330	100	13.5	24.5	100
AP3Y00151513	15.7	15.1	13.7	1.5	24	0.5	24	330	100	13.5	24.5	100
AP3Y00202015	21.2	20.8	14.8	1.5	32	0.5	32	330	100	13.5	32	100
AP3Y00282816	29.2	29.2	15	1.5	44	0.5	40	330	100	13.5	44.5	30

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Chip Inductor ASCQ Series

Automotive
AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Noise Suppression | Shield | Multilayer | Ceramic | High Frequency

Part Numbering

A	SCQ	00	060303	1N0	B	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (nH)	Tolerance	Internal Code

Dimensions Code (mm)	
060303	0.6x0.3x0.3

Inductance (nH)	
0N6	0.6
1N0	1.0
10N	10

Tolerance	
B	±0.1nH
C	±0.2nH
H	±3%

This specification applies to Multilayer Chip Inductors for Automotive Electronics based on AEC-Q200 except for Power train and Safety.

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Pulse a YAGEO company

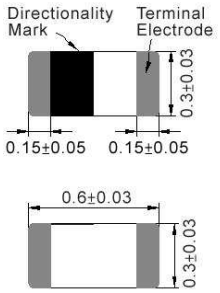
CHILISIN ELECTRONICS CORP.

Chip Inductor ASCQ Series

Automotive
AEC-Q200

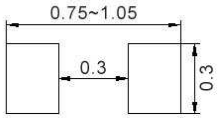
ASCQ00060303 Type

Dimensions



unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

Part No.	Inductance (nH)	L,Q Test Freq.	Q Min.	SRF (MHz)Min.	RDC (Ω)Max.	IDC (mA)Max.	Tolerance (±%)
ASCQ000603030N6□00	0.6	500 MHz,500 mV	14	10000	0.06	900	B
ASCQ000603030N7□00	0.7	500 MHz,500 mV	14	10000	0.06	900	B
ASCQ000603030N8□00	0.8	500 MHz,500 mV	14	10000	0.06	900	B
ASCQ000603030N9□00	0.9	500 MHz,500 mV	14	10000	0.06	900	B
ASCQ000603031N0□00	1.0	500 MHz,500 mV	14	10000	0.07	850	B
ASCQ000603031N1□00	1.1	500 MHz,500 mV	14	10000	0.07	850	B
ASCQ000603031N2□00	1.20	500 MHz,500 mV	14	10000	0.08	800	B
ASCQ000603031N3□00	1.30	500 MHz,500 mV	14	10000	0.09	760	B
ASCQ000603031N4□00	1.40	500 MHz,500 mV	14	10000	0.12	640	B
ASCQ000603031N5□00	1.50	500 MHz,500 mV	14	10000	0.15	600	B
ASCQ000603031N6□00	1.60	500 MHz,500 mV	14	10000	0.19	510	B
ASCQ000603031N7□00	1.70	500 MHz,500 mV	14	10000	0.11	680	B
ASCQ000603031N8□00	1.80	500 MHz,500 mV	14	10000	0.12	640	B
ASCQ000603031N9□00	1.90	500 MHz,500 mV	14	10000	0.13	620	B
ASCQ000603032N0□00	2.00	500 MHz,500 mV	14	10000	0.15	600	B
ASCQ000603032N1□00	2.10	500 MHz,500 mV	14	10000	0.16	550	B
ASCQ000603032N2□00	2.20	500 MHz,500 mV	14	10000	0.20	500	B
ASCQ000603032N3□00	2.30	500 MHz,500 mV	14	10000	0.24	460	B
ASCQ000603032N4□00	2.4	500 MHz,500 mV	14	10000	0.26	430	B
ASCQ000603032N5□00	2.5	500 MHz,500 mV	14	10000	0.28	415	B
ASCQ000603032N6□00	2.6	500 MHz,500 mV	14	10000	0.30	405	B
ASCQ000603032N7□00	2.7	500 MHz,500 mV	14	10000	0.32	400	B
ASCQ000603032N8□00	2.8	500 MHz,500 mV	14	9500	0.20	500	B
ASCQ000603032N9□00	2.9	500 MHz,500 mV	14	9300	0.22	480	B
ASCQ000603033N0□00	3	500 MHz,500 mV	14	9100	0.24	460	B
ASCQ000603033N1□00	3.1	500 MHz,500 mV	14	8900	0.25	450	B
ASCQ000603033N2□00	3.2	500 MHz,500 mV	14	8700	0.28	415	B
ASCQ000603033N3□00	3.3	500 MHz,500 mV	14	8600	0.28	415	B
ASCQ000603033N4□00	3.4	500 MHz,500 mV	14	8400	0.29	410	B
ASCQ000603033N5□00	3.5	500 MHz,500 mV	14	8200	0.30	405	B
ASCQ000603033N6□00	3.6	500 MHz,500 mV	14	8100	0.32	400	B
ASCQ000603033N7□00	3.7	500 MHz,500 mV	14	8000	0.36	370	B

Note: When ordering, please specify tolerance code. Tolerance: B=±0.1nH / C=±0.2nH / H=±3%

1. Operating temperature range - 55℃ ~ 125℃
2. Applied the current to coils, the inductance shall be less than 10% initial value
3. Measure Equipment:
   L & Q: Agilent E4991A+Agilent 16197A
   SRF: Agilent E4991A or HP19196C
   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

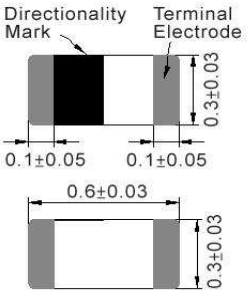
CHILISIN ELECTRONICS CORP.

Chip Inductor ASCQ Series

Automotive
AEC-Q200

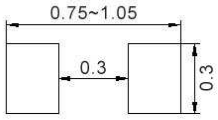
ASCQ00060303 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L,Q Test Freq.	Q Min.	SRF (MHz)Min.	RDC (Ω)Max.	IDC (mA)Max.	Tolerance (±%)
ASCQ000603033N8□00	3.8	500 MHz,500 mV	14	7800	0.40	355	B
ASCQ000603033N9□00	3.9	500 MHz,500 mV	14	7700	0.41	350	B
ASCQ000603034N3□00	4.3	500 MHz,500 mV	14	6500	0.48	320	C
ASCQ000603034N7□00	4.7	500 MHz,500 mV	14	6400	0.42	350	C
ASCQ000603035N1□00	5.1	500 MHz,500 mV	14	6100	0.45	330	C
ASCQ000603035N6□00	5.6	500 MHz,500 mV	14	5500	0.47	325	C
ASCQ000603036N2□00	6.2	500 MHz,500 mV	14	5100	0.52	305	C
ASCQ000603036N8□00	6.8	500 MHz,500 mV	14	4800	0.55	305	H
ASCQ000603037N5□00	7.5	500 MHz,500 mV	14	4600	0.55	305	H
ASCQ000603038N2□00	8.2	500 MHz,500 mV	14	4300	0.57	290	H
ASCQ000603039N1□00	9.1	500 MHz,500 mV	14	4000	0.65	270	H
ASCQ0006030310N□00	10	500 MHz,500 mV	14	3800	0.85	230	H
ASCQ0006030312N□00	12	500 MHz,500 mV	14	3300	0.85	230	H
ASCQ0006030315N□00	15	500 MHz,500 mV	14	2600	0.89	220	H
ASCQ0006030318N□00	18	500 MHz,500 mV	14	2300	1.05	205	H
ASCQ0006030322N□00	22	500 MHz,500 mV	14	1900	1.29	190	H

Note: When ordering, please specify tolerance code. Tolerance: B=±0.1nH / C=±0.2nH / H=±3%

1. Operating temperature range - 55℃ ~ 125℃
2. Applied the current to coils, the inductance shall be less than 10% initial value
3. Measure Equipment:
   L & Q: Agilent E4991A+Agilent 16197A
   SRF: Agilent E4991A or HP19196C
   RDC: HP4338B or CHEN HWA 502

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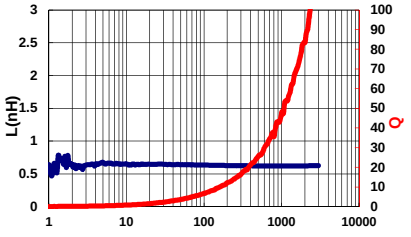
Chip Inductor ASCQ Series

Automotive
AEC-Q200

ASCQ00060303 Type

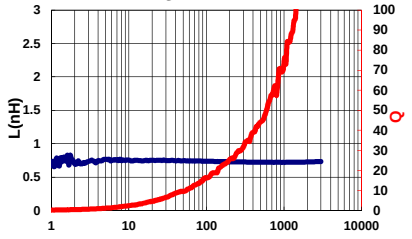
■ Characteristics Graph

ASCQ000603030N6B00



RDC<0.06Ω SRF:10000MHz IDC:900 mA

ASCQ000603030N7B00



RDC<0.06Ω SRF:10000MHz IDC:900 mA

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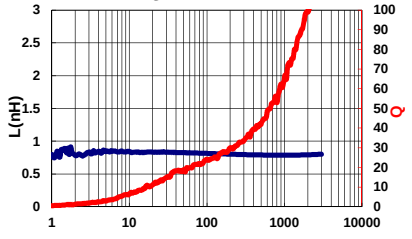

RDC<0.06Ω SRF:10000MHz IDC:900 mA

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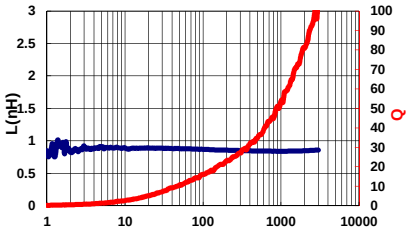

RDC<0.06Ω SRF:10000MHz IDC:900 mA

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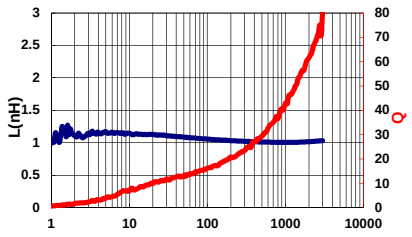

RDC<0.07Ω SRF:10000MHz IDC:850 mA

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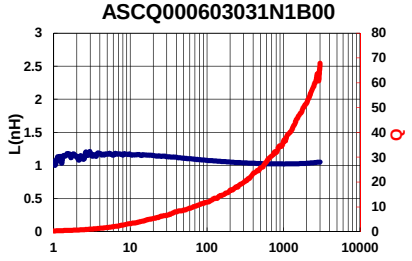
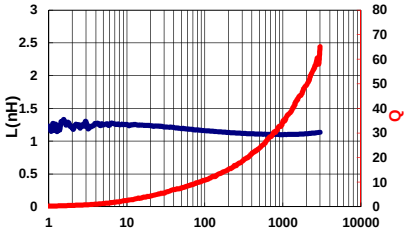


RDC<0.07Ω SRF:10000MHz IDC:850 mA

ASCQ000603031N2B00



RDC<0.08Ω SRF:10000MHz IDC:800 mA

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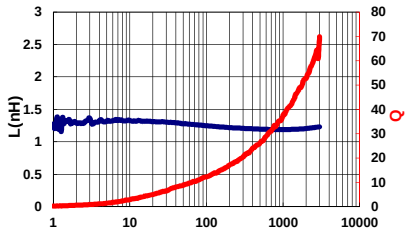
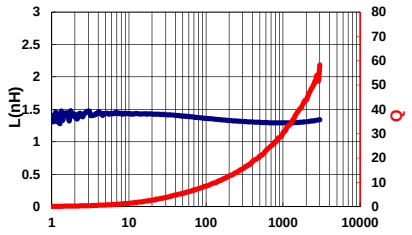


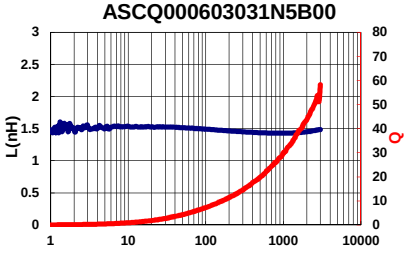
RDC<0.09Ω SRF:10000MHz IDC:760 mA

ASCQ000603031N4B00



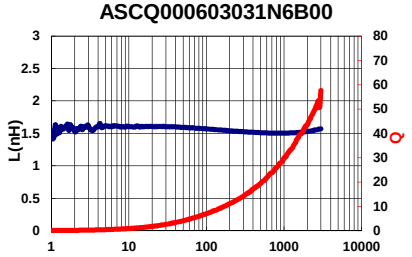
RDC<0.12Ω SRF:10000MHz IDC:640 mA

ASCQ000603031N5B00



RDC<0.15Ω SRF:10000MHz IDC:600 mA

ASCQ000603031N6B00



RDC<0.19Ω SRF:10000MHz IDC:510 mA

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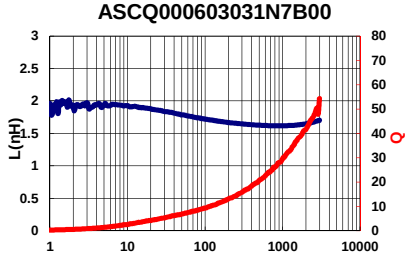
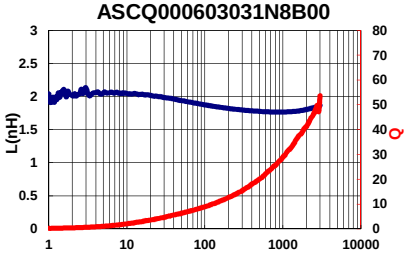


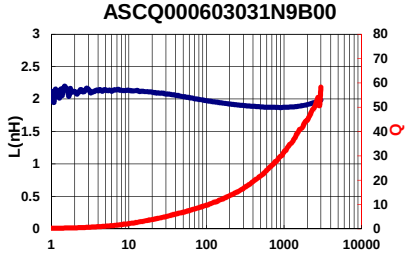
RDC<0.11Ω SRF:10000MHz IDC:680 mA

ASCQ000603031N8B00



RDC<0.12Ω SRF:10000MHz IDC:640 mA

ASCQ000603031N9B00



RDC<0.13Ω SRF:10000MHz IDC:620 mA

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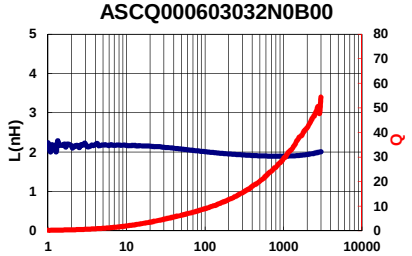

RDC<0.15Ω SRF:10000MHz IDC:600 mA

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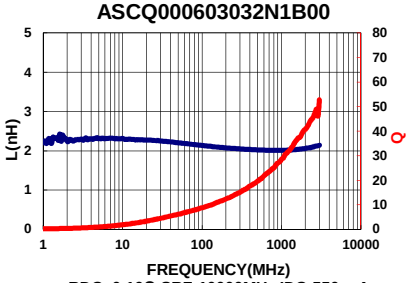
Chip Inductor ASCQ Series

Automotive
AEC-Q200

ASCQ00060303 Type

■ Characteristics Graph

ASCQ000603032N1B00



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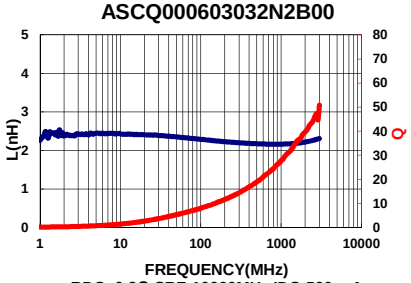
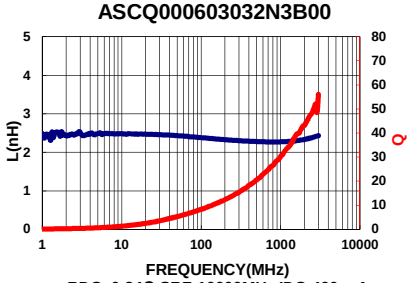


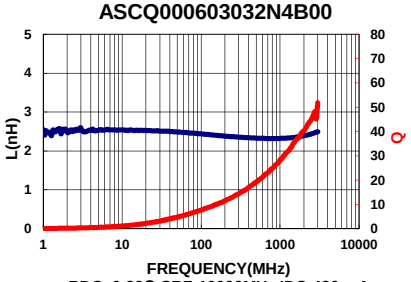
RDC<0.2Ω SRF:10000MHz IDC:500 mA

ASCQ000603032N3B00



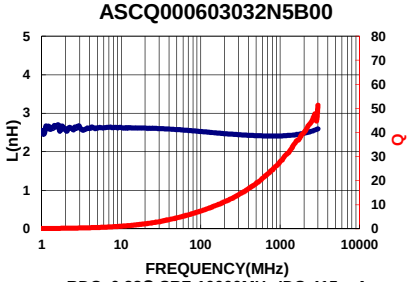
RDC<0.24Ω SRF:10000MHz IDC:460 mA

ASCQ000603032N4B00



RDC<0.26Ω SRF:10000MHz IDC:430 mA

ASCQ000603032N5B00



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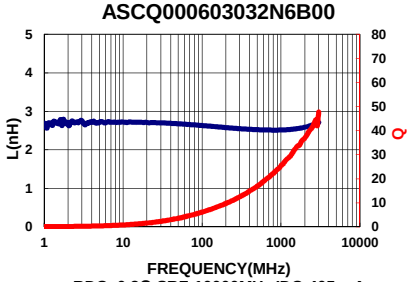
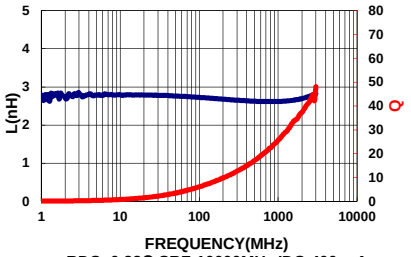
ASCQ000603032N6B00



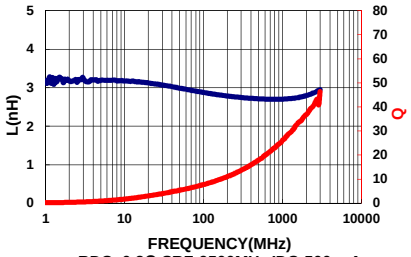
RDC<0.3Ω SRF:10000MHz IDC:405 mA

ASCQ000603032N7B00



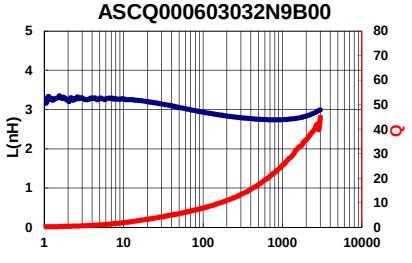
RDC<0.32Ω SRF:10000MHz IDC:400 mA

ASCQ000603032N8B00



RDC<0.2Ω SRF:9500MHz IDC:500 mA

ASCQ000603032N9B00



RDC<0.22Ω SRF:9300MHz IDC:480 mA

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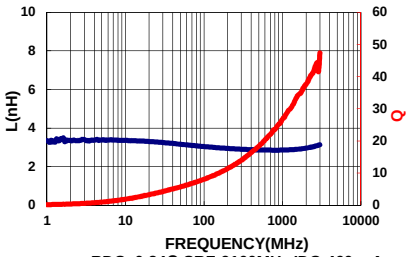
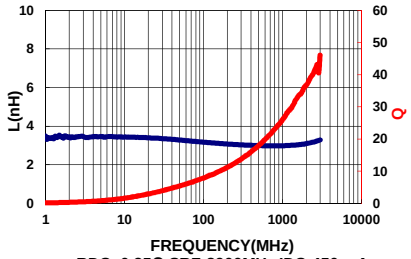


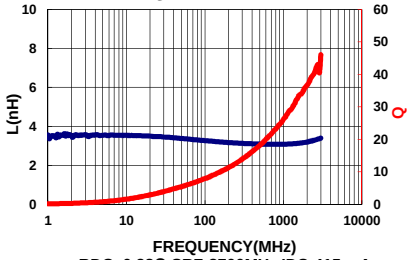
RDC<0.24Ω SRF:9100MHz IDC:460 mA

ASCQ000603033N1B00



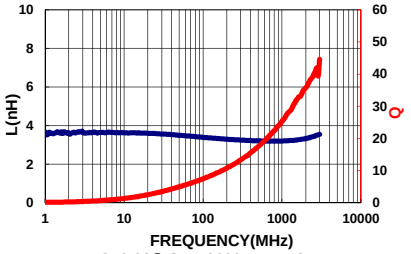
RDC<0.25Ω SRF:8900MHz IDC:450 mA

ASCQ000603033N2B00



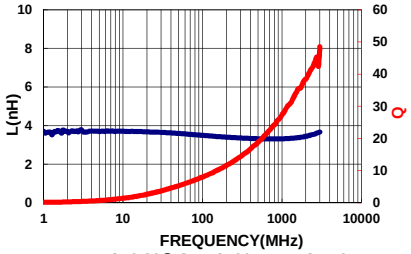
RDC<0.28Ω SRF:8700MHz IDC:415 mA

ASCQ000603033N3B00



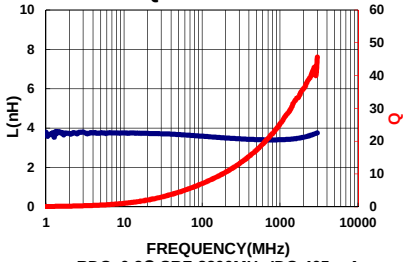
RDC<0.28Ω SRF:8600MHz IDC:415 mA

ASCQ000603033N4B00



RDC<0.29Ω SRF:8400MHz IDC:410 mA

ASCQ000603033N5B00



RDC<0.3Ω SRF:8200MHz IDC:405 mA

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

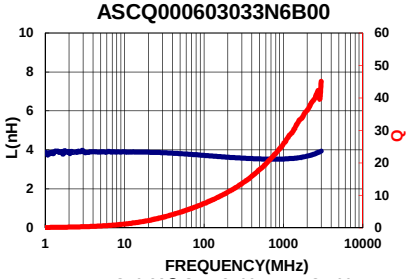
Chip Inductor ASCQ Series

Automotive
AEC-Q200

ASCQ00060303 Type

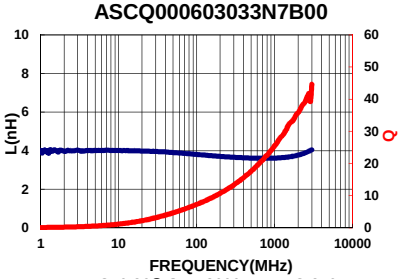
■ Characteristics Graph

ASCQ000603033N6B00



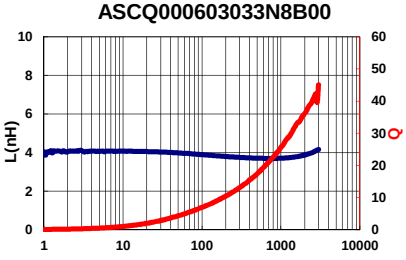
RDC<0.32Ω SRF:8100MHz IDC:400 mA

ASCQ000603033N7B00



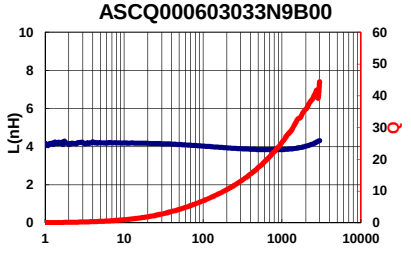
RDC<0.36Ω SRF:8000MHz IDC:370 mA

ASCQ000603033N8B00



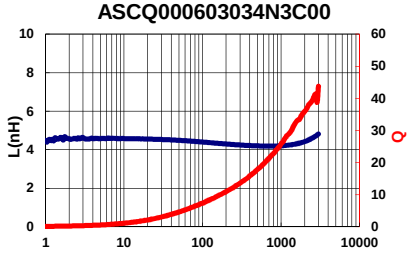
RDC<0.4Ω SRF:7800MHz IDC:355 mA

ASCQ000603033N9B00



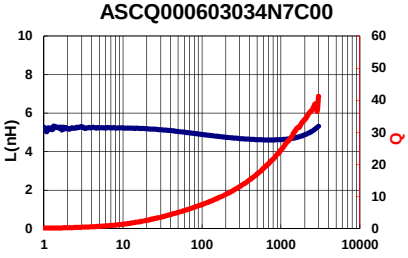
RDC<0.41Ω SRF:7700MHz IDC:350 mA

ASCQ000603034N3C00



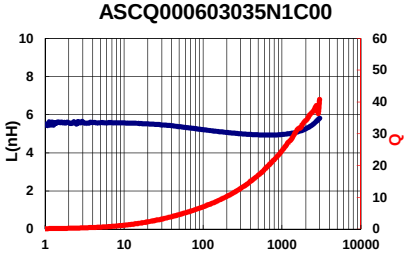
RDC<0.48Ω SRF:6500MHz IDC:320 mA

ASCQ000603034N7C00



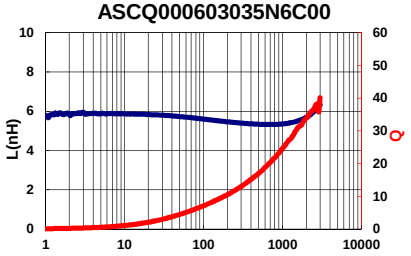
RDC<0.42Ω SRF:6400MHz IDC:350 mA

ASCQ000603035N1C00



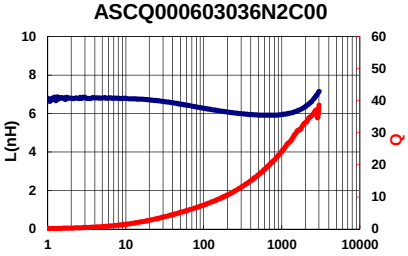
RDC<0.45Ω SRF:6100MHz IDC:330 mA

ASCQ000603035N6C00



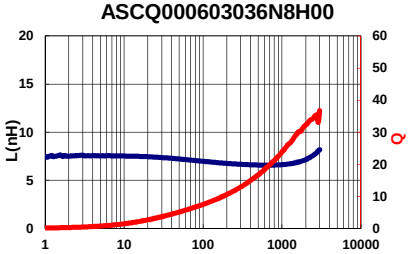
RDC<0.47Ω SRF:5500MHz IDC:325 mA

ASCQ000603036N2C00



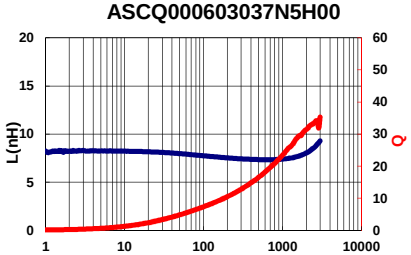
RDC<0.52Ω SRF:5100MHz IDC:305 mA

ASCQ000603036N8H00



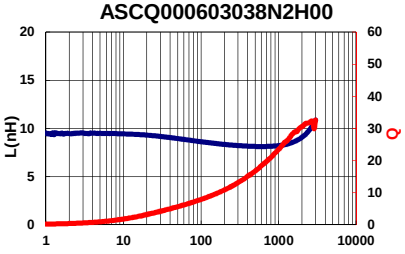
RDC<0.55Ω SRF:4800MHz IDC:305 mA

ASCQ000603037N5H00



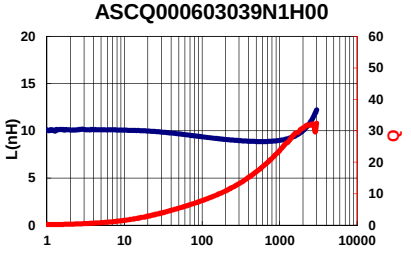
RDC<0.55Ω SRF:4600MHz IDC:305 mA

ASCQ000603038N2H00



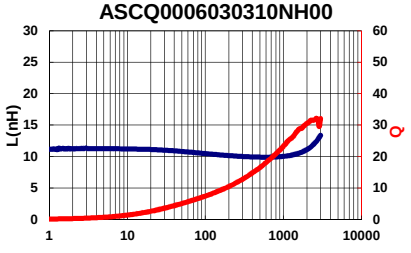
RDC<0.57Ω SRF:4300MHz IDC:290 mA

ASCQ000603039N1H00



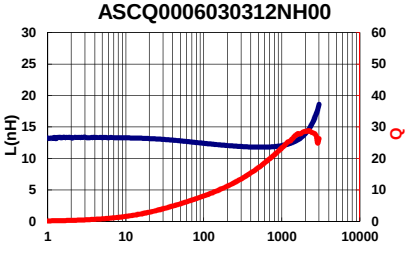
RDC<0.65Ω SRF:4000MHz IDC:270 mA

ASCQ0006030310NH00



RDC<0.85Ω SRF:3800MHz IDC:230 mA

ASCQ0006030312NH00



RDC<0.85Ω SRF:3300MHz IDC:230 mA

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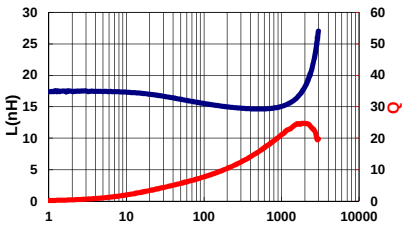
Chip Inductor ASCQ Series

Automotive
AEC-Q200

ASCQ00060303 Type

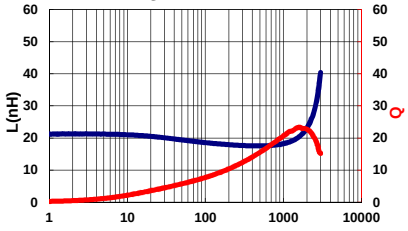
■ Characteristics Graph

ASCQ0006030315NH00



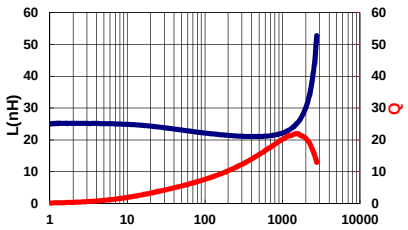
RDC<0.89Ω SRF:2600MHz IDC:220 mA

ASCQ0006030318NH00



RDC<1.05Ω SRF:2300MHz IDC:205 mA

ASCQ0006030322NH00



RDC<1.29Ω SRF:1900MHz IDC:190 mA

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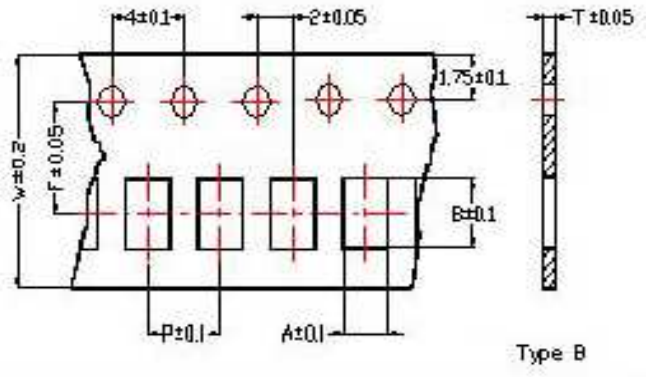
Chip Inductor ASCQ Series

Automotive
AEC-Q200

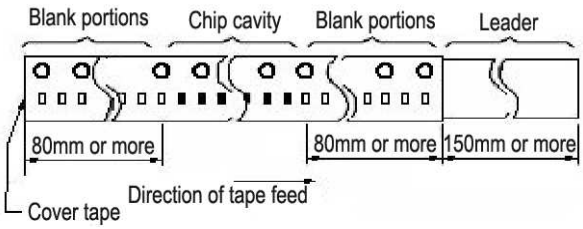
Packaging

Tape Dimensions

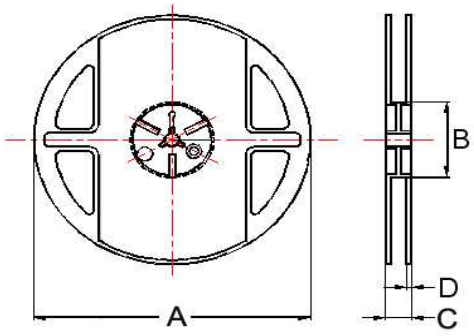


Tape Material

Carrier tape : Paper
Cover tape : Polyethylene



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions						Reel Dimensions				Quantity
	A	B	T	W	P	F	A	B	C	D	PCS / Reel
ASCQ00060303	0.37	0.67	0.42	8	2	3.5	180	60	13	1.5	15000

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Chip Inductor ASCH Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Noise Suppression | Shield | Multilayer | Ceramic | High Frequency

Part Numbering

A	SCH	00	100505	1N0	S	CP
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (nH)	Tolerance	Internal Code
			100505 1.0x0.5x0.5	1N0 1.0	S ±0.3nH	00 General
			160808 1.6x0.8x0.8	10N 10	J ±5%	CP Low RDC
				R10 100		

This specification applies to Wire Wound Chip Inductors for Automotive Electronics based on AEC-Q200 except for Power train and Safety.

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Pulse a YAGEO company

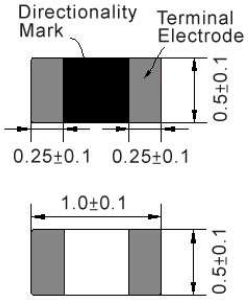
CHILISIN ELECTRONICS CORP.

Chip Inductor ASCH Series

Automotive AEC-Q200

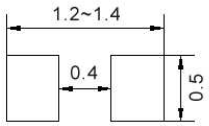
ASCH00100505_CP Type

Dimensions



unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

Part No.	Inductance (nH)	L,Q Test Freq.	Q Min.	SRF (MHz)Min.	RDC (Ω)Max.	Rated Current (mA)Max.	Tolerance (±%)
ASCH001005051N0□CP	1.0	100 MHz,200 mV	8	10000	0.07	400	±0.3nH
ASCH001005051N1□CP	1.1	100 MHz,200 mV	8	10000	0.10	400	±0.3nH
ASCH001005051N2□CP	1.2	100 MHz,200 mV	8	10000	0.09	400	±0.3nH
ASCH001005051N3□CP	1.3	100 MHz,200 mV	8	9000	0.10	400	±0.3nH
ASCH001005051N5□CP	1.5	100 MHz,200 mV	8	9000	0.10	400	±0.3nH
ASCH001005051N6□CP	1.6	100 MHz,200 mV	8	8700	0.10	400	±0.3nH
ASCH001005051N8□CP	1.8	100 MHz,200 mV	8	8700	0.10	400	±0.3nH
ASCH001005052N0□CP	2.0	100 MHz,200 mV	8	8100	0.10	400	±0.3nH
ASCH001005052N2□CP	2.2	100 MHz,200 mV	8	8100	0.12	400	±0.3nH
ASCH001005052N4□CP	2.4	100 MHz,200 mV	8	7700	0.15	400	±0.3nH
ASCH001005052N7□CP	2.7	100 MHz,200 mV	8	7700	0.15	400	±0.3nH
ASCH001005053N0□CP	3.0	100 MHz,200 mV	8	6300	0.15	400	±0.3nH
ASCH001005053N3□CP	3.3	100 MHz,200 mV	8	6300	0.15	400	±0.3nH
ASCH001005053N6□CP	3.6	100 MHz,200 mV	8	6100	0.15	400	±0.3nH
ASCH001005053N9□CP	3.9	100 MHz,200 mV	8	6100	0.18	400	±0.3nH
ASCH001005054N3□CP	4.3	100 MHz,200 mV	8	6000	0.18	400	±0.3nH
ASCH001005054N7□CP	4.7	100 MHz,200 mV	8	6000	0.18	400	±0.3nH
ASCH001005055N1□CP	5.1	100 MHz,200 mV	8	5300	0.20	400	±0.3nH
ASCH001005055N6□CP	5.6	100 MHz,200 mV	8	5100	0.20	400	±0.3nH
ASCH001005056N2□CP	6.2	100 MHz,200 mV	8	4500	0.22	400	±0.3nH
ASCH001005056N8□CP	6.8	100 MHz,200 mV	8	4550	0.24	400	5
ASCH001005057N5□CP	7.5	100 MHz,200 mV	8	4200	0.24	300	5
ASCH001005058N2□CP	8.2	100 MHz,200 mV	8	4100	0.24	300	5
ASCH001005059N1□CP	9.1	100 MHz,200 mV	8	3900	0.26	300	5
ASCH0010050510N□CP	10	100 MHz,200 mV	8	3900	0.26	300	5
ASCH0010050512N□CP	12	100 MHz,200 mV	8	3000	0.28	300	5
ASCH0010050515N□CP	15	100 MHz,200 mV	8	2500	0.32	300	5
ASCH0010050518N□CP	18	100 MHz,200 mV	8	2200	0.36	300	5
ASCH0010050522N□CP	22	100 MHz,200 mV	8	1900	0.42	300	5
ASCH0010050527N□CP	27	100 MHz,200 mV	8	1700	0.46	300	5

Note: When ordering, please specify tolerance code. Tolerance: C=±0.2nH / S=±0.3nH / J=±5% / K=±10%

1. Operating temperature range - 55℃ ~ 125℃
2. Applied the current to coils, the temperature rise shall not be more than 30℃
3. Residual impedance of short chip : 0nH
4. Measure Equipment:
   L & Q: Agilent E4991A+Agilent 16197A
   SRF: Agilent E4991A or HP19196C
   RDC: HP4338B or CHEN HWA 502

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Pulse a YAGEO company

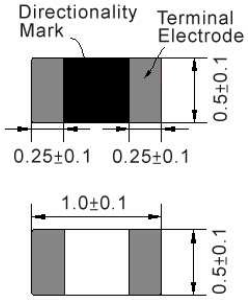
CHILISIN ELECTRONICS CORP.

Chip Inductor ASCH Series

Automotive
AEC-Q200

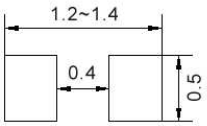
ASCH00100505_CP Type

Dimensions



unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

Part No.	Inductance (nH)	L,Q Test Freq.	Q Min.	SRF (MHz)Min.	RDC (Ω)Max.	Rated Current (mA)Max.	Tolerance (±%)
ASCH0010050533N□CP	33	100 MHz,200 mV	8	1600	0.58	200	5
ASCH0010050539N□CP	39	100 MHz,200 mV	8	1200	0.65	200	5
ASCH0010050547N□CP	47	100 MHz,200 mV	8	1000	0.72	200	5
ASCH0010050556N□CP	56	100 MHz,200 mV	8	800	0.82	200	5
ASCH0010050568N□CP	68	100 MHz,200 mV	8	800	0.92	180	5
ASCH0010050582N□CP	82	100 MHz,200 mV	8	700	1.20	150	5
ASCH00100505R10□CP	100	100 MHz,200 mV	8	900	2.00	100	5
ASCH00100505R12□CP	120	100 MHz,200 mV	8	800	2.20	100	5
ASCH00100505R15□CP	150	100 MHz,200 mV	8	700	3.50	100	5
ASCH00100505R18□CP	180	100 MHz,200 mV	8	600	3.80	100	5
ASCH00100505R22□CP	220	100 MHz,200 mV	8	500	4.20	100	5
ASCH00100505R27□CP	270	100 MHz,200 mV	8	500	4.80	100	5

Note: When ordering, please specify tolerance code. Tolerance: C=±0.2nH / S=±0.3nH / J=±5% / K=±10%

1. Operating temperature range - 55℃ ~ 125℃
2. Applied the current to coils, the temperature rise shall not be more than 30℃
3. Residual impedance of short chip : 0nH
4. Measure Equipment:
   L & Q: Agilent E4991A+Agilent 16197A
   SRF: Agilent E4991A or HP19196C
   RDC: HP4338B or CHEN HWA 502

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Pulse a YAGEO company

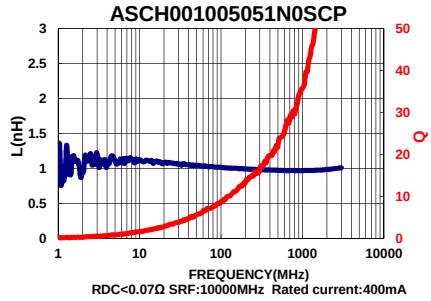
CHILISIN ELECTRONICS CORP.

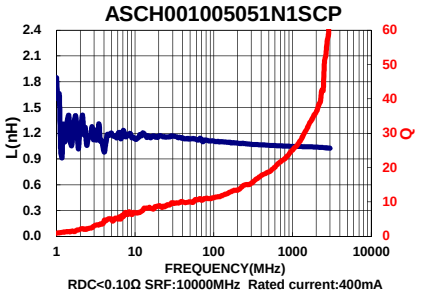
Chip Inductor ASCH Series

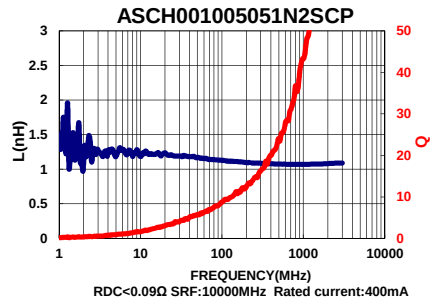
Automotive
AEC-Q200

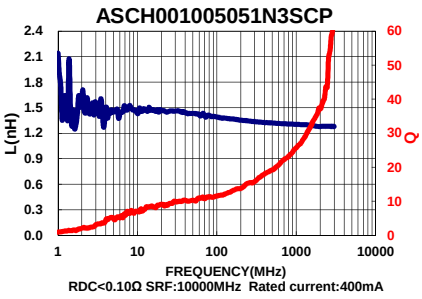
ASCH00100505_CP Type

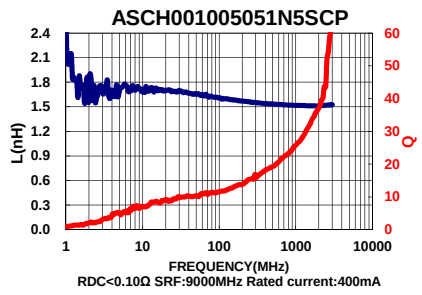
Characteristics Graph

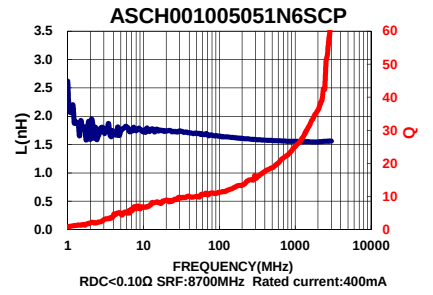


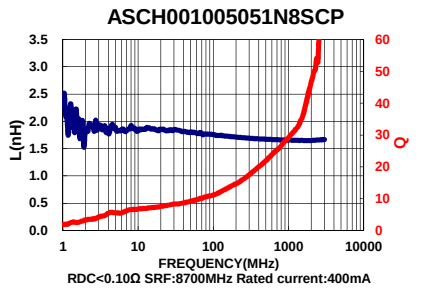


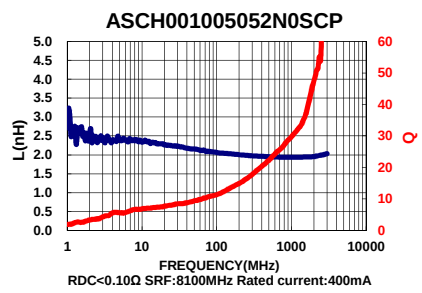


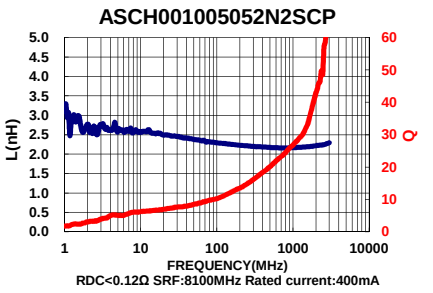


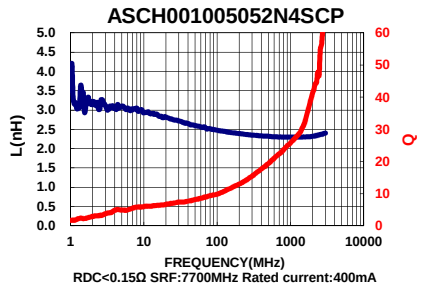


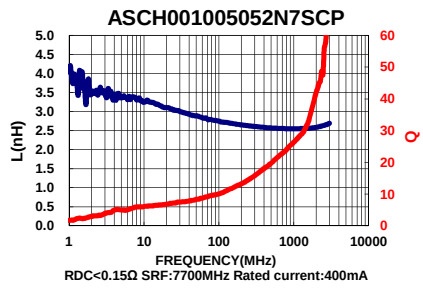


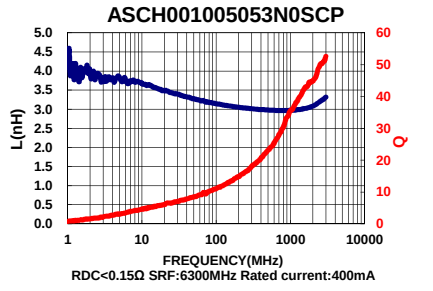


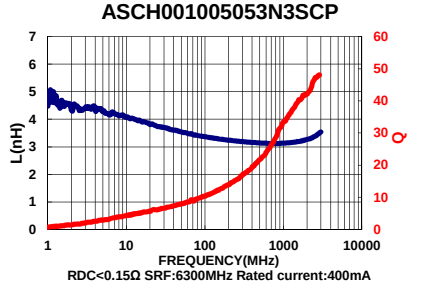


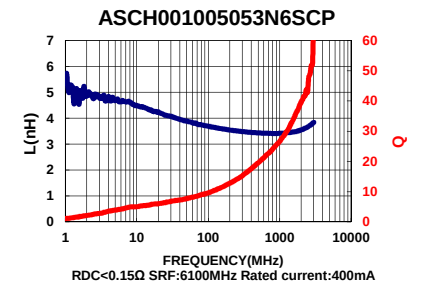


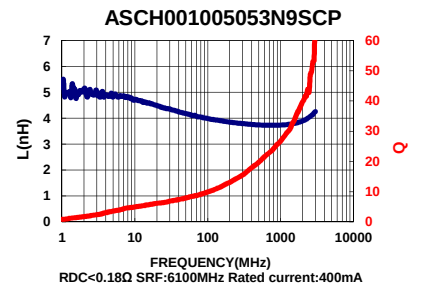












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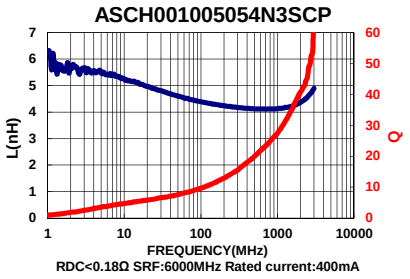
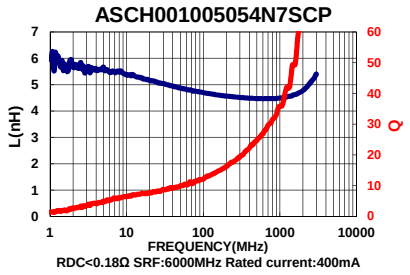
Chip Inductor ASCH Series

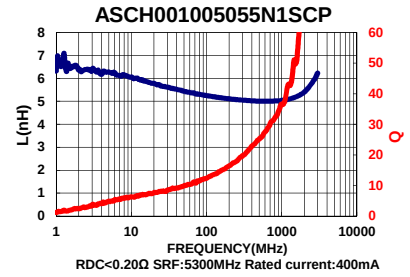
Automotive
AEC-Q200

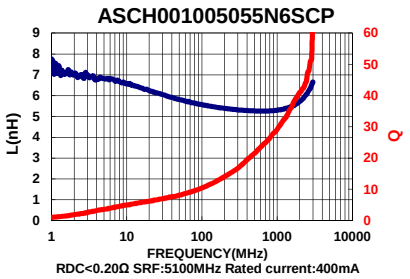
ASCH00100505_CP Type

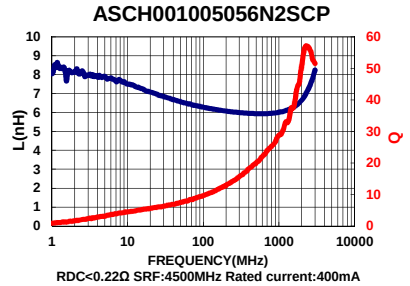
■ Characteristics Graph

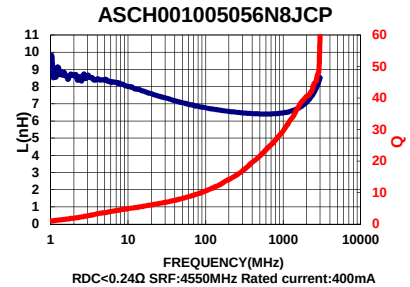


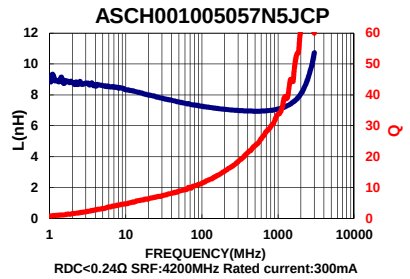


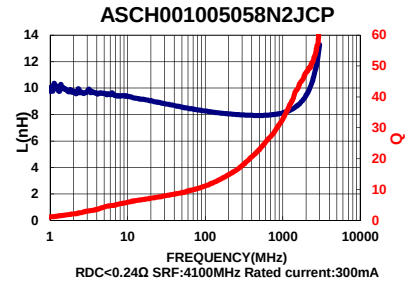


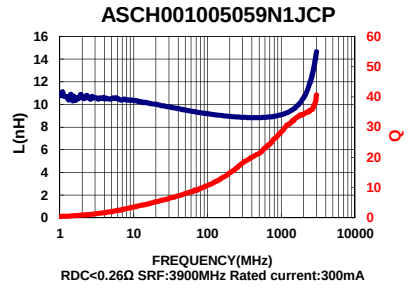


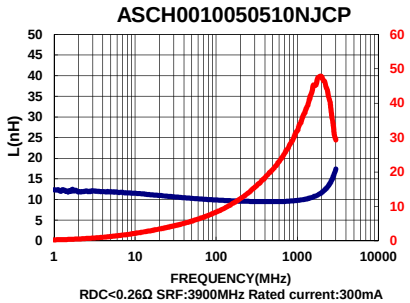


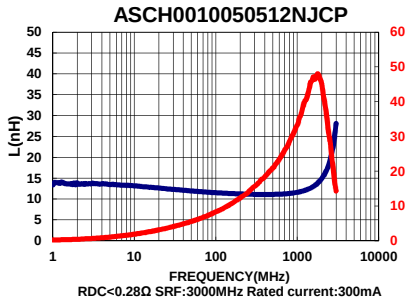


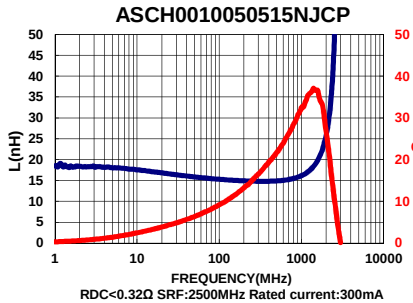


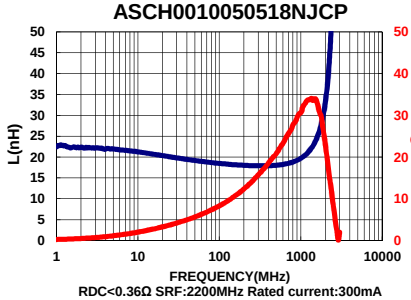


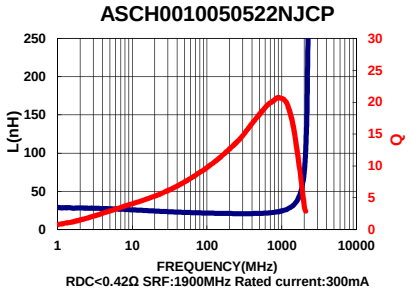


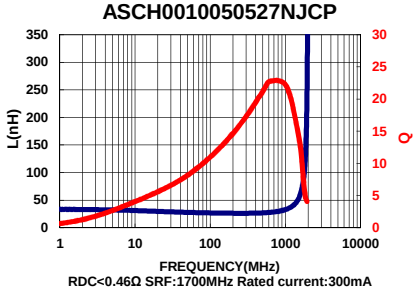












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Pulse a YAGEO company

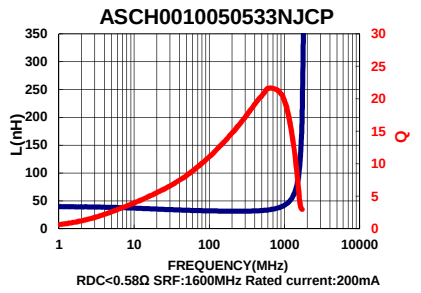
CHILISIN ELECTRONICS CORP.

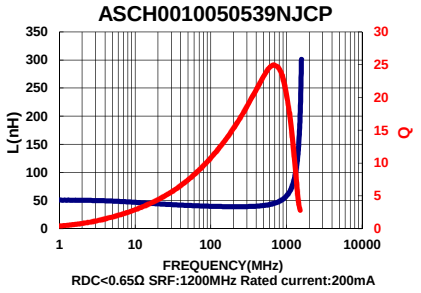
Chip Inductor ASCH Series

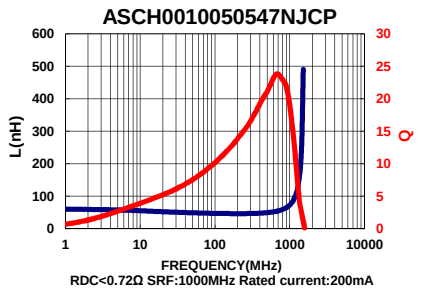
Automotive
AEC-Q200

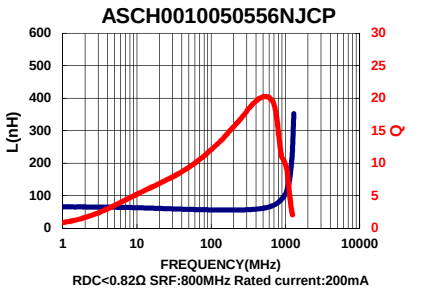
ASCH00100505_CP Type

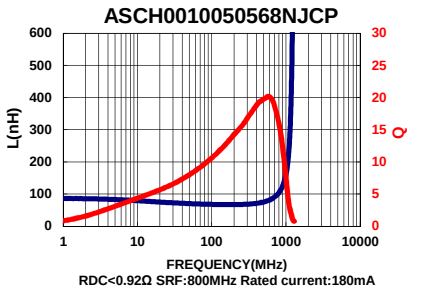
■ Characteristics Graph

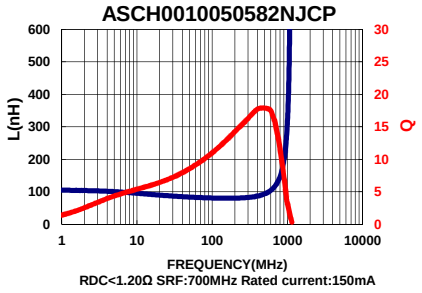


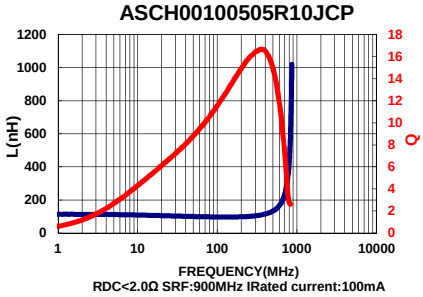


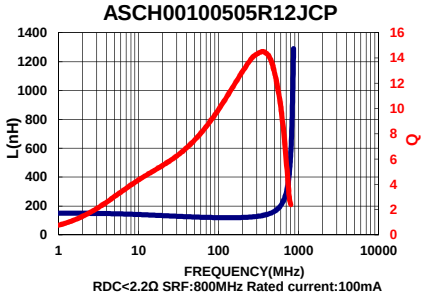


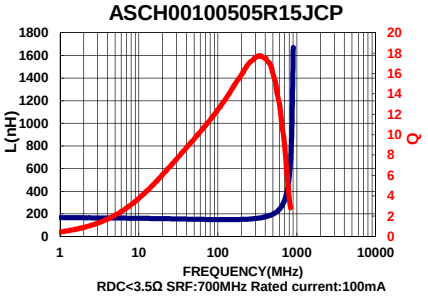


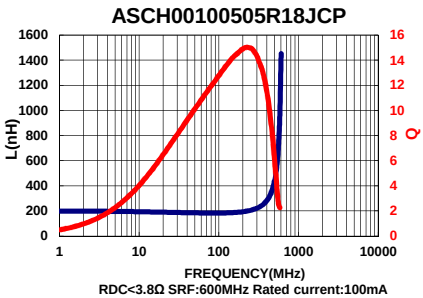


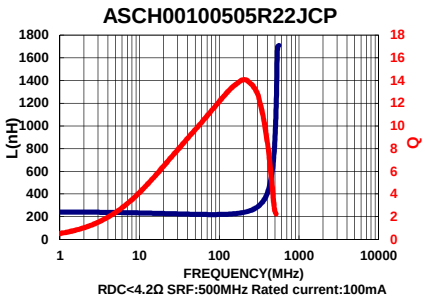


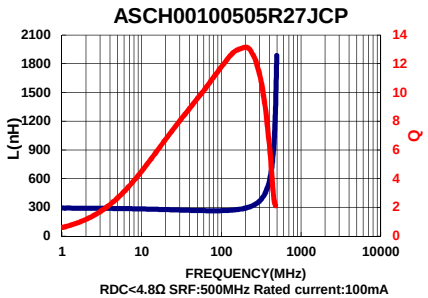












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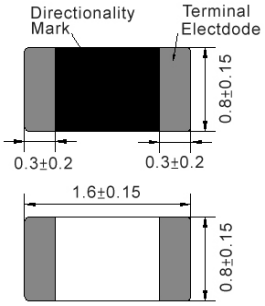
CHILISIN ELECTRONICS CORP.

Chip Inductor ASCH Series

Automotive
AEC-Q200

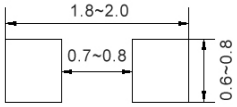
ASCH00160808 Type

Dimensions



unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

Part No.	Inductance (nH)	L,Q Test Freq.	Q Min.	SRF (MHz)Typ.	RDC (Ω)Max.	IDC (mA)Max.	Tolerance (±%)
ASCH001608081N0□00	1.0	100 MHz,200 mV	8	10000	0.10	600	±0.3nH
ASCH001608081N2□00	1.2	100 MHz,200 mV	8	10000	0.10	600	±0.3nH
ASCH001608081N5□00	1.5	100 MHz,200 mV	8	8000	0.10	600	±0.3nH
ASCH001608081N6□00	1.6	100 MHz,200 mV	8	8000	0.10	600	±0.3nH
ASCH001608081N8□00	1.8	100 MHz,200 mV	8	8000	0.10	600	±0.3nH
ASCH001608082N2□00	2.2	100 MHz,200 mV	8	7200	0.10	600	±0.3nH
ASCH001608082N7□00	2.7	100 MHz,200 mV	10	6200	0.10	600	±0.3nH
ASCH001608083N0□00	3.0	100 MHz,200 mV	10	5200	0.12	600	±0.3nH
ASCH001608083N3□00	3.3	100 MHz,200 mV	10	5200	0.12	600	±0.3nH
ASCH001608083N6□00	3.6	100 MHz,200 mV	10	5000	0.14	600	±0.3nH
ASCH001608083N9□00	3.9	100 MHz,200 mV	10	5000	0.14	600	±0.3nH
ASCH001608084N3□00	4.3	100 MHz,200 mV	10	4750	0.16	600	±0.3nH
ASCH001608084N7□00	4.7	100 MHz,200 mV	10	4750	0.16	600	±0.3nH
ASCH001608085N1□00	5.1	100 MHz,200 mV	10	4100	0.18	600	±0.3nH
ASCH001608085N6□00	5.6	100 MHz,200 mV	10	4100	0.18	600	±0.3nH
ASCH001608086N2□00	6.2	100 MHz,200 mV	10	3750	0.22	600	±0.3nH
ASCH001608086N8□00	6.8	100 MHz,200 mV	10	3750	0.22	600	5
ASCH001608087N5□00	7.5	100 MHz,200 mV	10	3300	0.24	600	5
ASCH001608088N2□00	8.2	100 MHz,200 mV	10	3300	0.24	600	5
ASCH0016080810N□00	10	100 MHz,200 mV	12	3000	0.26	600	5
ASCH0016080812N□00	12	100 MHz,200 mV	12	2600	0.28	600	5
ASCH0016080815N□00	15	100 MHz,200 mV	12	2500	0.32	600	5
ASCH0016080816N□00	16	100 MHz,200 mV	12	2400	0.35	600	5
ASCH0016080818N□00	18	100 MHz,200 mV	12	2400	0.35	600	5
ASCH0016080822N□00	22	100 MHz,200 mV	12	2000	0.40	500	5
ASCH0016080827N□00	27	100 MHz,200 mV	12	1900	0.45	500	5
ASCH0016080833N□00	33	100 MHz,200 mV	12	1600	0.55	400	5
ASCH0016080839N□00	39	100 MHz,200 mV	12	1400	0.60	400	5
ASCH0016080847N□00	47	100 MHz,200 mV	12	1300	0.70	400	5
ASCH0016080856N□00	56	100 MHz,200 mV	12	1100	0.75	400	5
ASCH0016080862N□00	62	100 MHz,200 mV	12	1050	0.85	400	5
ASCH0016080868N□00	68	100 MHz,200 mV	12	1050	0.85	400	5
ASCH0016080875N□00	75	100 MHz,200 mV	12	900	1.00	300	5
ASCH0016080882N□00	82	100 MHz,200 mV	12	900	1.00	300	5

Note: When ordering, please specify tolerance code. Tolerance: S=±0.3nH / J=±5%

1. Operating temperature range - 55℃ ~ 125℃
2. Applied the current to coils, the inductance shall be less than 10% initial value
3. Residual impedance of short chip : 0nH
4. Measure Equipment:

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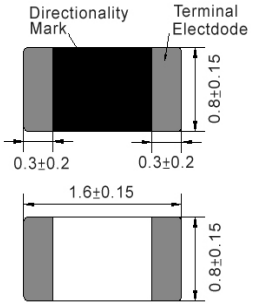
CHILISIN ELECTRONICS CORP.

Chip Inductor ASCH Series

Automotive
AEC-Q200

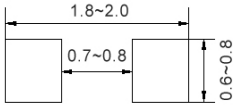
ASCH00160808 Type

Dimensions



unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

Part No.	Inductance (nH)	L,Q Test Freq.	Q Min.	SRF (MHz)Typ.	RDC (Ω)Max.	IDC (mA)Max.	Tolerance (±%)
BSCH00160808R10□00	100	100 MHz,200 mV	12	770	1.20	300	5
BSCH00160808R12□00	120	50 MHz,200 mV	8	650	1.30	300	5
BSCH00160808R15□00	150	50 MHz,200 mV	8	550	1.70	250	5
BSCH00160808R18□00	180	50 MHz,200 mV	8	520	1.90	250	5
BSCH00160808R22□00	220	50 MHz,200 mV	8	500	2.00	250	5
BSCH00160808R27□00	270	50 MHz,200 mV	8	470	2.20	150	5
BSCH00160808R33□00	330	50 MHz,200 mV	8	320	2.80	100	5
BSCH00160808R39□00	390	50 MHz,200 mV	8	300	3.00	100	5

Note: When ordering, please specify tolerance code. Tolerance: S=±0.3nH / J=±5%

1. Operating temperature range - 55℃ ~ 125℃
2. Applied the current to coils, the inductance shall be less than 10% initial value
3. Residual impedance of short chip : 0nH
4. Measure Equipment:
   L & Q: Agilent E4991A+Agilent 16197A
   SRF: Agilent E4991A or HP19196C
   RDC: HP4338B or CHEN HWA 502

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

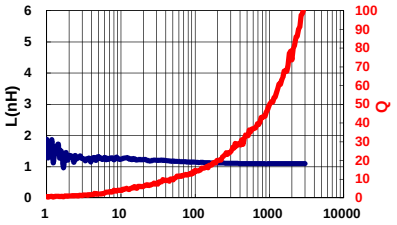
Chip Inductor ASCH Series

Automotive
AEC-Q200

ASCH00160808 Type

Characteristics Graph

ASCH001608081N0S00



RDC<0.1Ω SRF:10000MHz IDC:600mA

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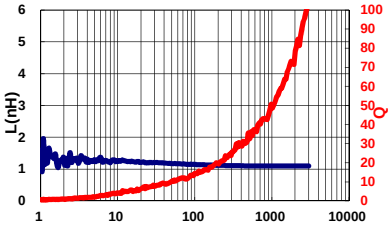

RDC<0.1Ω SRF:10000MHz IDC:600mA

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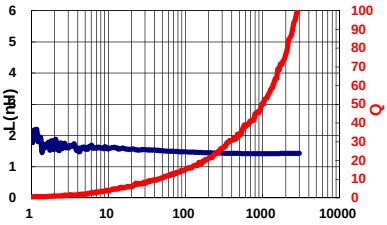

RDC<0.1Ω SRF:8000MHz IDC:600mA

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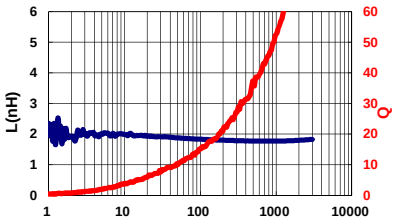

RDC<0.10Ω SRF:8000MHz IDC:600mA

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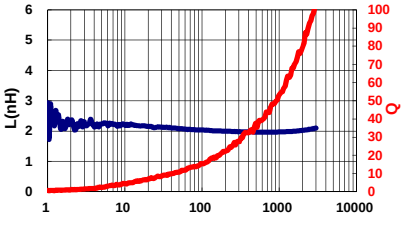

RDC<0.1Ω SRF:7200MHz IDC:600mA

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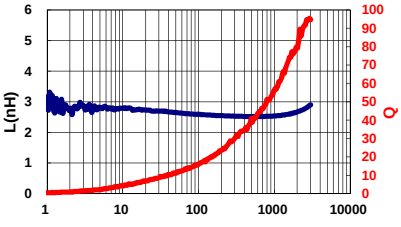

RDC<0.10Ω SRF:6200MHz IDC:600mA

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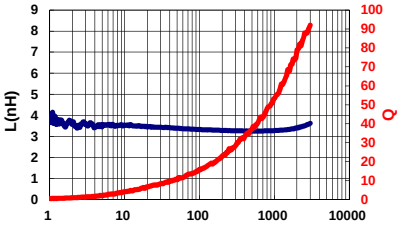
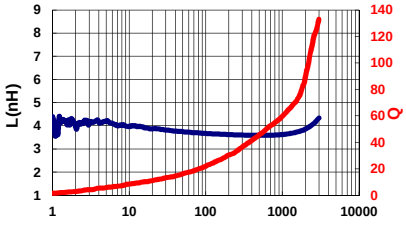


RDC<0.12Ω SRF:5200MHz IDC:600mA

ASCH001608083N6S00



RDC<0.14Ω SRF:5000MHz IDC:600mA

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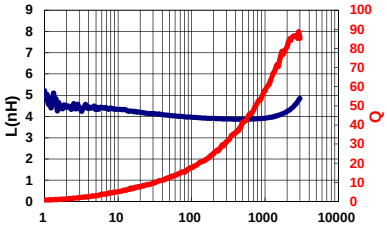

RDC<0.14Ω SRF:5000MHz IDC:600mA

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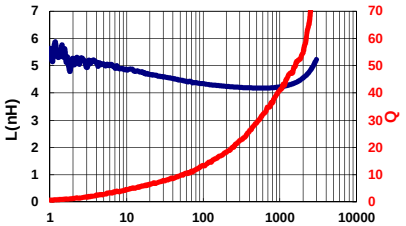

RDC<0.16Ω SRF:4750MHz IDC:600mA

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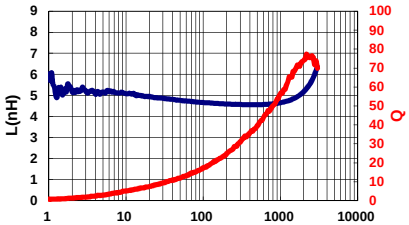

RDC<0.16Ω SRF:4750MHz IDC:600mA

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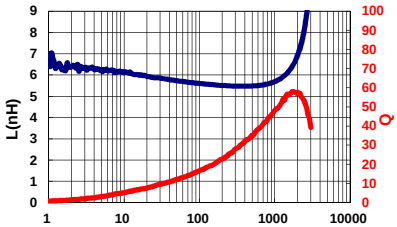

RDC<0.18Ω SRF:4100MHz IDC:600mA

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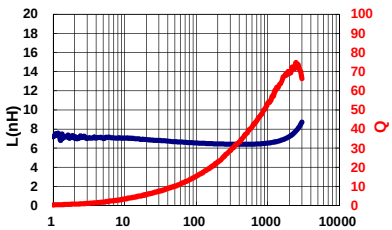

RDC<0.22Ω SRF:3750MHz IDC:600mA

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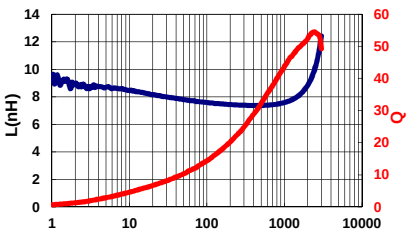
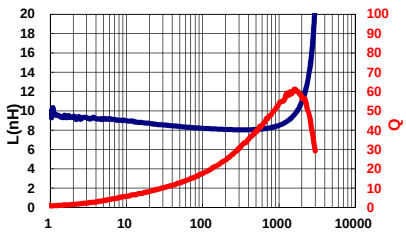


RDC<0.24Ω SRF:3300MHz IDC:600mA

ASCH001608088N2J00



RDC<0.24Ω SRF:3300MHz IDC:600mA

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

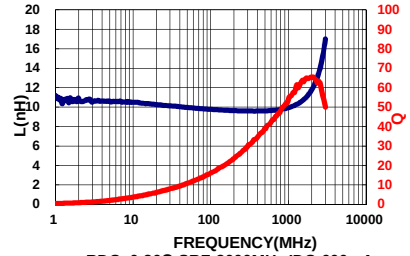
Chip Inductor ASCH Series

Automotive
AEC-Q200

ASCH00160808 Type

■ Characteristics Graph

ASCH0016080810NJ00



RDC<0.26Ω SRF:3000MHz IDC:600mA

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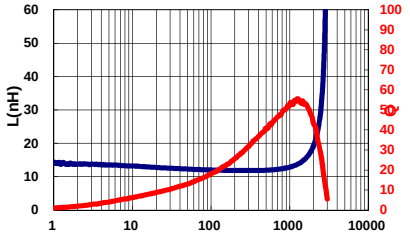

RDC<0.28Ω SRF:2600MHz IDC:600mA

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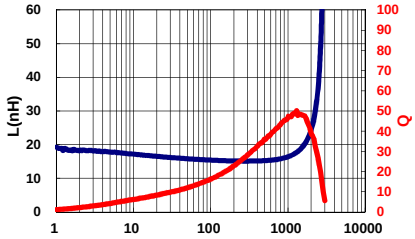

RDC<0.32Ω SRF:2400MHz IDC:600mA

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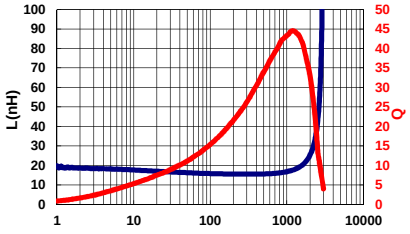

RDC<0.12Ω SRF:2400MHz IDC:600mA

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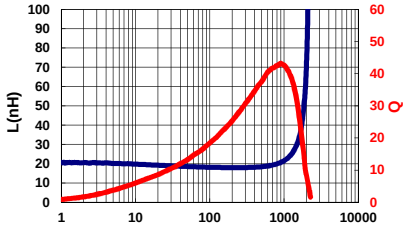

RDC<0.35Ω SRF:2400MHz IDC:600mA

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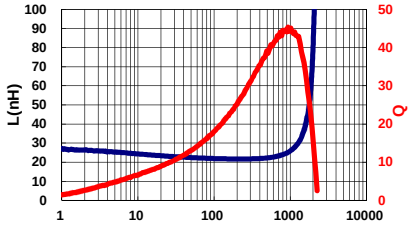

RDC<0.4Ω SRF:2000MHz IDC:500mA

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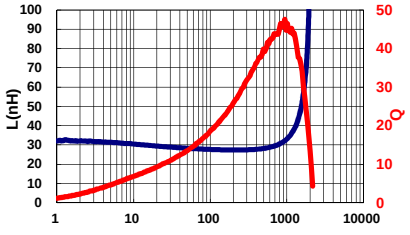

RDC<0.45Ω SRF:1900MHz IDC:500mA

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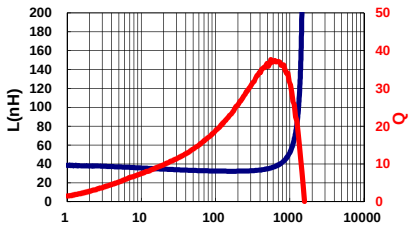

RDC<0.55Ω SRF:1600MHz IDC:400mA

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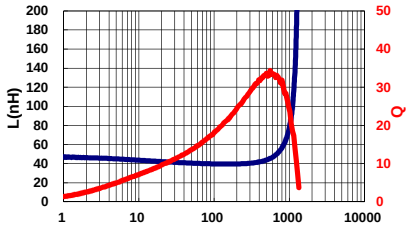

RDC<0.60Ω SRF:1400MHz IDC:400mA

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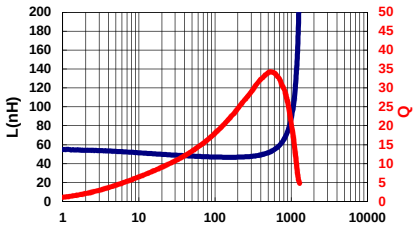

RDC<0.7Ω SRF:1300MHz IDC:400mA

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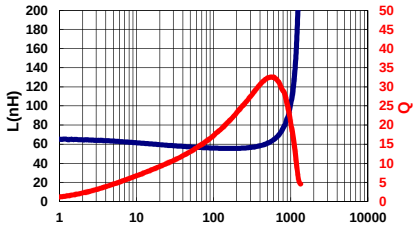

RDC<0.75Ω SRF:1100MHz IDC:400mA

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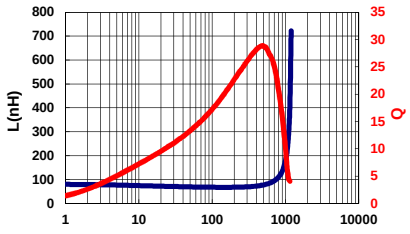

RDC<0.85Ω SRF:1050MHz IDC:400mA

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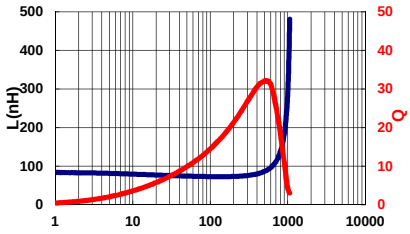

RDC<1.0Ω SRF:900MHz IDC:300mA

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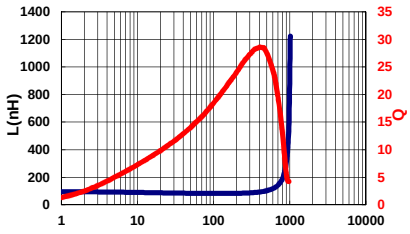

RDC<1.0Ω SRF:900MHz IDC:300mA

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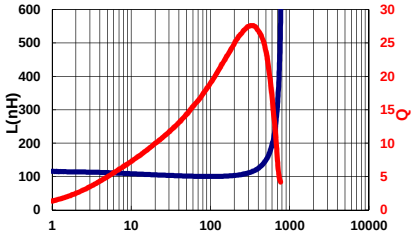

RDC<1.20Ω SRF:770MHz IDC:300mA

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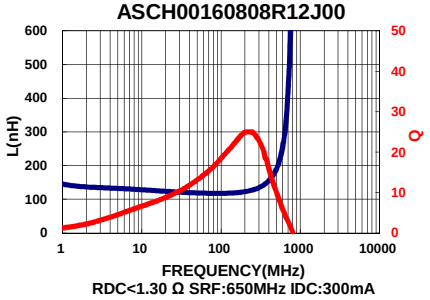
Chip Inductor ASCH Series

Automotive
AEC-Q200

ASCH00160808 Type

Characteristics Graph

ASCH00160808R12J00



RDC<1.30 Ω SRF:650MHz IDC:300mA

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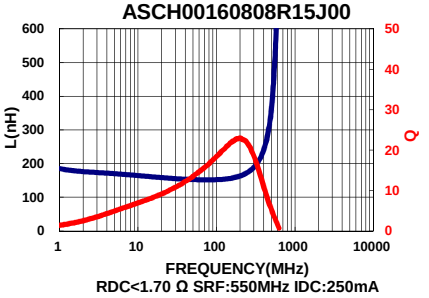

RDC<1.70 Ω SRF:550MHz IDC:250mA

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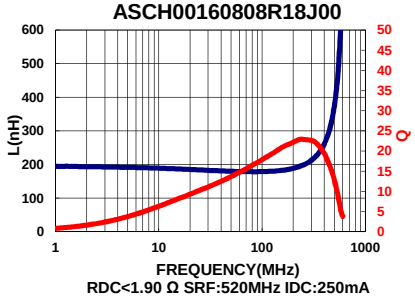

RDC<1.90 Ω SRF:520MHz IDC:250mA

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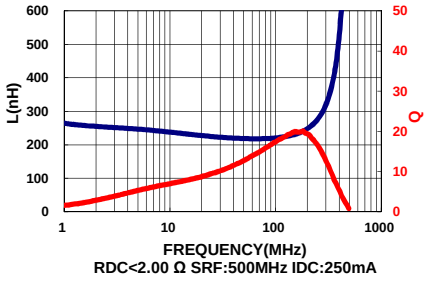

RDC<2.00 Ω SRF:500MHz IDC:250mA

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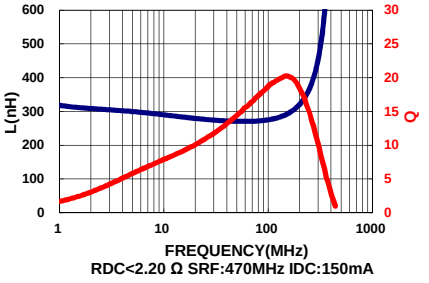

RDC<2.20 Ω SRF:470MHz IDC:150mA

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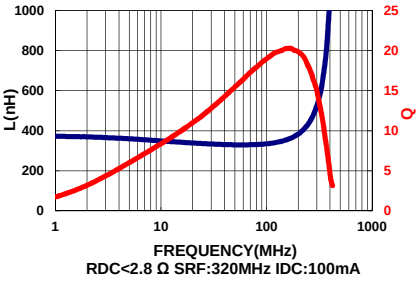

RDC<2.8 Ω SRF:320MHz IDC:100mA

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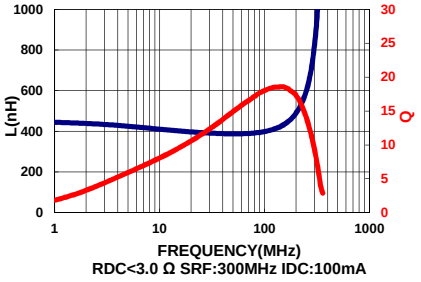

RDC<3.0 Ω SRF:300MHz IDC:100mA

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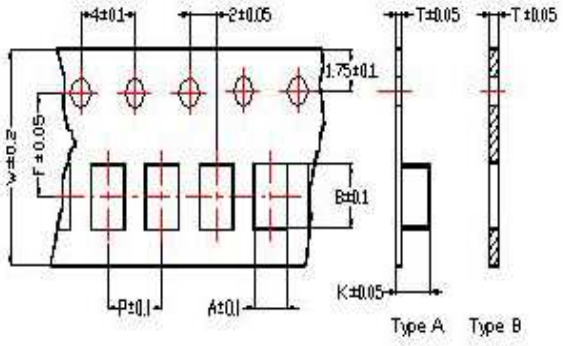
Chip Inductor ASCH Series

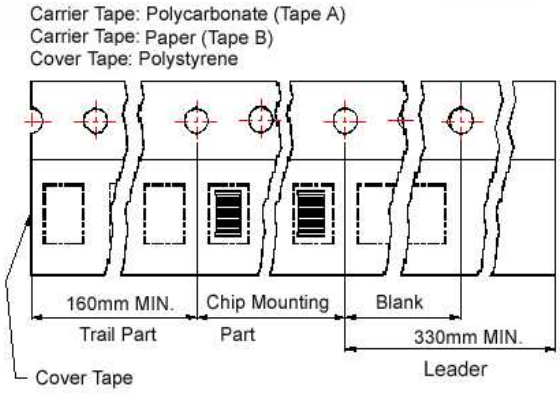
Automotive
AEC-Q200

Packaging

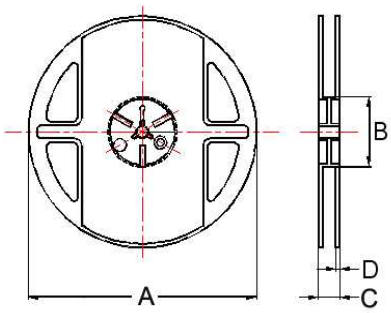
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	Tape	A	B	C	D	PCS / Reel
ASCH00100505	0.62	1.12	0.60	8	2	3.5	B	178	60	12	1.5	10000
ASCH00160808	1.00	1.80	0.95	8	4	3.5	B	178	60	12	1.5	4000

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Chip Inductor AWCM Series

Automotive
AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

RF Circuit | Unshield | Wire Wound | Ceramic | High Q

Part Numbering

A	WCM	00	161008	10N	J	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (nH)	Tolerance	Internal Code

Dimensions Code (mm)	
120707	1.19x0.64x0.66
161008	1.6x1.02x0.82

Inductance (nH)	
2N2	2.2
10N	10
R10	100

Tolerance	
B	±0.1nH
C	±0.2nH
D	±0.5nH
G	±2%
H	±3%
J	±5%

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Pulse a YAGEO company

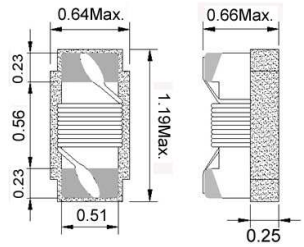
CHILISIN ELECTRONICS CORP.

Chip Inductor AWCM Series

Automotive AEC-Q200

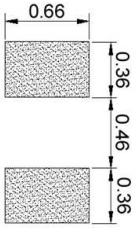
AWCM00120707 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test Freq. (MHz)	Q Min.	SRF (MHz)Min.	RDC (Ω)Max.	Irms (mA)Max.	Tolerance
AWCM001207071N5□00	1.5	100/250	10	18000	0.03	1000	±0.1nH,±0.2nH,±0.5nH
AWCM001207072N4□00	2.4	100/250	20	15000	0.05	850	±0.1nH,±0.2nH,±0.5nH
AWCM001207072N5□00	2.5	100/250	20	15000	0.05	850	±0.1nH,±0.2nH,±0.5nH
AWCM001207072N7□00	2.7	100/250	20	15000	0.05	850	±0.1nH,±0.2nH,±0.5nH
AWCM001207072N9□00	2.9	100/250	20	15000	0.07	750	±0.1nH,±0.2nH,±0.5nH
AWCM001207073N9□00	3.9	100/250	25	10000	0.07	750	3,5
AWCM001207074N1□00	4.1	100/250	25	10000	0.07	750	3,5
AWCM001207074N3□00	4.3	100/250	25	10000	0.07	750	3,5
AWCM001207074N7□00	4.7	100/250	25	8000	0.07	750	3,5
AWCM001207075N1□00	5.1	100/250	25	8000	0.12	600	3,5
AWCM001207075N8□00	5.8	100/250	25	8000	0.12	700	3,5
AWCM001207076N2□00	6.2	100/250	25	8000	0.09	700	3,5
AWCM001207076N8□00	6.8	100/250	25	6000	0.09	700	3,5
AWCM001207077N3□00	7.3	100/250	25	6000	0.13	570	3,5
AWCM001207077N5□00	7.5	100/250	25	6000	0.13	570	3,5
AWCM001207078N2□00	8.2	100/250	25	5500	0.14	540	3,5
AWCM001207078N7□00	8.7	100/250	25	5500	0.14	540	3,5
AWCM001207079N1□00	9.1	100/250	25	5500	0.14	540	3,5
AWCM001207079N5□00	10	100/250	25	5500	0.14	540	3,5
AWCM0012070710N□00	10	100/250	25	5500	0.17	500	2,3,5
AWCM0012070711N□00	11	100/250	30	5500	0.14	500	2,3,5
AWCM0012070712N□00	12	100/250	30	5500	0.14	500	2,3,5
AWCM0012070713N□00	13	100/250	25	5000	0.21	430	2,3,5
AWCM0012070715N□00	15	100/250	30	5000	0.16	460	2,3,5
AWCM0012070716N□00	16	100/250	25	4500	0.24	370	2,3,5
AWCM0012070718N□00	18	100/250	25	4500	0.27	370	2,3,5
AWCM0012070719N□00	19	100/250	25	4500	0.27	370	2,3,5
AWCM0012070720N□00	20	100/250	25	4000	0.27	370	2,3,5
AWCM0012070722N□00	22	100/250	25	4000	0.3	310	2,3,5
AWCM0012070723N□00	23	100/250	25	3800	0.3	310	2,3,5
AWCM0012070724N□00	24	100/250	25	3500	0.52	280	2,3,5
AWCM0012070727N□00	27	100/250	25	3500	0.52	280	2,3,5

Note: □-tolerance B=±0.1nH / C=±0.2nH / D=±0.5nH / H=±3% / J=±5% / G=±2%

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Irms for a 15℃ temperature rise from 25℃ ambient.
3. L/Q Test OSC @200mV.
4. Inductance would be correct Chilisin standard piece.
5. Offset value : -0.556nH

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Pulse a YAGEO company

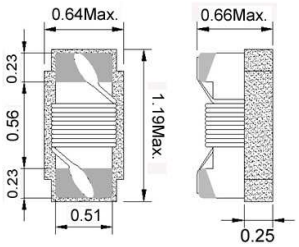
CHILISIN ELECTRONICS CORP.

Chip Inductor AWCM Series

Automotive AEC-Q200

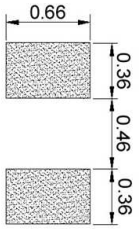
AWCM00120707 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test Freq. (MHz)	Q Min.	SRF (MHz)Min.	RDC (Ω)Max.	Irms (mA)Max.	Tolerance
AWCM0012070730N□00	30	100/250	25	3300	0.58	270	2,3,5
AWCM0012070733N□00	33	100/250	25	3200	0.63	260	2,3,5
AWCM0012070736N□00	36	100/250	25	3100	0.63	260	2,3,5
AWCM0012070739N□00	39	100/250	25	3000	0.7	250	2,3,5
AWCM0012070740N□00	40	100/250	25	3000	0.7	250	2,3,5
AWCM0012070747N□00	47	100/200	25	2900	1.08	210	2,3,5
AWCM0012070751N□00	51	100/200	25	2850	1.08	210	2,3,5
AWCM0012070756N□00	56	100/200	25	2800	1.17	200	2,3,5
AWCM0012070762N□00	62	100/200	20	2600	1.82	145	2,3,5
AWCM0012070768N□00	68	100/200	20	2500	1.96	140	2,3,5
AWCM0012070772N□00	72	100/150	20	2500	2.1	135	2,5
AWCM0012070775N□00	75	100/150	20	2400	2.1	135	2,5
AWCM0012070782N□00	82	100/150	20	2300	2.24	130	2,5
AWCM0012070791N□00	91	100/150	20	2100	2.38	125	2,5
AWCM00120707R10□00	100	100/150	20	1500	2.52	120	2,5
AWCM00120707R12□00	120	100/150	20	1000	2.66	110	2,5

Note: □-tolerance B=±0.1nH / C=±0.2nH / D=±0.5nH / H=±3% / J=±5% / G=±2%

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Irms for a 15℃ temperature rise from 25℃ ambient.
3. L/Q Test OSC @200mV.
4. Inductance would be correct Chilisin standard piece.
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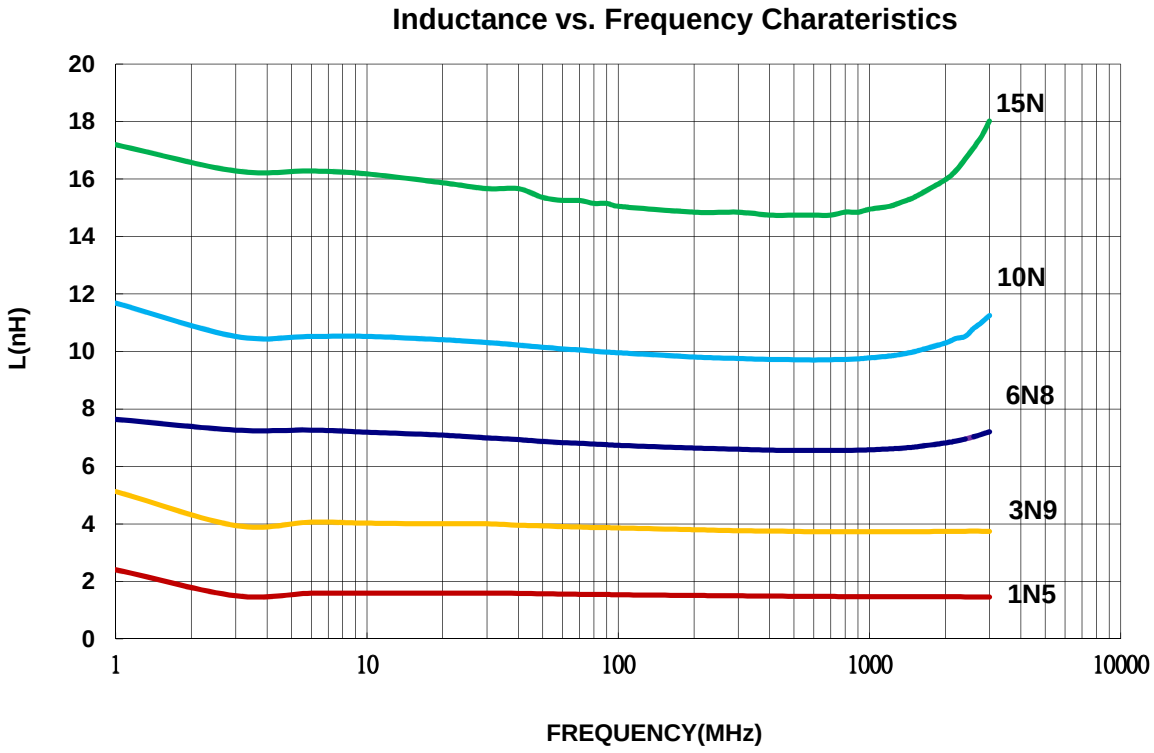
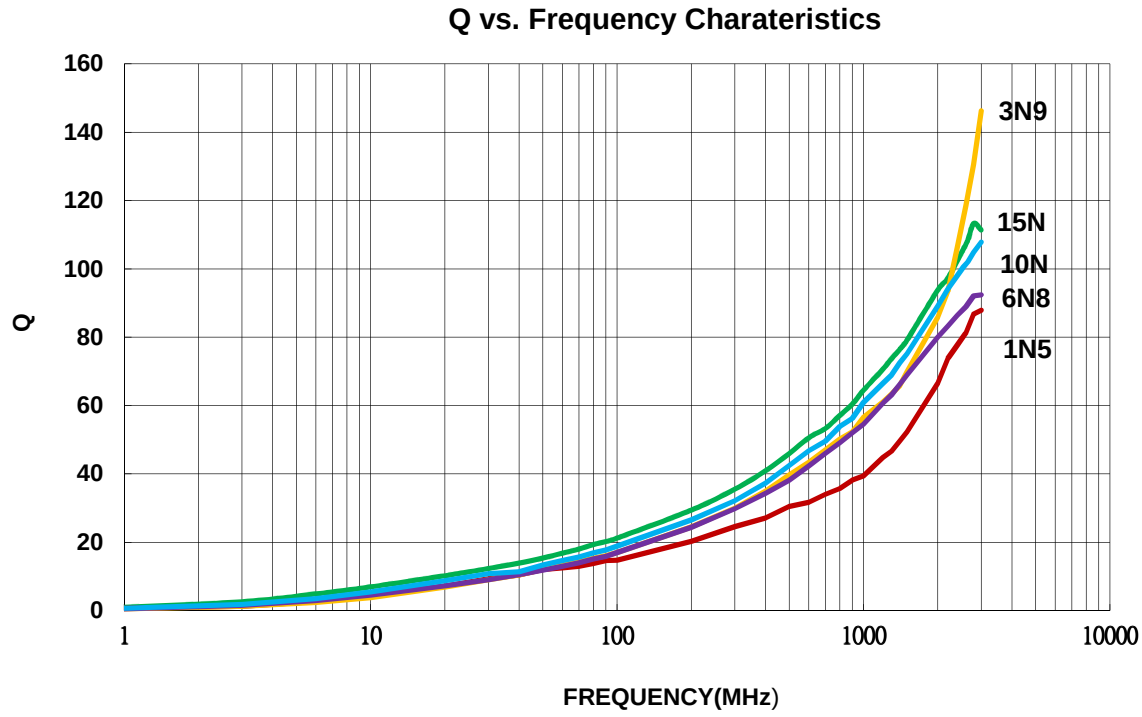
Chip Inductor AWCM Series

Automotive
AEC-Q200

AWCM00120707 Type

■ Characteristics Graph





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Pulse a YAGEO company

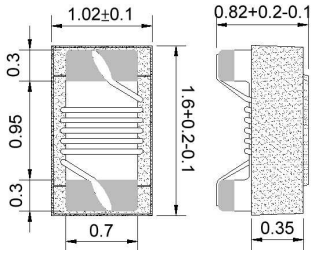
CHILISIN ELECTRONICS CORP.

Chip Inductor AWCM Series

Automotive AEC-Q200

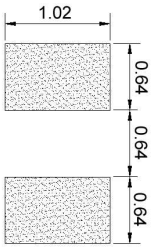
AWCM00161008 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test Freq. (MHz)	Q Min.	SRF (MHz)Min.	RDC (Ω)Max.	Irms (mA)Max.	Tolerance
AWCM001610082N2□00	2.2	100/250	16	6000	0.049	700	±0.1nH,±0.2nH,±0.5nH
AWCM001610083N6□00	3.6	100/250	25	6000	0.059	850	3,5
AWCM001610083N9□00	3.9	100/250	35	6000	0.059	850	3,5
AWCM001610084N3□00	4.3	100/250	35	6000	0.059	850	3,5
AWCM001610084N7□00	4.7	100/250	35	6000	0.059	850	3,5
AWCM001610085N6□00	5.6	100/250	35	6000	0.082	750	3,5
AWCM001610086N2□00	6.2	100/250	35	6000	0.082	750	3,5
AWCM001610086N8□00	6.8	100/250	35	6000	0.082	750	3,5
AWCM001610087N5□00	7.5	100/250	35	6000	0.082	750	3,5
AWCM001610088N2□00	8.2	100/250	35	6000	0.11	650	3,5
AWCM001610088N7□00	8.7	100/250	35	6000	0.11	650	3,5
AWCM001610089N1□00	9.1	100/250	35	6000	0.11	650	3,5
AWCM001610089N5□00	9.5	100/250	35	6000	0.11	650	3,5
AWCM0016100810N□00	10	100/250	35	6000	0.11	650	2,5
AWCM0016100811N□00	11	100/250	35	6000	0.11	650	2,5
AWCM0016100812N□00	12	100/250	35	6000	0.13	600	2,5
AWCM0016100813N□00	13	100/250	35	6000	0.13	600	2,5
AWCM0016100815N□00	15	100/250	40	6000	0.13	600	2,5
AWCM0016100816N□00	16	100/250	40	5500	0.16	550	2,5
AWCM0016100818N□00	18	100/250	40	5500	0.16	550	2,5
AWCM0016100820N□00	20	100/250	40	4900	0.16	550	2,5
AWCM0016100822N□00	22	100/250	40	4600	0.17	500	2,5
AWCM0016100824N□00	24	100/250	40	3800	0.21	500	2,5
AWCM0016100827N□00	27	100/250	40	3700	0.21	440	2,5
AWCM0016100830N□00	30	100/250	40	3300	0.23	420	2,5
AWCM0016100833N□00	33	100/250	40	3200	0.23	420	2,5
AWCM0016100836N□00	36	100/250	40	2900	0.26	400	2,5
AWCM0016100839N□00	39	100/250	40	2800	0.26	400	2,5
AWCM0016100843N□00	43	100/200	40	2700	0.29	380	2,5
AWCM0016100847N□00	47	100/200	38	2600	0.29	380	2,5
AWCM0016100851N□00	51	100/200	38	2500	0.33	370	2,5
AWCM0016100856N□00	56	100/200	38	2400	0.35	360	2,5

Note: When ordering, please specify tolerance code. Tolerance: B=±0.1 / C=±0.2 / D=±0.5 / G=±2% / H=±3% / J=±5%

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Irms for a 15℃ temperature rise from 25℃ ambient.
3. Measure Equipment:
   L & Q: Agilent E4991A+Agilent HP16197A
   SRF: Agilent HP8753D/Agilent HP8722ES
   RDC:Chroma 16502

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Pulse a YAGEO company

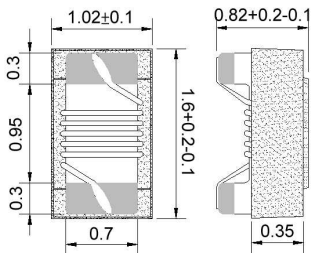
CHILISIN ELECTRONICS CORP.

Chip Inductor AWCM Series

Automotive
AEC-Q200

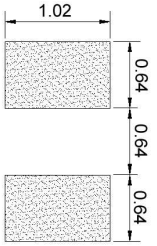
AWCM00161008 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test Freq. (MHz)	Q Min.	SRF (MHz)Min.	RDC (Ω)Max.	Irms (mA)Max.	Tolerance
AWCM0016100862N□00	62	100/200	38	2300	0.51	280	2,5
AWCM0016100868N□00	68	100/200	38	2200	0.38	340	2,5
AWCM0016100872N□00	72	100/150	34	2100	0.56	270	2,5
AWCM0016100875N□00	75	100/150	34	2050	0.56	270	2,5
AWCM0016100882N□00	82	100/150	34	2000	0.6	250	2,5
AWCM0016100891N□00	91	100/150	34	1900	0.64	230	2,5
AWCM00161008R10□00	100	100/150	34	1800	0.68	220	2,5
AWCM00161008R11□00	110	100/150	32	1700	1.2	200	2,5
AWCM00161008R12□00	120	100/150	32	1600	1.3	180	2,5
AWCM00161008R13□00	130	100/150	32	1450	1.4	170	2,5
AWCM00161008R15□00	150	100/150	32	1400	1.5	160	2,5
AWCM00161008R16□00	160	100/150	32	1350	2.1	150	2,5
AWCM00161008R18□00	180	100/100	25	1300	2.2	140	2,5
AWCM00161008R20□00	200	100/100	25	1250	2.4	120	2,5
AWCM00161008R22□00	220	100/100	25	1200	2.5	120	2,5
AWCM00161008R27□00	270	100/100	30	960	3.4	110	2,5
AWCM00161008R33□00	330	100/100	30	800	5.5	85	2,5
AWCM00161008R39□00	390	100/100	30	800	6.2	80	2,5
AWCM00161008R47□00	470	100/100	30	700	7	75	2,5

Note: When ordering, please specify tolerance code. Tolerance: B=±0.1 / C=±0.2 / D=±0.5 / G=±2% / H=±3% / J=±5%

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Irms for a 15℃ temperature rise from 25℃ ambient.
3. 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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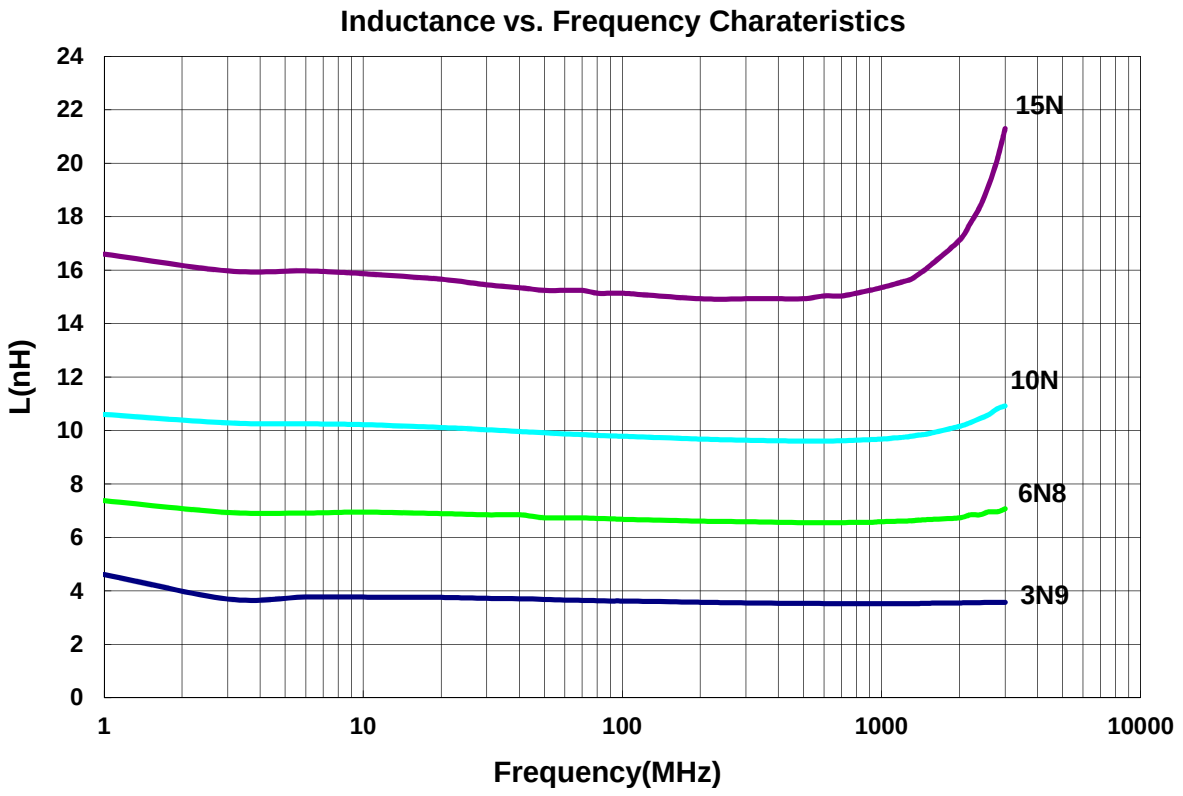
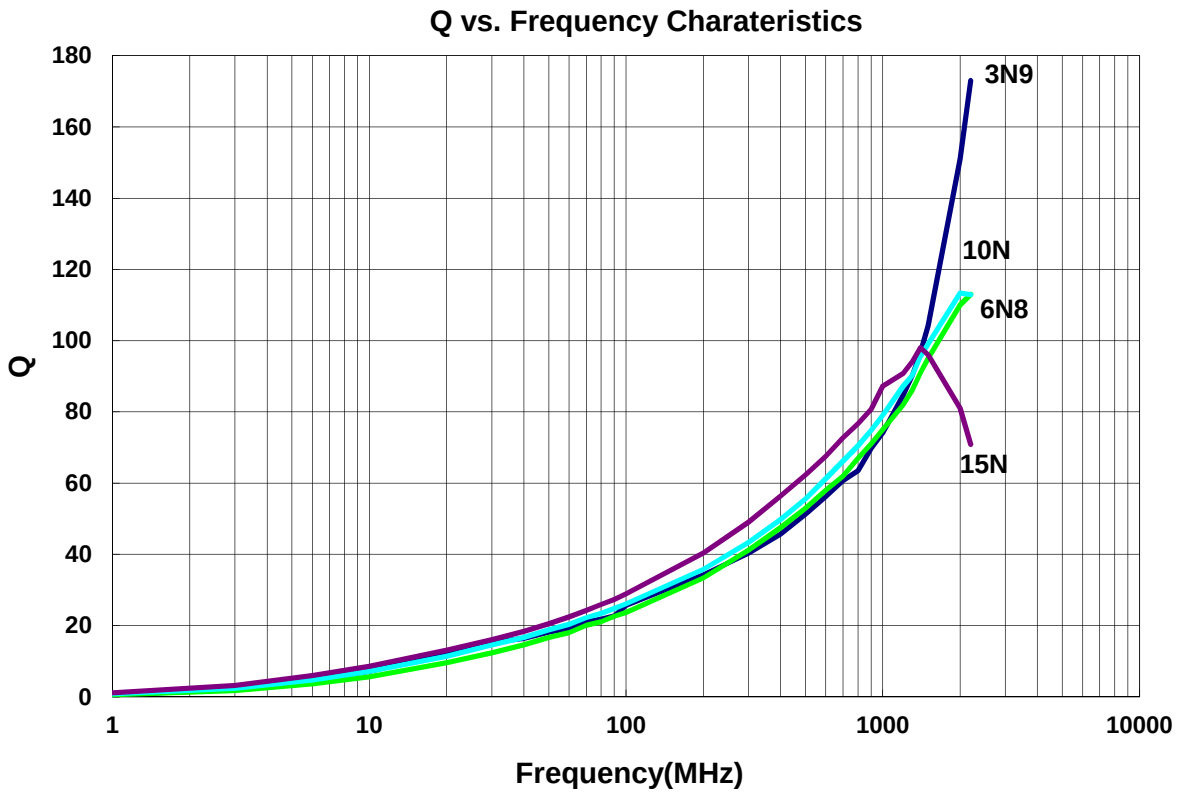
Chip Inductor AWCM Series

Automotive
AEC-Q200

AWCM00161008 Type

■ Characteristics Graph





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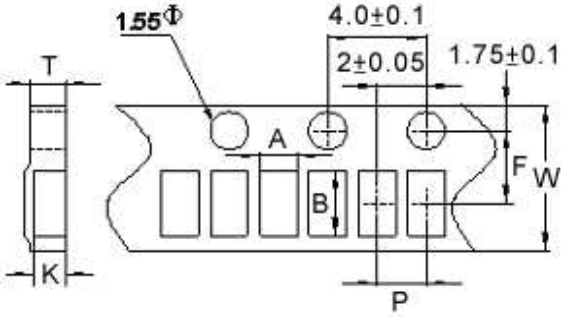
Packaging

Tape Dimensions

Figure 1



Tape Material

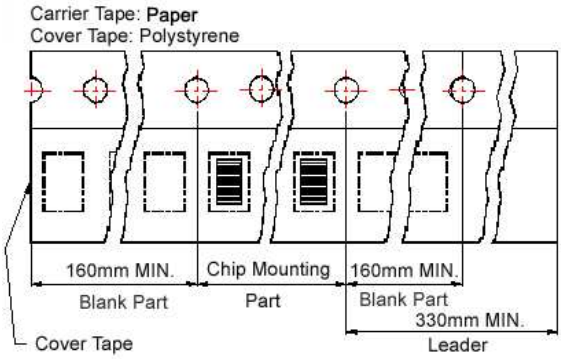
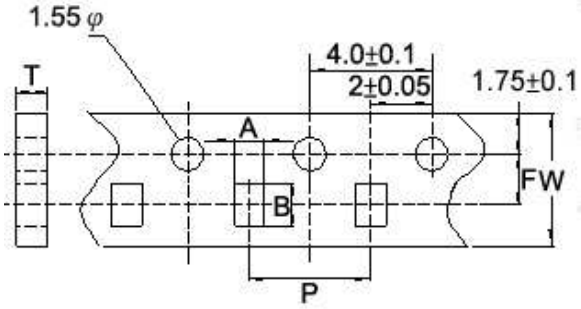
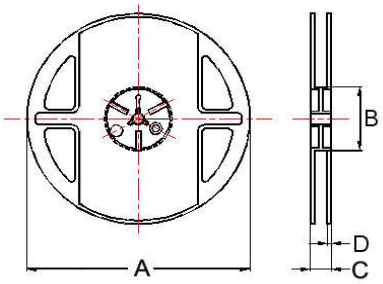


Figure 2



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
AWCM00120707	1	0.67	1.23	0.75	8	2	3.5	0.59	178±1	60±0.5	12±0.5	1.5±0.5	4000
AWCM00161008	2	1.20	1.8	1.05	8	4	3.5	-	178	60	12	1.5	4000

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Chip Inductor AWCS Series

Automotive
AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

RF Circuit | Unshield | Wire Wound | Ceramic | High Q

Part Numbering

A	WCS	00	161008	1R0	K	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (nH)	Tolerance	Internal Code

Dimensions Code	(mm)
120707	1.19x0.7x0.66
161008	1.6x1.02x0.82
231715	2.35x1.73x1.52
292821	2.92x2.79x2.1
372822	3.7x2.8x2.2

Inductance	(nH)
3N0	3
10N	10
R10	100
1R0	1000

Tolerance	
G	±2%
H	±3%
J	±5%
K	±10%

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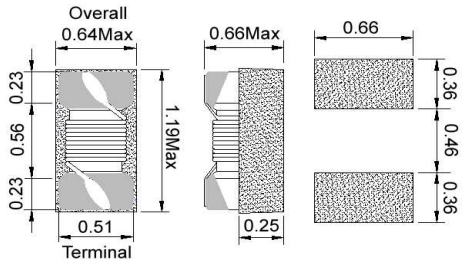
CHILISIN ELECTRONICS CORP.

Chip Inductor AWCS Series

Automotive
AEC-Q200

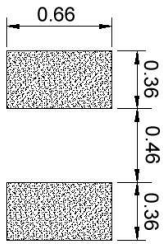
AWCS00120707 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test Freq. (MHz)	Q Min.	SRF (MHz)Min.	RDC (Ω)Max.	Irms (mA)Max.	Tolerance
AWCS001207071N0□00	1	250/250	16	12700	0.045	1360	10,5,±0.1nH
AWCS001207071N2□00	1.2	250/250	10	10400	0.14	640	10,5,±0.1nH
AWCS001207071N3□00	1.3	250/250	10	10400	0.14	640	10,±0.1nH
AWCS001207071N9□00	1.9	250/250	16	11300	0.07	1040	10,5,±0.1nH
AWCS001207072N0□00	2	250/250	16	11100	0.07	1040	10,5,±0.1nH
AWCS001207072N2□00	2.2	250/250	19	10800	0.07	960	10,5,±0.1nH
AWCS001207072N4□00	2.4	250/250	15	10500	0.068	790	10,5,±0.1nH
AWCS001207072N5□00	2.5	250/250	13	10400	0.15	640	10,5,±0.1nH
AWCS001207072N7□00	2.7	250/250	16	10400	0.12	640	10,5,±0.1nH
AWCS001207073N3□00	3.3	250/250	19	7000	0.066	840	10,5,3
AWCS001207073N6□00	3.6	250/250	19	6800	0.066	840	10,5,3
AWCS001207073N9□00	3.9	250/250	19	6000	0.066	840	10,5,3
AWCS001207074N3□00	4.3	250/250	18	6000	0.091	700	10,5,3
AWCS001207074N7□00	4.7	250/250	15	4770	0.13	640	10,5,3
AWCS001207075N1□00	5.1	250/250	20	4800	0.083	800	10,5,3
AWCS001207075N6□00	5.6	250/250	20	4800	0.083	760	10,5,3
AWCS001207075N8□00	5.8	250/250	20	4800	0.083	760	10,5,3
AWCS001207076N2□00	6.2	250/250	20	4800	0.083	760	10,5,3
AWCS001207076N8□00	6.8	250/250	20	4800	0.083	680	10,5,3
AWCS001207077N3□00	7.3	250/250	20	4800	0.12	680	10,5,3
AWCS001207077N5□00	7.5	250/250	22	4800	0.1	680	10,5,3
AWCS001207078N2□00	8.2	250/250	22	4400	0.1	680	10,5,3
AWCS001207078N7□00	8.7	250/250	18	4100	0.2	480	10,5,3
AWCS001207079N0□00	9	250/250	22	4160	0.1	680	10,5,3
AWCS001207079N1□00	9.1	250/250	22	4160	0.1	680	10,5,3
AWCS001207079N5□00	9.5	250/250	18	4000	0.2	480	10,5,3
AWCS0012070710N□00	10	250/250	21	3900	0.2	480	10,5,3,2
AWCS0012070711N□00	11	250/250	24	3680	0.12	640	10,5,3,2
AWCS0012070712N□00	12	250/250	24	3600	0.12	640	10,5,3,2
AWCS0012070713N□00	13	250/250	24	3450	0.21	440	10,5,3,2
AWCS0012070715N□00	15	250/250	24	3280	0.17	560	10,5,3,2
AWCS0012070716N□00	16	250/250	24	3100	0.22	560	10,5,3,2

Note: When ordering, please specify tolerance code. Tolerance: B=±0.1 / G=±2% / H=±3% / J=±5% / K=±10%

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Irms for a 15℃ temperature rise from 25℃ ambient.
3. Measure Equipment:
   L & Q: Agilent E4991A+Agilent HP16197A
   SRF: Agilent HP8753D/Agilent E4991A
   RDC: HP4287A

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Pulse a YAGEO company

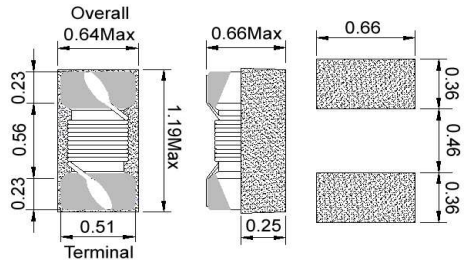
CHILISIN ELECTRONICS CORP.

Chip Inductor AWCS Series

Automotive
AEC-Q200

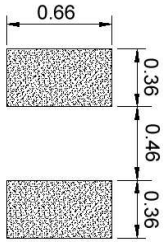
AWCS00120707 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test Freq. (MHz)	Q Min.	SRF (MHz)Min.	RDC (Ω)Max.	Irms (mA)Max.	Tolerance
AWCS0012070718N□00	18	250/250	25	3100	0.23	420	10,5,3,2
AWCS0012070719N□00	19	250/250	24	3040	0.2	480	10,5,3,2
AWCS0012070720N□00	20	250/250	25	3000	0.25	420	10,5,3,2
AWCS0012070722N□00	22	250/250	25	2800	0.3	400	10,5,3,2
AWCS0012070723N□00	23	250/250	22	2720	0.3	400	10,5,3,2
AWCS0012070724N□00	24	250/250	25	2700	0.3	400	10,5,3,2
AWCS0012070727N□00	27	250/250	24	2480	0.3	400	10,5,3,2
AWCS0012070730N□00	30	250/250	25	2350	0.35	400	10,5,3,2
AWCS0012070733N□00	33	250/250	24	2350	0.4	400	10,5,3,2
AWCS0012070736N□00	36	250/250	24	2320	0.44	320	10,5,3,2
AWCS0012070739N□00	39	250/250	25	2100	0.55	200	10,5,3,2
AWCS0012070740N□00	40	250/250	24	2240	0.65	320	10,5,3,2
AWCS0012070743N□00	43	250/250	25	2030	0.81	100	10,5,3,2
AWCS0012070747N□00	47	250/250	20	2100	0.83	150	10,5,3,2
AWCS0012070751N□00	51	250/250	25	1750	0.82	100	10,5,3,2
AWCS0012070756N□00	56	250/250	22	1760	0.97	100	10,5,3,2
AWCS0012070768N□00	68	250/250	22	1620	1.12	100	10,5,3,2
AWCS0012070772N□00	72	250/250	20	1260	2	30	10,5,3,2
AWCS0012070782N□00	82	250/250	20	1260	1.55	50	10,5,3,2
AWCS00120707R10□00	100	250/250	20	1160	2	30	10,5,3,2
AWCS00120707R18□00	180	100/100	8	700	2.7	50	10,5,3,2
AWCS00120707R22□00	220	100/100	8	700	4	50	10,5,3,2

Note: When ordering, please specify tolerance code. Tolerance: B=±0.1 / G=±2% / H=±3% / J=±5% / K=±10%

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Irms for a 15℃ temperature rise from 25℃ ambient.
3. Measure Equipment:
   L & Q: Agilent E4991A+Agilent HP16197A
   SRF: Agilent HP8753D/Agilent E4991A
   RDC: HP4287A
   Irms: HP4284A+HP42841A/HP4285A+HP42841A

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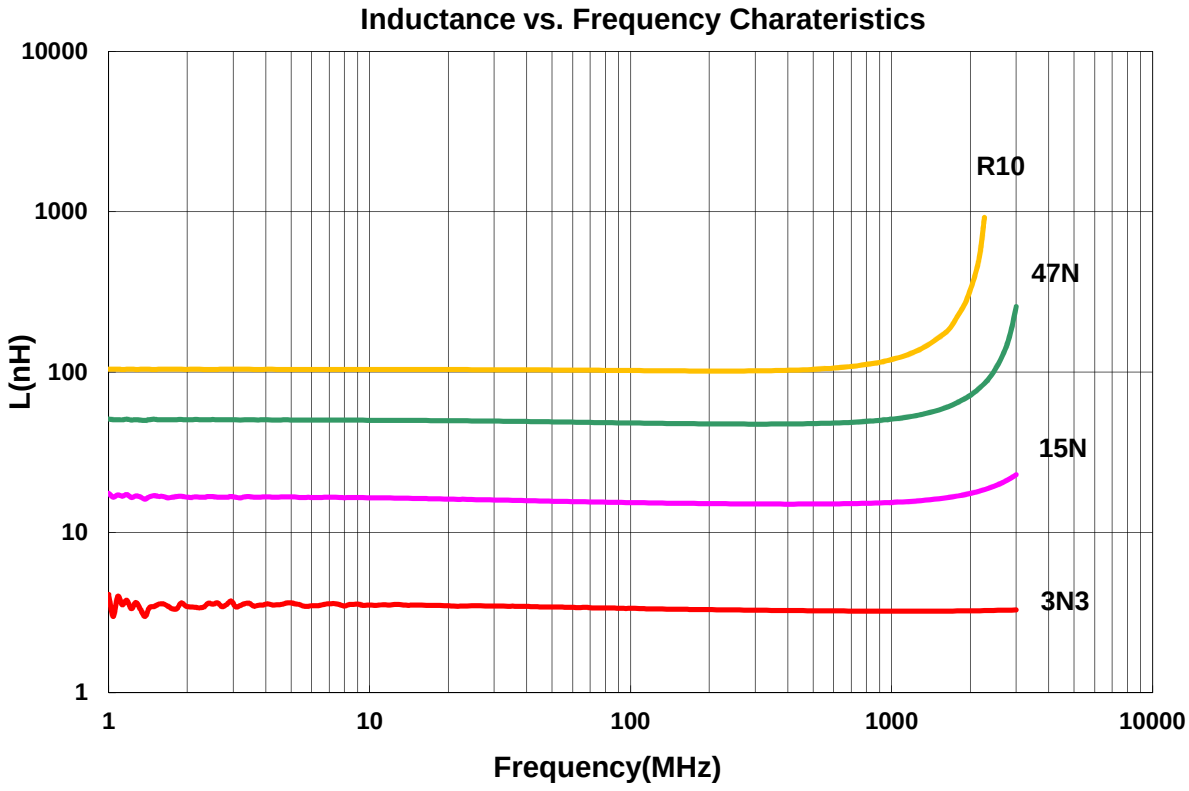
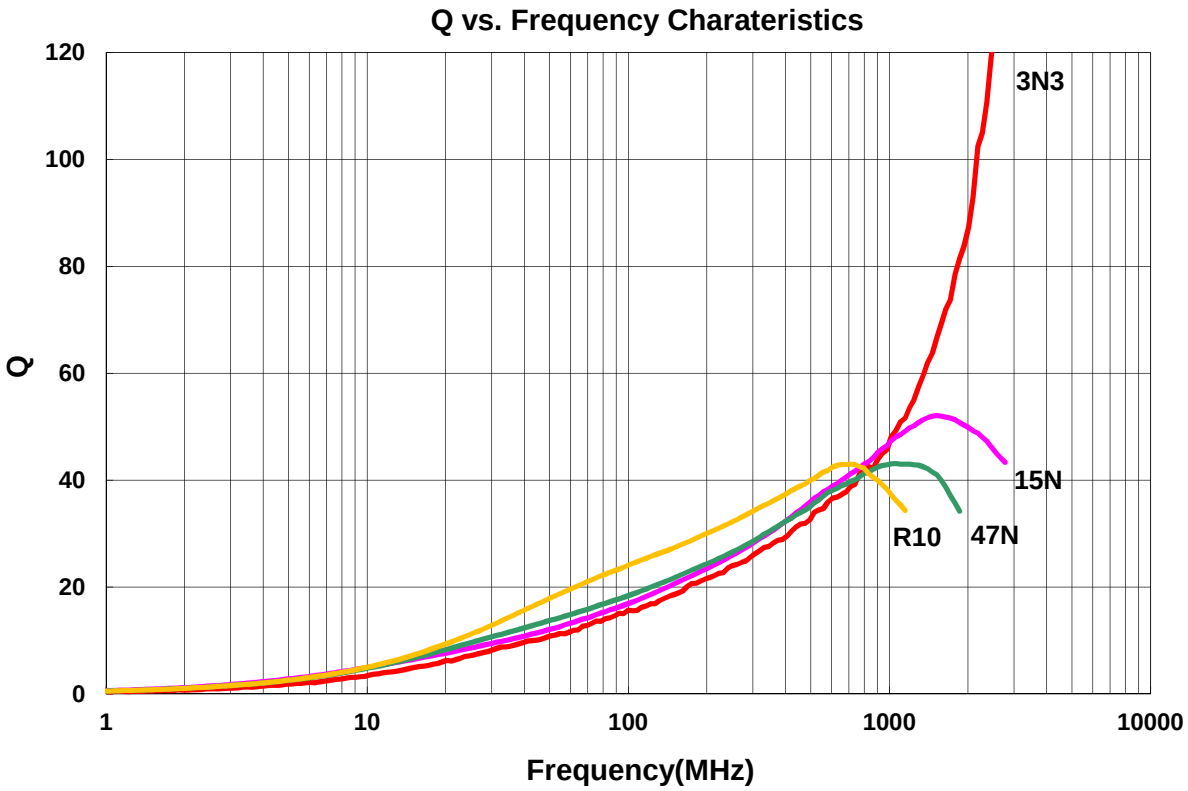
Chip Inductor AWCS Series

Automotive
AEC-Q200

AWCS00120707 Type

■ Characteristics Graph





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Pulse a YAGEO company

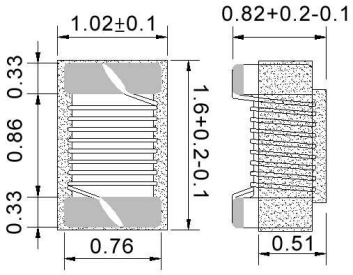
CHILISIN ELECTRONICS CORP.

Chip Inductor AWCS Series

Automotive
AEC-Q200

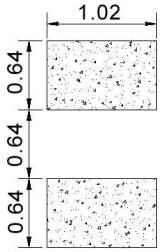
AWCS00161008 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test Freq. (MHz)	Q Min.	SRF (MHz)Min.	RDC (Ω)Max.	Irms (mA)Max.	Tolerance
AWCS001610081N6□00	1.6	250/250	24	12500	0.03	700	10,5,±0.1nH
AWCS001610081N8□00	1.8	250/250	16	12500	0.045	700	10,5,±0.1nH
AWCS001610082N2□00	2.2	250/250	13	12500	0.25	700	10,5,±0.1nH
AWCS001610083N3□00	3.3	250/250	35	5900	0.045	700	10,5,3,2
AWCS001610083N6□00	3.6	250/250	22	5900	0.063	700	10,5,3,2
AWCS001610083N9□00	3.9	250/250	22	6900	0.08	700	10,5,3,2
AWCS001610084N3□00	4.3	250/250	22	5900	0.063	700	10,5,3,2
AWCS001610084N7□00	4.7	250/250	20	5800	0.116	700	10,5,3,2
AWCS001610085N1□00	5.1	250/250	20	5700	0.14	700	10,5,3,2
AWCS001610085N6□00	5.6	250/250	20	5800	0.17	700	10,5,3,2
AWCS001610086N3□00	6.3	250/250	20	5700	0.14	700	10,5,3,2
AWCS001610086N8□00	6.8	250/250	27	5800	0.11	700	10,5,3,2
AWCS001610087N5□00	7.5	250/250	28	4800	0.106	700	10,5,3,2
AWCS001610088N2□00	8.2	250/250	28	4700	0.109	700	10,5,3,2
AWCS001610088N7□00	8.7	250/250	28	4600	0.109	700	10,5,3,2
AWCS001610089N1□00	9.1	250/250	28	4800	0.12	700	10,5,3,2
AWCS001610089N5□00	9.5	250/250	28	5400	0.135	700	10,5,3,2
AWCS0016100810N□00	10	250/250	31	4800	0.13	700	10,5,3,2
AWCS0016100811N□00	11	250/250	33	4000	0.086	700	10,5,3,2
AWCS0016100812N□00	12	250/250	35	4000	0.13	700	10,5,3,2
AWCS0016100813N□00	13	250/250	30	4000	0.16	700	10,5,3,2
AWCS0016100815N□00	15	250/250	35	4000	0.17	700	10,5,3,2
AWCS0016100816N□00	16	250/250	34	3300	0.104	700	10,5,3,2
AWCS0016100818N□00	18	250/250	35	3100	0.17	700	10,5,3,2
AWCS0016100820N□00	20	250/250	38	3000	0.19	700	10,5,3,2
AWCS0016100822N□00	22	250/250	38	3000	0.19	700	10,5,3,2
AWCS0016100823N□00	23	250/250	38	2850	0.19	700	10,5,3,2
AWCS0016100824N□00	24	250/250	37	2650	0.135	700	10,5,3,2
AWCS0016100827N□00	27	250/250	40	2800	0.22	600	10,5,3,2
AWCS0016100830N□00	30	250/250	37	2250	0.144	600	10,5,3,2
AWCS0016100833N□00	33	250/250	40	2300	0.22	600	10,5,3,2
AWCS0016100836N□00	36	250/250	38	2080	0.25	600	10,5,3,2

Note: When ordering, please specify tolerance code. Tolerance: B=±0.1 / G=±2% / H=±3% / J=±5% / K=±10%

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Irms for a 15℃ temperature rise from 25℃ ambient.
3. Measure Equipment:
   L & Q: Agilent E4991A+Agilent HP16197A
   SRF: Agilent HP8753D/Agilent E4991A
   RDC: Chroma 16502

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

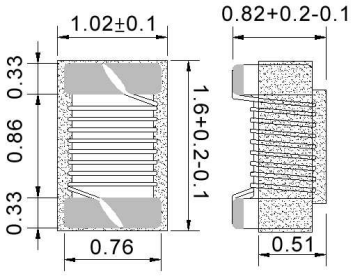
CHILISIN ELECTRONICS CORP.

Chip Inductor AWCS Series

Automotive
AEC-Q200

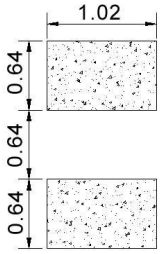
AWCS00161008 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test Freq. (MHz)	Q Min.	SRF (MHz)Min.	RDC (Ω)Max.	Irms (mA)Max.	Tolerance
AWCS0016100839N□00	39	250/250	40	2200	0.25	600	10,5,3,2
AWCS0016100843N□00	43	250/250	39	2000	0.28	600	10,5,3,2
AWCS0016100847N□00	47	200/200	38	2000	0.28	600	10,5,3,2
AWCS0016100851N□00	51	200/200	38	1900	0.31	600	10,5,3,2
AWCS0016100856N□00	56	200/200	38	1900	0.31	600	10,5,3,2
AWCS0016100868N□00	68	200/200	37	1700	0.34	600	10,5,3,2
AWCS0016100872N□00	72	150/150	34	1700	0.49	400	10,5,3,2
AWCS0016100882N□00	82	150/150	34	1700	0.54	400	10,5,3,2
AWCS0016100891N□00	91	150/150	34	1400	0.58	400	10,5,3,2
AWCS00161008R10□00	100	150/150	34	1400	0.58	400	10,5,3,2
AWCS00161008R11□00	110	150/150	32	1350	0.61	300	10,5,3,2
AWCS00161008R12□00	120	150/150	32	1300	0.75	300	10,5,3,2
AWCS00161008R15□00	150	150/150	28	990	0.92	280	10,5,3,2
AWCS00161008R16□00	160	100/100	25	990	1.25	240	10,5,3,2
AWCS00161008R18□00	180	100/100	25	990	1.25	240	10,5,3,2
AWCS00161008R20□00	200	100/100	25	900	2.1	200	10,5,3,2
AWCS00161008R21□00	210	100/100	27	895	2.06	200	10,5,3,2
AWCS00161008R22□00	220	100/100	25	900	2.1	200	10,5,3,2
AWCS00161008R24□00	240	100/100	25	900	2.2	200	10,5,3,2
AWCS00161008R25□00	250	100/100	25	822	3.55	120	10,5,3,2
AWCS00161008R27□00	270	100/100	24	900	2.8	170	10,5,3,2
AWCS00161008R33□00	330	100/100	25	900	3.89	100	10,5,3,2
AWCS00161008R39□00	390	100/100	25	900	4.35	100	10,5,3,2
AWCS00161008R47□00	470	100/100	25	500	4.5	100	10,5,3,2
AWCS00161008R56□00	560	100/100	23	460	4.7	90	10,5,3,2

Note: When ordering, please specify tolerance code. Tolerance: B=±0.1 / G=±2% / H=±3% / J=±5% / K=±10%

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Irms for a 15℃ temperature rise from 25℃ ambient.
3. 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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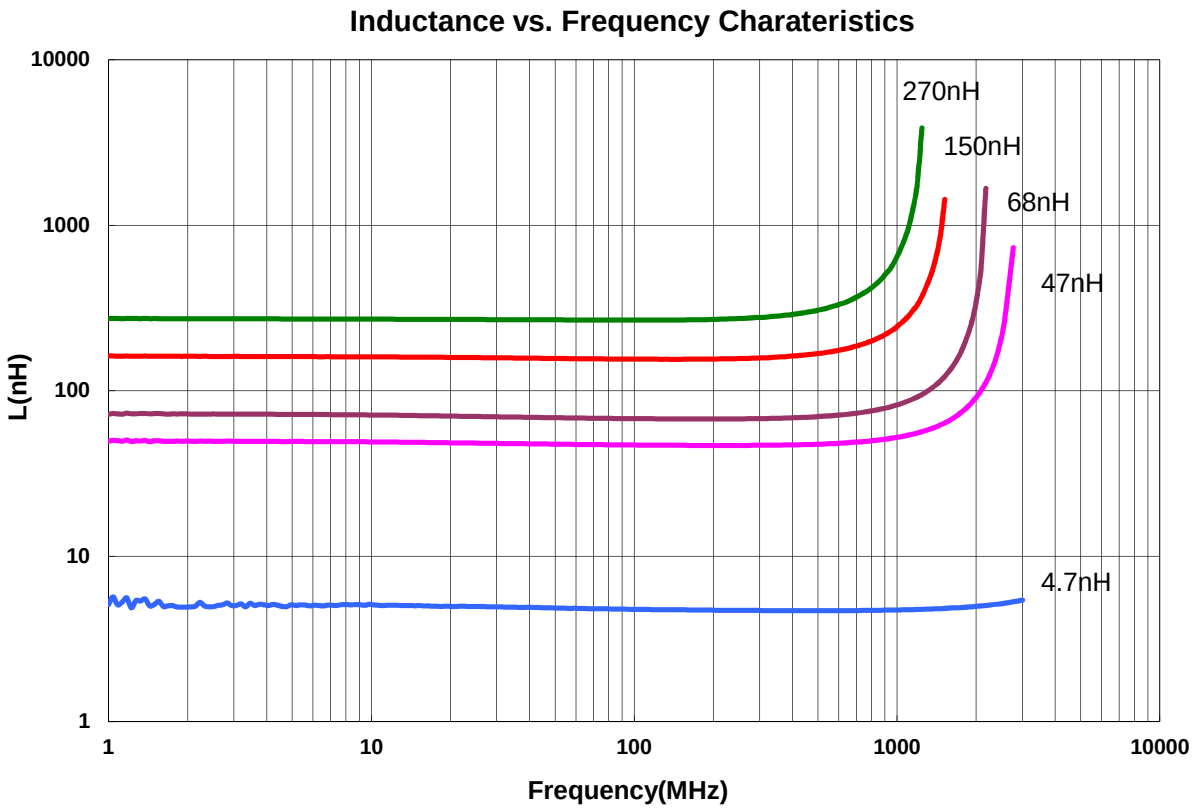
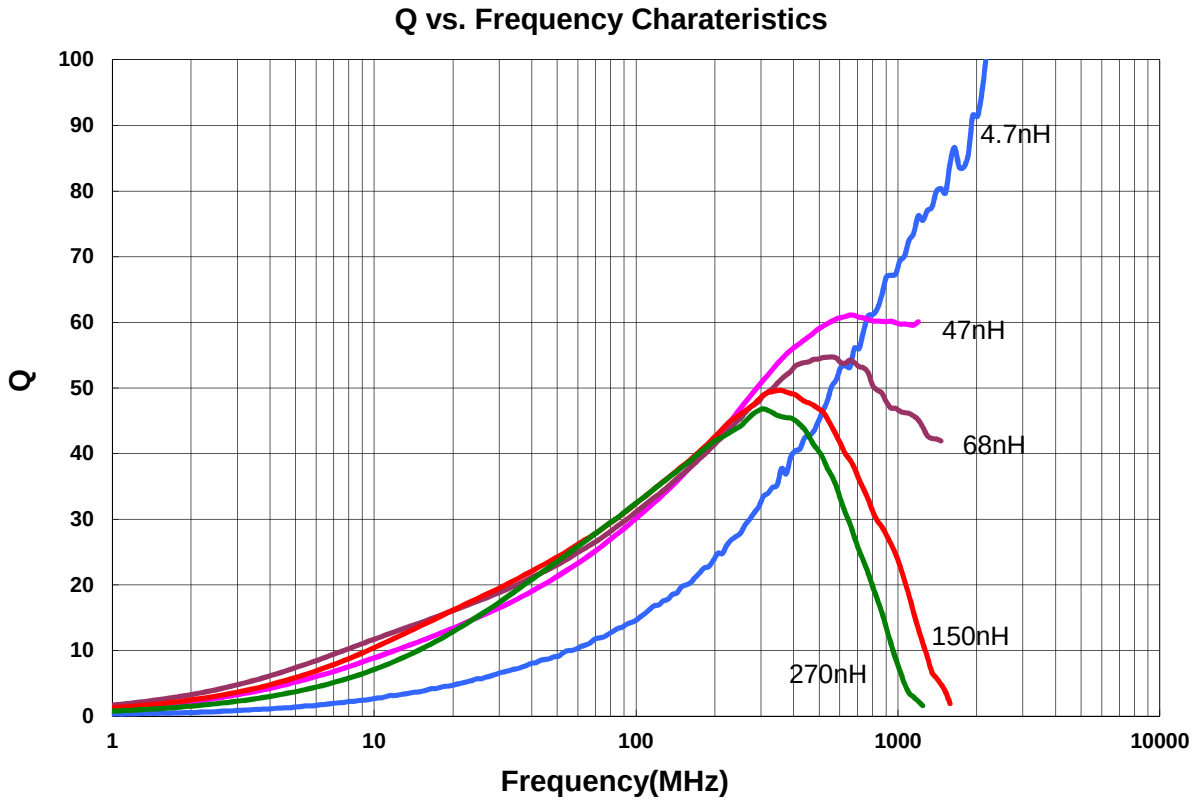
Chip Inductor AWCS Series

Automotive
AEC-Q200

AWCS00161008 Type

■ Characteristics Graph





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Pulse a YAGEO company

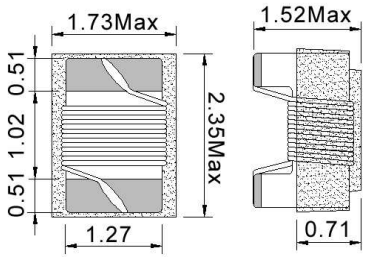
CHILISIN ELECTRONICS CORP.

Chip Inductor AWCS Series

Automotive
AEC-Q200

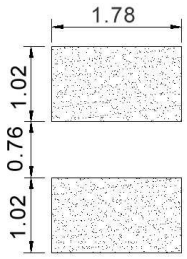
AWCS00231715 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test Freq. (MHz)	Q Min.	SRF (MHz)Min.	RDC (Ω)Max.	Irms (mA)Max.	Tolerance
AWCS002317152N7□00	2.7	250/1500	50	7900	0.06	800	10,5,2
AWCS002317152N8□00	2.8	250/1500	80	7900	0.06	800	10,5,2
AWCS002317153N0□00	3.0	250/1500	65	7900	0.06	800	10,5,2
AWCS002317153N3□00	3.3	250/1500	50	7900	0.08	600	10,5,2
AWCS002317155N6□00	5.6	250/1000	65	5500	0.08	600	10,5,2
AWCS002317156N8□00	6.8	250/1000	50	5500	0.11	600	10,5,2
AWCS002317157N5□00	7.5	250/1000	50	4500	0.14	600	10,5,2
AWCS002317158N2□00	8.2	250/1000	50	4700	0.12	600	10,5,2
AWCS0023171510N□00	10	250/500	60	4200	0.10	600	10,5,2
AWCS0023171512N□00	12	250/500	50	4000	0.15	600	10,5,2
AWCS0023171515N□00	15	250/500	50	3400	0.17	600	10,5,2
AWCS0023171518N□00	18	250/500	50	3300	0.20	600	10,5,2
AWCS0023171522N□00	22	250/500	55	2600	0.22	500	10,5,2
AWCS0023171524N□00	24	250/500	50	2000	0.22	500	10,5,2
AWCS0023171527N□00	27	250/500	55	2500	0.25	500	10,5,2
AWCS0023171533N□00	33	250/500	60	2050	0.27	500	10,5,2
AWCS0023171536N□00	36	250/500	55	1700	0.27	500	10,5,2
AWCS0023171539N□00	39	250/500	60	2000	0.29	500	10,5,2
AWCS0023171543N□00	43	200/500	60	1650	0.34	500	10,5,2
AWCS0023171547N□00	47	200/500	60	1650	0.31	500	10,5,2
AWCS0023171556N□00	56	200/500	60	1550	0.34	500	10,5,2
AWCS0023171568N□00	68	200/500	60	1450	0.38	500	10,5,2
AWCS0023171582N□00	82	150/500	65	1300	0.42	400	10,5,2
AWCS0023171591N□00	91	150/500	65	1200	0.48	400	10,5,2
AWCS00231715R10□00	100	150/500	65	1200	0.46	400	10,5,2
AWCS00231715R11□00	110	150/250	50	1000	0.48	400	10,5,2
AWCS00231715R12□00	120	150/250	50	1100	0.51	400	10,5,2
AWCS00231715R15□00	150	100/250	50	920	0.56	400	10,5,2
AWCS00231715R18□00	180	100/250	50	870	0.64	400	10,5,2
AWCS00231715R20□00	200	100/250	50	860	0.68	400	10,5,2

Note: When ordering, please specify tolerance code. Tolerance: G=±2% / J=±5% / K=±10%

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Irms for a 15℃ temperature rise from 25℃ ambient.
3. 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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Pulse a YAGEO company

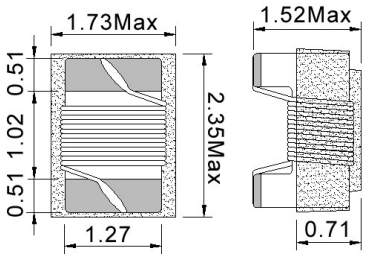
CHILISIN ELECTRONICS CORP.

Chip Inductor AWCS Series

Automotive
AEC-Q200

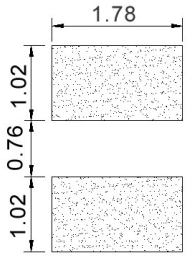
AWCS00231715 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test Freq. (MHz)	Q Min.	SRF (MHz)Min.	RDC (Ω)Max.	Irms (mA)Max.	Tolerance
AWCS00231715R22□00	220	100/250	50	850	0.70	400	10,5,2
AWCS00231715R24□00	240	100/250	44	690	1.00	350	10,5,2
AWCS00231715R25□00	250	100/250	45	660	1.2	350	10,5,2
AWCS00231715R27□00	270	100/250	48	650	1	350	10,5,2
AWCS00231715R30□00	300	100/250	25	450	1.4	310	10,5,2
AWCS00231715R33□00	330	100/250	48	600	1.4	310	10,5,2
AWCS00231715R39□00	390	100/250	48	560	1.5	290	10,5,2
AWCS00231715R47□00	470	50/100	33	450	1.76	250	10,5,2
AWCS00231715R51□00	510	25/50	23	340	1.9	230	10,5,2
AWCS00231715R56□00	560	25/50	23	340	1.9	230	10,5,2
AWCS00231715R62□00	620	25/50	23	220	2.2	210	10,5,2
AWCS00231715R68□00	680	25/50	23	188	2.2	190	10,5,2
AWCS00231715R82□00	820	25/50	23	215	2.35	180	10,5,2
AWCS002317151R0□00	1000	25/50	20	100	2.5	170	10,5,2
AWCS002317151R2□00	1200	7.9/25	18	100	2.5	170	10,5
AWCS002317151R8□00	1800	7.9/7.9	16	80	2.5	170	10,5,2
AWCS002317152R2□00	2200	7.9/7.9	16	65	3.9	140	10,5,2
AWCS002317153R3□00	3300	7.9/7.9	15	40	4.4	90	10,5,2
AWCS002317154R7□00	4700	7.9/7.9	15	40	6.4	90	10,5,2

Note: When ordering, please specify tolerance code. Tolerance: G=±2% / J=±5% / K=±10%

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Irms for a 15℃ temperature rise from 25℃ ambient.
3. 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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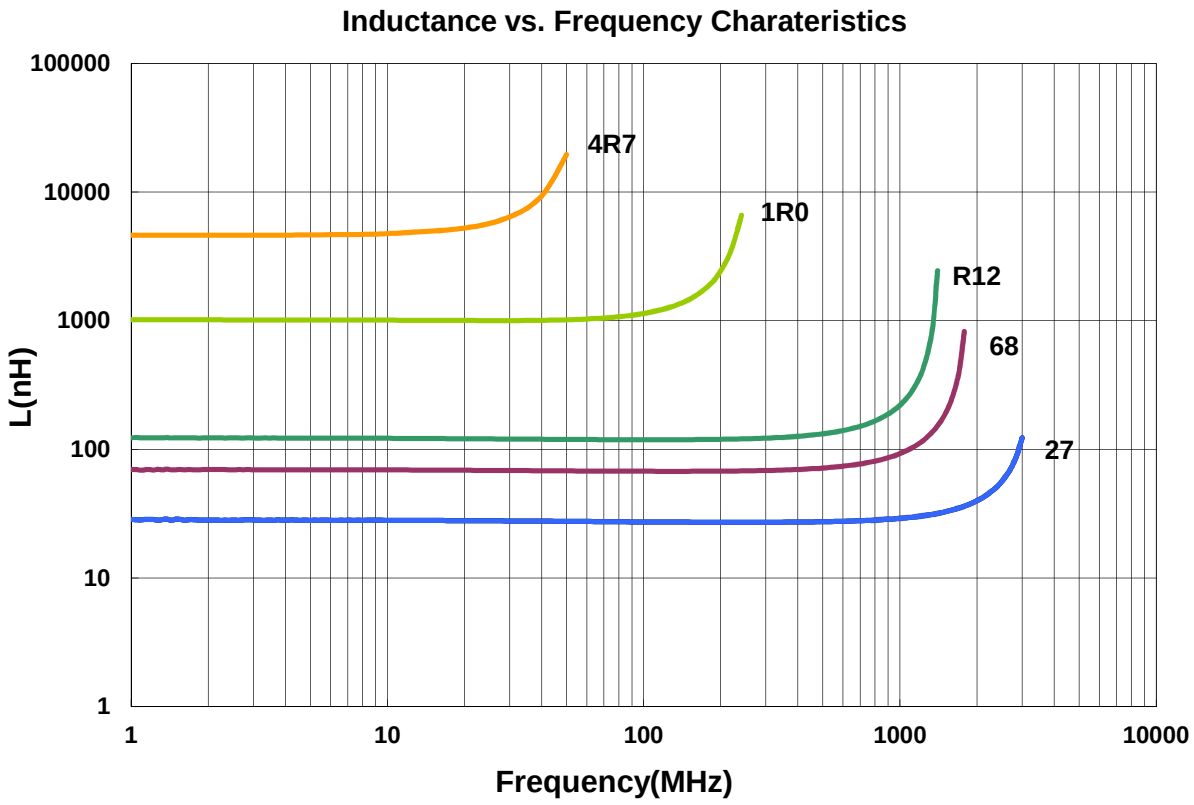
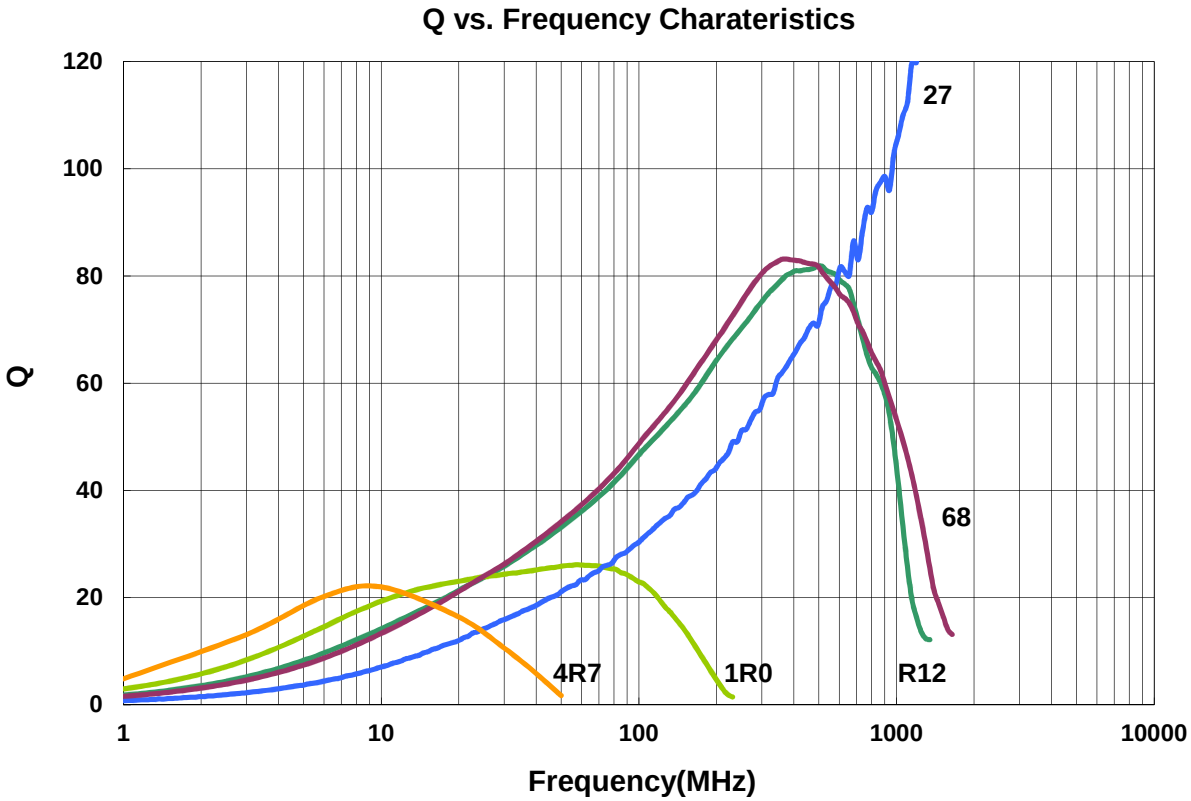
Chip Inductor AWCS Series

Automotive
AEC-Q200

AWCS00231715 Type

■ Characteristics Graph





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Pulse a YAGEO company

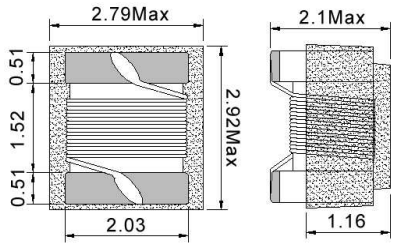
CHILISIN ELECTRONICS CORP.

Chip Inductor AWCS Series

Automotive
AEC-Q200

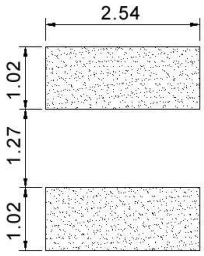
AWCS00292821 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test Freq. (MHz)	Q Min.	SRF (MHz)Min.	RDC (Ω)Max.	Irms (mA)Max.	Tolerance
AWCS00292821-10N□00	10	50/500	50	4100	0.08	1000	10,5,2
AWCS00292821-12N□00	12	50/500	50	3300	0.09	1000	10,5,2
AWCS00292821-15N□00	15	50/500	50	2500	0.1	1000	10,5,2
AWCS00292821-18N□00	18	50/350	50	2500	0.11	1000	10,5,2
AWCS00292821-22N□00	22	50/350	55	2400	0.12	1000	10,5,2
AWCS00292821-27N□00	27	50/350	55	1600	0.13	1000	10,5,2
AWCS00292821-33N□00	33	50/350	60	1600	0.14	1000	10,5,2
AWCS00292821-39N□00	39	50/350	60	1500	0.15	1000	10,5,2
AWCS00292821-47N□00	47	50/350	65	1500	0.16	1000	10,5,2
AWCS00292821-56N□00	56	50/350	65	1300	0.18	1000	10,5,2
AWCS00292821-68N□00	68	50/350	65	1300	0.2	1000	10,5,2
AWCS00292821-82N□00	82	50/350	60	1000	0.22	1000	10,5,2
AWCS00292821-R10□00	100	25/350	60	1000	0.56	650	10,5,2
AWCS00292821-R12□00	120	25/350	60	950	0.63	650	10,5,2
AWCS00292821-R15□00	150	25/100	45	850	0.7	580	10,5,2
AWCS00292821-R18□00	180	25/100	45	750	0.77	620	10,5,3,2
AWCS00292821-R20□00	200	25/100	45	700	0.84	500	10,5,2
AWCS00292821-R22□00	220	25/100	45	700	0.84	500	10,5,2
AWCS00292821-R27□00	270	25/100	45	600	0.91	500	10,5,2
AWCS00292821-R33□00	330	25/100	45	570	1.05	450	10,5,2
AWCS00292821-R39□00	390	25/100	45	500	1.12	470	10,5,2
AWCS00292821-R47□00	470	25/100	45	450	1.19	470	10,5,2
AWCS00292821-R56□00	560	25/100	45	415	1.33	400	10,5,2
AWCS00292821-R62□00	620	25/100	45	375	1.4	300	10,5,2
AWCS00292821-R68□00	680	25/100	45	375	1.47	400	10,5,2
AWCS00292821-R75□00	750	25/100	45	360	1.54	360	10,5,2
AWCS00292821-R82□00	820	25/100	45	350	1.61	400	10,5,2
AWCS00292821-R91□00	910	25/50	35	320	1.68	380	10,5,2

Note: When ordering, please specify tolerance code. Tolerance: G=±2% / H=±3% / J=±5% / K=±10%

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Irms for a 15℃ temperature rise from 25℃ ambient.
3. 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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Pulse a YAGEO company

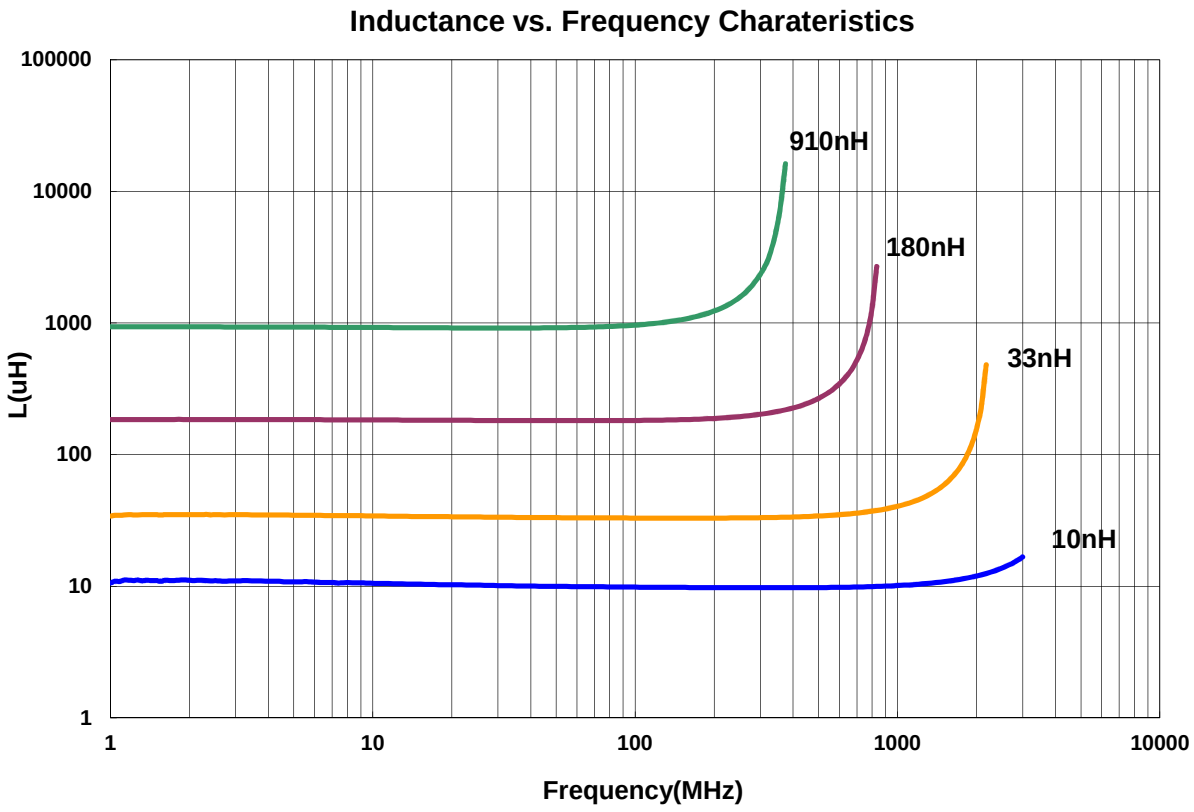
CHILISIN ELECTRONICS CORP.

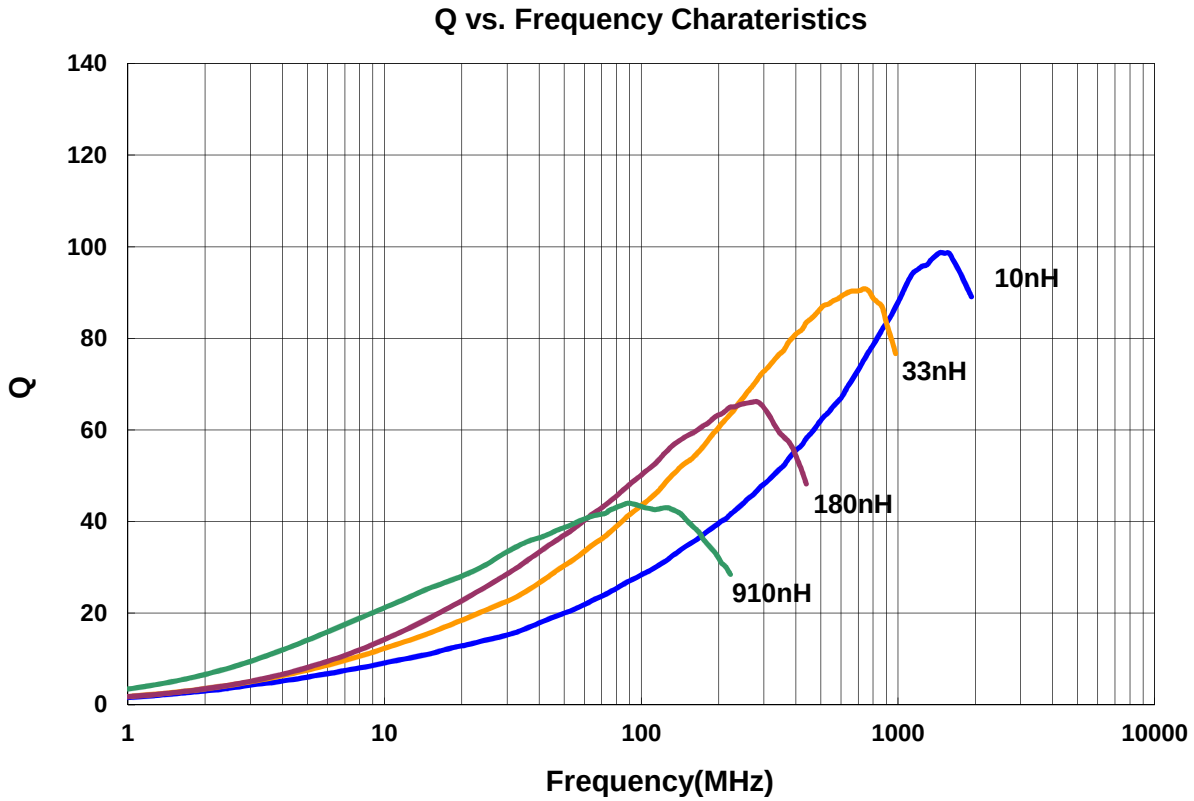
Chip Inductor AWCS Series

Automotive
AEC-Q200

AWCS00292821 Type

■ Characteristics Graph





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Pulse a YAGEO company

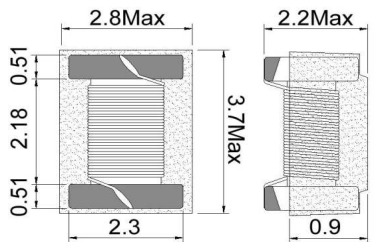
CHILISIN ELECTRONICS CORP.

Chip Inductor AWCS Series

Automotive
AEC-Q200

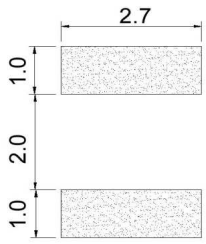
AWCS00372822 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test Freq. (MHz)	Q Min.	SRF (MHz)Min.	RDC (Ω)Max.	Irms (mA)Max.	Tolerance
AWCS003728223N3□00	3.3	100/300	30	6200	0.05	1000	10,5
AWCS003728226N8□00	6.8	100/300	30	5500	0.07	1000	10,5
AWCS0037282210N□00	10	100/300	40	4000	0.08	1000	10,5,2
AWCS0037282212N□00	12	100/300	40	3200	0.08	1000	10,5,2
AWCS0037282215N□00	15	100/300	40	3200	0.1	1000	10,5,2
AWCS0037282218N□00	18	100/300	50	2800	0.1	1000	10,5,2
AWCS0037282222N□00	22	100/300	50	2200	0.1	1000	10,5,2
AWCS0037282227N□00	27	100/300	50	1800	0.11	1000	10,5,2
AWCS0037282233N□00	33	100/300	55	1800	0.11	1000	10,5,2
AWCS0037282239N□00	39	100/300	55	1800	0.12	1000	10,5,2
AWCS0037282247N□00	47	100/300	55	1500	0.13	1000	10,5,2
AWCS0037282256N□00	56	100/300	55	1450	0.14	1000	10,5,2
AWCS0037282268N□00	68	100/300	55	1200	0.26	900	10,5,2
AWCS0037282282N□00	82	100/300	55	1200	0.21	900	10,5,2
AWCS00372822R10□00	100	100/300	55	1100	0.26	850	10,5,2
AWCS00372822R12□00	120	100/300	60	1100	0.26	800	10,5,2
AWCS00372822R15□00	150	100/300	60	950	0.31	750	10,5,2
AWCS00372822R18□00	180	50/300	60	900	0.43	700	10,5,2
AWCS00372822R22□00	220	50/300	60	760	0.5	670	10,5,2
AWCS00372822R27□00	270	50/300	55	730	0.56	630	10,5,2
AWCS00372822R33□00	330	50/150	45	650	0.62	590	10,5,2
AWCS00372822R39□00	390	50/150	45	600	0.75	530	10,5,2
AWCS00372822R47□00	470	50/150	45	550	1.3	490	10,5,2
AWCS00372822R56□00	560	35/150	45	470	1.34	460	10,5,2
AWCS00372822R62□00	620	35/150	45	470	1.58	460	10,5,2
AWCS00372822R68□00	680	35/150	45	450	1.58	430	10,5,2
AWCS00372822R75□00	750	35/150	45	440	2.25	320	10,5,2
AWCS00372822R82□00	820	35/150	45	420	1.82	400	10,5,2
AWCS00372822R91□00	910	35/150	45	410	2.95	310	10,5,2
AWCS003728221R0□00	1000	35/150	45	400	2.8	320	10,5,2
AWCS003728221R2□00	1200	35/150	45	380	3.2	300	10,5,2

Note: When ordering, please specify tolerance code. Tolerance: G=±2% / J=±5% / K=±10%

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Irms for a 15℃ temperature rise from 25℃ ambient.
3. Measure Equipment:
   L & Q: Agilent E4991A/HP4286A/HP4287A
   SRF: Agilent HP8753D/Agilent E4991A
   RDC: Chroma 16502
   Irms: HP4284A+HP42841A/HP4285A+HP42841A

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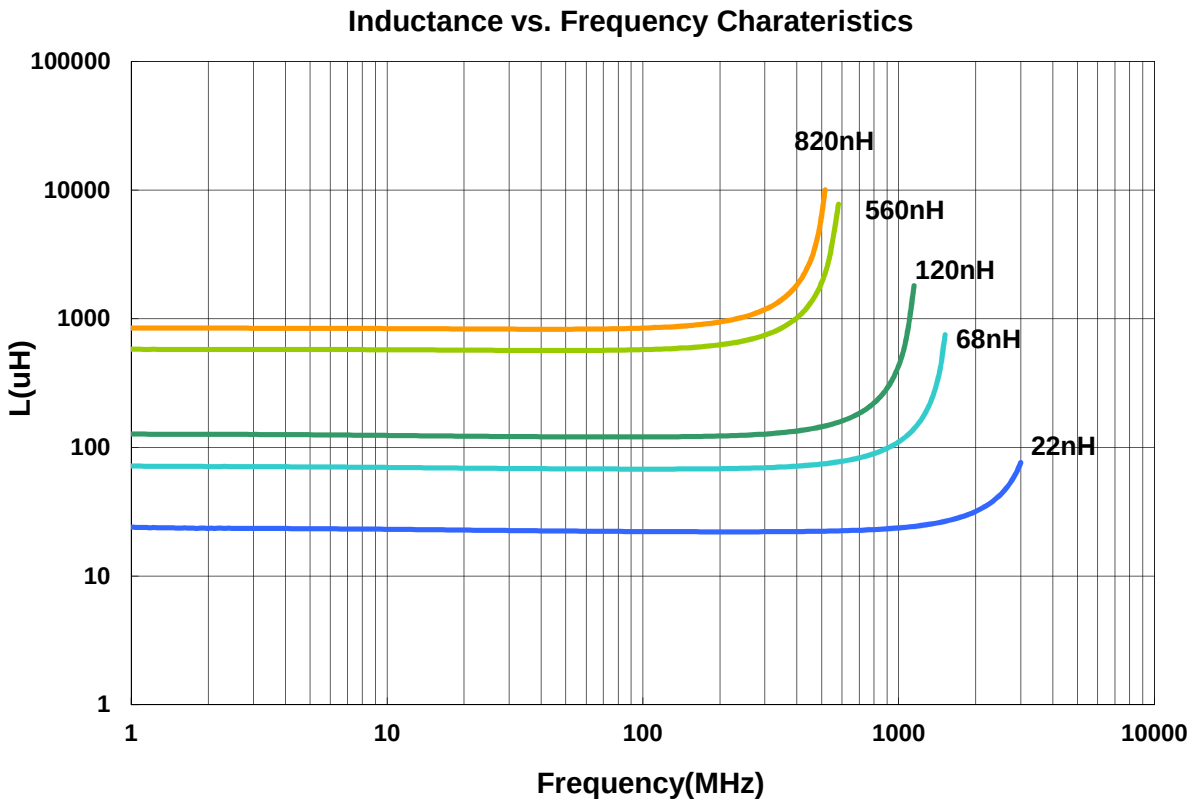
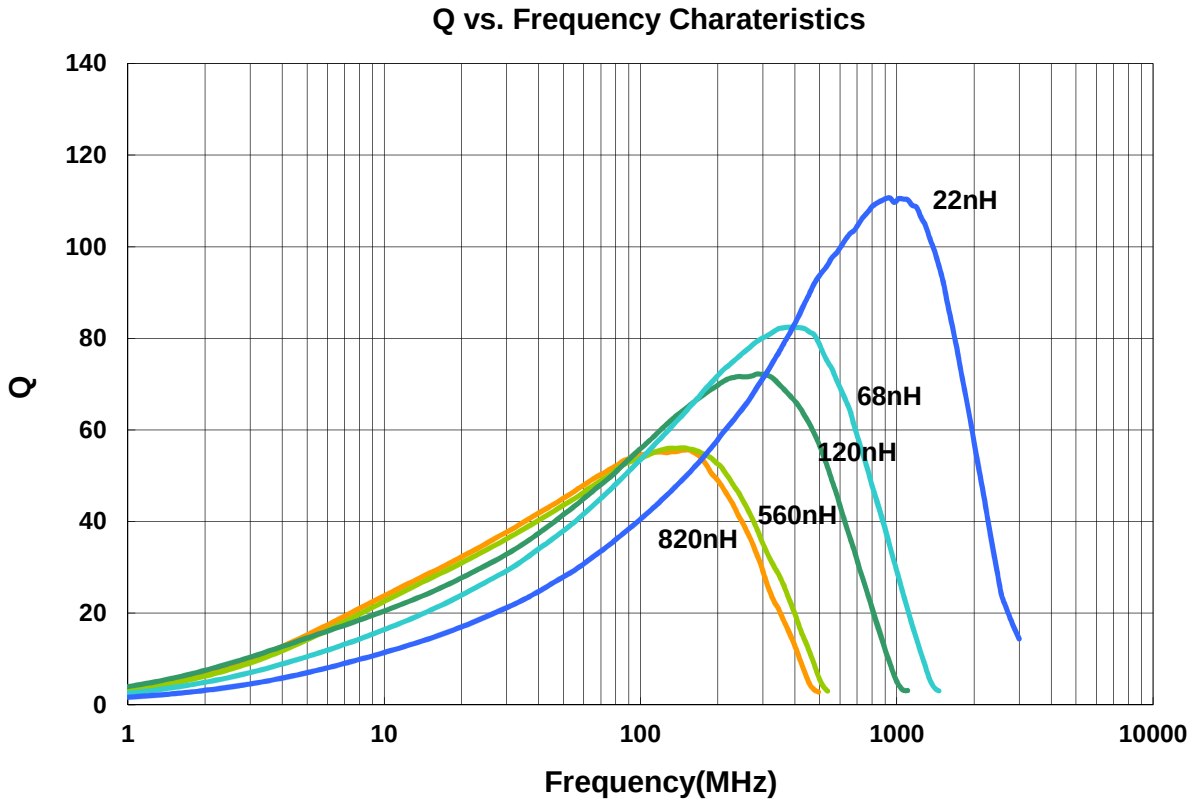
Chip Inductor AWCS Series

Automotive
AEC-Q200

AWCS00372822 Type

■ Characteristics Graph





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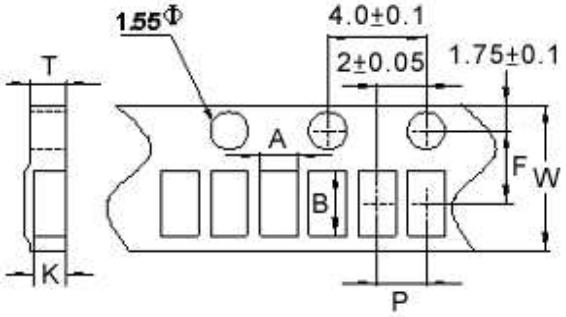
Chip Inductor AWCS Series

Automotive
AEC-Q200

Packaging

Tape Dimensions

Figure 1



Tape Material

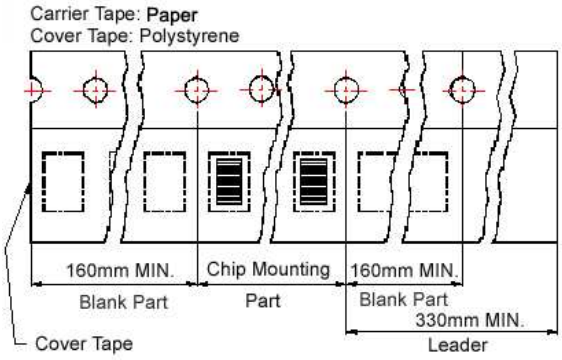
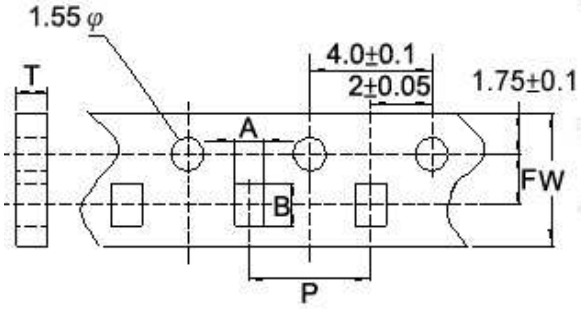


Figure 2



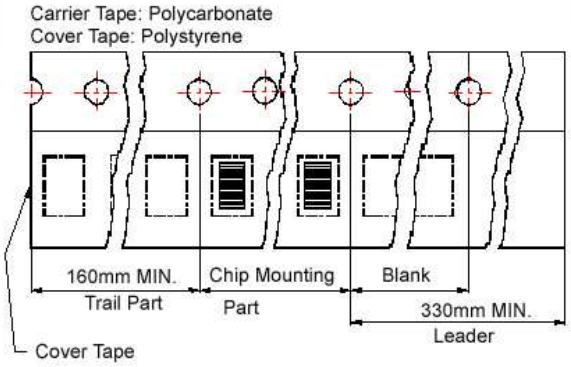
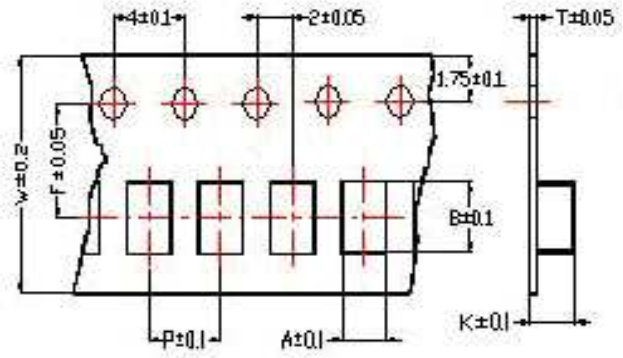
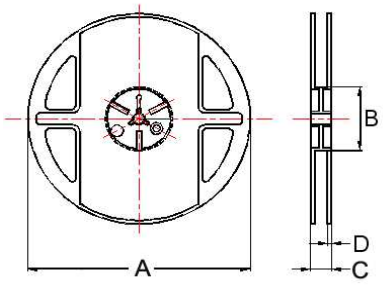


Figure 3

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
AWCS00120707	1	0.67	1.2	0.75	8	2	3.5	0.59	178	60	12	1.5	4000
AWCS00161008	2	1.25	1.90	1.05	8	4	3.5	-	178	60	12	1.5	4000
AWCS00231715	3	1.85	2.45	0.23	8	4	3.5	1.7	178	60	12	1.5	2000
AWCS00292821	3	2.80	2.95	0.23	8	4	3.5	2.2	178	60	12	1.5	2000
AWCS00372822	3	2.85	3.58	0.26	12	4	5.5	2.55	178	60	16	1.4	2000

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Chip Inductor AWHP Series

Automotive
AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

RF Circuit | Unshield | Wire Wound | Ceramic | High Q

■ Part Numbering

A	WHP	00	110706	10N	H	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (nH)	Tolerance	Internal Code
			110706 1.1x0.7x0.6	3N3 3.3	B ±0.1nH	
			161008 1.6x1x0.82	10N 10	C ±0.2nH	
				R10 100	G ±2%	
					H ±3%	
					J ±5%	

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Pulse a YAGEO company

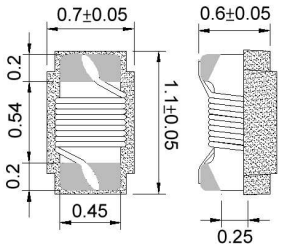
CHILISIN ELECTRONICS CORP.

Chip Inductor AWHP Series

Automotive AEC-Q200

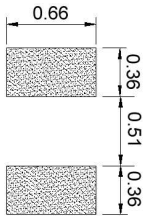
AWHP00110706 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test Freq. (MHz)	Q Typ.	SRF (MHz)Typ.	RDC (Ω)Max.	Irms (mA)Max.	Tolerance
AWHP001107061N0□00	1	250/250	18	16000	0.03	2300	0.1nH,5
AWHP001107062N0□00	2	250/250	18	15200	0.038	2100	0.2nH,5
AWHP001107062N2□00	2.2	250/250	25	15100	0.045	2100	0.2nH,5
AWHP001107062N4□00	2.4	250/250	25	14000	0.045	2000	0.2nH,5
AWHP001107062N7□00	2.7	250/250	20	13000	0.09	1500	0.2nH,5
AWHP001107063N3□00	3.3	250/250	20	12800	0.05	1700	2,3,5
AWHP001107063N6□00	3.6	250/250	28	11700	0.065	1700	2,3,5
AWHP001107063N9□00	3.9	250/250	28	9500	0.065	1700	2,3,5
AWHP001107064N3□00	4.3	250/250	22	7150	0.06	1600	2,3,5
AWHP001107064N7□00	4.7	250/250	18	6850	0.115	1500	2,3,5
AWHP001107065N1□00	5.1	250/250	20	6800	0.125	1200	2,3,5
AWHP001107065N6□00	5.6	250/250	28	6800	0.07	1600	2,3,5
AWHP001107066N2□00	6.2	250/250	25	5800	0.07	1600	2,3,5
AWHP001107066N8□00	6.8	250/250	25	5800	0.095	1500	2,3,5
AWHP001107067N5□00	7.5	250/250	25	5400	0.13	1400	2,3,5
AWHP001107068N2□00	8.2	250/250	30	5400	0.08	1500	2,3,5
AWHP001107068N7□00	8.7	250/250	30	5000	0.085	1500	2,3,5
AWHP001107069N0□00	9	250/250	28	5000	0.09	1400	2,3,5
AWHP001107069N5□00	9.5	250/250	30	4700	0.095	1400	2,3,5
AWHP0011070610N□00	10	250/250	30	4700	0.12	1300	2,3,5
AWHP0011070611N□00	11	250/250	30	4700	0.095	1400	2,3,5
AWHP0011070612N□00	12	250/250	25	4400	0.11	1200	2,3,5
AWHP0011070613N□00	13	250/250	30	4200	0.14	870	2,3,5
AWHP0011070615N□00	15	250/250	30	3900	0.13	1100	2,3,5
AWHP0011070616N□00	16	250/250	30	3700	0.15	850	2,3,5
AWHP0011070618N□00	18	250/250	30	3550	0.16	900	2,3,5
AWHP0011070619N□00	19	250/250	30	3500	0.175	850	2,3,5
AWHP0011070620N□00	20	250/250	30	3500	0.22	780	2,3,5
AWHP0011070621N□00	21	250/250	30	1700	0.36	450	2,3,5
AWHP0011070622N□00	22	250/250	30	3300	0.21	800	2,3,5
AWHP0011070623N□00	23	250/250	30	3150	0.21	700	2,3,5

Note: When ordering, please specify tolerance code. Tolerance: B=±0.1nH / C=±0.2nH / G=±2% / H=±3% / J=±5%

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Irms for a 15℃ temperature rise from 25℃ ambient.
3. 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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Pulse a YAGEO company

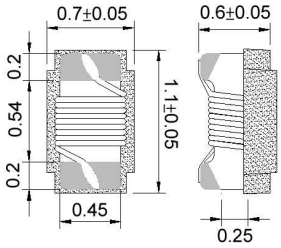
CHILISIN ELECTRONICS CORP.

Chip Inductor AWHP Series

Automotive
AEC-Q200

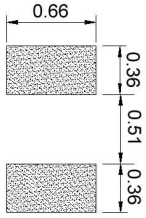
AWHP00110706 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test Freq. (MHz)	Q Typ.	SRF (MHz)Typ.	RDC (Ω)Max.	Irms (mA)Max.	Tolerance
AWHP0011070624N□00	24	250/250	30	3150	0.26	700	2,3,5
AWHP0011070625N□00	25	250/250	30	3150	0.31	700	2,3,5
AWHP0011070626N□00	26	250/250	30	3150	0.275	700	2,3,5
AWHP0011070627N□00	27	250/250	30	3200	0.3	450	2,3,5
AWHP0011070630N□00	30	250/250	30	2900	0.35	450	2,3,5
AWHP0011070633N□00	33	250/250	30	2800	0.38	490	2,3,5
AWHP0011070636N□00	36	250/250	30	2800	0.48	480	2,3,5
AWHP0011070637N□00	37	250/250	30	2700	0.49	470	2,3,5
AWHP0011070639N□00	39	250/250	30	2600	0.52	450	2,3,5
AWHP0011070640N□00	40	250/250	30	2600	0.52	450	2,3,5
AWHP0011070643N□00	43	250/250	29	2500	0.72	450	2,3,5
AWHP0011070647N□00	47	250/250	30	2400	0.72	420	2,3,5
AWHP0011070647N□00	47	250/250	30	2400	0.72	420	2,3,5
AWHP0011070651N□00	51	250/250	30	2300	0.98	360	2,3,5

Note: When ordering, please specify tolerance code. Tolerance: B=±0.1nH / C=±0.2nH / G=±2% / H=±3% / J=±5%

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Irms for a 15℃ temperature rise from 25℃ ambient.
3. 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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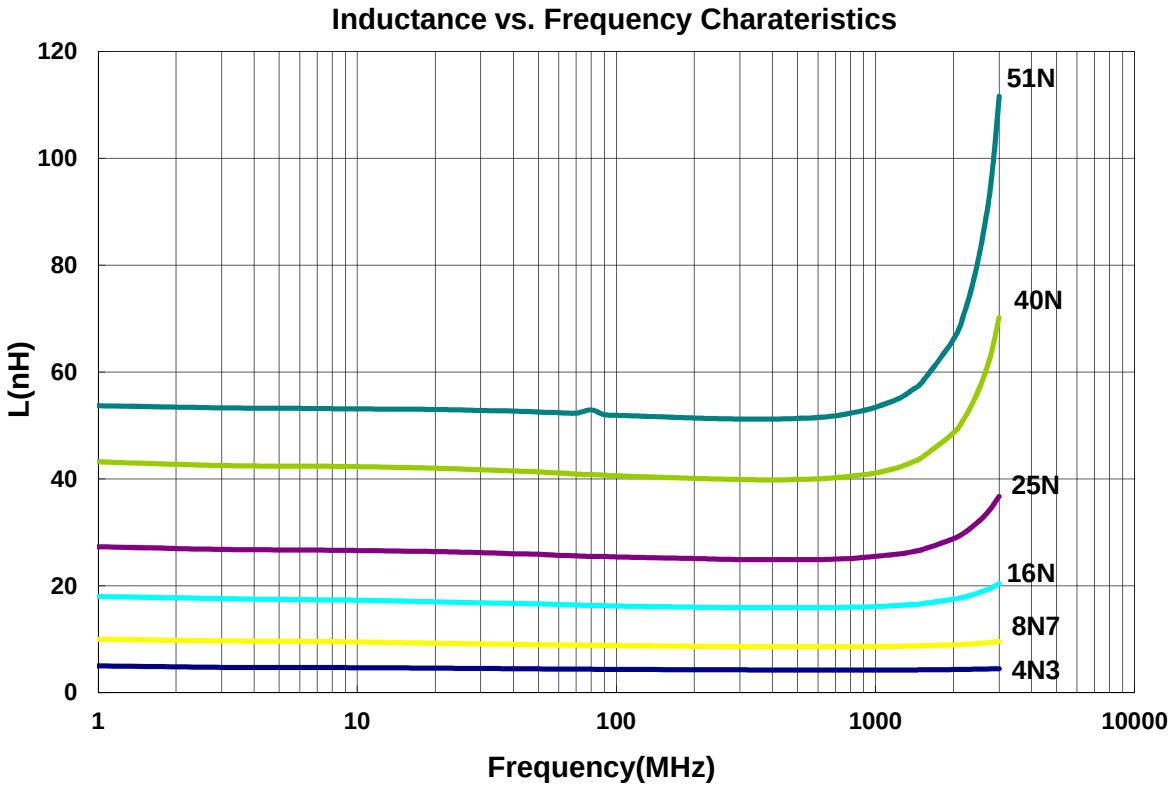
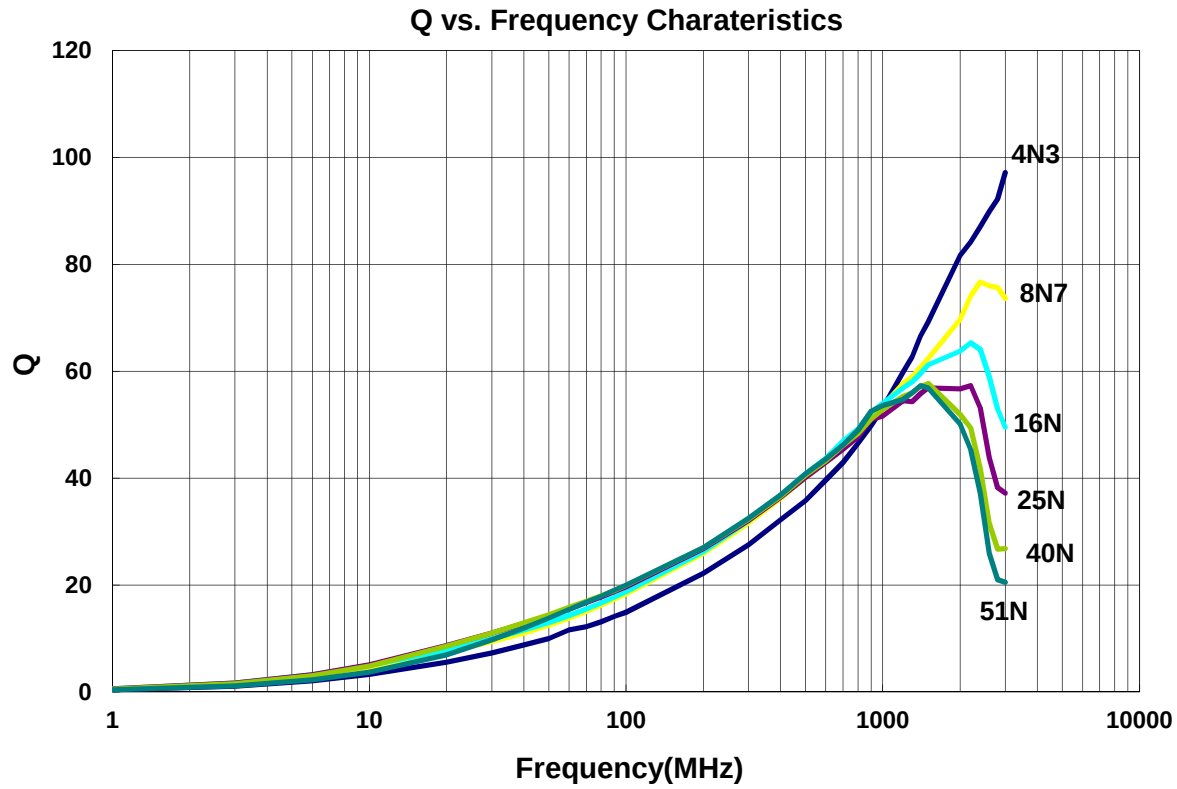
Chip Inductor AWHP Series

Automotive
AEC-Q200

AWHP00110706 Type

■ Characteristics Graph





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Pulse a YAGEO company

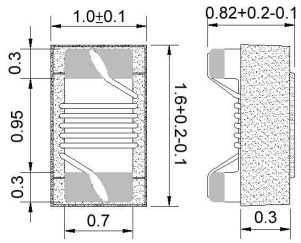
CHILISIN ELECTRONICS CORP.

Chip Inductor AWHP Series

Automotive AEC-Q200

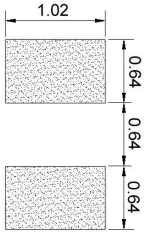
AWHP00161008 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test Freq. (MHz)	Q Typ.	SRF (MHz)Typ.	RDC (Ω)Max.	Irms (mA)Max.	Tolerance
AWHP001610081N8□00	1.8	250/250	23	16000	0.033	2100	5
AWHP001610082N2□00	2.2	250/250	13	15000	0.182	900	5
AWHP001610083N9□00	3.9	250/250	26	7500	0.062	1600	5
AWHP001610084N3□00	4.3	250/250	26	7500	0.088	1300	3,5
AWHP001610084N7□00	4.7	250/250	25	7900	0.13	1100	3,5
AWHP001610086N8□00	6.8	250/250	40	5800	0.065	1400	3,5
AWHP001610087N2□00	7.2	250/250	32	5400	0.1	1400	3,5
AWHP001610087N5□00	7.5	250/250	32	5300	0.1	1300	3,5
AWHP0016100811N□00	11	250/250	41	4100	0.086	1400	3,5
AWHP0016100815N□00	15	250/250	42	3600	0.11	1200	3,5
AWHP0016100816N□00	16	250/250	40	3500	0.125	1100	3,5
AWHP0016100822N□00	22	250/250	40	3150	0.195	850	3,5
AWHP0016100823N□00	23	250/250	40	3000	0.15	850	3,5
AWHP0016100824N□00	24	250/250	42	2950	0.125	1100	3,5
AWHP0016100827N□00	27	250/250	42	2800	0.2	780	3,5
AWHP0016100830N□00	30	250/250	49	2800	0.13	920	3,5
AWHP0016100833N□00	33	250/250	45	2700	0.17	680	3,5
AWHP0016100836N□00	36	250/250	44	2500	0.225	720	3,5
AWHP0016100839N□00	39	250/250	48	2450	0.19	680	3,5
AWHP0016100843N□00	43	250/250	45	2450	0.225	810	3,5
AWHP0016100847N□00	47	200/250	43	2300	0.24	680	3,5
AWHP0016100851N□00	51	200/250	42	2300	0.28	660	3,5
AWHP0016100856N□00	56	200/250	43	2200	0.3	610	3,5
AWHP0016100868N□00	68	200/250	43	2000	0.33	600	3,5
AWHP0016100872N□00	72	150/250	37	1900	0.42	550	3,5
AWHP0016100875N□00	75	150/250	37	1900	0.52	500	3,5
AWHP0016100882N□00	82	150/250	38	1800	0.46	510	3,5
AWHP0016100891N□00	91	150/250	45	1650	0.58	440	3,5
AWHP00161008R10□00	100	150/250	49	1700	0.54	470	3,5
AWHP00161008R11□00	110	150/250	47	1600	0.62	440	3,5

Note: When ordering, please specify tolerance code. Tolerance: H=±3% / J=±5%

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Irms for a 15℃ temperature rise from 25℃ ambient.
3. 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

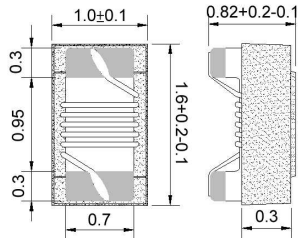
CHILISIN ELECTRONICS CORP.

Chip Inductor AWHP Series

Automotive
AEC-Q200

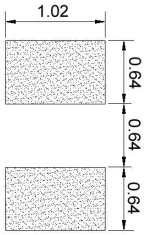
AWCS00161008 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test Freq. (MHz)	Q Typ.	SRF (MHz)Typ.	RDC (Ω)Max.	Irms (mA)Max.	Tolerance
AWHP00161008R12□00	120	150/250	47	1550	0.72	420	3,5
AWHP00161008R15□00	150	150/250	47	1350	1.15	390	3,5
AWHP00161008R18□00	180	100/250	48	1300	1.5	310	3,5
AWHP00161008R20□00	200	100/250	47	1250	2	280	3,5
AWHP00161008R21□00	210	100/250	48	1200	2	280	3,5
AWHP00161008R22□00	220	100/250	47	1100	2	280	3,5
AWHP00161008R25□00	250	100/250	45	1050	3	240	3,5
AWHP00161008R27□00	270	100/250	46	1050	2.25	260	3,5
AWHP00161008R30□00	300	100/250	47	990	2.8	220	3,5
AWHP00161008R33□00	330	100/250	46	930	3.6	180	3,5
AWHP00161008R36□00	360	100/250	47	930	4	170	3,5
AWHP00161008R39□00	390	100/250	47	880	4	170	3,5

Note: When ordering, please specify tolerance code. Tolerance: H=±3% / J=±5%

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Irms for a 15℃ temperature rise from 25℃ ambient.
3. 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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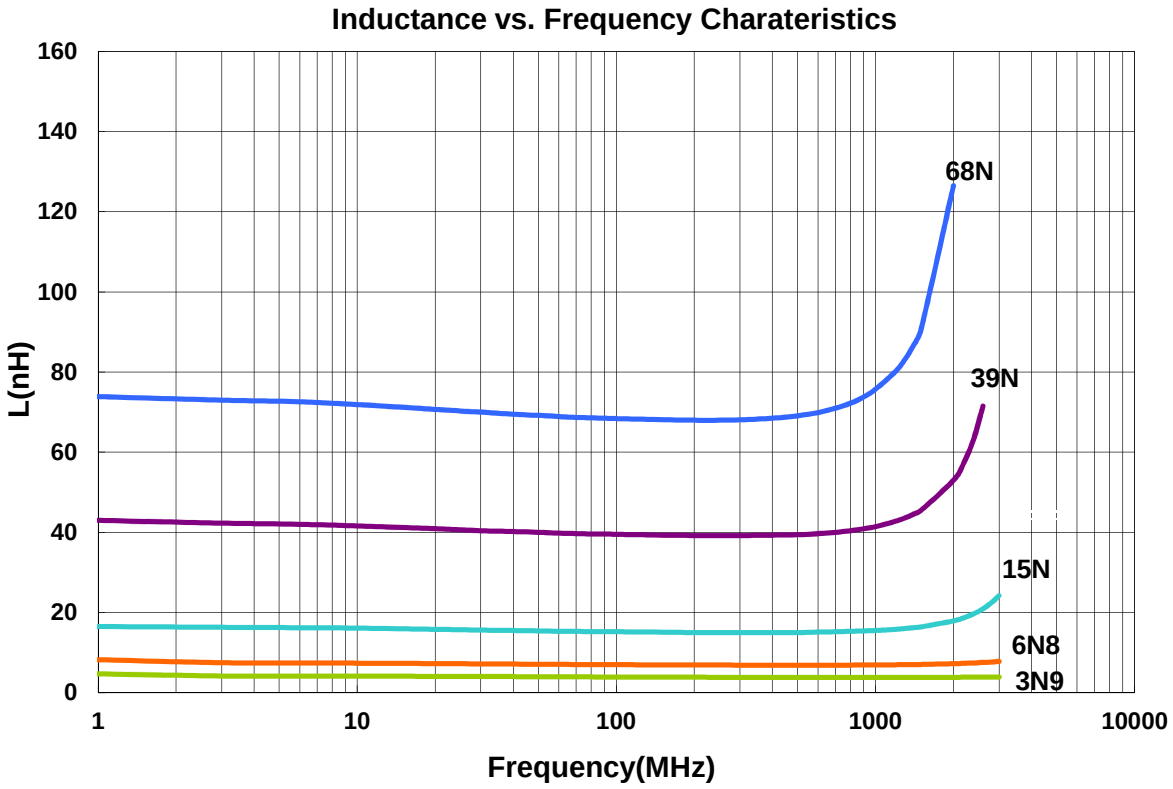
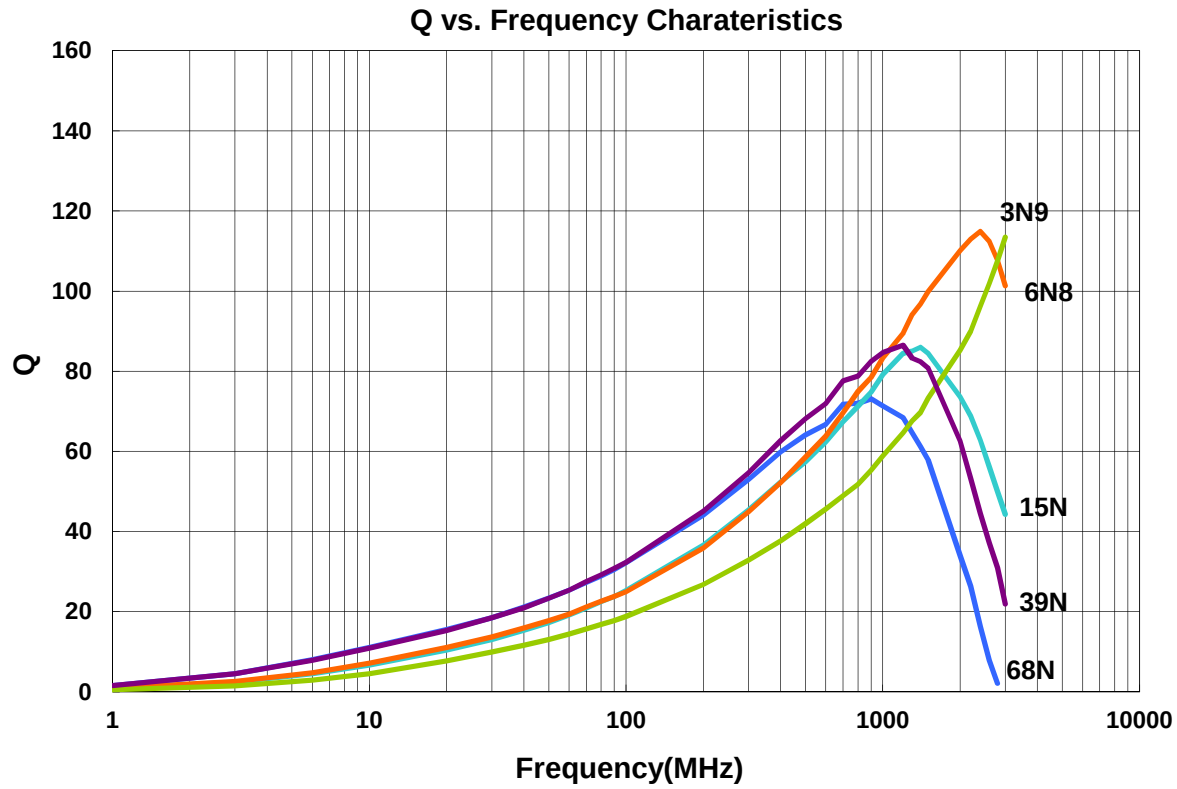
Chip Inductor AWHP Series

Automotive
AEC-Q200

AWHP00161008 Type

■ Characteristics Graph





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Packaging

Tape Dimensions

Figure 1

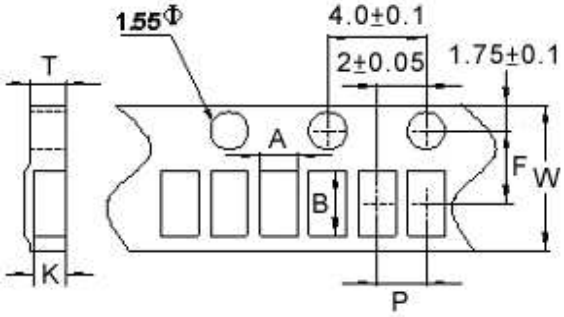
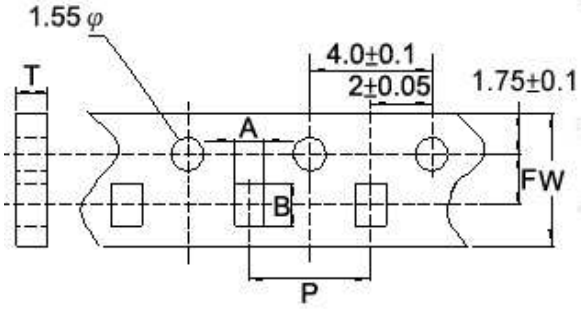
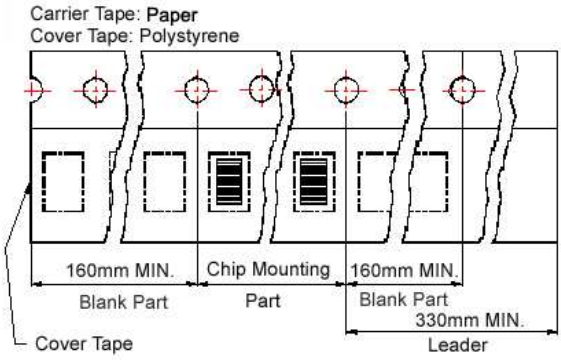


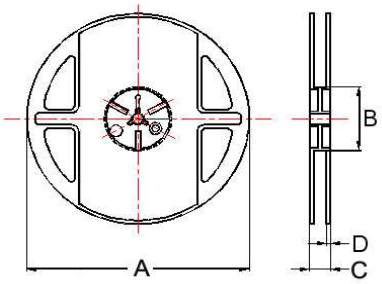
Figure 2



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
AWHP00110706	1	0.8	1.20	0.75	8	2	3.5	0.62	178	60	12	1.5	4000
AWHP00161008	2	1.23	1.90	1.05	8	4	3.5	-	178	60	12	1.5	4000

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Chip Inductor AWHH Series

Automotive
AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

RF Circuit | Unshield | Wire Wound | Ceramic | High Q

Part Numbering

A	WHH	00	161108	10N	H	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (nH)	Tolerance	Internal Code
			161108 1.6x1.12x0.82	3N3 3.3	H ±3%	
				10N 10	J ±5%	

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Pulse a YAGEO company

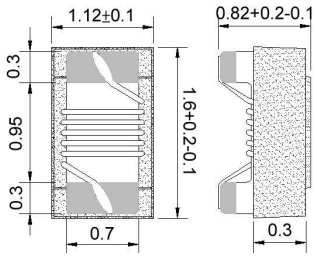
CHILISIN ELECTRONICS CORP.

Chip Inductor AWHH Series

Automotive
AEC-Q200

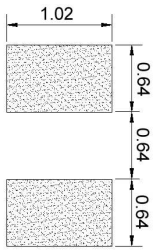
AWHH00161108 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test Freq. (MHz)	Q Typ.	SRF (GHz)Typ.	RDC (Ω)Max.	Irms (mA)Max.	Tolerance
AWHH001611083N3□00	3.3	250/250	36	9.6	0.034	1900	5,3
AWHH001611083N6□00	3.6	250/250	28	9.7	0.04	1900	5,3
AWHH001611085N1□00	5.1	250/250	38	8.9	0.042	1700	5,3
AWHH001611085N6□00	5.6	250/250	35	6.6	0.042	1700	5,3
AWHH001611086N0□00	6	250/250	49	6	0.042	1700	5,3
AWHH001611088N2□00	8.2	250/250	40	5.9	0.054	1400	5,3
AWHH001611088N7□00	8.7	250/250	46	5.5	0.054	1400	5,3
AWHH001611089N1□00	9.1	250/250	40	5.1	0.052	1400	5,3
AWHH001611089N5□00	9.5	250/250	42	4.9	0.054	1400	5,3
AWHH0016110810N□00	10	250/250	44	4.3	0.054	1400	5,3
AWHH0016110812N□00	12	250/250	40	4.1	0.088	1100	5,3
AWHH0016110818N□00	18	250/250	45	3.3	0.082	1200	5,3

Note: When ordering, please specify tolerance code. Tolerance: H=±3% / J=±5%

1. Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
2. Irms for a 15℃ temperature rise from 25℃ ambient.
3. Measure Equipment:
   L & Q: Agilent E4991A+Agilent HP16197A
   SRF: Agilent E5071C
   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

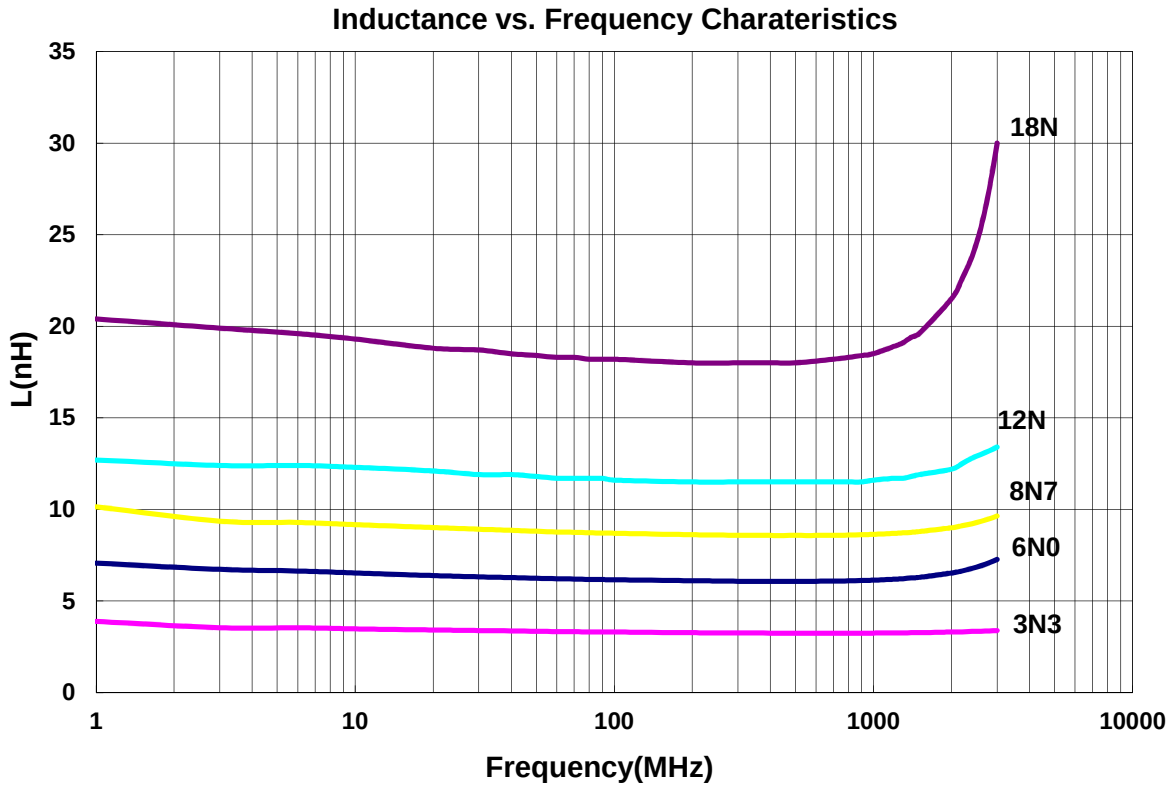
CHILISIN ELECTRONICS CORP.

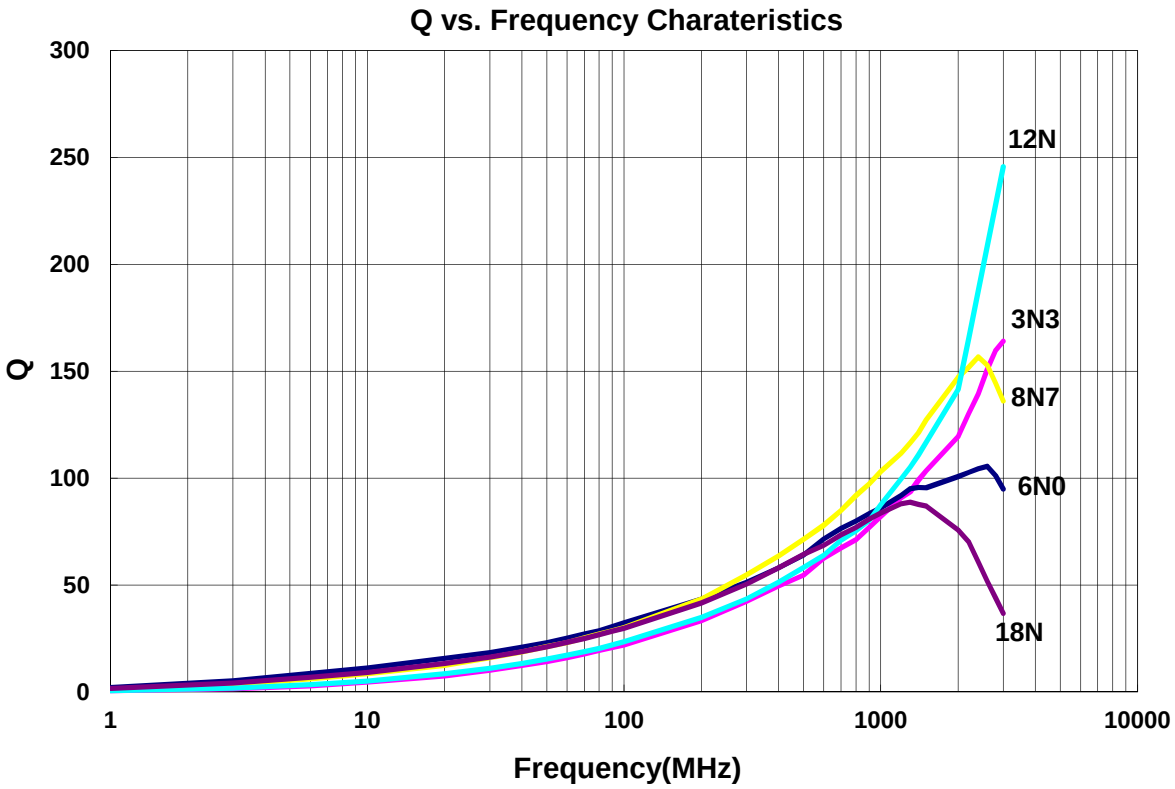
Chip Inductor AWHH Series

Automotive
AEC-Q200

AWHH00161108 Type

■ Characteristics Graph





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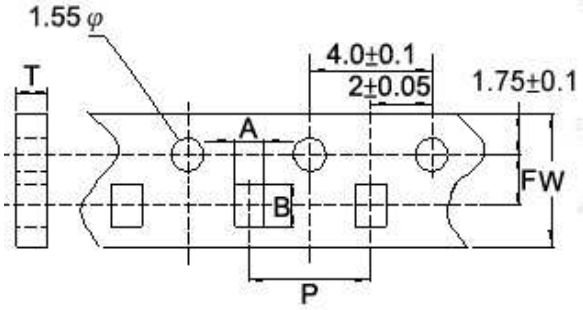
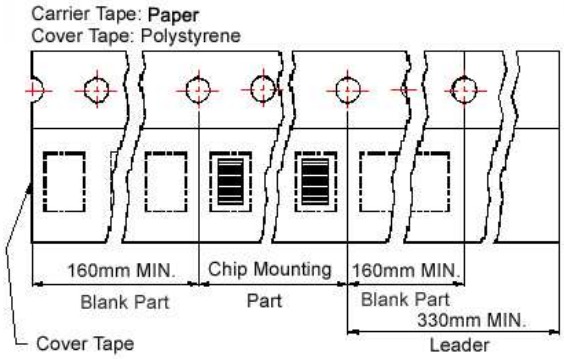
Chip Inductor AWHH Series

Automotive
AEC-Q200

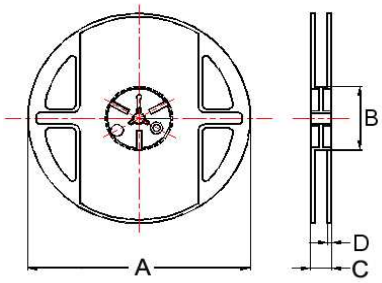
Packaging

Tape Dimensions





Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions						Reel Dimensions				Quantity
	A	B	T	W	P	F	A	B	C	D	PCS / Reel
AWHH00161108	1.25	1.90	1.05	8	4	3.5	178	60	12	1.5	4000

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Chip Inductor AWLD Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

RF Circuit | Unshield | Wire Wound | Ceramic | High Q

■ Part Numbering

A	WLD	00	100505	20N	J	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (nH)	Tolerance	Internal Code

Dimensions Code (mm)		Inductance (nH)		Tolerance	
100505	1.01x0.6x0.55	20N	20	C	±0.2nH
181010	1.8x1.0x0.95	100	10	J	±5%
				K	±10%
				M	±20%

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Pulse a YAGEO company

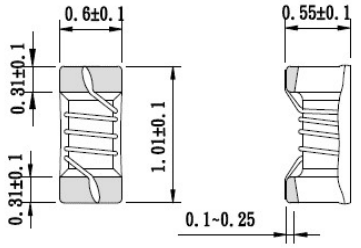
CHILISIN ELECTRONICS CORP.

Chip Inductor AWLD Series

Automotive
AEC-Q200

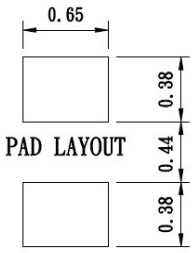
AWLD00100505 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test Freq. (MHz)	SRF (MHz)Min.	RDC (Ω)Max.	Rated Current (Irms)(mA)Max.	Tolerance (±%)
AWLD0010050520N□00	20	100	3000	0.028	2200	2nH,5,10,20
AWLD0010050534N□00	34	100	2500	0.036	1800	2nH,5,10,20
AWLD0010050553N□00	53	100	2000	0.06	1300	5,10,20
AWLD0010050577N□00	77	100	2000	0.09	1100	5,10,20
AWLD00100505R11□00	106	100	1500	0.144	850	5,10,20
AWLD00100505R14□00	140	100	1000	0.216	650	5,10,20
AWLD00100505R18□00	180	100	1000	0.312	560	5,10,20
AWLD00100505R22□00	220	100	1400	0.47	450	5,10,20
AWLD00100505R27□00	270	100	830	0.52	420	5,10,20
AWLD00100505R33□00	330	100	520	0.56	390	5,10,20
AWLD00100505R39□00	390	100	450	0.62	370	5,10,20
AWLD00100505R42□00	420	10	400	0.62	370	5,10,20
AWLD00100505R47□00	470	10	380	0.66	350	5,10,20
AWLD00100505R56□00	560	10	300	0.71	300	5,10,20
AWLD00100505R68□00	680	1	290	0.78	290	10,20
AWLD00100505R82□00	820	1	200	0.84	275	10,20
AWLD001005051R0□00	1000	1	120	0.94	270	10,20
AWLD001005051R5□00	1500	1	120	1.5	190	10,20
AWLD001005052R2□00	2200	1	100	1.8	170	10,20
AWLD001005053R3□00	3300	1	80	3.65	130	10,20
AWLD00100505100□00	10000	1	20	4.7	120	10,20
AWLD00100505150□00	15000	1	20	5.7	100	10,20

Note: □-tolerance C=±2nH/J=±5% / K=±10% /M=±20%

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Irms for a 15℃ temperature rise from 25℃ ambient.
3. L/Q Test OSC @200mV.
4. Inductance would be correct Chilisin standard piece.

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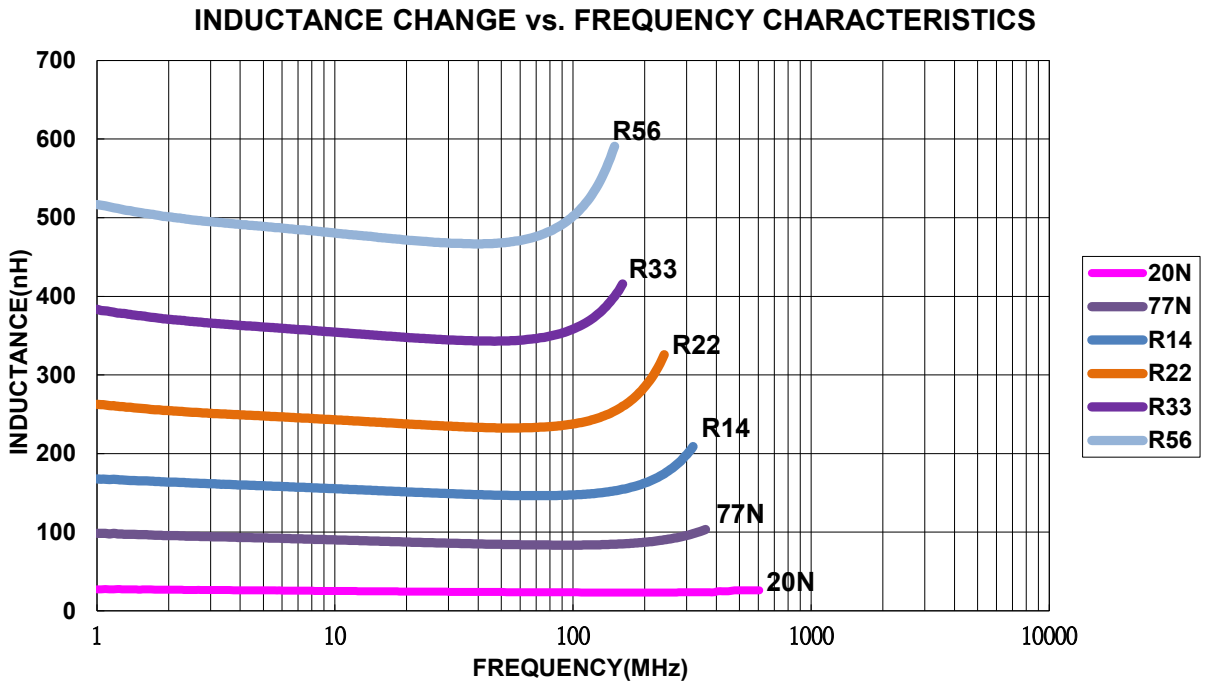
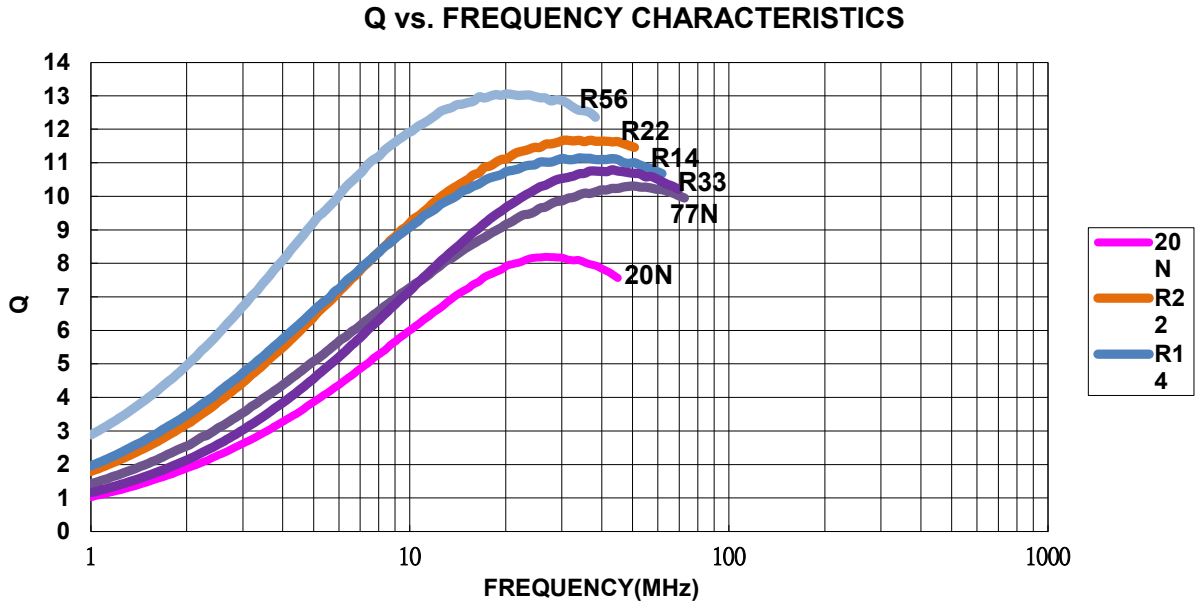
Chip Inductor AWLD Series

Automotive
AEC-Q200

AWLD00100505 Type

■ Characteristics Graph





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Pulse a YAGEO company

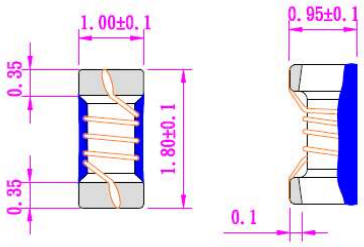
CHILISIN ELECTRONICS CORP.

Chip Inductor AWLD Series

Automotive
AEC-Q200

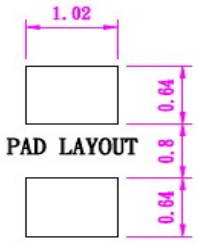
AWLD00181010 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	L/Q Test Freq. (MHz)	Q Typ.	SRF (MHz)Typ.	RDC (Ω)±30%	IDC (mA)Typ.	Irms (mA)Typ.	Tolerance (±%)
AWLD00181010R47□00	0.47	7.9/7.9	16	650	0.24	1050	1000	5,10,20
AWLD00181010R56□00	0.56	7.9/7.9	16	580	0.26	1000	950	5,10,20
AWLD00181010R65□00	0.65	7.9/7.9	16	550	0.28	950	900	5,10,20
AWLD001810101R0□00	1	7.9/7.9	16	390	0.32	860	700	5,10,20
AWLD001810102R2□00	2.2	7.9/7.9	16	82	0.56	600	580	5,10,20
AWLD001810104R7□00	4.7	7.9/7.9	16	51	0.97	400	420	5,10,20
AWLD001810106R8□00	6.8	7.9/7.9	16	43	1.5	340	340	5,10,20
AWLD00181010100□00	10	2.5/2.5	14	36	1.85	280	280	5,10,20
AWLD00181010150□00	15	2.5/2.5	14	29	2.6	240	240	5,10,20
AWLD00181010220□00	22	2.5/2.5	14	24	3.61	200	200	5,10,20

Note: □-tolerance J=±5%/ K=±10% /M=±20%

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Irms for a 15℃ temperature rise from 25℃ ambient.
3. L/Q Test OSC @200mV.
4. IDC for Inductance drop 10% from its value without current.

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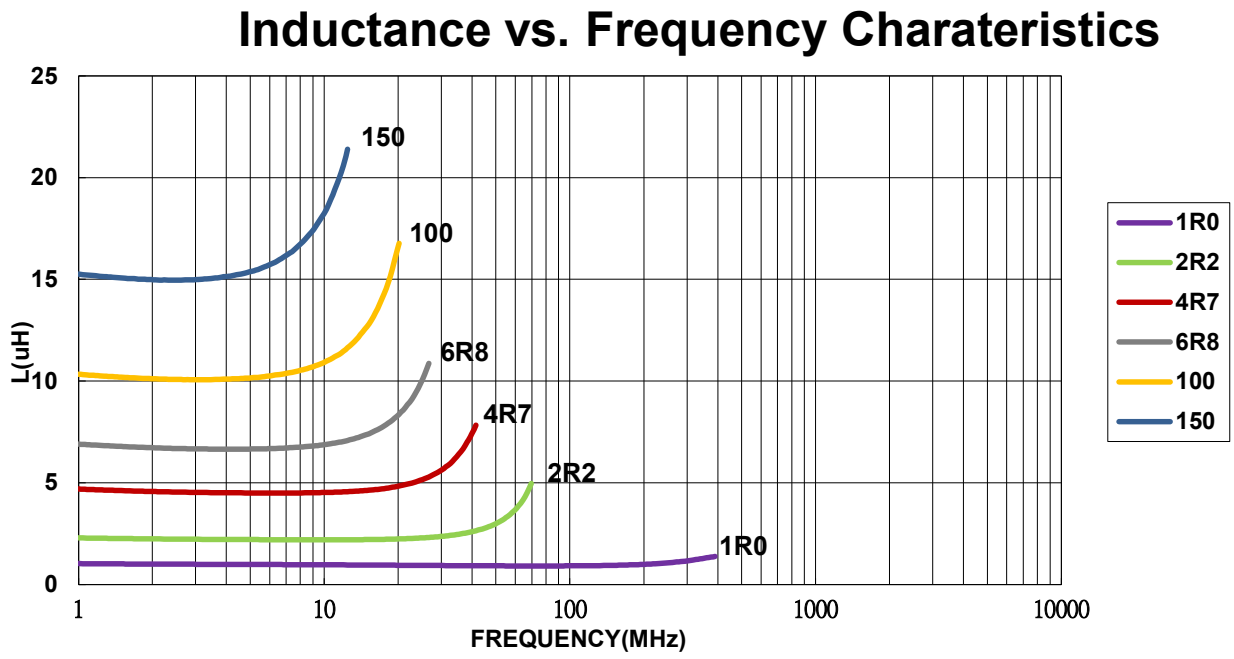
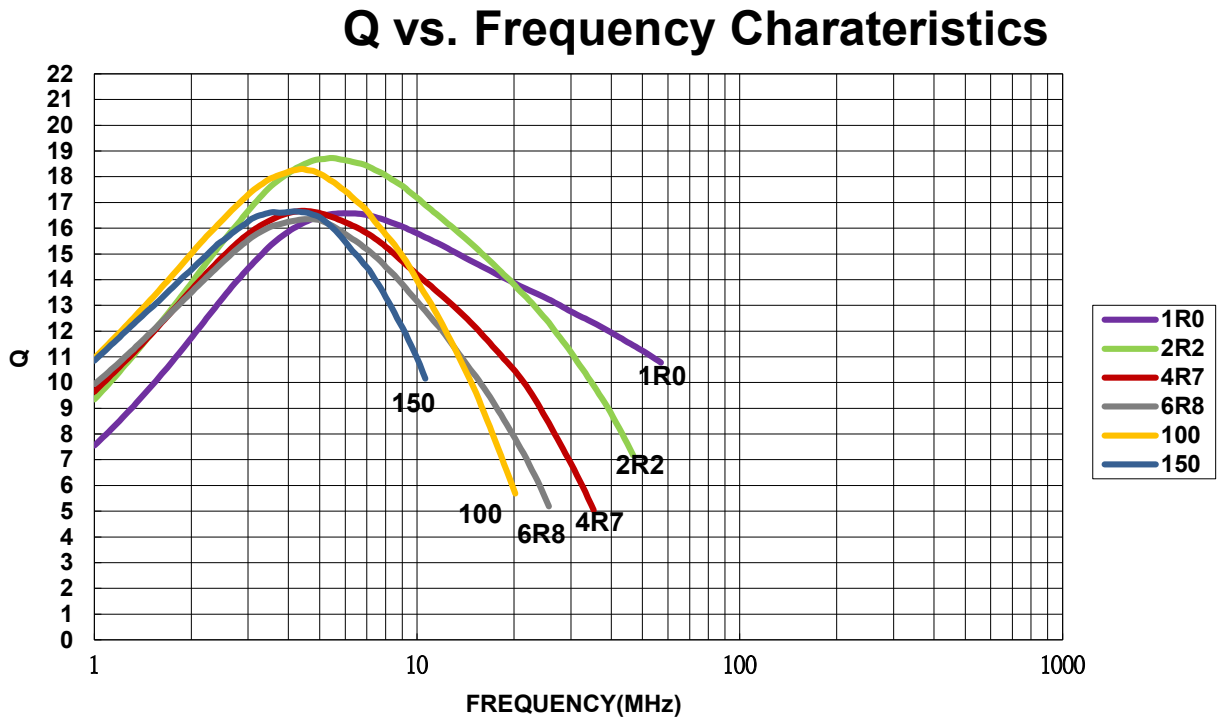
Chip Inductor AWLD Series

Automotive
AEC-Q200

AWLD00181010 Type

■ Characteristics Graph





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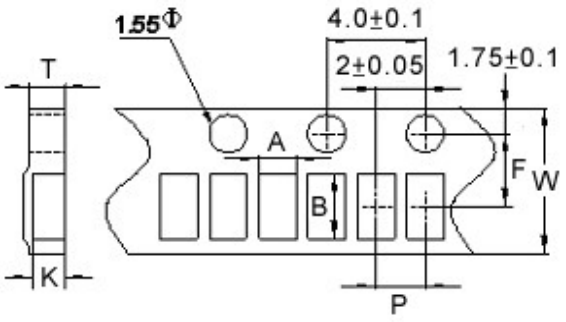
Packaging

Tape Dimensions

Figure 1



Tape Material

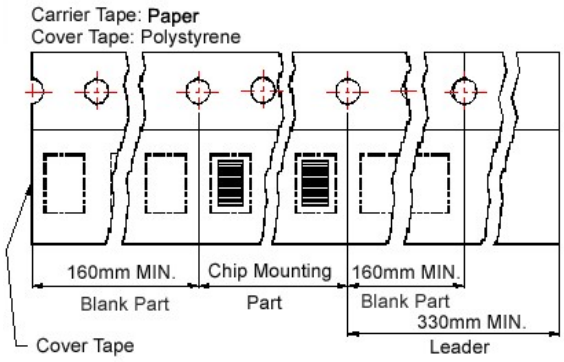
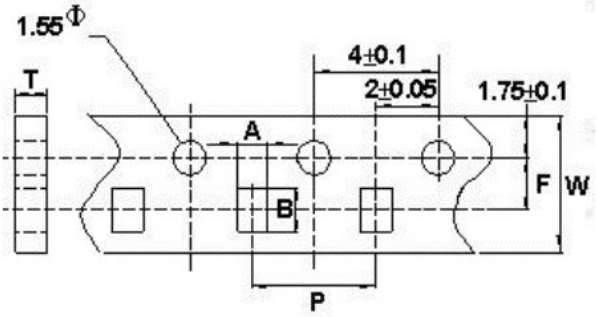
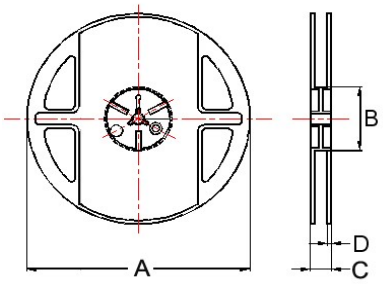


Figure 2



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
AWLD00100505	1	0.67	1.20	0.75	8	2	3.5	0.59	178±1	60±0.5	12±0.5	1.5±0.5	4000
AWLD00181010	2	1.20	2.4	1.1	8	4	3.5	-	178±1	60±0.5	12±0.5	1.5±0.5	4000

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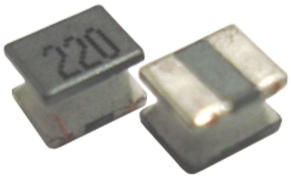
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Chip Inductor AWVI Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant



RF Circuit | Unshield | Wire Wound | Ferrite | General Signal line

■ Part Numbering

A	WVI	00	322522	3R3	K	H2
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			322522 3.2x2.5x2.2	3R3 3.3	K ±10%	
				100 10	J ±5%	

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Pulse a YAGEO company

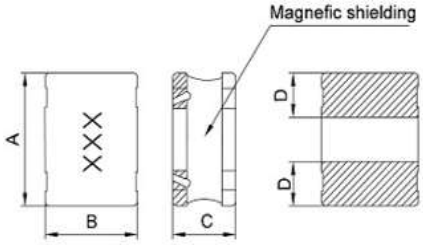
CHILISIN ELECTRONICS CORP.

Chip Inductor AWVI Series

Automotive
AEC-Q200

AWVI00322522 Type

Dimensions

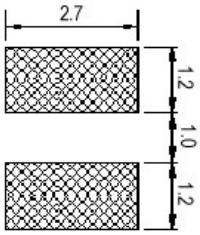


Dimensions in mm

TYPE	322522
A	3.2±0.2
B	2.5±0.2
C	2.2±0.2
D	1.1 typ

unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

Part No.	Inductance (uH)	Test Freq. (MHz)	Q Min.	SRF (MHz)Min.	RDC (Ω)Max.	Irms (mA)Max.	Tolerance (±%)	Marking
AWVI00322522R68□H2	0.68	7.96/2.52	10	190	0.065	1400	5,10,20	R68
AWVI003225221R0□H2	1	7.96/2.52	10	150	0.1	1150	5,10,20	1R0
AWVI003225221R5□H2	1.5	7.96/2.52	10	110	0.14	900	5,10,20	1R5
AWVI003225221R8□H2	1.8	7.96/2.52	10	75	0.15	850	5,10,20	1R8
AWVI003225222R2□H2	2.2	7.96/2.52	10	70	0.16	800	5,10,20	2R2
AWVI003225222R7□H2	2.7	7.96/2.52	10	45	0.18	780	5,10,20	2R7
AWVI003225223R3□H2	3.3	7.96/2.52	10	45	0.18	770	5,10,20	3R3
AWVI003225224R7□H2	4.7	7.96/2.52	10	40	0.25	700	5,10,20	4R7
AWVI003225226R8□H2	6.8	7.96/2.52	10	35	0.35	570	5,10,20	6R8
AWVI00322522100□H2	10	2.52/2.52	12	25	0.46	500	5,10,20	100
AWVI00322522150□H2	15	2.52/2.52	12	20	0.72	390	5,10,20	150
AWVI00322522220□H2	22	2.52/2.52	12	14	1	330	5,10,20	220
AWVI00322522330□H2	33	2.52/2.52	15	10	1.4	280	5,10,20	330
AWVI00322522470□H2	47	2.52/2.52	15	8	2.1	230	5,10,20	470
AWVI00322522680□H2	68	2.52/2.52	15	8	3.4	180	5,10,20	680
AWVI00322522101□H2	100	0.796/0.796	17	6	4.8	150	5,10,20	101
AWVI00322522121□H2	120	0.796/0.796	17	5	6.2	140	5,10,20	121
AWVI00322522151□H2	150	0.796/0.796	17	5	7.5	120	5,10,20	151
AWVI00322522181□H2	180	0.796/0.796	17	4	9.8	110	5,10,20	181
AWVI00322522221□H2	220	0.796/0.796	17	4	10.9	100	5,10,20	221
AWVI00322522331□H2	330	0.796/0.796	17	3.5	13	90	5,10,20	331
AWVI00322522471□H2	470	0.796/0.796	17	2.5	20	76	5,10,20	471
AWVI00322522561□H2	560	0.796/0.796	10	2.5	27.0	70	5,10,20	561
AWVI00322522681□H2	680	0.796/0.796	10	2	31.0	61	5,10,20	681
AWVI00322522102□H2	1000	0.1/0.1	10	1.5	40.0	60	5,10,20	102

Note: When ordering, please specify tolerance code. Tolerance: J=±5% / K=±10% / M=±20%

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. Irms for a 15℃ temperature rise from 25℃ ambient with current
3. L/Q Test OSC @100mV.
4. Measure Equipment:
   L/Q: HP 4285A+HP 42841A(under 1MHz).L/Q: HP E4991A.(over 1MHz)
   RDC: Chroma 16502 , or equivalent
   SRF: Agilent E4991A+Agilent HP16197A or equivalent
   Irms: HP4285A+HP42841A

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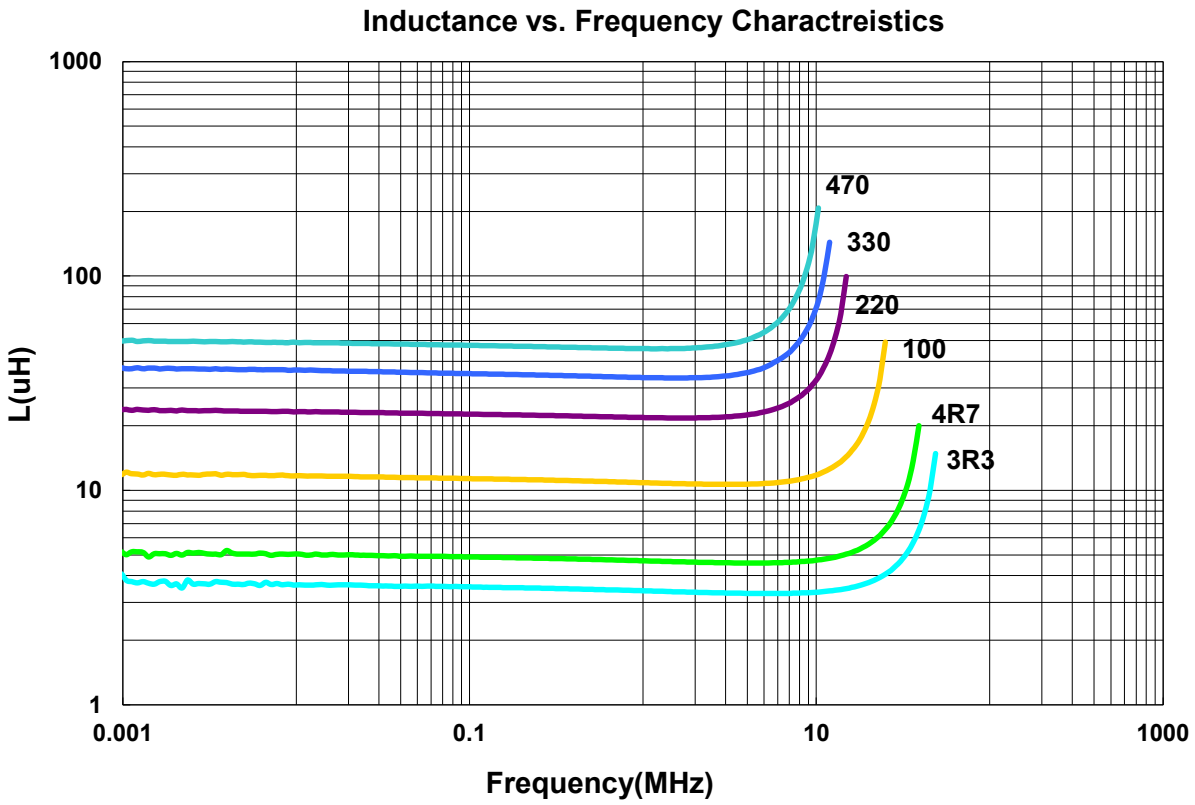
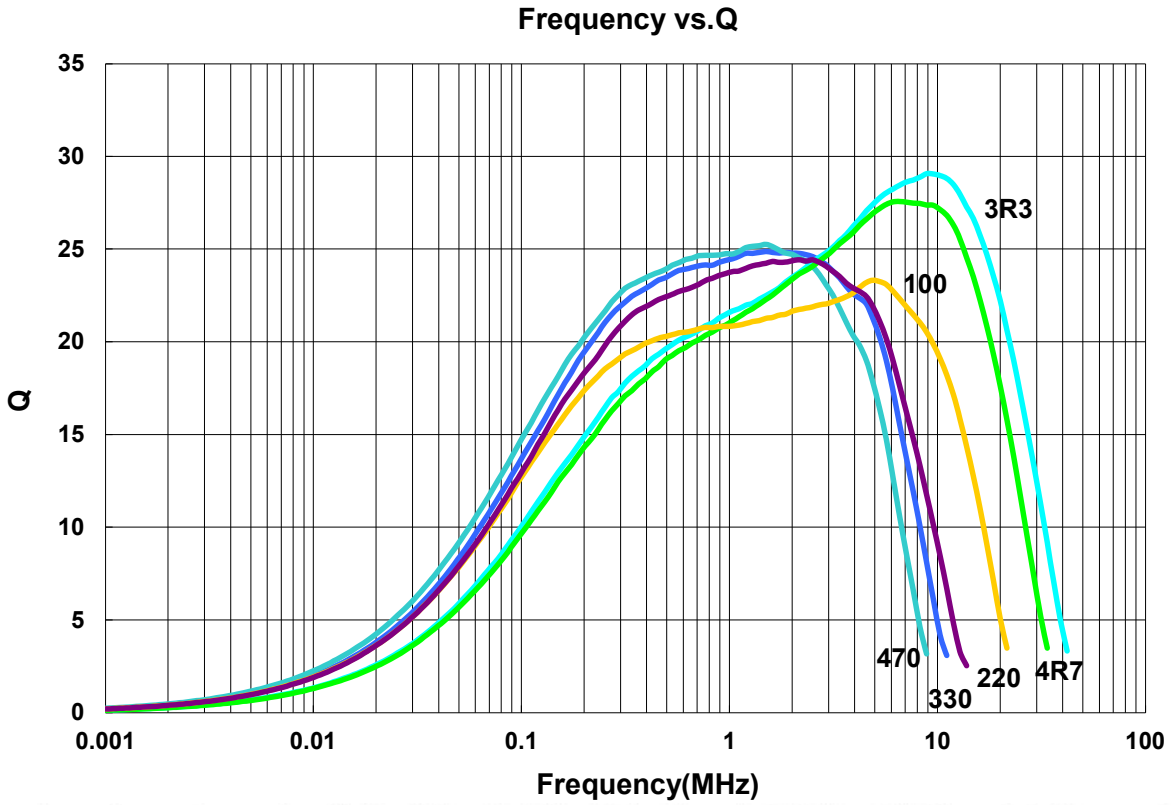
Chip Inductor AWVI Series

Automotive
AEC-Q200

AWVI00322522 Type

■ Characteristics Graph





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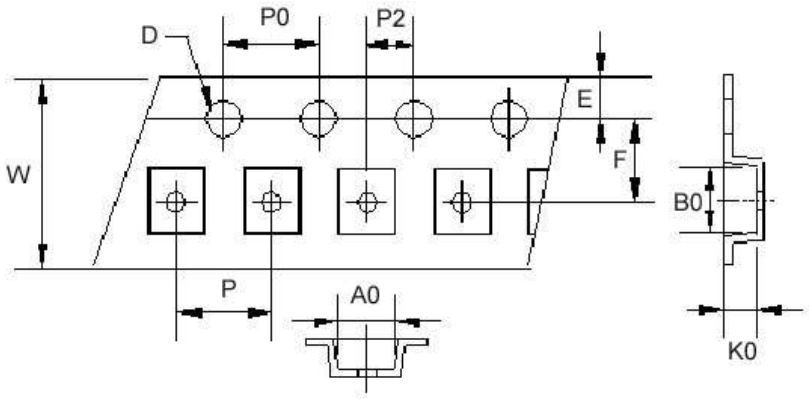
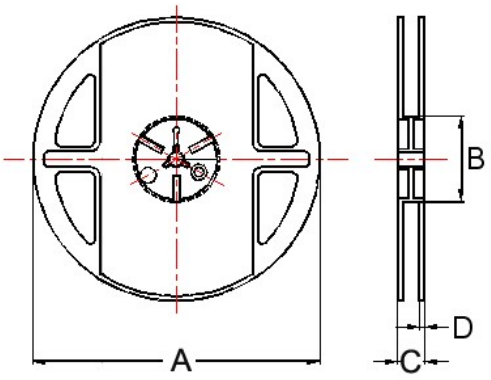
■ Packaging

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
AWVI00322522	2.8	3.4	2.4	1.5	1.75	3.5	8	4	4	2	178	60	12	1.5	1000

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.

Chip Bead ABSJ Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Noise Suppression | Shield | Multilayer | Ferrite | General Signal line

Part Numbering

A	BSJ	00	100505	600	Y	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Impedance (Ω)	Tolerance	Internal Code
			100505 1.0x0.5x0.5	600 60	Y ±25%	
			160808 1.6x0.8x0.8	121 120		
				102 1000		

This specification applies to Multilayer Chip ferrite Bead for Automotive Electronics based on AEC-Q200 except for Power train and Safety.

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

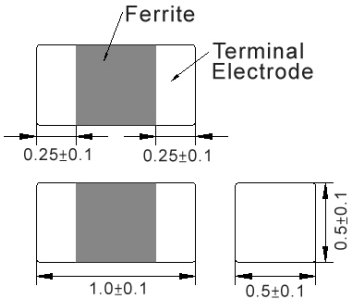
CHILISIN ELECTRONICS CORP.

Chip Bead ABSJ Series

Automotive AEC-Q200

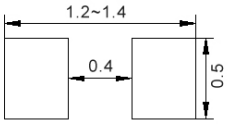
ABSJ00100505 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABSJ00100505300Y00	30	100 MHz,200 mV	0.20	500
ABSJ00100505600Y00	60	100 MHz,200 mV	0.20	500
ABSJ00100505121Y00	120	100 MHz,200 mV	0.25	500
ABSJ00100505221Y00	220	100 MHz,200 mV	0.40	400
ABSJ00100505301Y00	300	100 MHz,200 mV	0.50	300
ABSJ00100505481Y00	480	100 MHz,200 mV	0.50	300
ABSJ00100505601Y00	600	100 MHz,200 mV	0.60	300
ABSJ00100505102Y00	1000	100 MHz,200 mV	0.95	200

Note: When ordering, please specify tolerance code. Tolerance: Y=±25%

1. Operating temperature range - 55℃ ~ 125℃
2. Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
3. Measure Equipment:
   Z: HP4291A
   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.

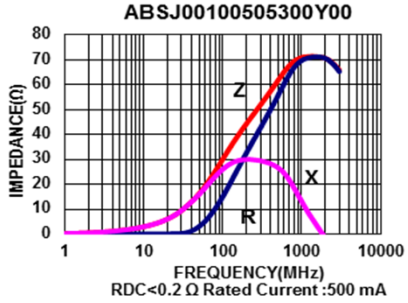
Chip Bead ABSJ Series

Automotive
AEC-Q200

ABSJ00100505 Type

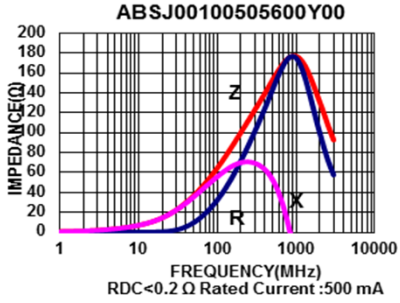
■ Characteristics Graph

ABSJ00100505300Y00



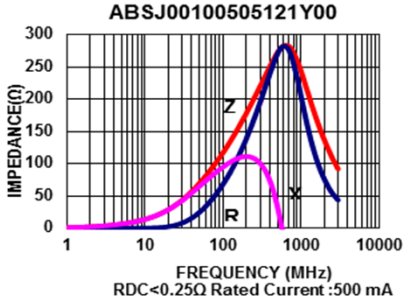
RDC<0.2 Ω Rated Current :500 mA

ABSJ00100505600Y00



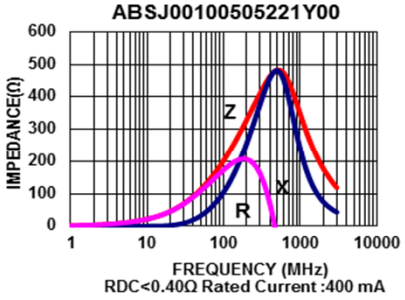
RDC<0.2 Ω Rated Current :500 mA

ABSJ00100505121Y00



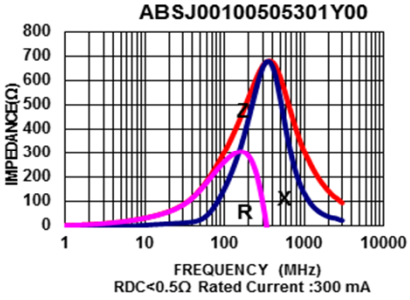
RDC<0.25Ω Rated Current :500 mA

ABSJ00100505221Y00



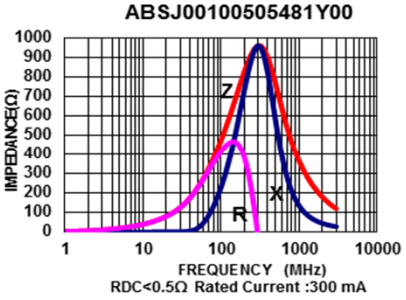
RDC<0.40Ω Rated Current :400 mA

ABSJ00100505301Y00



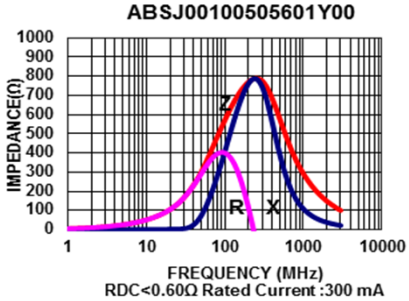
RDC<0.5Ω Rated Current :300 mA

ABSJ00100505481Y00



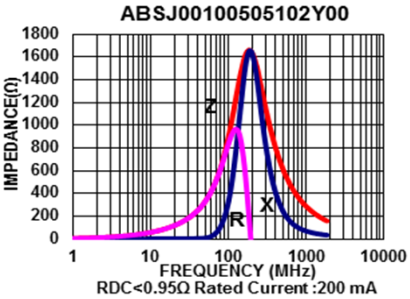
RDC<0.5Ω Rated Current :300 mA

ABSJ00100505601Y00



RDC<0.60Ω Rated Current :300 mA

ABSJ00100505102Y00



RDC<0.95Ω Rated Current :200 mA

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Pulse a YAGEO company

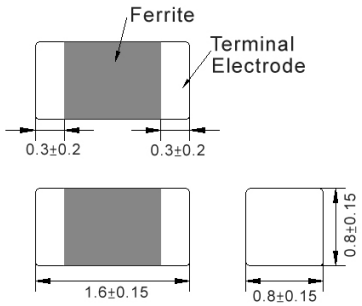
CHILISIN ELECTRONICS CORP.

Chip Bead ABSJ Series

Automotive AEC-Q200

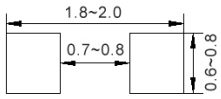
ABSJ00160808 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABSJ00160808121Y00	120	100 MHz,200 mV	0.25	400
ABSJ00160808601Y00	600	100 MHz,200 mV	0.40	400
ABSJ00160808102Y00	1000	100 MHz,200 mV	0.60	300

Note: When ordering, please specify tolerance code. Tolerance: Y=±25%

1. Operating temperature range - 55℃ ~ 125℃
2. Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
3. Measure Equipment:
   RDC: HP4338B or CHEN HWA 502

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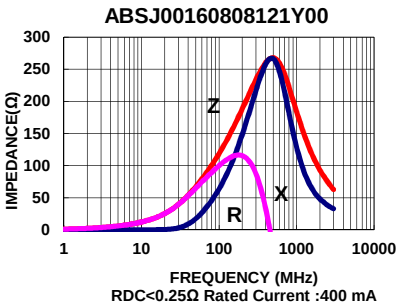
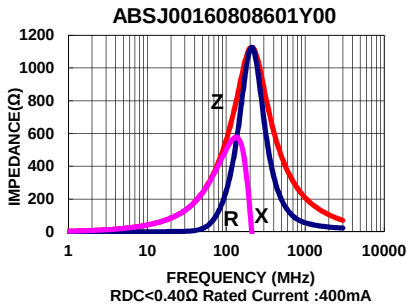
Chip Bead ABSJ Series

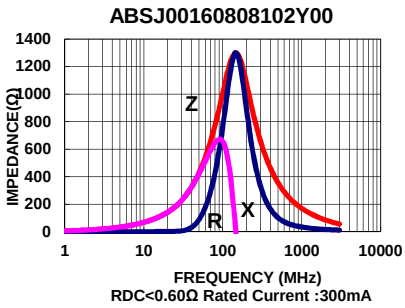
Automotive
AEC-Q200

ABSJ00160808 Type

■ Characteristics Graph







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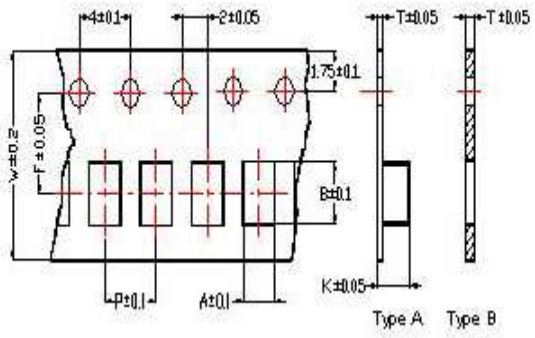
Chip Bead ABSJ Series

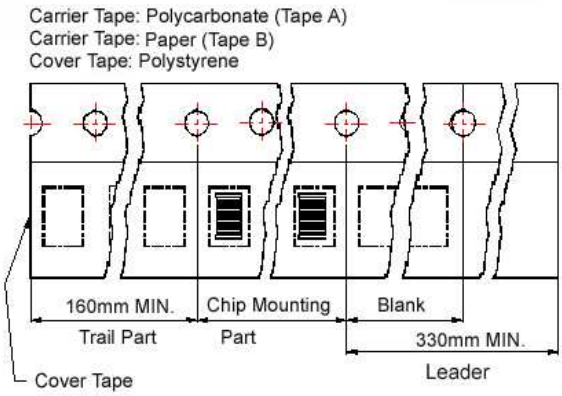
Automotive
AEC-Q200

Packaging

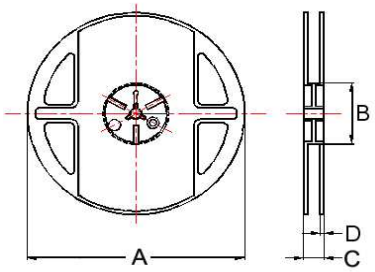
Tape Dimensions



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
ABSJ00100505	0.62	1.12	0.60	8	2	3.5	-	B	178	60	12	2	10000
ABSJ00160808	1.05	1.85	0.95	8	4	3.5	-	B	178	60	12	2	4000

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Chip Bead ABSY/ABBK Series

Automotive
AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Noise Suppression | Shield | Multilayer | Ferrite | General Signal line

Part Numbering

A	BBK	00	100505	400	Y	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Impedance (Ω)	Tolerance	Internal Code
	BSY		100505 1.0x0.5x0.5	300 30	Y ±25%	
	BBK		160808 1.6x0.8x0.8	121 120		
			201209 2.0x1.25x0.9	102 1000		
			321611 3.2x1.6x1.1			

This specification applies to Multilayer Chip ferrite Bead for Automotive Electronics based on AEC-Q200 except for Power train and Safety.

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

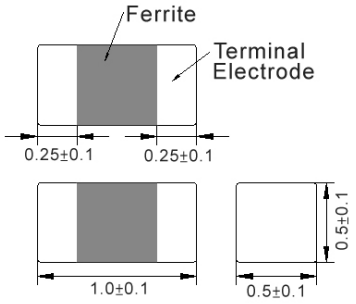
CHILISIN ELECTRONICS CORP.

Chip Bead ABSY/ABBK Series

Automotive
AEC-Q200

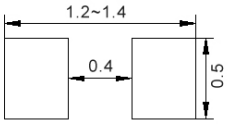
ABSY00100505 Type

Dimensions



unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABSY00100505100Y00	10	100 MHz,200 mV	0.025	1000
ABSY00100505190Y00	19	100 MHz,200 mV	0.10	500
ABSY00100505220Y00	22	100 MHz,200 mV	0.15	500
ABSY00100505300Y00	30	100 MHz,200 mV	0.20	500
ABSY00100505330Y00	33	100 MHz,200 mV	0.20	500
ABSY00100505400Y00	40	100 MHz,200 mV	0.20	500
ABSY00100505470Y00	47	100 MHz,200 mV	0.20	500
ABSY00100505500Y00	50	100 MHz,200 mV	0.20	500
ABSY00100505600Y00	60	100 MHz,200 mV	0.20	500
ABSY00100505700Y00	70	100 MHz,200 mV	0.15	600
ABSY00100505800Y00	80	100 MHz,200 mV	0.20	500
ABSY00100505101Y00	100	100 MHz,200 mV	0.25	500
ABSY00100505121Y00	120	100 MHz,200 mV	0.19	550
ABSY00100505151Y00	150	100 MHz,200 mV	0.40	400
ABSY00100505181Y00	180	100 MHz,200 mV	0.40	400
ABSY00100505221Y00	220	100 MHz,200 mV	0.29	450
ABSY00100505241Y00	240	100 MHz,200 mV	0.40	400
ABSY00100505301Y00	300	100 MHz,200 mV	0.50	300
ABSY00100505471Y00	470	100 MHz,200 mV	0.50	300
ABSY00100505481Y00	480	100 MHz,200 mV	0.50	300
ABSY00100505601Y00	600	100 MHz,200 mV	0.52	300
ABSY00100505102Y00	1000	100 MHz,200 mV	0.65	300

Note: When ordering, please specify tolerance code. Tolerance: Y=±25%

1. Operating temperature range - 55℃ ~ 125℃
2. Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
3. Measure Equipment:
   Z: HP4291A
   RDC: HP4338B or CHEN HWA 502

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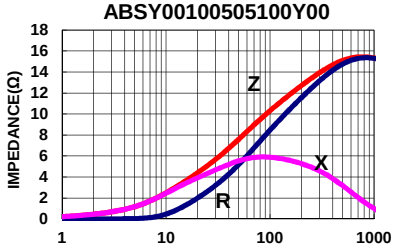
Chip Bead ABSY/ABBK Series

Automotive
AEC-Q200

ABSY00100505 Type

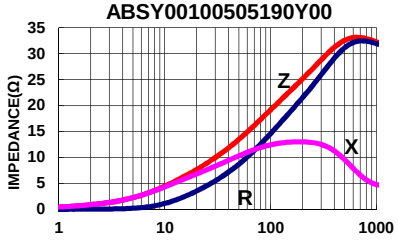
■ Characteristics Graph

ABSY00100505100Y00



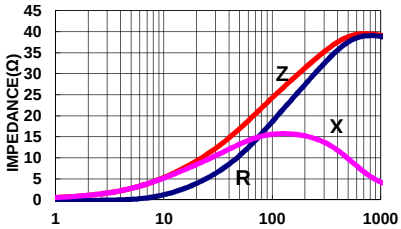
RDC<0.025 Ω Rated Current :1000 mA

ABSY00100505190Y00



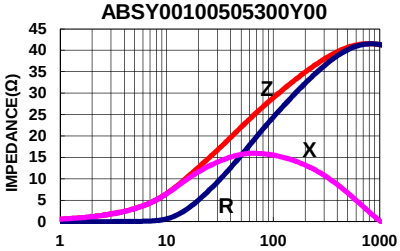
RDC<0.1Ω Rated Current :500 mA

ABSY00100505220Y00



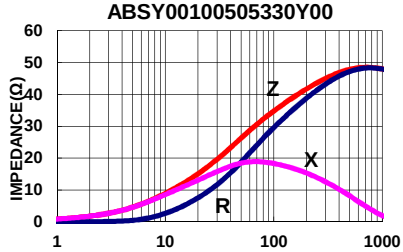
RDC<0.15 Ω Rated Current :500 mA

ABSY00100505300Y00



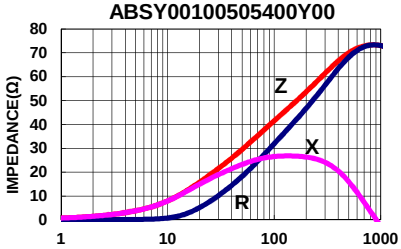
RDC<0.2 Ω Rated Current :500 mA

ABSY00100505330Y00



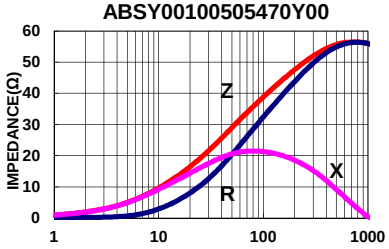
RDC<0.2Ω Rated Current :500 mA

ABSY00100505400Y00



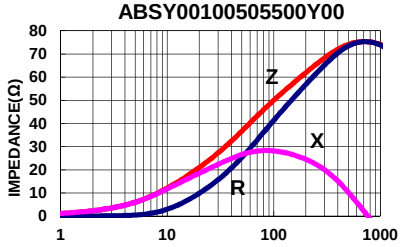
RDC<0.2 Ω Rated Current :500 mA

ABSY00100505470Y00



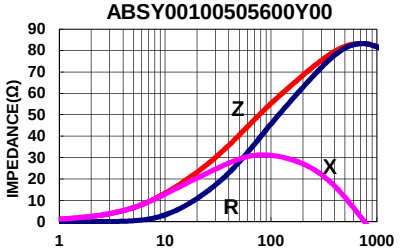
RDC<0.2 Ω Rated Current :500 mA

ABSY00100505500Y00



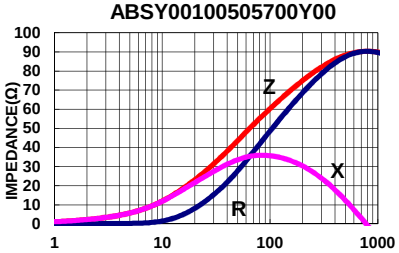
RDC<0.2 Ω Rated Current :500 mA

ABSY00100505600Y00



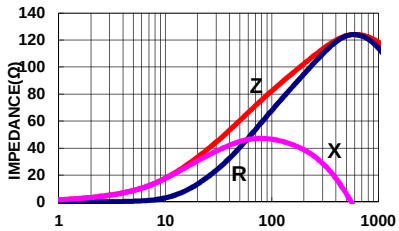
RDC<0.2 Ω Rated Current :500 mA

ABSY00100505700Y00



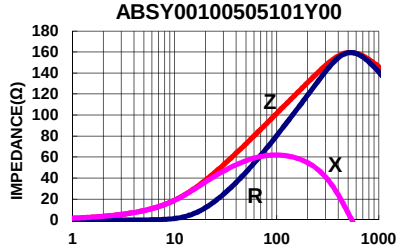
RDC<0.15 Ω Rated Current :600 mA

ABSY00100505800Y00



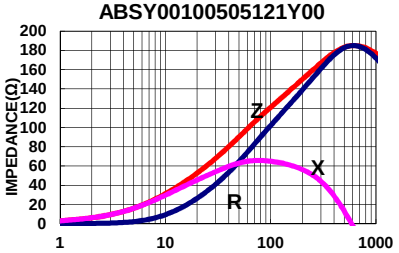
RDC<0.2 Ω Rated Current :500 mA

ABSY00100505101Y00



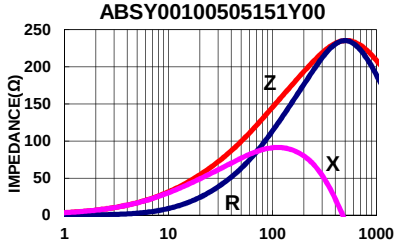
RDC<0.25 Ω Rated Current :500 mA

ABSY00100505121Y00



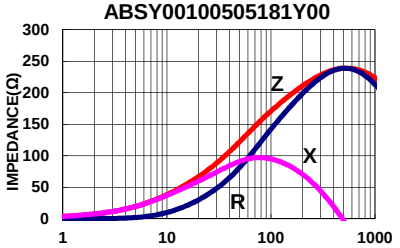
RDC<0.19 Ω Rated Current :550 mA

ABSY00100505151Y00



RDC<0.4Ω Rated Current :400 mA

ABSY00100505181Y00



RDC<0.4 Ω Rated Current :400 mA

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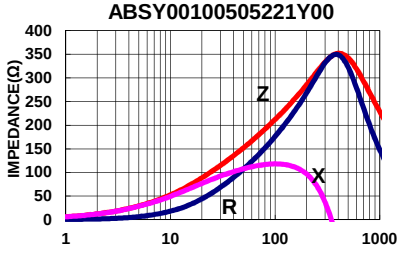
Chip Bead ABSY/ABSK Series

Automotive
AEC-Q200

ABSY00100505 Type

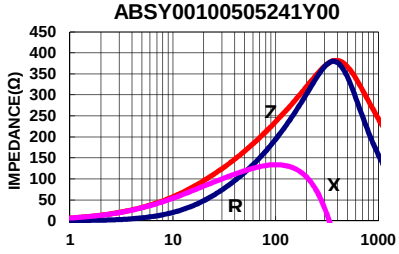
■ Characteristics Graph

ABSY00100505221Y00



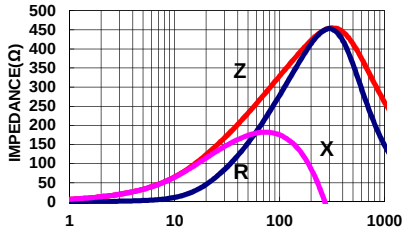
RDC<0.29Ω Rated Current :450 mA

ABSY00100505241Y00



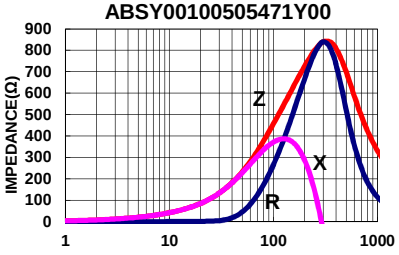
RDC<0.4 Ω Rated Current :400 mA

ABSY00100505301Y00



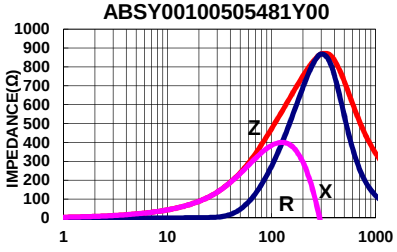
RDC<0.5 Ω Rated Current :300 mA

ABSY00100505471Y00



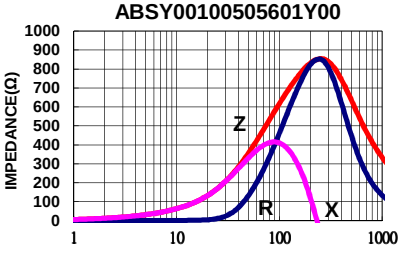
RDC<0.5 Ω Rated Current :300 mA

ABSY00100505481Y00



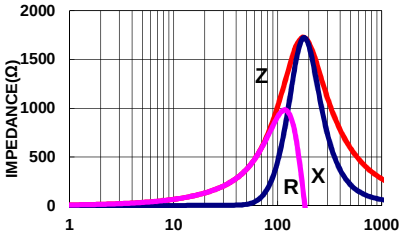
RDC<0.5 Ω Rated Current :300 mA

ABSY00100505601Y00



RDC<0.52 Ω Rated Current :300 mA

ABSY00100505102Y00



RDC<0.65 Ω Rated Current :300 mA

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Pulse a YAGEO company

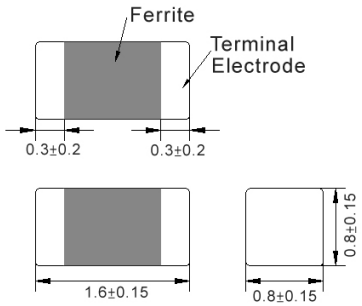
CHILISIN ELECTRONICS CORP.

Chip Bead ABSY/ABBK Series

Automotive
AEC-Q200

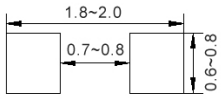
ABBK00160808 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABBK00160808100Y00	10	100 MHz,200 mV	0.05	500
ABBK00160808300Y00	30	100 MHz,200 mV	0.10	400
ABBK00160808600Y00	60	100 MHz,200 mV	0.10	400
ABBK00160808800Y00	80	100 MHz,200 mV	0.15	400
ABBK00160808121Y00	120	100 MHz,200 mV	0.25	400
ABBK00160808181Y00	180	100 MHz,200 mV	0.30	300
ABBK00160808221Y00	220	100 MHz,200 mV	0.30	300
ABBK00160808301Y00	300	100 MHz,200 mV	0.40	300
ABBK00160808471Y00	470	100 MHz,200 mV	0.50	300
ABBK00160808601Y00	600	100 MHz,200 mV	0.50	300
ABBK00160808102Y00	1000	100 MHz,200 mV	0.60	300

Note: When ordering, please specify tolerance code. Tolerance: Y=±25%

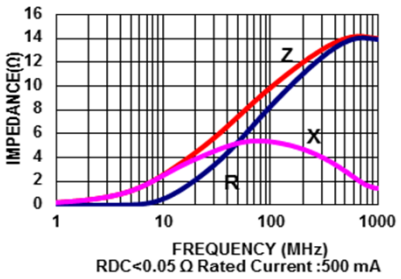
1. Operating temperature range - 55℃ ~ 125℃
2. Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
3. Measure Equipment:
   Z: HP4291A
   RDC: HP4338B or CHEN HWA 502

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.

ABBK00160808 Type

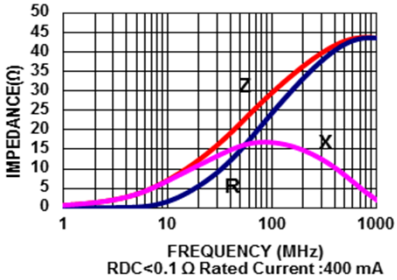
■ Characteristics Graph

ABBK00160808100Y00



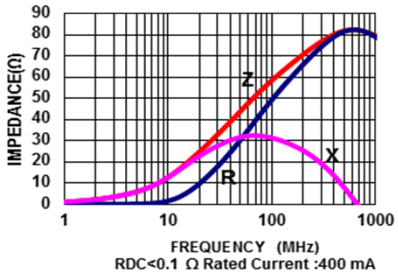
RDC<0.05 Ω Rated Current :500 mA

ABBK00160808300Y00



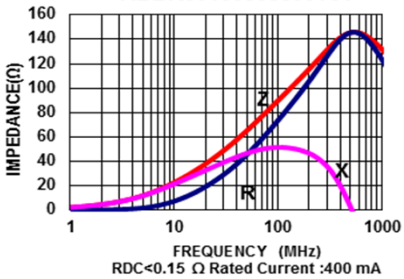
RDC<0.1 Ω Rated Current :400 mA

ABBK00160808600Y00



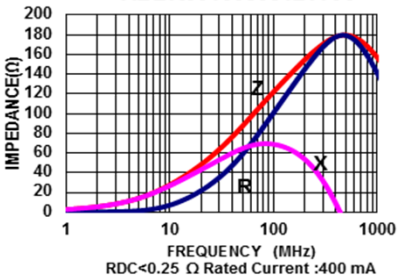
RDC<0.1 Ω Rated Current :400 mA

ABBK00160808800Y00



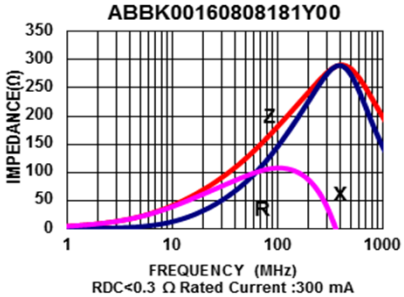
RDC<0.15 Ω Rated Current :400 mA

ABBK00160808121Y00



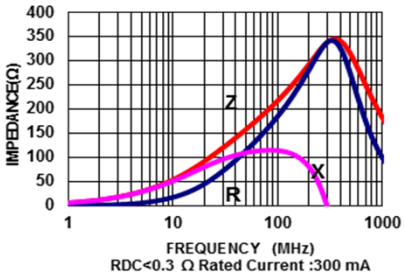
RDC<0.25 Ω Rated Current :400 mA

ABBK00160808181Y00



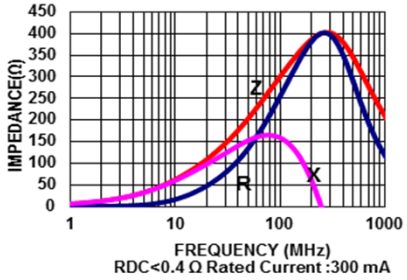
RDC<0.3 Ω Rated Current :300 mA

ABBK00160808221Y00



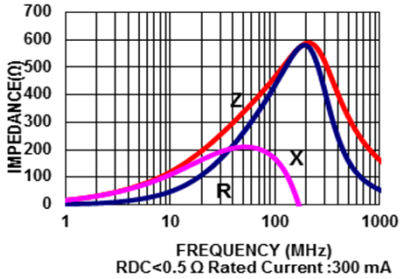
RDC<0.3 Ω Rated Current :300 mA

ABBK00160808301Y00



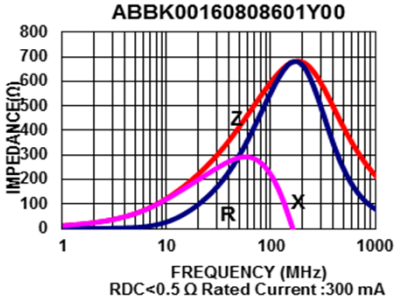
RDC<0.4 Ω Rated Current :300 mA

ABBK00160808471Y00



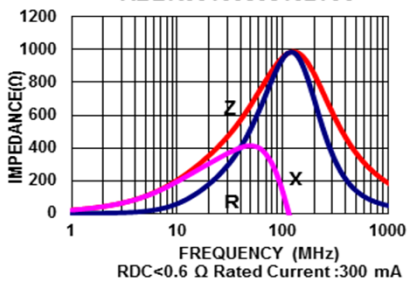
RDC<0.5 Ω Rated Current :300 mA

ABBK00160808601Y00



RDC<0.5 Ω Rated Current :300 mA

ABBK00160808102Y00



RDC<0.6 Ω Rated Current :300 mA

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Pulse a YAGEO company

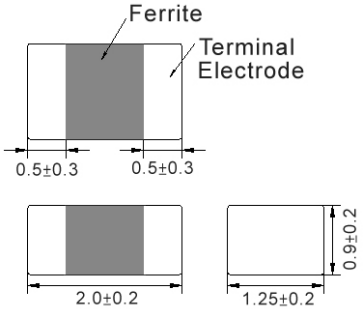
CHILISIN ELECTRONICS CORP.

Chip Bead ABSY/ABBK Series

Automotive AEC-Q200

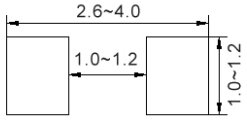
ABBK00201209 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABBK00201209600Y00	60	100 MHz,200 mV	0.15	500
ABBK00201209800Y00	80	100 MHz,200 mV	0.15	500
ABBK00201209121Y00	120	100 MHz,200 mV	0.25	300
ABBK00201209201Y00	200	100 MHz,200 mV	0.30	300
ABBK00201209221Y00	220	100 MHz,200 mV	0.30	300
ABBK00201209301Y00	300	100 MHz,200 mV	0.30	300
ABBK00201209471Y00	470	100 MHz,200 mV	0.40	300
ABBK00201209601Y00	600	100 MHz,200 mV	0.40	300
ABBK00201209102Y00	1000	100 MHz,200 mV	0.50	200

Note: When ordering, please specify tolerance code. Tolerance: Y=±25%

1. Operating temperature range - 55℃ ~ 125℃
2. Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
3. Measure Equipment:
   Z: HP4291A
   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.

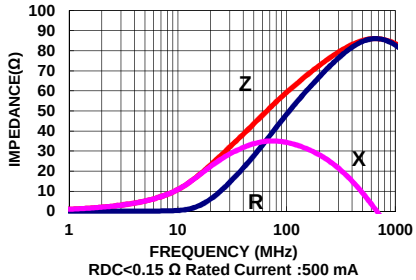
Chip Bead ABSY/ABBK Series

Automotive
AEC-Q200

ABBK00201209 Type

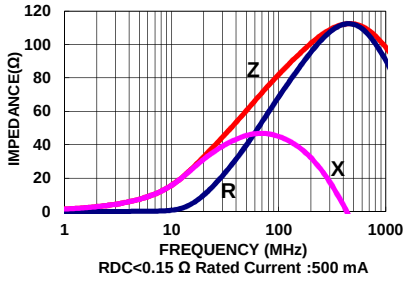
■ Characteristics Graph

ABBK00201209600Y00



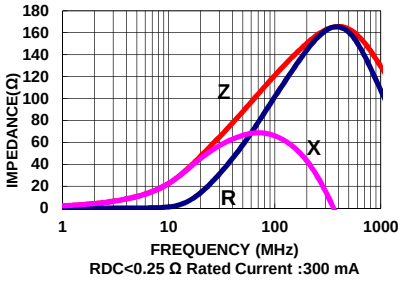
RDC<0.15 Ω Rated Current :500 mA

ABBK00201209800Y00



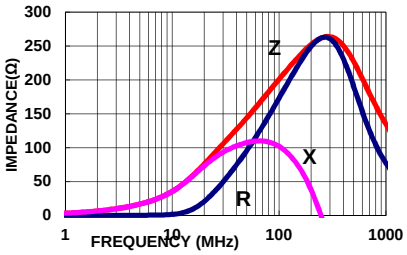
RDC<0.15 Ω Rated Current :500 mA

ABBK00201209121Y00



RDC<0.25 Ω Rated Current :300 mA

ABBK00201209201Y00



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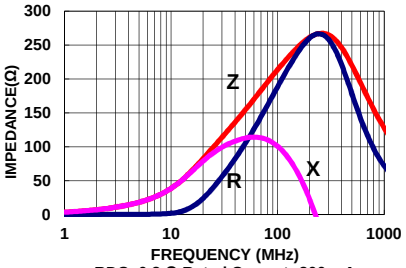
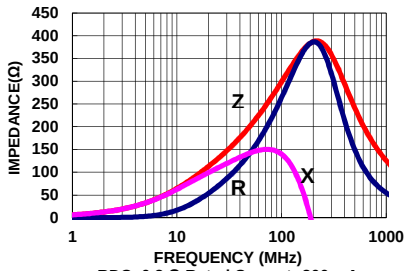


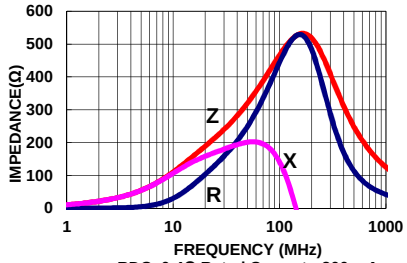
RDC<0.3 Ω Rated Current :300 mA

ABBK00201209301Y00



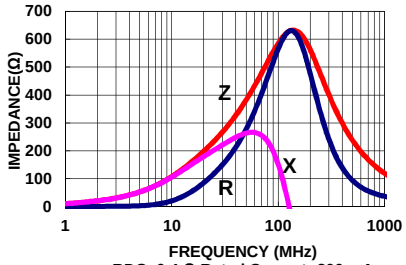
RDC<0.3 Ω Rated Current :300 mA

ABBK00201209471Y00



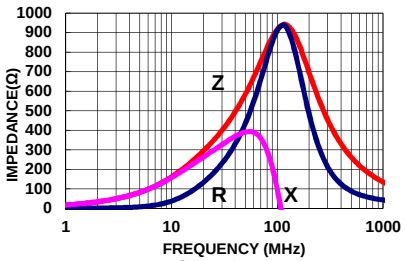
RDC<0.4Ω Rated Current : 300 mA

ABBK00201209601Y00



RDC<0.4 Ω Rated Current :300 mA

ABBK00201209102Y00



RDC<0.5 Ω Rated Current :200 mA

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Pulse a YAGEO company

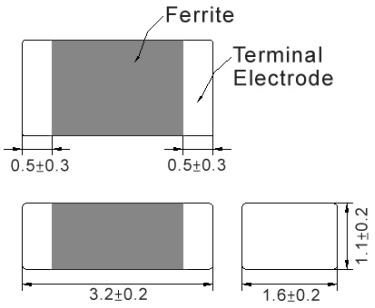
CHILISIN ELECTRONICS CORP.

Chip Bead ABSY/ABBK Series

Automotive
AEC-Q200

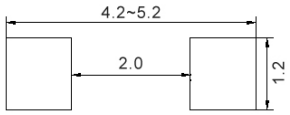
ABBK00321611 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABBK00321611121Y00	120	100 MHz,200 mV	0.15	500
ABBK00321611221Y00	220	100 MHz,200 mV	0.20	400
ABBK00321611301Y00	300	100 MHz,200 mV	0.20	400
ABBK00321611601Y00	600	100 MHz,200 mV	0.30	400

Note: When ordering, please specify tolerance code. Tolerance: Y=±25%

1. Operating temperature range - 55℃ ~ 125℃
2. Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
3. Measure Equipment:
   Z: HP4291A
   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.

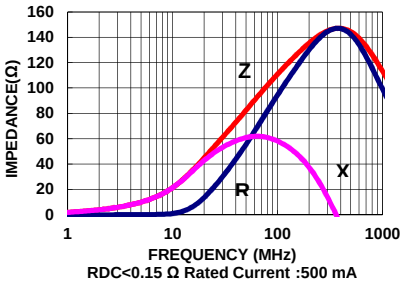
Chip Bead ABSY/ABBK Series

Automotive
AEC-Q200

ABBK00321611 Type

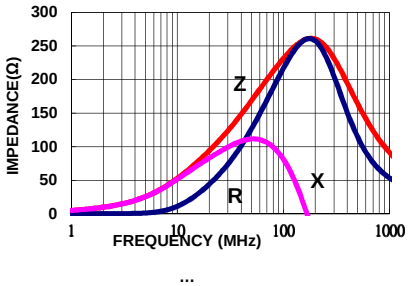
■ Characteristics Graph

ABBK00321611121Y00



RDC<0.15 Ω Rated Current :500 mA

ABBK00321611221Y00



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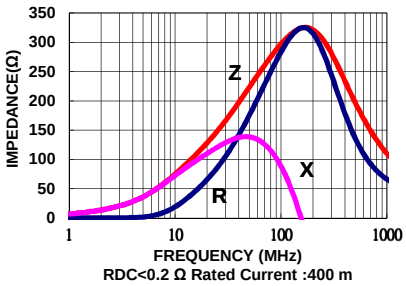
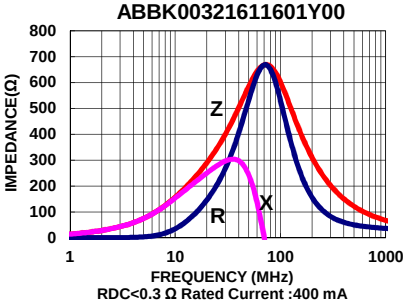
ABBK00321611301Y00



RDC<0.2 Ω Rated Current :400 m

ABBK00321611601Y00



RDC<0.3 Ω Rated Current :400 mA

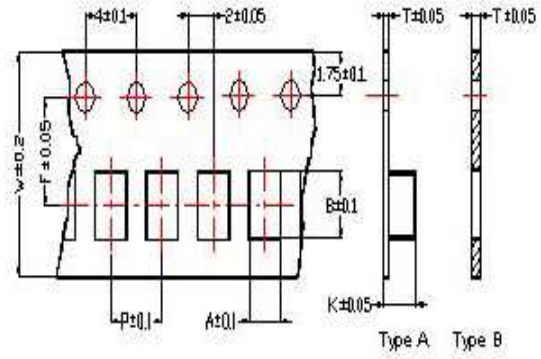
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

Chip Bead ABSY/ABBK Series

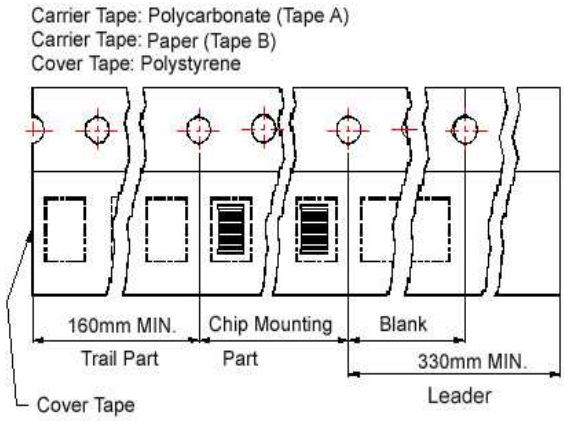
Automotive
AEC-Q200

Packaging

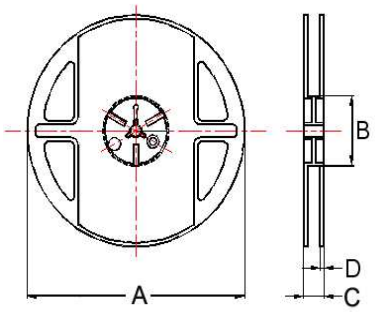
Tape Dimensions



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
ABBY00100505	0.62	1.12	0.60	8	2	3.5	-	B	178	60	12	2	10000
ABBK00160808	1.05	1.85	0.95	8	4	3.5	-	B	178	60	12	2	4000
ABBK00201209	1.50	2.30	0.97	8	4	3.5	-	B	178	60	12	2	4000
ABBK00321611	1.88	3.50	0.22	8	4	3.5	1.27	A	178	60	12	2	3000

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Chip Bead ABGK Series

Automotive
AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Noise Suppression | Shield | Multilayer | Ferrite | Medium Current

Part Numbering

A	BGK	00	160808	121	Y	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Impedance (Ω)	Tolerance	Internal Code
			160808 1.6x0.8x0.8	600 60	Y ±25%	
			201209 2.0x1.25x0.9	121 120		
				102 1000		

This specification applies to Multilayer Chip ferrite Bead for Automotive Electronics based on AEC-Q200 except for Power train and Safety.

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

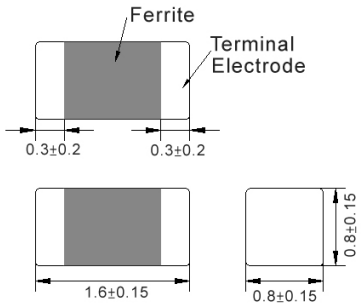
CHILISIN ELECTRONICS CORP.

Chip Bead ABGK Series

Automotive
AEC-Q200

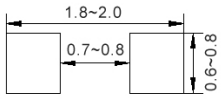
ABGK00160808 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABGK00160808100Y00	10	100 MHz,200 mV	0.03	1000
ABGK00160808300Y00	30	100 MHz,200 mV	0.06	800
ABGK00160808600Y00	60	100 MHz,200 mV	0.06	700
ABGK00160808800Y00	80	100 MHz,200 mV	0.10	600
ABGK00160808121Y00	120	100 MHz,200 mV	0.15	600
ABGK00160808201Y00	200	100 MHz,200 mV	0.18	400
ABGK00160808221Y00	220	100 MHz,200 mV	0.18	550
ABGK00160808301Y00	300	100 MHz,200 mV	0.25	500
ABGK00160808471Y00	470	100 MHz,200 mV	0.30	400
ABGK00160808601Y00	600	100 MHz,200 mV	0.30	400
ABGK00160808102Y00	1000	100 MHz,200 mV	0.45	300

Note: When ordering, please specify tolerance code. Tolerance: Y=±25%

1. Operating temperature range - 55℃ ~ 125℃
2. Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
3. Measure Equipment:
   Z: HP4291A
   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.

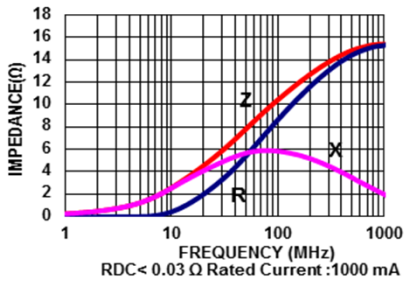
Chip Bead ABGK Series

Automotive
AEC-Q200

ABGK00160808 Type

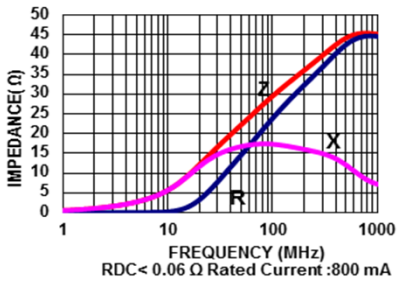
■ Characteristics Graph

ABGK00160808100Y00



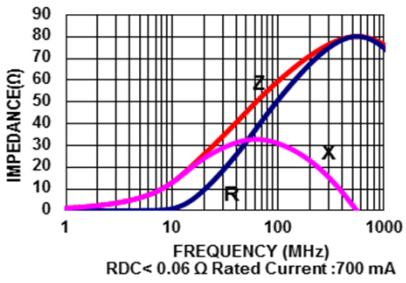
RDC< 0.03 Ω Rated Current :1000 mA

ABGK00160808300Y00



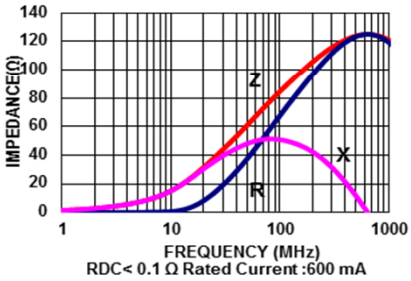
RDC< 0.06 Ω Rated Current :800 mA

ABGK00160808600Y00



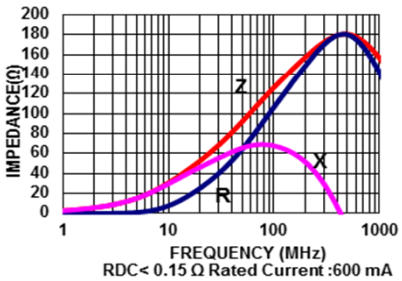
RDC< 0.06 Ω Rated Current :700 mA

ABGK00160808800Y00



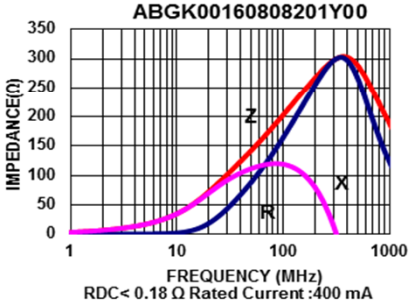
RDC< 0.1 Ω Rated Current :600 mA

ABGK00160808121Y00



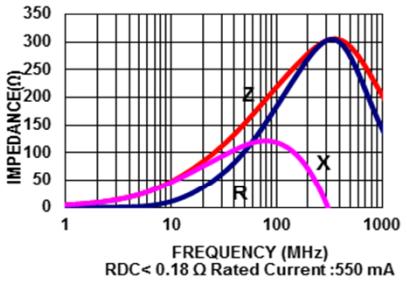
RDC< 0.15 Ω Rated Current :600 mA

ABGK00160808201Y00



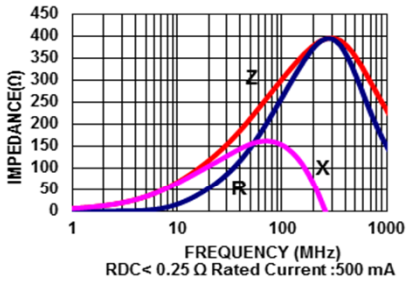
RDC< 0.18 Ω Rated Current :400 mA

ABGK00160808221Y00



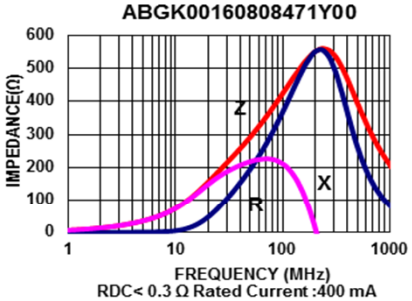
RDC< 0.18 Ω Rated Current :550 mA

ABGK00160808301Y00



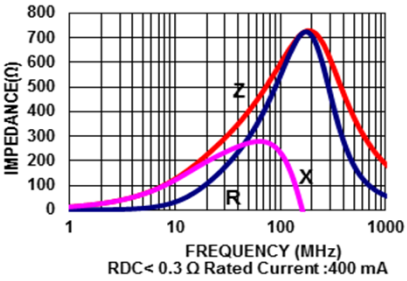
RDC< 0.25 Ω Rated Current :500 mA

ABGK00160808471Y00



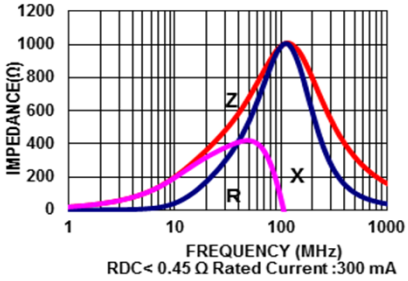
RDC< 0.3 Ω Rated Current :400 mA

ABGK00160808601Y00



RDC< 0.3 Ω Rated Current :400 mA

ABGK00160808102Y00



RDC< 0.45 Ω Rated Current :300 mA

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Pulse a YAGEO company

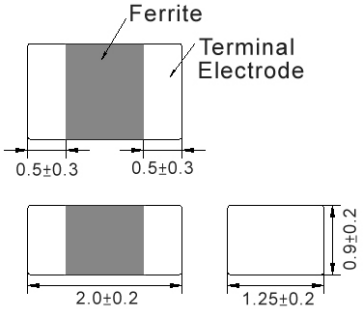
CHILISIN ELECTRONICS CORP.

Chip Bead ABGK Series

Automotive AEC-Q200

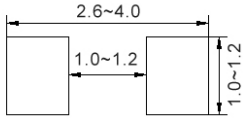
ABGK00201209 Type

Dimensions



unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABGK00201209600Y00	60	100 MHz,200 mV	0.10	900
ABGK00201209800Y00	80	100 MHz,200 mV	0.10	800
ABGK00201209121Y00	120	100 MHz,200 mV	0.15	800
ABGK00201209221Y00	220	100 MHz,200 mV	0.18	750
ABGK00201209301Y00	300	100 MHz,200 mV	0.18	700
ABGK00201209601Y00	600	100 MHz,200 mV	0.25	500
ABGK00201209102Y00	1000	100 MHz,200 mV	0.30	400

Note: When ordering, please specify tolerance code. Tolerance: Y=±25%

1. Operating temperature range - 55℃ ~ 125℃
2. Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
3. Measure Equipment:
   Z: HP4291A
   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.

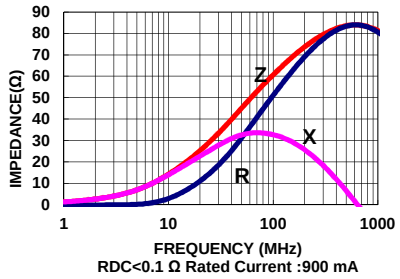
Chip Bead ABGK Series

Automotive
AEC-Q200

ABGK00201209 Type

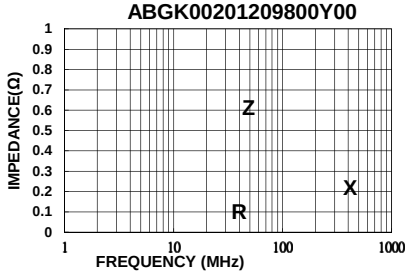
■ Characteristics Graph

ABGK00201209600Y00



RDC<0.1 Ω Rated Current :900 mA

ABGK00201209800Y00



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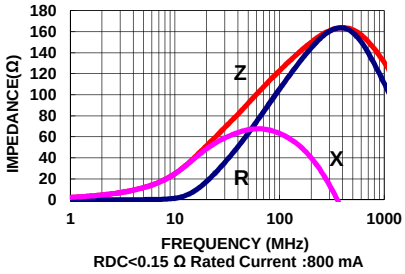
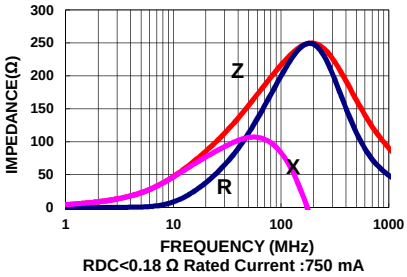
ABGK00201209121Y00



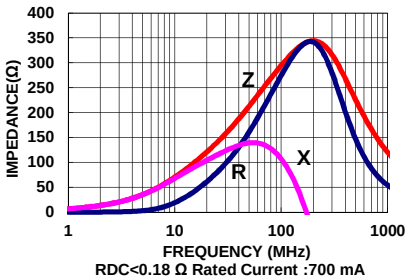
RDC<0.15 Ω Rated Current :800 mA

ABGK00201209221Y00



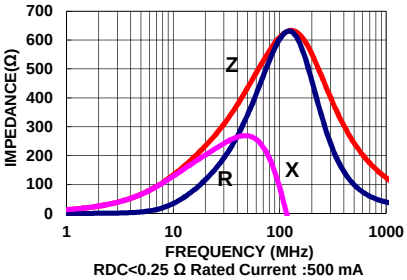
RDC<0.18 Ω Rated Current :750 mA

ABGK00201209301Y00



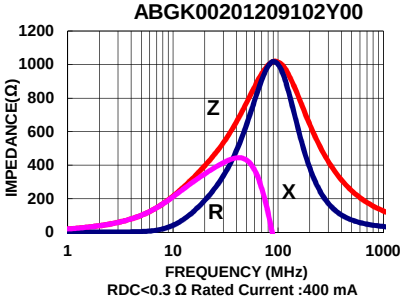
RDC<0.18 Ω Rated Current :700 mA

ABGK00201209601Y00



RDC<0.25 Ω Rated Current :500 mA

ABGK00201209102Y00



RDC<0.3 Ω Rated Current :400 mA

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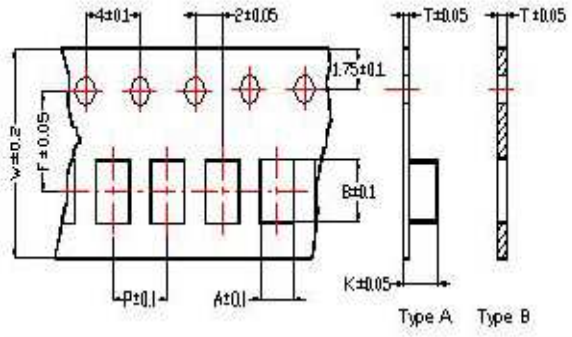
Chip Bead ABGK Series

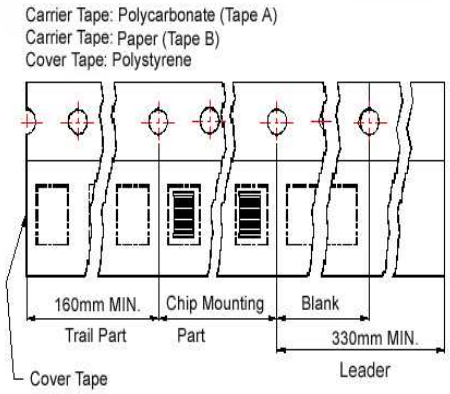
Automotive
AEC-Q200

Packaging

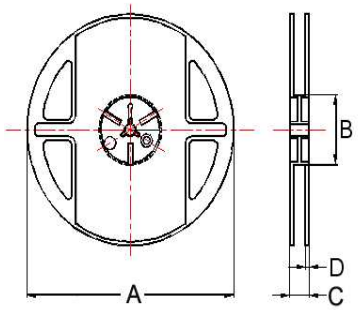
Tape Dimensions



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
ABGK00160808	1.05	1.85	0.95	8	4	3.5	-	B	178	60	12	2	4000
ABGK00201209	1.5	2.30	0.97	8	4	3.5	-	B	178	60	12	2	4000

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.

Chip Bead ABPY Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Noise Suppression | Shield | Multilayer | Ferrite | High Current

■ Part Numbering

A	BPY	00	100505	300	Y	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Impedance (Ω)	Tolerance	Internal Code
			100505 1.0x0.5x0.5	300 30	Y ±25%	
			160808 1.6x0.8x0.8	121 120		
			201209 2.0x1.25x0.9	102 1000		
			321611 3.2x1.6x1.1			

This specification applies to Multilayer Chip ferrite Bead for Automotive Electronics based on AEC-Q200 except for Power train and Safety.

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

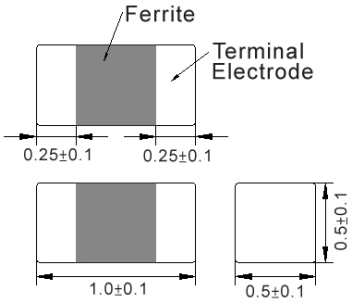
CHILISIN ELECTRONICS CORP.

Chip Bead ABPY Series

Automotive AEC-Q200

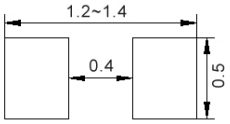
ABPY00100505 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABPY00100505100Y00	10	100 MHz,200 mV	0.030	2000
ABPY00100505300Y00	30	100 MHz,200 mV	0.050	1700
ABPY00100505600Y00	60	100 MHz,200 mV	0.075	1500
ABPY00100505121Y00	120	100 MHz,200 mV	0.090	1400
ABPY00100505181Y00	180	100 MHz,200 mV	0.140	900
ABPY00100505221Y00	220	100 MHz,200 mV	0.180	1100
ABPY00100505601Y00	600	100 MHz,200 mV	0.340	700
ABPY00100505102Y00	1000	100 MHz,200 mV	0.490	500

Note: When ordering, please specify tolerance code. Tolerance: Y=±25%

1. Operating temperature range －55℃～125℃
2. Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
3. Measure Equipment:
   Z: HP4291A
   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.

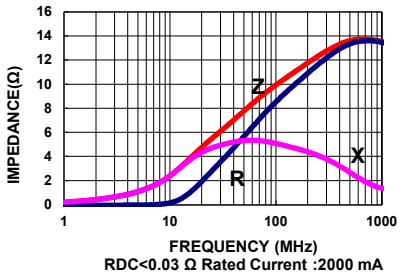
Chip Bead ABPY Series

Automotive
AEC-Q200

ABPY00100505 Type

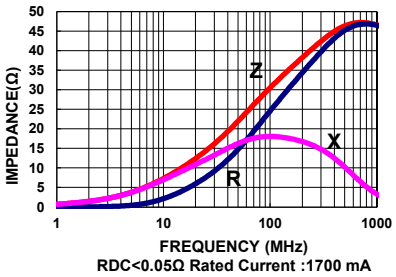
■ Characteristics Graph

ABPY00100505100Y00



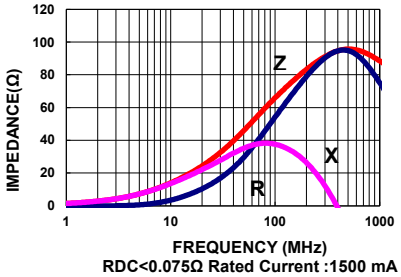
RDC<0.03 Ω Rated Current :2000 mA

ABPY00100505300Y00



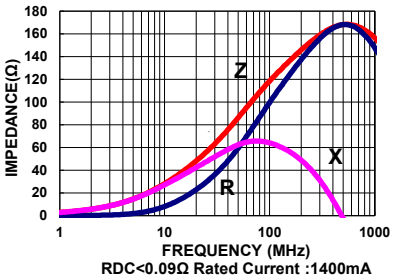
RDC<0.05Ω Rated Current :1700 mA

ABPY00100505600Y00



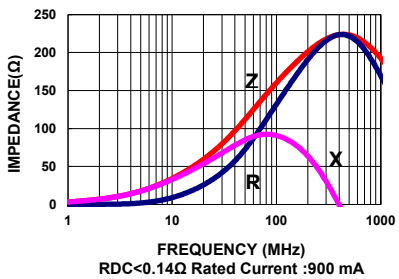
RDC<0.075Ω Rated Current :1500 mA

ABPY00100505121Y00



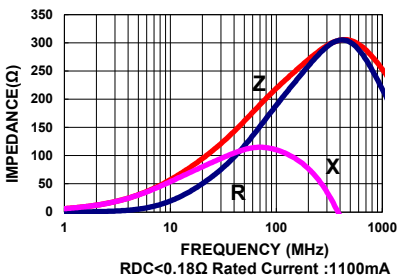
RDC<0.09Ω Rated Current :1400mA

ABPY00100505181Y00



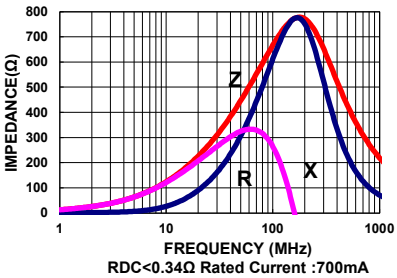
RDC<0.14Ω Rated Current :900 mA

ABPY00100505221Y00



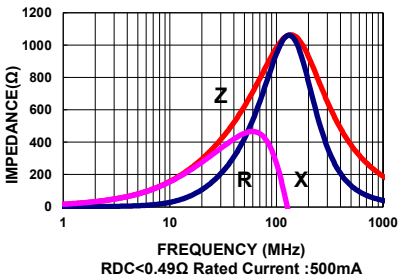
RDC<0.18Ω Rated Current :1100mA

ABPY00100505601Y00



RDC<0.34Ω Rated Current :700mA

ABPY00100505102Y00



RDC<0.49Ω Rated Current :500mA

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

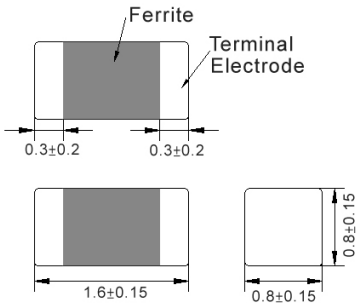
CHILISIN ELECTRONICS CORP.

Chip Bead ABPY Series

Automotive AEC-Q200

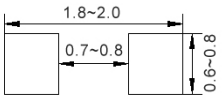
ABPY00160808 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABPY00160808100Y00	10	100 MHz,200 mV	0.020	4000
ABPY00160808300Y00	30	100 MHz,200 mV	0.030	3000
ABPY00160808600Y00	60	100 MHz,200 mV	0.040	3000
ABPY00160808800Y00	80	100 MHz,200 mV	0.050	2500
ABPY00160808121Y00	120	100 MHz,200 mV	0.080	2500
ABPY00160808181Y00	180	100 MHz,200 mV	0.090	2000
ABPY00160808221Y00	220	100 MHz,200 mV	0.100	2000
ABPY00160808301Y00	300	100 MHz,200 mV	0.120	1500
ABPY00160808471Y00	470	100 MHz,200 mV	0.150	1500
ABPY00160808601Y00	600	100 MHz,200 mV	0.200	1000
ABPY00160808102Y00	1000	100 MHz,200 mV	0.250	800

Note: When ordering, please specify tolerance code. Tolerance: Y=±25%

1. Operating temperature range －55℃～125℃
2. Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
3. Measure Equipment:
   Z: HP4291A
   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.

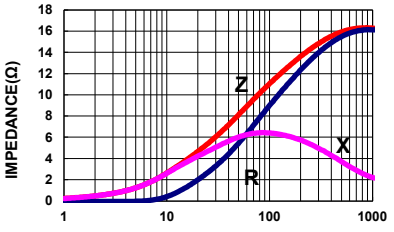
Chip Bead ABPY Series

Automotive
AEC-Q200

ABPY00160808 Type

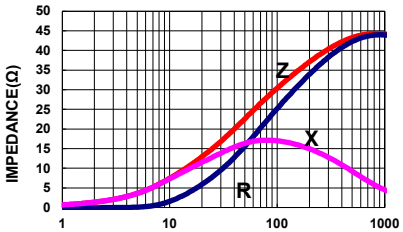
■ Characteristics Graph

ABPY00160808100Y00



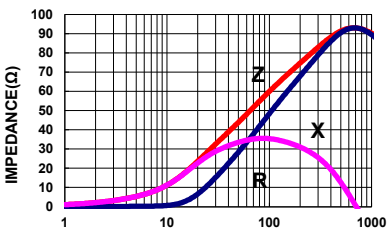
RDC<0.02Ω Rated Current :4000 mA

ABPY00160808300Y00



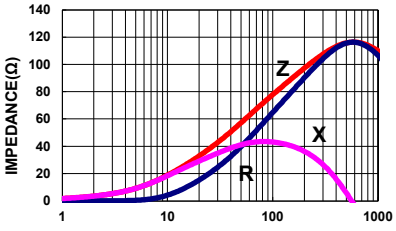
RDC<0.03Ω Rated Current :3000 mA

ABPY00160808600Y00



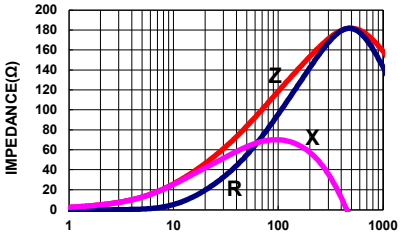
RDC<0.04 Ω Rated Current :3000 mA

ABPY00160808800Y00



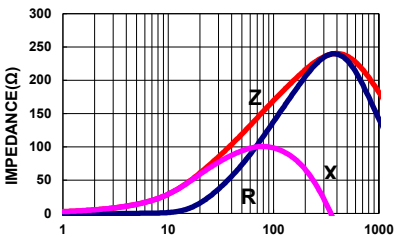
RDC<0.05Ω Rated Current :2500 mA

ABPY00160808121Y00



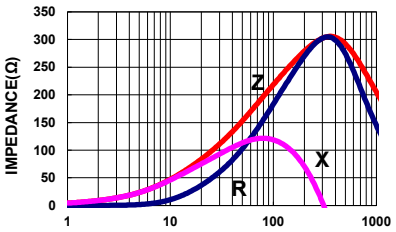
RDC<0.08 Ω Rated Current :2500 mA

ABPY00160808181Y00



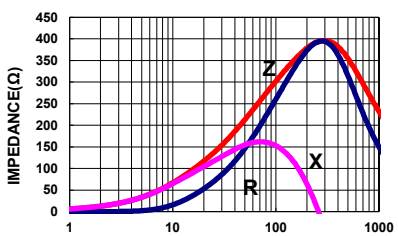
RDC<0.09 Ω Rated Current :2000 mA

ABPY00160808221Y00



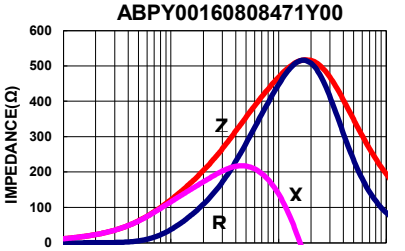
RDC<0.100 Ω Rated Current :2000 mA

ABPY00160808301Y00



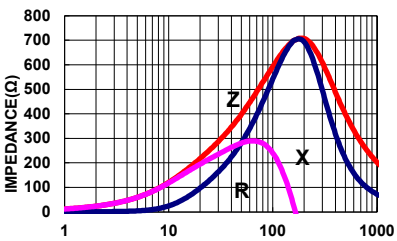
RDC<0.12 Ω Rated Current :1500 mA

ABPY00160808471Y00



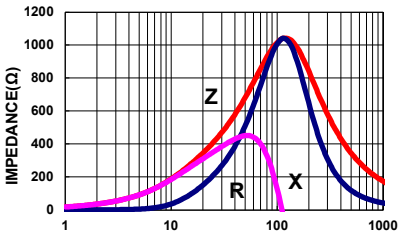
RDC<0.15 Ω Rated Current :1200 mA

ABPY00160808601Y00



RDC<0.2 Ω Rated Current :1000 mA

ABPY00160808102Y00



RDC<0.25 Ω Rated Current :800 mA

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Pulse a YAGEO company

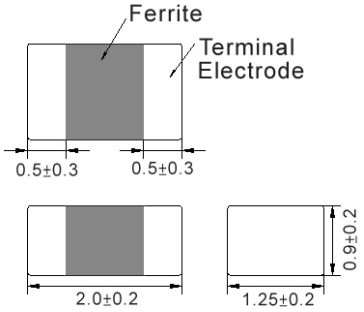
CHILISIN ELECTRONICS CORP.

Chip Bead ABPY Series

Automotive
AEC-Q200

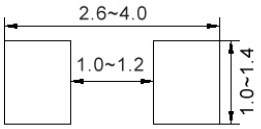
ABPY00201209 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABPY00201209100Y00	10	100 MHz,200 mV	0.010	6000
ABPY00201209300Y00	30	100 MHz,200 mV	0.015	4000
ABPY00201209600Y00	60	100 MHz,200 mV	0.030	3000
ABPY00201209800Y00	80	100 MHz,200 mV	0.040	3000
ABPY00201209121Y00	120	100 MHz,200 mV	0.040	3000
ABPY00201209201Y00	200	100 MHz,200 mV	0.050	2500
ABPY00201209221Y00	220	100 MHz,200 mV	0.080	2000
ABPY00201209301Y00	300	100 MHz,200 mV	0.080	2000
ABPY00201209471Y00	470	100 MHz,200 mV	0.100	2000
ABPY00201209601Y00	600	100 MHz,200 mV	0.100	2000
ABPY00201209102Y00	1000	100 MHz,200 mV	0.120	1500

Note: When ordering, please specify tolerance code. Tolerance: Y=±25% , T=±30%

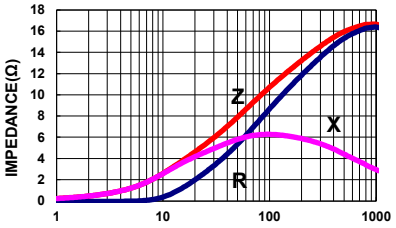
1. Operating temperature range －55℃~125℃
2. Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
3. Measure Equipment:
   Z: HP4291A
   RDC: HP4338B or CHEN HWA 502

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.

ABPY00201209 Type

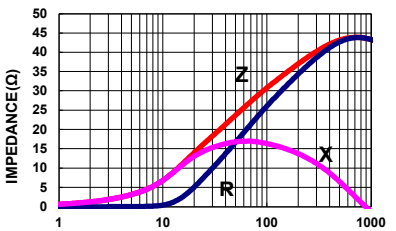
■ Characteristics Graph

ABPY00201209100Y00



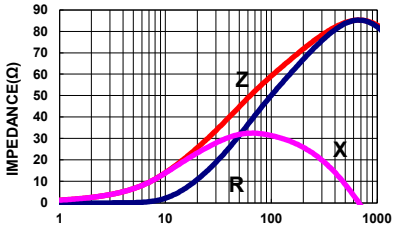
RDC<0.01 Ω Rated Current :6000 mA

ABPY00201209300Y00



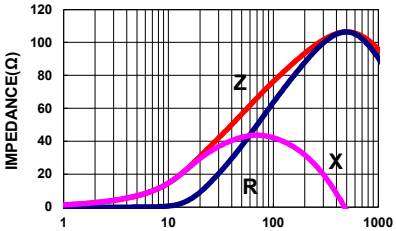
RDC<0.015 Ω Rated Current :4000 mA

ABPY00201209600Y00



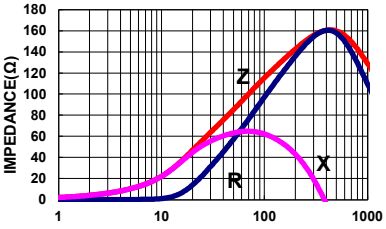
RDC<0.03 Ω Rated Current :3000 mA

ABPY00201209800Y00



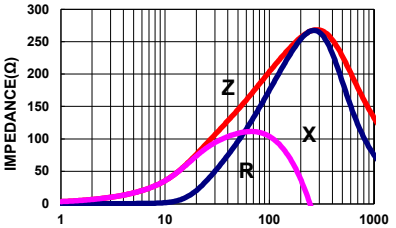
RDC<0.04 Ω Rated Current :3000 mA

ABPY00201209121Y00



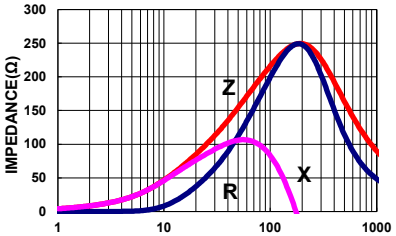
RDC<0.04 Ω Rated Current :3000 mA

ABPY00201209201Y00



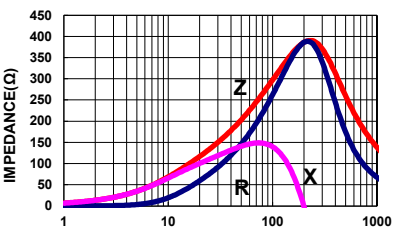
RDC<0.05 Ω Rated Current :2500 mA

ABPY00201209221Y00



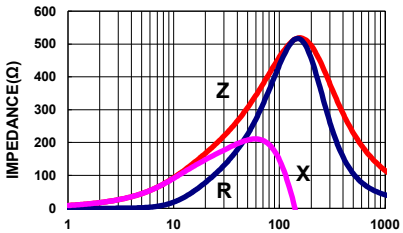
RDC<0.08 Ω Rated Current :2000 mA

ABPY00201209301Y00



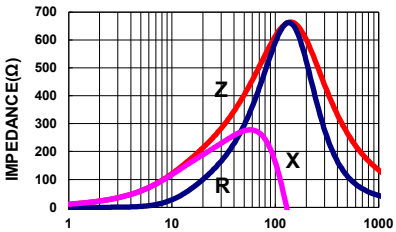
RDC<0.08 Ω Rated Current :2000 mA

ABPY00201209471Y00



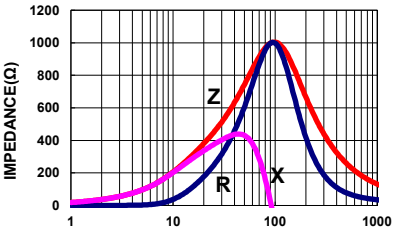
RDC<0.1 Ω Rated Current :2000 mA

ABPY00201209601Y00



RDC<0.1Ω Rated Current :2000 mA

ABPY00201209102Y00



RDC<0.12Ω Rated Current :1500 mA

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Pulse a YAGEO company

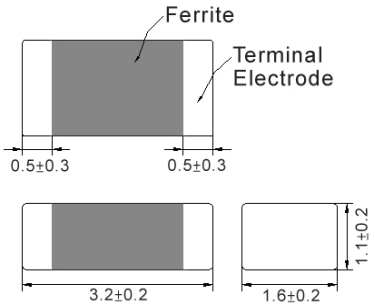
CHILISIN ELECTRONICS CORP.

Chip Bead ABPY Series

Automotive AEC-Q200

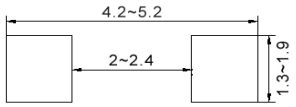
ABPY00321611 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABPY00321611300Y00	30	100 MHz,200 mV	0.015	4000
ABPY00321611500Y00	50	100 MHz,200 mV	0.020	4000
ABPY00321611600Y00	60	100 MHz,200 mV	0.020	4000
ABPY00321611800Y00	80	100 MHz,200 mV	0.025	3000
ABPY00321611101Y00	100	100 MHz,200 mV	0.030	3000
ABPY00321611121Y00	120	100 MHz,200 mV	0.030	3000
ABPY00321611221Y00	220	100 MHz,200 mV	0.050	2000
ABPY00321611301Y00	300	100 MHz,200 mV	0.060	2000
ABPY00321611391Y00	390	100 MHz,200 mV	0.060	2000
ABPY00321611401Y00	400	100 MHz,200 mV	0.100	2000
ABPY00321611471Y00	470	100 MHz,200 mV	0.100	2000
ABPY00321611501Y00	500	100 MHz,200 mV	0.100	2000
ABPY00321611601Y00	600	100 MHz,200 mV	0.100	2000
ABPY00321611102Y00	1000	50MHz,200 Mv	0.150	1200

Note: When ordering, please specify tolerance code. Tolerance: Y=±25%

1. Operating temperature range - 55℃ ~ 125℃
2. Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
3. Measure Equipment:
   Z: HP4291A
   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.

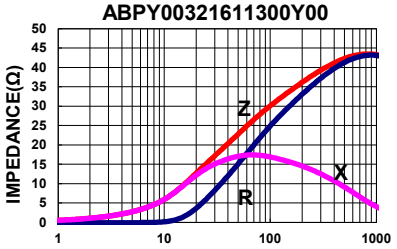
Chip Bead ABPY Series

Automotive
AEC-Q200

ABPY00321611 Type

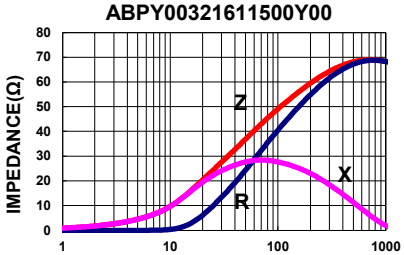
■ Characteristics Graph

ABPY00321611300Y00



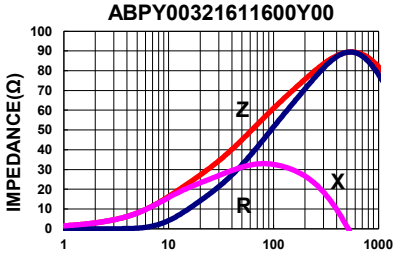
RDC<0.015 Ω Rated Current :4000 mA

ABPY00321611500Y00



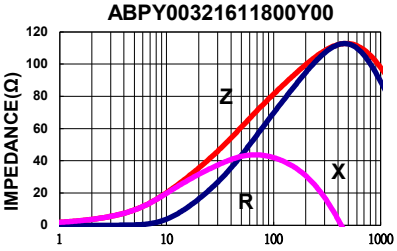
RDC<0.02 Ω Rated Current :4000 mA

ABPY00321611600Y00



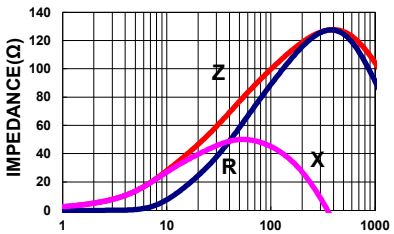
RDC<0.020 Ω Rated Current :4000 mA

ABPY00321611800Y00



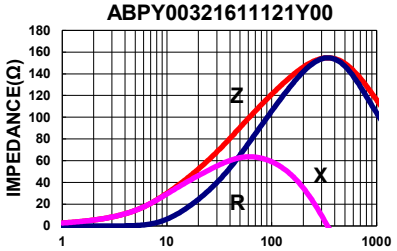
RDC<0.025 Ω Rated Current :3000 mA

ABPY00321611101Y00



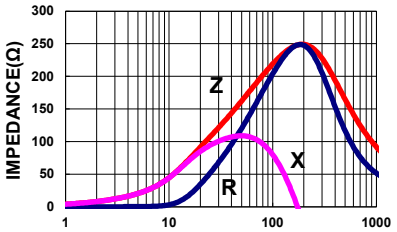
RDC<0.03 Ω Rated Current :3000 mA

ABPY00321611121Y00



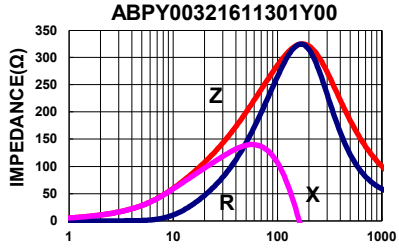
RDC<0.03 Ω Rated Current :3000 mA

ABPY00321611221Y00



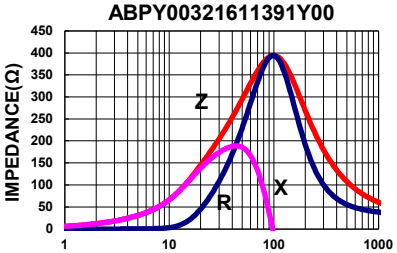
RDC<0.05 Ω Rated Current :2000 mA

ABPY00321611301Y00



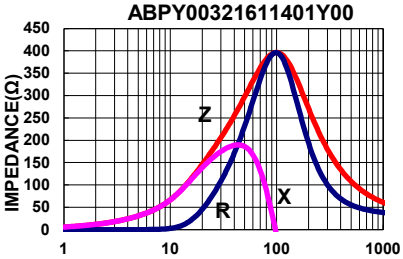
RDC<0.06 Ω Rated Current :2000 mA

ABPY00321611391Y00



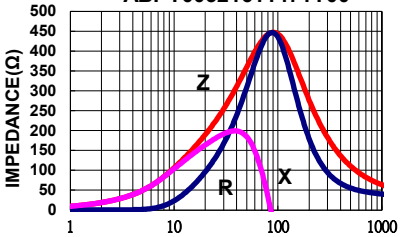
RDC<0.06 Ω Rated Current :2000 mA

ABPY00321611401Y00



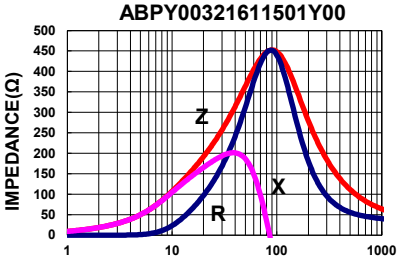
RDC<0.1 Ω Rated Current :2000 mA

ABPY00321611471Y00



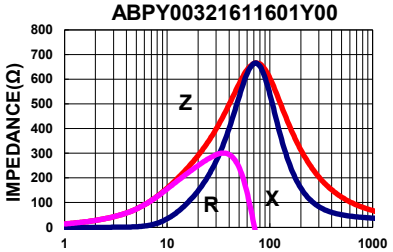
RDC<0.1 Ω Rated Current :2000 mA

ABPY00321611501Y00



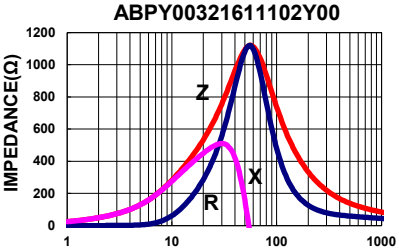
RDC<0.10 Ω Rated Current :2000 mA

ABPY00321611601Y00



RDC<0.1 Ω Rated Current :2000 mA

ABPY00321611102Y00



RDC<0.15 Ω Rated Current :1200 mA

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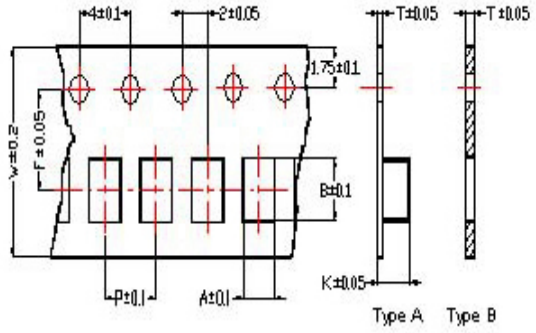
Chip Bead ABPY Series

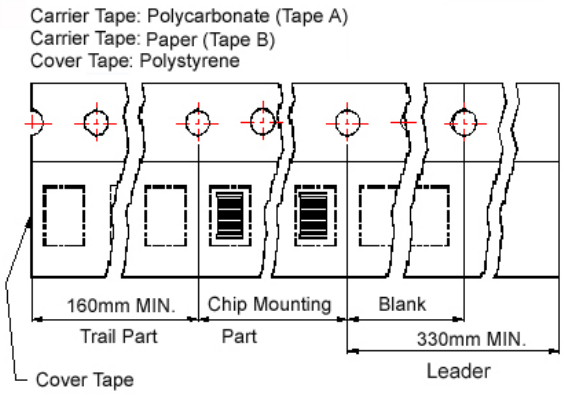
Automotive
AEC-Q200

Packaging

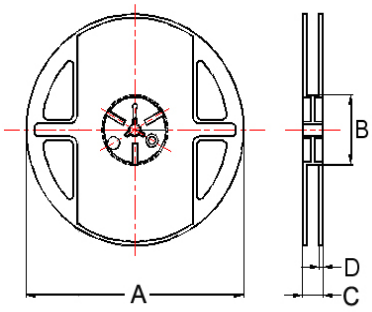
Tape Dimensions



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
ABPY00100505	0.62	1.12	0.60	8	2	3.5	-	B	178	60	12	2	10000
ABPY00160808	1.05	1.85	0.95	8	4	3.5	-	B	178	60	12	2	4000
ABPY00201209	1.50	2.30	0.97	8	4	3.5	-	B	178	60	12	2	4000
ABPY00321611	1.88	3.50	0.22	8	4	3.5	1.27	A	178	60	12	2	3000

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Chip Bead ABUP Series

Automotive
AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Noise Suppression | Shield | Multilayer | Ferrite | High Current

Part Numbering

A	BUP	00	160808	600	Y	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Impedance (Ω)	Tolerance	Internal Code
			100505 1.0x0.5x0.5	300 30	Y ±25%	
			160808 1.6x0.8x0.8	800 80		
			201209 2.0x1.25x0.9	121 120		
			321611 3.2x1.6x1.1			

This specification applies to Multilayer Chip ferrite Bead for Automotive Electronics based on AEC-Q200 except for Power train and Safety.

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Pulse a YAGEO company

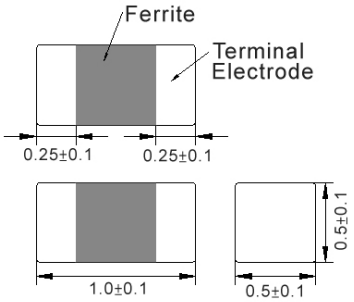
CHILISIN ELECTRONICS CORP.

Chip Bead ABUP Series

Automotive
AEC-Q200

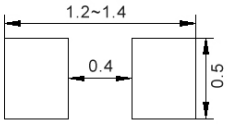
ABUP00100505 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABUP00100505300Y00	30	100 MHz,200 mV	0.022	3000
ABUP00100505330Y00	33	100 MHz,200 mV	0.022	3000
ABUP00100505600Y00	60	100 MHz,200 mV	0.032	2500
ABUP00100505800Y00	80	100 MHz,200 mV	0.038	2300
ABUP00100505121Y00	120	100 MHz,200 mV	0.055	2000

Note: When ordering, please specify tolerance code. Tolerance: Y=±25%

1. Operating temperature range - 55℃ ~ 125℃
2. Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
3. Measure Equipment:
   Z: HP4291A
   RDC: HP4338B or CHEN HWA 502

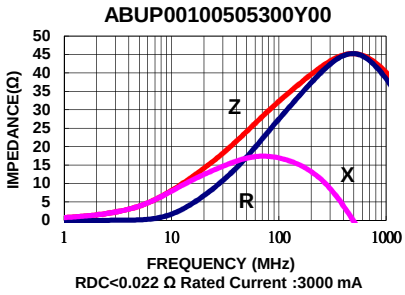
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

Chip Bead ABUP Series

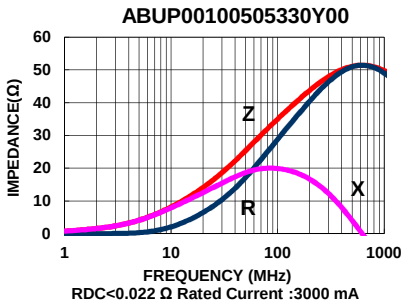
Automotive
AEC-Q200

ABUP00100505 Type

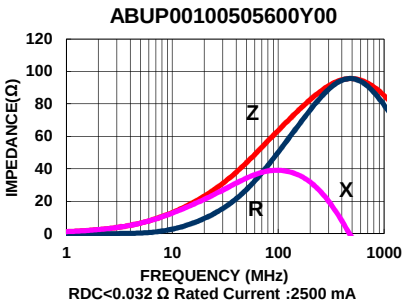
■ Characteristics Graph



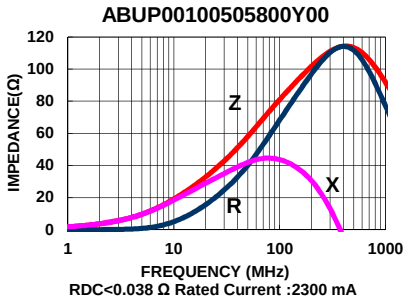
RDC<0.022 Ω Rated Current :3000 mA



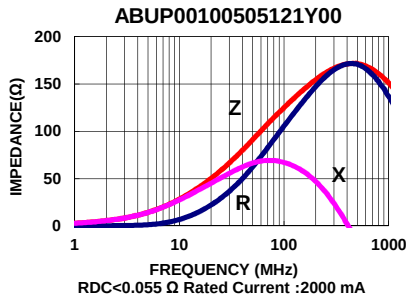
RDC<0.022 Ω Rated Current :3000 mA



RDC<0.032 Ω Rated Current :2500 mA



RDC<0.038 Ω Rated Current :2300 mA



RDC<0.055 Ω Rated Current :2000 mA

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Pulse a YAGEO company

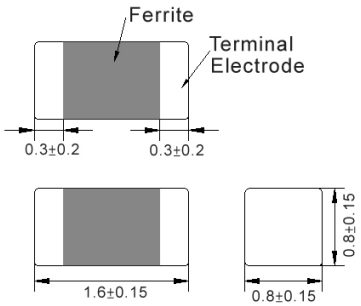
CHILISIN ELECTRONICS CORP.

Chip Bead ABUP Series

Automotive
AEC-Q200

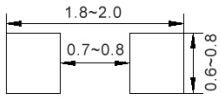
ABUP00160808 Type

Dimensions



unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABUP00160808300Y00	30	100 MHz,200 mV	0.015	4500
ABUP00160808101Y00	100	100 MHz,200 mV	0.030	3000
ABUP00160808121Y00	120	100 MHz,200 mV	0.030	3000
ABUP00160808181Y00	180	100 MHz,200 mV	0.050	2000
ABUP00160808221Y00	220	100 MHz,200 mV	0.040	2500

Note: When ordering, please specify tolerance code. Tolerance: Y=±25%

1. Operating temperature range - 55℃ ~ 125℃
2. Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
3. Measure Equipment:
   Z: HP4291A
   RDC: HP4338B or CHEN HWA 502

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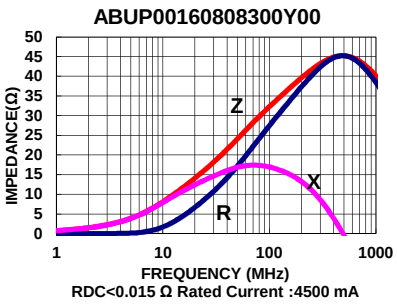
Chip Bead ABUP Series

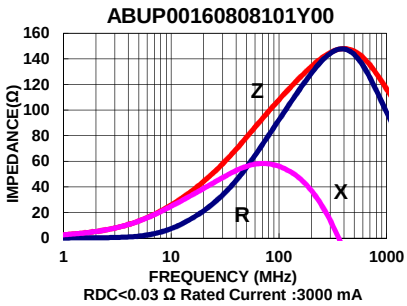
Automotive
AEC-Q200

ABUP00160808 Type

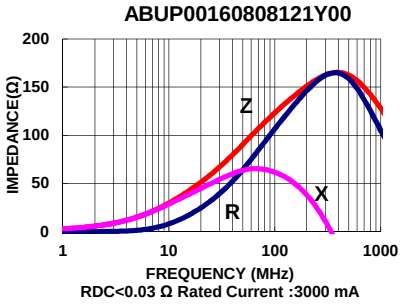
■ Characteristics Graph



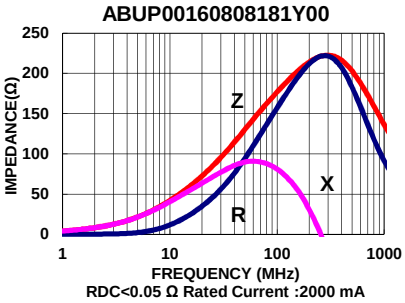
RDC<0.015 Ω Rated Current :4500 mA



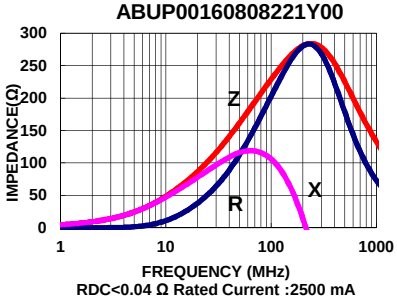
RDC<0.03 Ω Rated Current :3000 mA



RDC<0.03 Ω Rated Current :3000 mA



RDC<0.05 Ω Rated Current :2000 mA



RDC<0.04 Ω Rated Current :2500 mA

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Pulse a YAGEO company

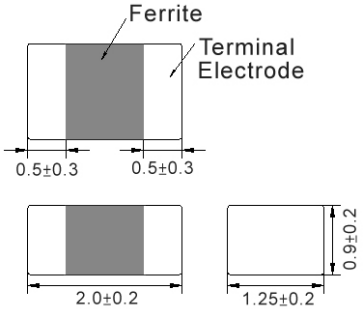
CHILISIN ELECTRONICS CORP.

Chip Bead ABUP Series

Automotive
AEC-Q200

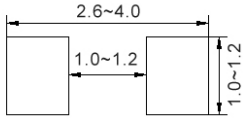
ABUP00201209 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABUP00201209220Y00	22	100 MHz,200 mV	0.012	6000
ABUP00201209300Y00	30	100 MHz,200 mV	0.012	6000
ABUP00201209500Y00	50	100 MHz,200 mV	0.015	6000
ABUP00201209600Y00	60	100 MHz,200 mV	0.018	6000
ABUP00201209800Y00	80	100 MHz,200 mV	0.020	6000
ABUP00201209101Y00	100	100 MHz,200 mV	0.020	5000
ABUP00201209121Y00	120	100 MHz,200 mV	0.020	5000
ABUP00201209201Y00	200	100 MHz,200 mV	0.040	3000
ABUP00201209221Y00	220	100 MHz,200 mV	0.040	3000
ABUP00201209301Y00	300	100 MHz,200 mV	0.050	3000
ABUP00201209331Y00	330	100 MHz,200 mV	0.050	3000

Note: When ordering, please specify tolerance code. Tolerance: Y=±25%

1. Operating temperature range - 55℃ ~ 125℃
2. Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
3. Measure Equipment:
   Z: HP4291A
   RDC: HP4338B or CHEN HWA 502

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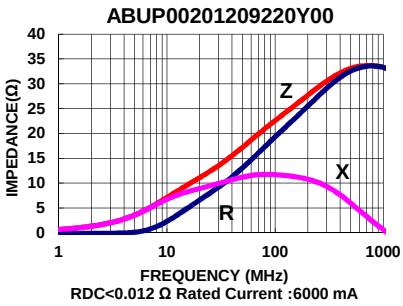
Chip Bead ABUP Series

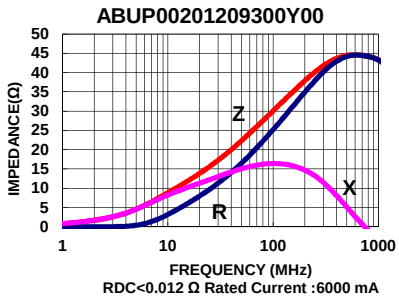
Automotive
AEC-Q200

ABUP00201209 Type

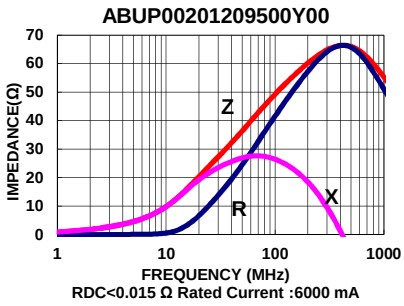
■ Characteristics Graph



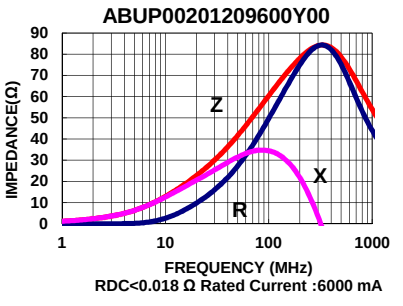
RDC<0.012 Ω Rated Current :6000 mA



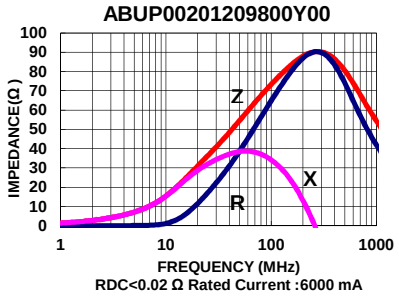
RDC<0.012 Ω Rated Current :6000 mA



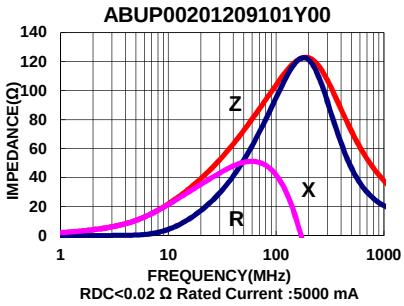
RDC<0.015 Ω Rated Current :6000 mA



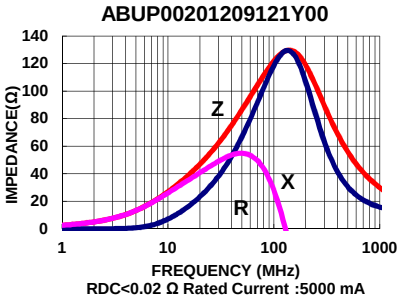
RDC<0.018 Ω Rated Current :6000 mA



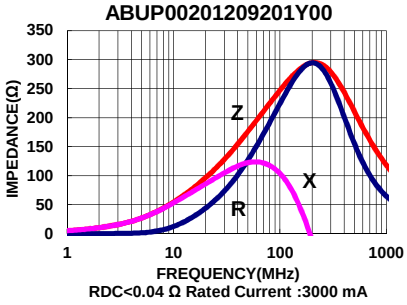
RDC<0.02 Ω Rated Current :6000 mA



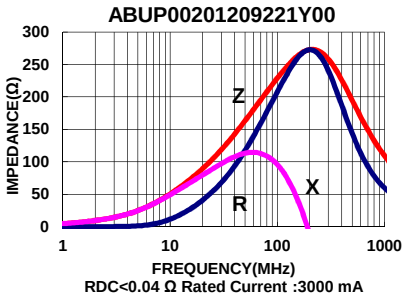
RDC<0.02 Ω Rated Current :5000 mA



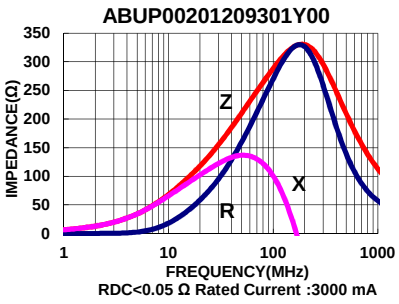
RDC<0.02 Ω Rated Current :5000 mA



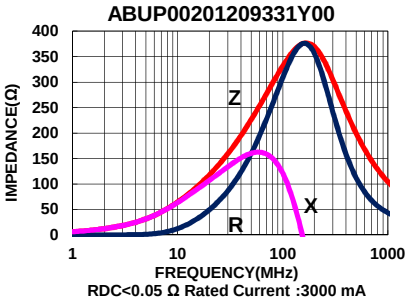
RDC<0.04 Ω Rated Current :3000 mA



RDC<0.04 Ω Rated Current :3000 mA



RDC<0.05 Ω Rated Current :3000 mA



RDC<0.05 Ω Rated Current :3000 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

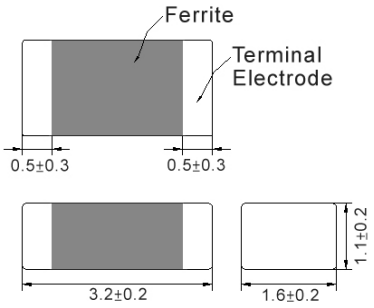
CHILISIN ELECTRONICS CORP.

Chip Bead ABUP Series

Automotive AEC-Q200

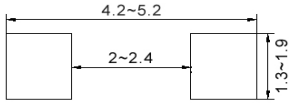
ABUP00321611 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABUP00321611300Y00	30	100 MHz,200 mV	0.012	6000
ABUP00321611600Y00	60	100 MHz,200 mV	0.012	6000
ABUP00321611800Y00	80	100 MHz,200 mV	0.012	6000
ABUP00321611101Y00	100	100 MHz,200 mV	0.012	6000
ABUP00321611121Y00	120	100 MHz,200 mV	0.012	6000
ABUP00321611151Y00	150	100 MHz,200 mV	0.020	4500
ABUP00321611181Y00	180	100 MHz,200 mV	0.020	4500
ABUP00321611221Y00	220	100 MHz,200 mV	0.020	4500

Note: When ordering, please specify tolerance code. Tolerance: Y=±25%

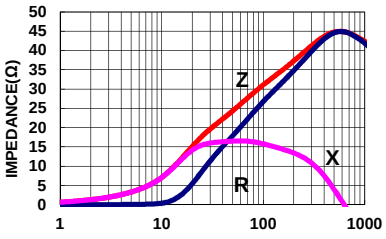
1. Operating temperature range - 55℃ ~ 125℃
2. Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
3. Measure Equipment:
   Z: HP4291A
   RDC: HP4338B or CHEN HWA 502

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.

ABUP00321611 Type

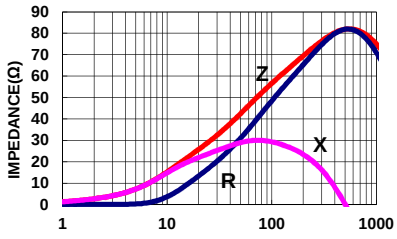
■ Characteristics Graph

ABUP00321611300Y00



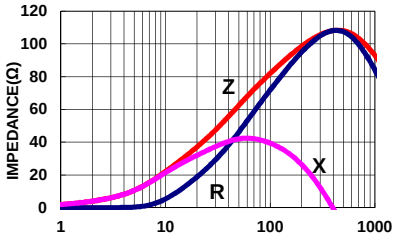
RDC<0.012 Ω Rated Current :6000 mA

ABUP00321611600Y00



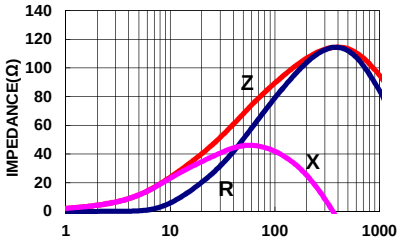
RDC<0.012 Ω Rated Current :6000 mA

ABUP00321611800Y00



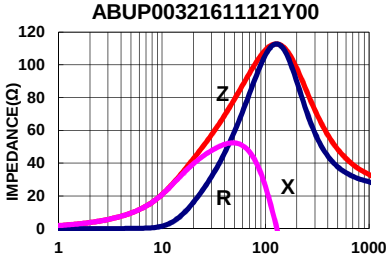
RDC<0.012 Ω Rated Current :6000 mA

ABUP00321611101Y00



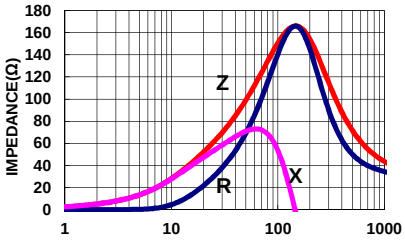
RDC<0.012 Ω Rated Current :6000 mA

ABUP00321611121Y00



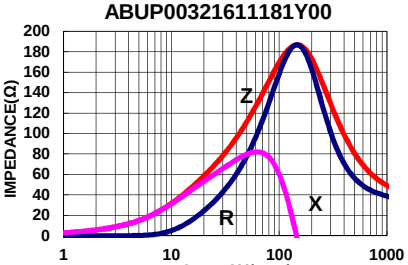
RDC<0.012 Ω Rated Current :6000 mA

ABUP00321611151Y00



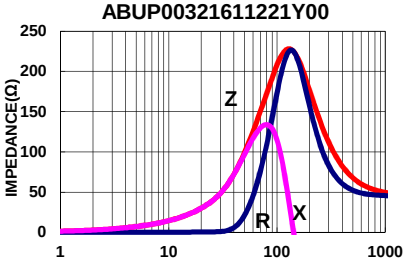
RDC<0.02 Ω Rated Current :4500 mA

ABUP00321611181Y00



RDC<0.02 Ω Rated Current :4500 mA

ABUP00321611221Y00



RDC<0.02 Ω Rated Current :4500 mA

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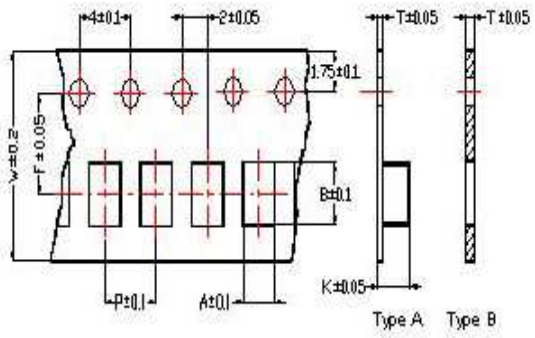
Chip Bead ABUP Series

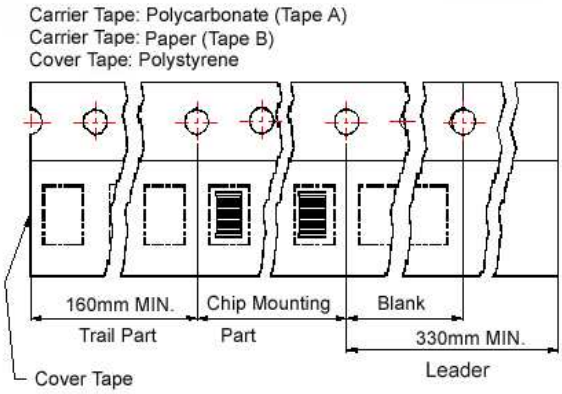
Automotive
AEC-Q200

Packaging

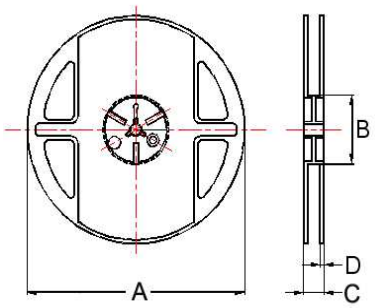
Tape Dimensions



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
ABUP00100505	0.62	1.12	0.60	8	2	3.5	-	B	178	60	12	2	10000
ABUP00160808	1.05	1.85	0.95	8	4	3.5	-	B	178	60	12	2	4000
ABUP00201209	1.50	2.30	0.97	8	4	3.5	-	B	178	60	12	2	4000
ABUP00321611	1.88	3.50	0.22	8	4	3.5	1.27	A	178	60	12	2	3000

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Chip Bead ABHV Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Noise Suppression | Shield | Multilayer | Ferrite | High Current

■ Part Numbering

A	BHV	00	100505	121	Y	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Impedance (Ω)	Tolerance	Internal Code
			160808 1.6x0.8x0.8	121 120 601 600	Y ±25%	

This specification applies to Multilayer Chip ferrite Bead for Automotive Electronics based on AEC-Q200 except for Power train and Safety.

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

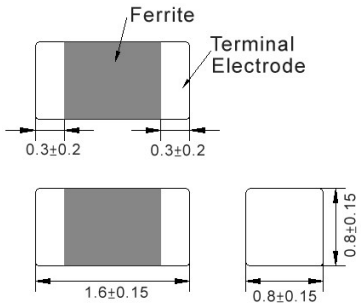
CHILISIN ELECTRONICS CORP.

Chip Bead ABHV Series

Automotive
AEC-Q200

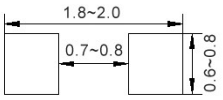
ABPY00160808 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABHV00160808121Y00	120	100 MHz,200 mV	0.040	3000
ABHV00160808601Y00	600	100 MHz,200 mV	0.100	2000

Note: When ordering, please specify tolerance code. Tolerance: Y=±25%

1. Operating temperature range －55℃～125℃
2. Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
3. Measure Equipment:
   Z: HP4291A
   RDC: HP4338B or CHEN HWA 502

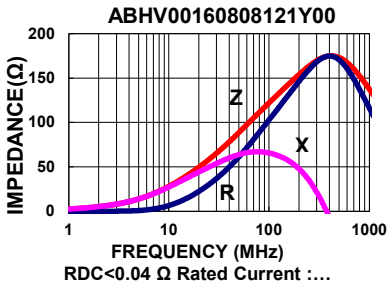
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

Chip Bead ABHV Series

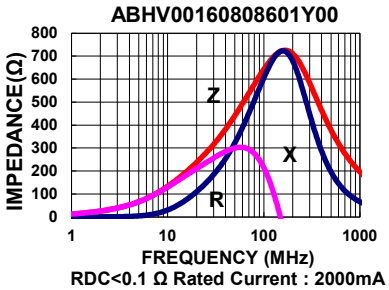
Automotive
AEC-Q200

ABHV00160808 Type

■ Characteristics Graph



RDC<0.04 Ω Rated Current :...



RDC<0.1 Ω Rated Current : 2000mA

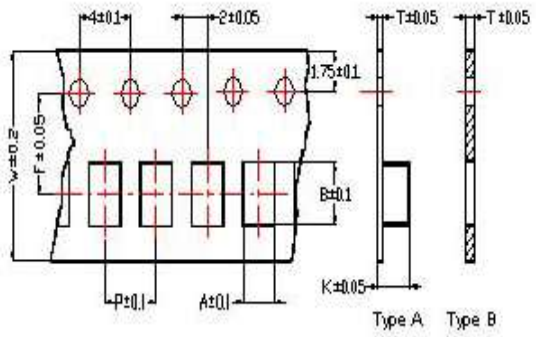
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

Chip Bead ABHV Series

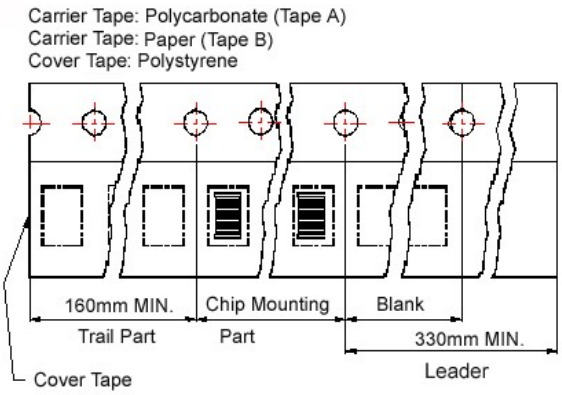
Automotive
AEC-Q200

Packaging

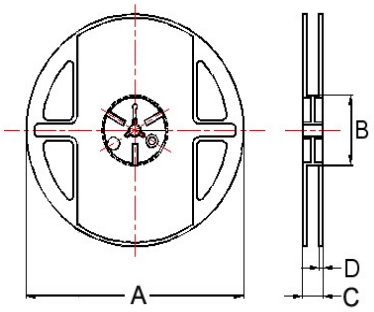
Tape Dimensions



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
ABHV00160808	1.05	1.85	0.95	8	4	3.5	-	B	178	60	12	2	4000

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.

Chip Bead ABNQ Series

Automotive
AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Noise Suppression | Shield | Multilayer | Ferrite | High speed Signal line

Part Numbering

A	BNQ	00	100505	121	Y	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Impedance (Ω)	Tolerance	Internal Code
			100505 1.0x0.5x0.5	600 60	Y ±25%	
			160808 1.6x0.8x0.8	121 120		
				102 1000		

This specification applies to Multilayer Chip ferrite Bead for Automotive Electronics based on AEC-Q200 except for Power train and Safety.

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Pulse a YAGEO company

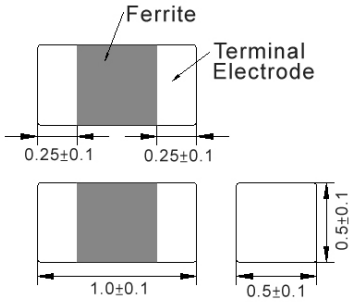
CHILISIN ELECTRONICS CORP.

Chip Bead ABNQ Series

Automotive AEC-Q200

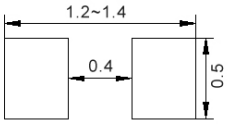
ABNQ00100505 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABNQ00100505100Y00	10	100 MHz,200 mV	0.10	500
ABNQ00100505470Y00	47	100 MHz,200 mV	0.30	400
ABNQ00100505750Y00	75	100 MHz,200 mV	0.30	400
ABNQ00100505121Y00	120	100 MHz,200 mV	0.40	350
ABNQ00100505221Y00	220	100 MHz,200 mV	0.60	200
ABNQ00100505601Y00	600	100 MHz,200 mV	1.20	200

Note: When ordering, please specify tolerance code. Tolerance: Y=±25%

1. Operating temperature range - 55℃ ~ 125℃
2. Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
3. Measure Equipment:
   Z: HP4291A
   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.

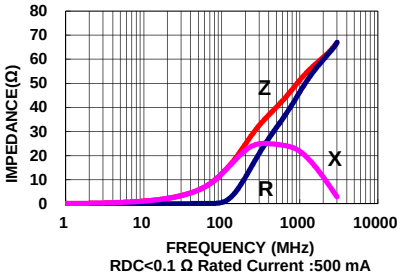
Chip Bead ABNQ Series

Automotive
AEC-Q200

ABNQ00100505 Type

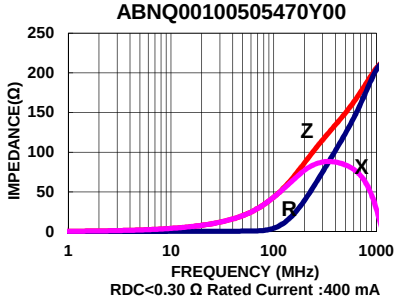
■ Characteristics Graph

ABNQ00100505100Y00



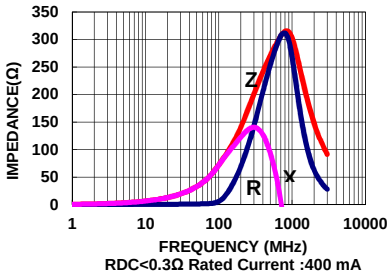
RDC<0.1 Ω Rated Current :500 mA

ABNQ00100505470Y00



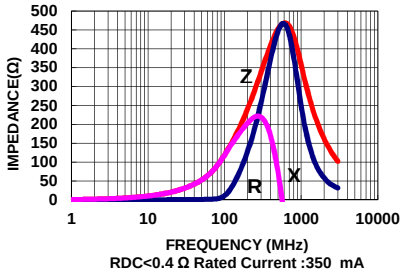
RDC<0.30 Ω Rated Current :400 mA

ABNQ00100505750Y00



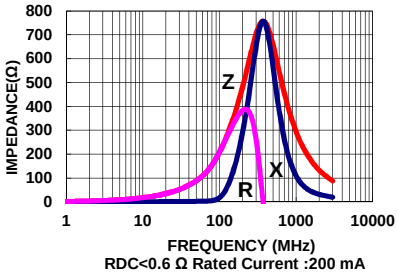
RDC<0.3Ω Rated Current :400 mA

ABNQ00100505121Y00



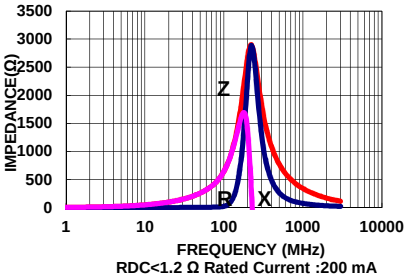
RDC<0.4 Ω Rated Current :350 mA

ABNQ00100505221Y00



RDC<0.6 Ω Rated Current :200 mA

ABNQ00100505601Y00



RDC<1.2 Ω Rated Current :200 mA

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Pulse a YAGEO company

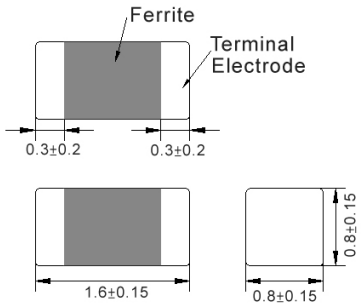
CHILISIN ELECTRONICS CORP.

Chip Bead ABNQ Series

Automotive AEC-Q200

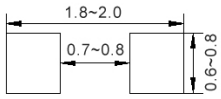
ABNQ00160808 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABNQ00160808600Y00	60	100 MHz,200 mV	0.25	500
ABNQ00160808121Y00	120	100 MHz,200 mV	0.30	400
ABNQ00160808221Y00	220	100 MHz,200 mV	0.35	400
ABNQ00160808301Y00	300	100 MHz,200 mV	0.40	400
ABNQ00160808601Y00	600	100 MHz,200 mV	0.50	200
ABNQ00160808102Y00	1000	100 MHz,200 mV	0.60	200

Note: When ordering, please specify tolerance code. Tolerance: Y=±25%

1. Operating temperature range - 55℃ ~ 125℃
2. Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
3. Measure Equipment:
   Z: HP4291A
   RDC: HP4338B or CHEN HWA 502

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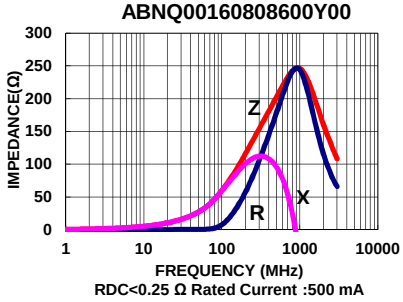
Chip Bead ABNQ Series

Automotive
AEC-Q200

ABNQ00160808 Type

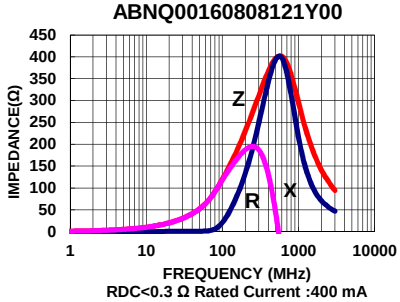
■ Characteristics Graph

ABNQ00160808600Y00



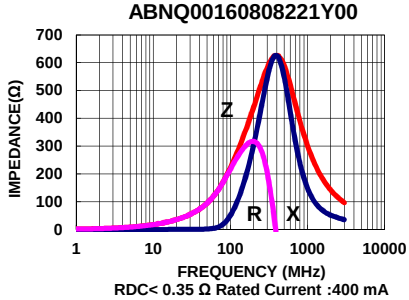
RDC<0.25 Ω Rated Current :500 mA

ABNQ00160808121Y00



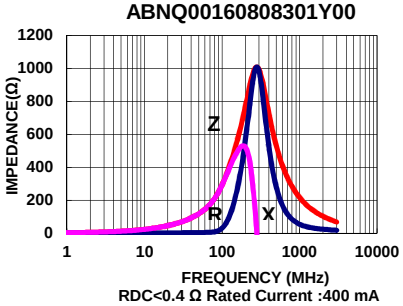
RDC<0.3 Ω Rated Current :400 mA

ABNQ00160808221Y00



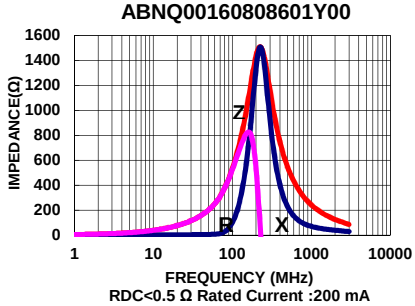
RDC< 0.35 Ω Rated Current :400 mA

ABNQ00160808301Y00



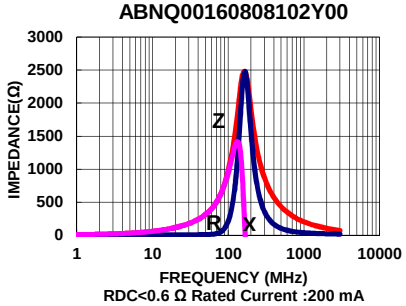
RDC<0.4 Ω Rated Current :400 mA

ABNQ00160808601Y00



RDC<0.5 Ω Rated Current :200 mA

ABNQ00160808102Y00



RDC<0.6 Ω Rated Current :200 mA

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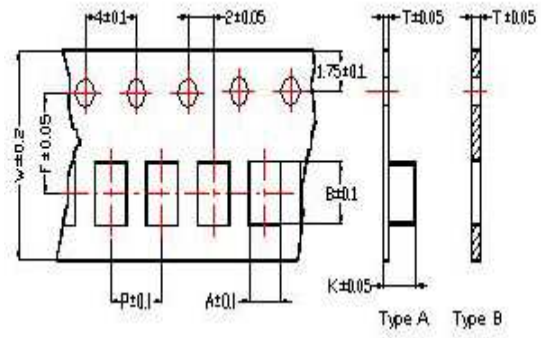
Chip Bead ABNQ Series

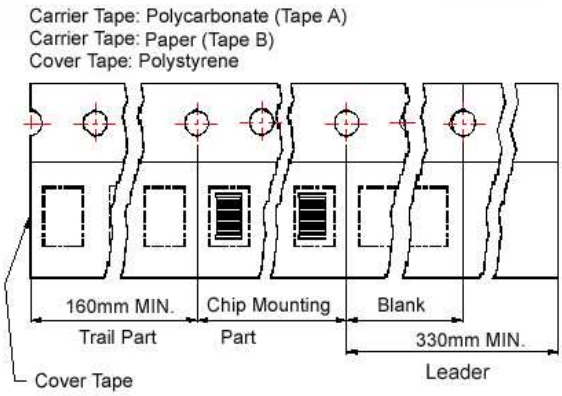
Automotive
AEC-Q200

Packaging

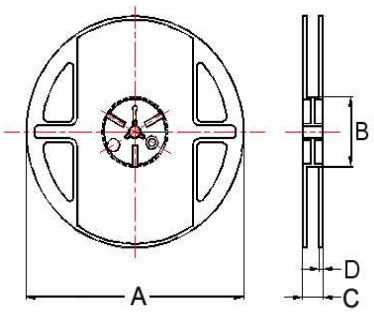
Tape Dimensions



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
ABNQ00100505	0.62	1.12	0.60	8	2	3.5	-	B	178	60	12	2	10000
ABNQ00160808	1.05	1.85	0.95	8	4	3.5	-	B	178	60	12	2	4000

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Commom Mode Choke AWCU Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Noise Suppression | Unshield | Wire Wound | Ferrite | General Signal line

■ Part Numbering

A	WCU	00	201212	300	M	02
Grade	Series Name	Control Code	Dimensions Code (mm)	Impedance (Ω)	Tolerance	Internal Code
			2.05x1.25x1.2	300 30	M ±20%	02 USB2.0
			3.2x1.6x1.9	121 120	Y ±25%	03 USB3.0

A	WCU	00	453226	510	X	G0
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			3.3x2.5x2.3	110 11	T ±30%	G0
			3.3x2.5x2.5	510 51	X -	TE
			4.5x3.2x2.6	101 100		T2
			4.5x3.2x2.8			MF

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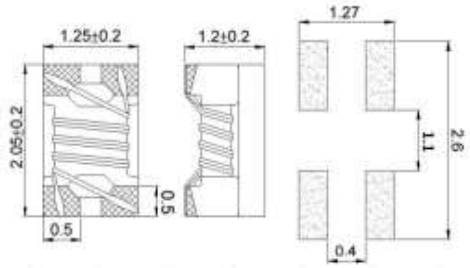
CHILISIN ELECTRONICS CORP.

Commom Mode Choke AWCU Series

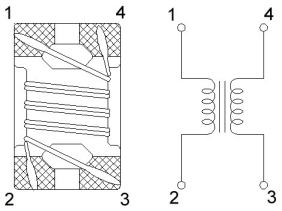
Automotive
AEC-Q200

AWCU00201212-02 Type

■ Dimensions / Recommended Land Pattern



■ NO Polarity Equivalent circuit



unit:mm

■ Electrical Characteristics

Part No.	Impedance (Ω)	Test Freq. (MHz)	RDC (Ω)Max.	IDC (mA)	Rated Voltage (Vdc)Max.	Withstanding Voltage (Vdc)	Insulation Resistance (MΩ)Min.	Tolerance (±%)
AWCU00201212300□02	30	100	0.2	450	50	125	10	20,25
AWCU00201212670□02	67	100	0.25	400	50	125	10	20,25
AWCU00201212750□02	75	100	0.3	360	50	125	10	20,25
AWCU00201212900□02	90	100	0.35	330	50	125	10	20,25
AWCU00201212121□02	120	100	0.3	400	50	125	10	20,25
AWCU00201212161□02	160	100	0.35	350	50	125	10	20,25
AWCU00201212181□02	180	100	0.35	330	50	125	10	20,25
AWCU00201212201□02	200	100	0.35	330	50	125	10	20,25
AWCU00201212221□02	220	100	0.35	310	50	125	10	20,25
AWCU00201212261□02	260	100	0.4	300	50	125	10	20,25
AWCU00201212301□02	300	100	0.4	290	50	125	10	20,25
AWCU00201212361□02	360	100	0.45	280	50	125	10	20,25
AWCU00201212371□02	370	100	0.45	280	50	125	10	20,25
AWCU00201212501□02	500	100	0.55	170	50	125	10	20,25
AWCU00201212671□02	670	100	0.6	140	50	125	10	20,25
AWCU00201212901□02	900	100	0.6	80	50	125	10	20,25

Note: When ordering, please specify tolerance code. Tolerance: M=±20% Y=±25%

1. Operating temperature range －50℃～150℃(Including self - temperature rise)
2. RDC: SINGLE WIRE TEST VALUE
3. IDC for Inductance drop 10% from its value without current.
4. Measure Equipment:
   Z: Agilent HP4287A+Agilent 16197A
   RDC: Chroma 16502 (Single Wire Test Value)
   IDC: HP4284A+HP42841A/HP4285A+HP42841A

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Pulse a YAGEO company

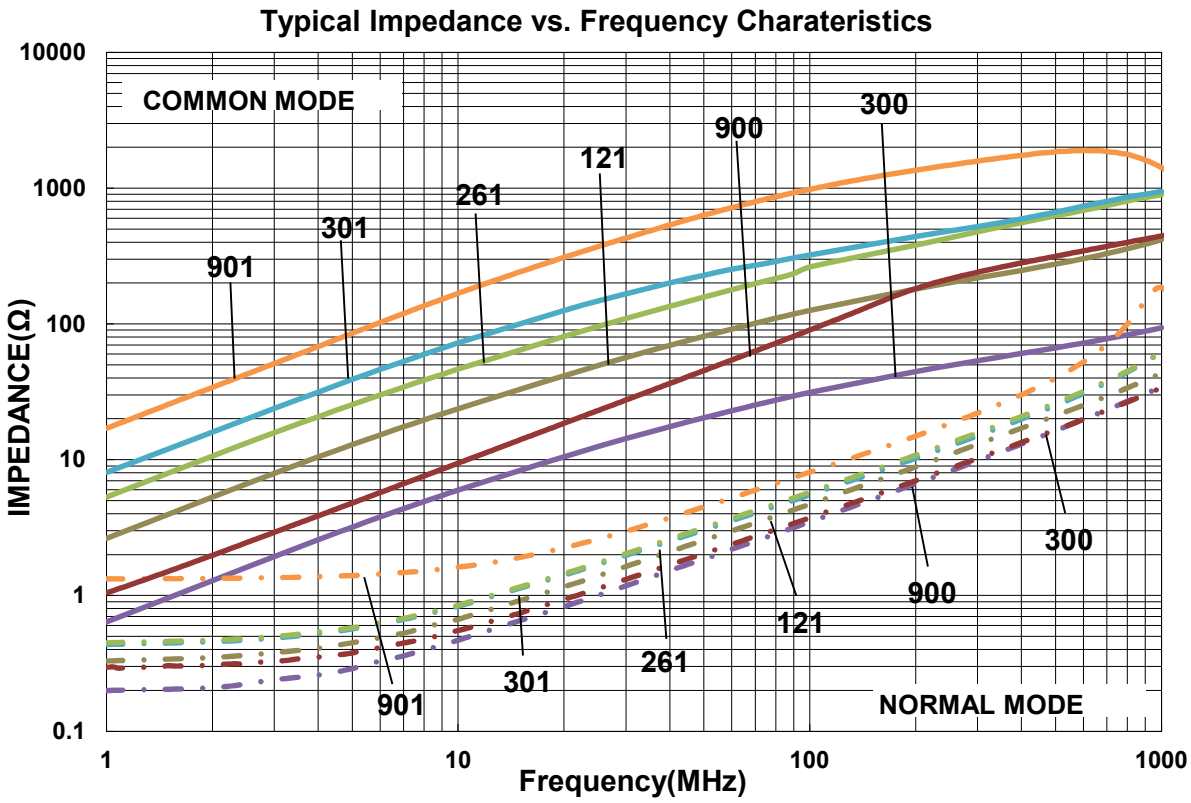
CHILISIN ELECTRONICS CORP.

Commom Mode Choke AWCU Series

Automotive
AEC-Q200

AWCU00201212-02 Type

■ Characteristics Graph



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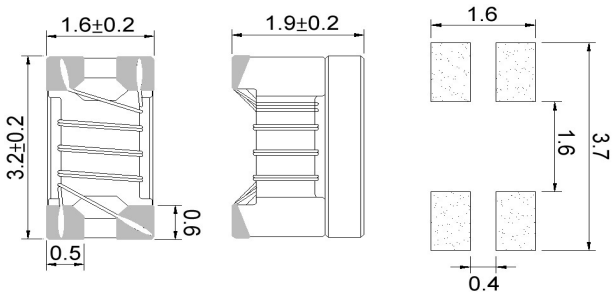
CHILISIN ELECTRONICS CORP.

Commom Mode Choke AWCU Series

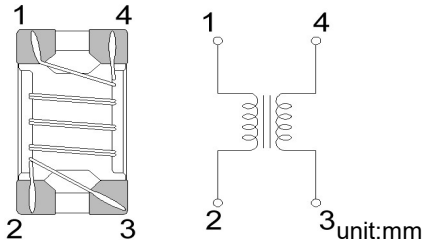
Automotive
AEC-Q200

AWCU00321619-02 Type

■ Dimensions / Recommended Land Pattern



■ NO Polarity Equivalent circuit



■ Electrical Characteristics

Part No.	Impedance (Ω)	Test Freq. (MHz)	RDC (Ω)Max.	IDC (mA)	Rated Voltage (Vdc)Max.	Withstanding Voltage (Vdc)	Insulation Resistance (MΩ)Min.	Tolerance (±%)
AWCU00321619900□02	90	100	0.3	370	50	125	10	20
AWCU00321619121□02	120	100	0.3	370	50	125	10	20
AWCU00321619161□02	160	100	0.4	340	50	125	10	20
AWCU00321619221□02	220	100	0.4	320	50	125	10	20
AWCU00321619261□02	260	100	0.5	310	50	125	10	20
AWCU00321619601□02	600	100	0.8	260	50	125	10	20
AWCU00321619102□02	1000	100	1	230	50	125	10	20
AWCU00321619222□02	2200	100	1.2	200	50	125	10	20

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

1. Operating temperature range －50℃～150℃(Including self - temperature rise)
2. RDC: SINGLE WIRE TEST VALUE
3. IDC for Inductance drop 10% from its value without current.
4. Measure Equipment:
   Z: Agilent HP4287A+Agilent 16197A
   RDC: Chroma 16502 (Single Wire Test Value)
   IDC: HP4284A+HP42841A/HP4285A+HP42841A

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Pulse a YAGEO company

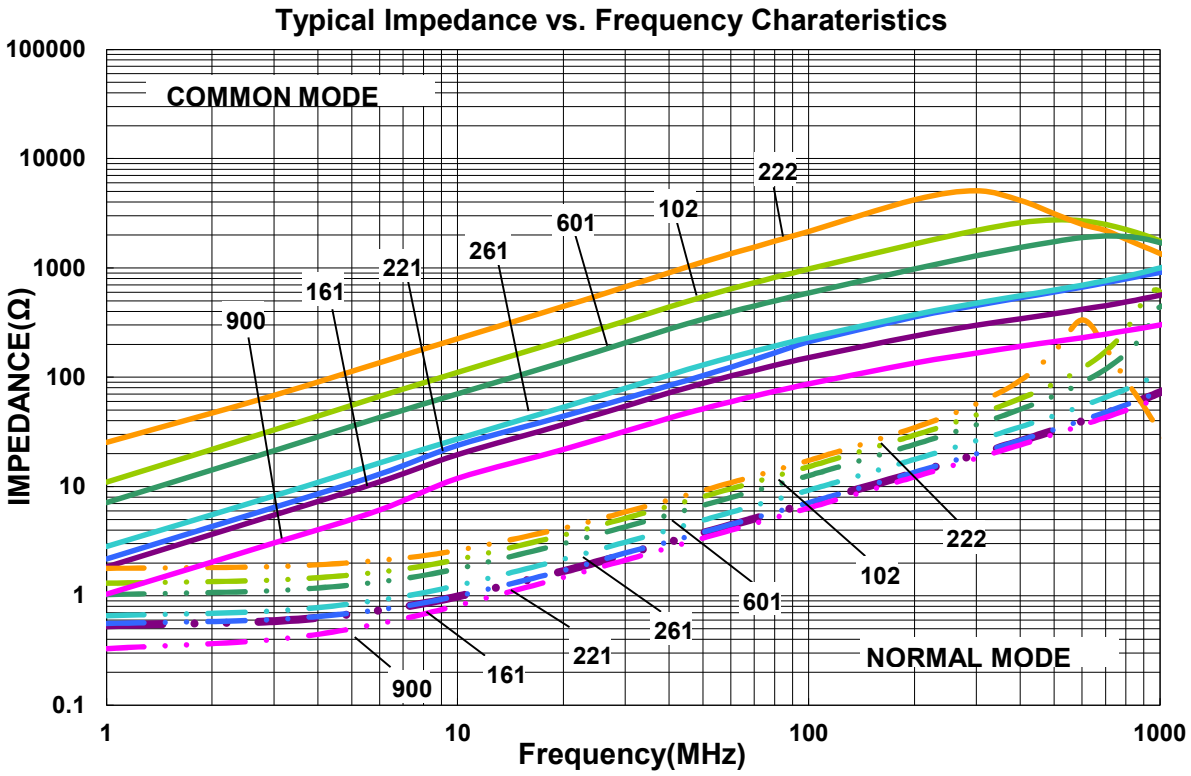
CHILISIN ELECTRONICS CORP.

Commom Mode Choke AWCU Series

Automotive
AEC-Q200

AWCU00321619-02 Type

■ Characteristics Graph



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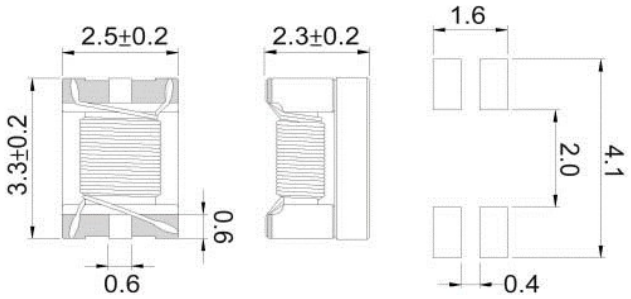
CHILISIN ELECTRONICS CORP.

Commom Mode Choke AWCU Series

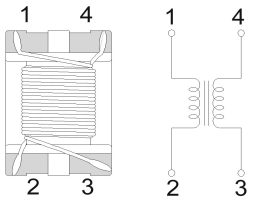
Automotive
AEC-Q200

AWCU00332523 Type

■ Dimensions / Recommended Land Pattern



■ NO Polarity Equivalent circuit



unit:mm

■ Electrical Characteristics

Part No.	Impedance (Ω)10MHz Min.(Typ.)	Inductance (uH)+50/-30%	Stary Inductance (uH)Typ.	Test Freq.	RDC (Ω)Max.	Irms (mA)Max.	Rated Voltage (Vdc)Max.	Insulation Resistance (MΩ)Min.
AWCU00332523110XT2	300(550)	11	0.05	100kHz	0.4	300	80	10
AWCU00332523220XT2	500(1100)	22	0.06	100kHz	0.5	250	80	10
AWCU00332523510XT2	1000(2600)	51	0.09	100kHz	0.7	200	80	10
AWCU00332523101XT2	2200(5100)	100	0.13	100kHz	1.5	150	80	10

Note:

1. Operating temperature range －50℃～150℃(Including self - temperature rise)
2. RDC: SINGLE WIRE TEST VALUE
3. Irms for 15℃ rise above 25℃ ambient.
4. Measure Equipment:
   L: HP4284A+HP42841A/HP4285A+HP42841A
   RDC: CHROMA MILLIOM METER MODE 16502
   Irms: HP4284A+HP42841A/HP4285A+HP42841A
   Insulation Resistance: HP4339B

■ Electrical Characteristics

Part No.	Inductance (uH)+50/-30%	Test Freq.	RDC (Ω)Max.	Irms (mA)Max.	Rated Voltage (Vdc)	Withstanding Voltage (Vdc)	Insulation Resistance (MΩ)Min.
AWCU00332523101XMF	100	100kHz	2.2	115	50	125	10

Note:

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. RDC: SINGLE WIRE TEST VALUE
3. Irms for 15℃ rise above 25℃ ambient.
4. Measure Equipment:
   L: HP4284A+HP42841A/HP4285A+HP42841A
   RDC: CHROMA MILLIOM METER MODE 16502
   Irms: HP4284A+HP42841A/HP4285A+HP42841A
   Insulation Resistance: HP4339B

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

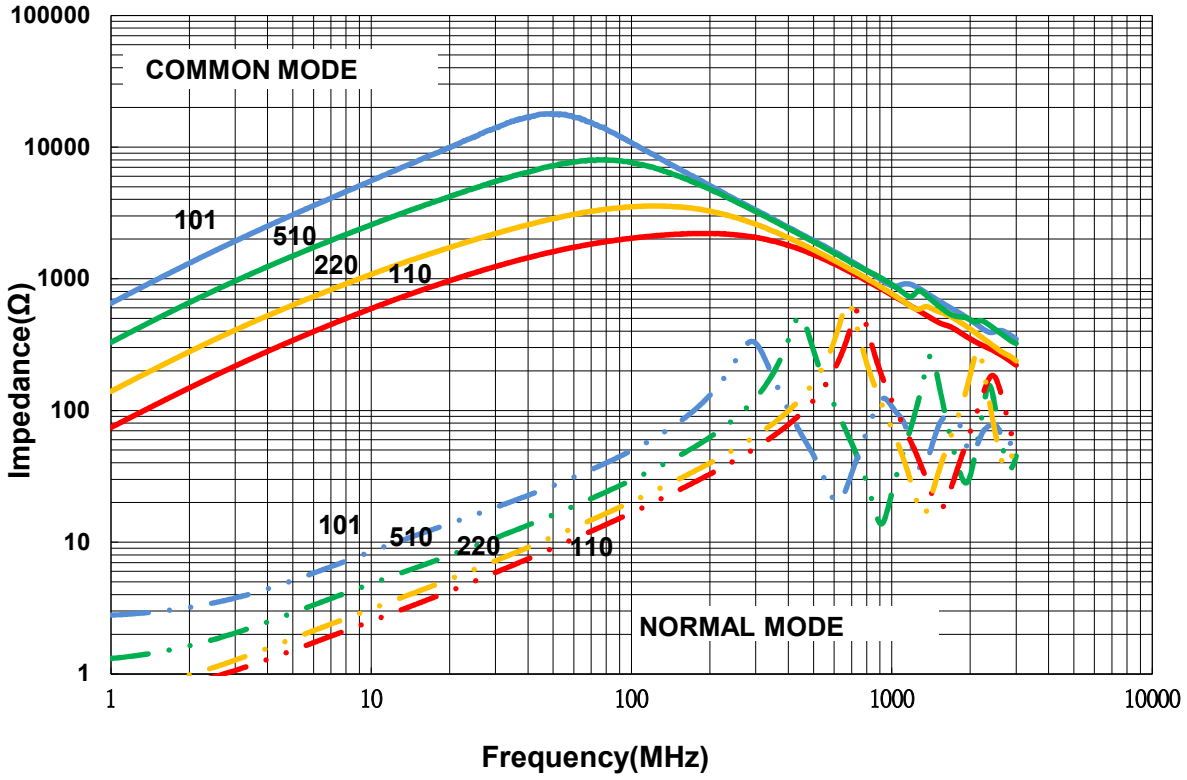
Commom Mode Choke AWCU Series

Automotive
AEC-Q200

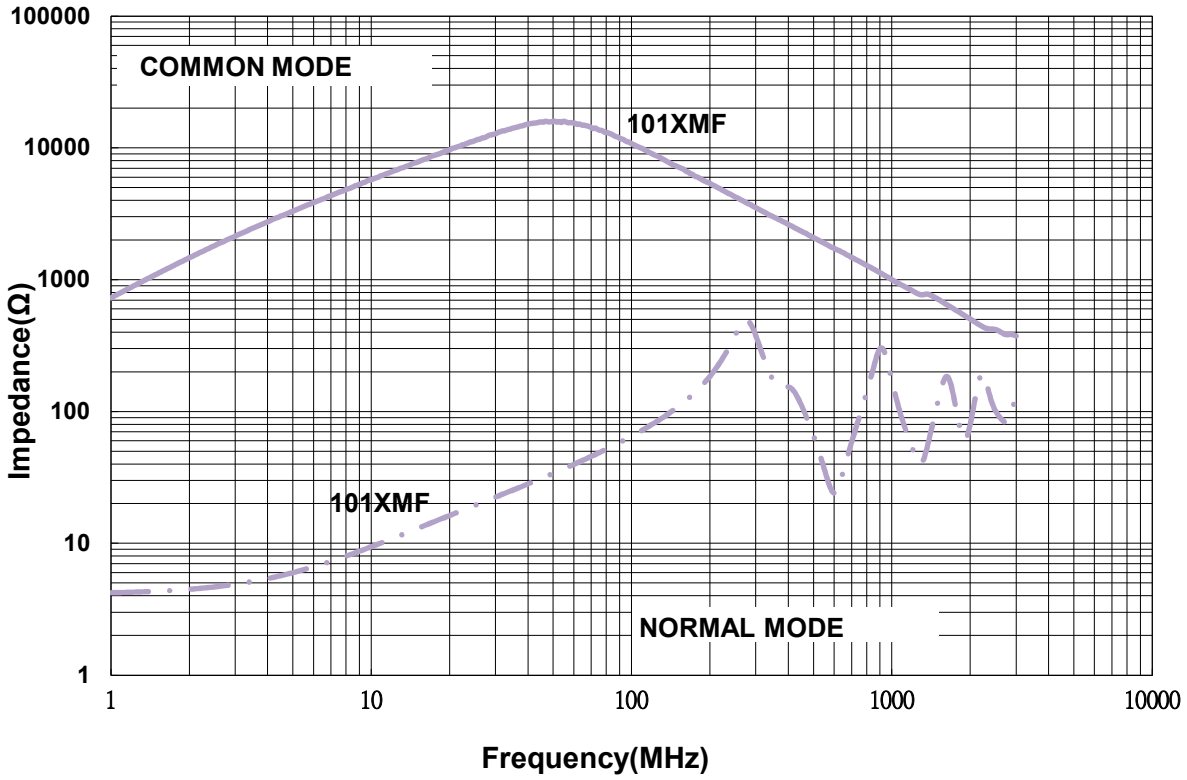
AWCU00332523 Type

■ Characteristics Graph

Typical Impedance vs. Frequency Charateristics



Typical Impedance vs. Frequency Charateristics



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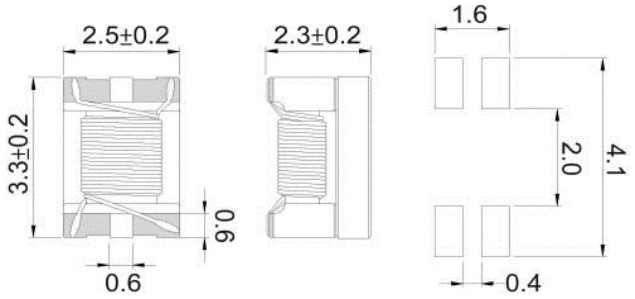
CHILISIN ELECTRONICS CORP.

Commom Mode Choke AWCU Series

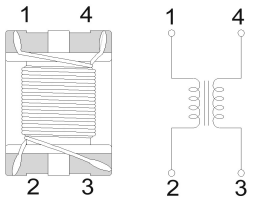
Automotive
AEC-Q200

AWCU00332525 Type

■ Dimensions / Recommended Land Pattern



■ NO Polarity Equivalent circuit



unit:mm

■ Electrical Characteristics

Part No.	Impedance (Ω)10MHz Min.(Typ.)	Inductance (uH)+50/-30%	Stary Inductance (uH)Typ.	Test Freq.	RDC (Ω)Max.	Irms (mA)Max.	Rated Voltage (Vdc)Max.	Insulation Resistance (MΩ)Min.
AWCU00332525110XG0	300(550)	11	0.05	100kHz	0.4	300	80	10
AWCU00332525220XG0	500(1100)	22	0.06	100kHz	0.5	250	80	10
AWCU00332525510XG0	1000(2600)	51	0.09	100kHz	0.7	200	80	10
AWCU00332525101XG0	2200(5100)	100	0.13	100kHz	1.5	150	80	10

Note:

1. Operating temperature range －50℃～150℃(Including self - temperature rise)
2. RDC: SINGLE WIRE TEST VALUE
3. Irms for 15℃ rise above 25℃ ambient.
4. Measure Equipment:
   L: HP4284A+HP42841A/HP4285A+HP42841A
   RDC: CHROMA MILLIOM METER MODE 16502
   Irms: HP4284A+HP42841A/HP4285A+HP42841A
   Insulation Resistance: HP4339B

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Pulse a YAGEO company

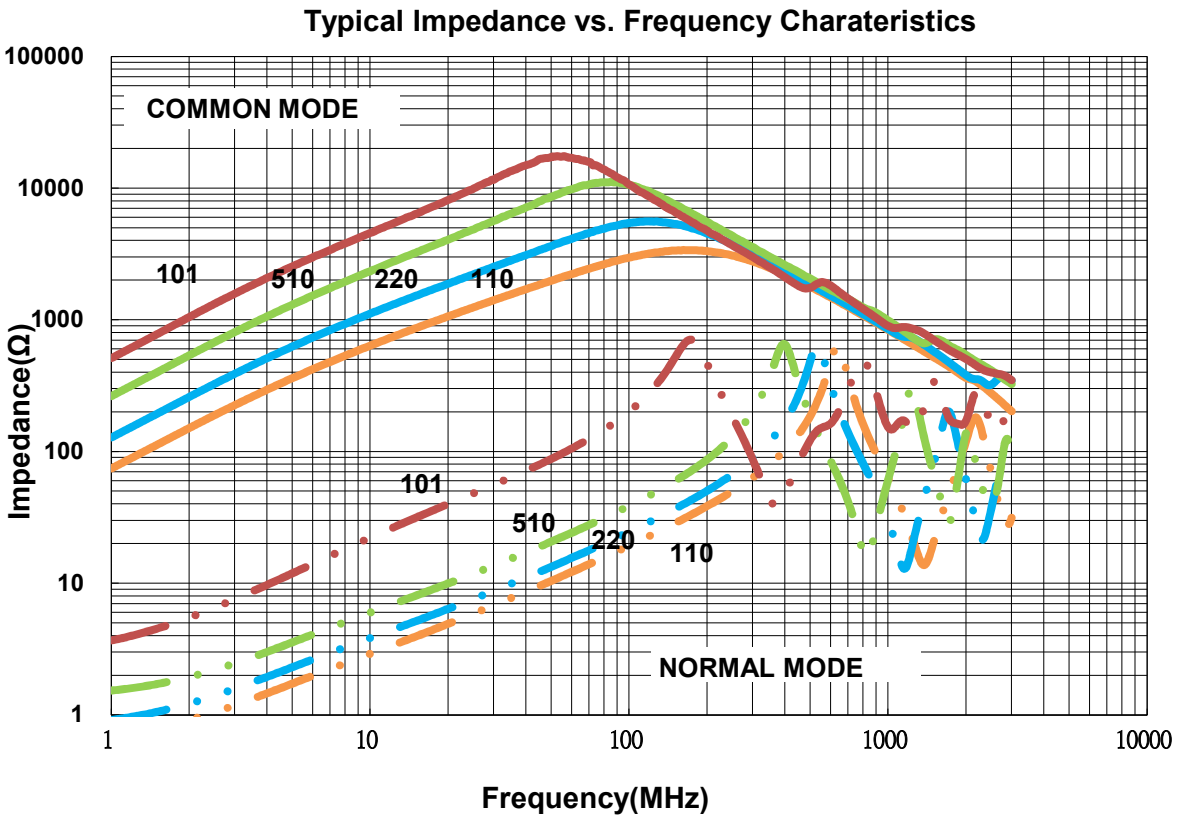
CHILISIN ELECTRONICS CORP.

Commom Mode Choke AWCU Series

Automotive
AEC-Q200

AWCU00332525 Type

■ Characteristics Graph



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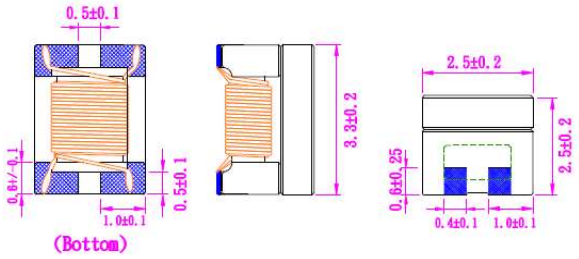
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

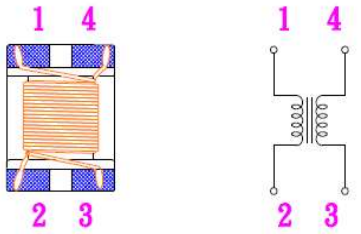
Commom Mode Choke AWCU Series

AWCU00332525-TE Type

■ Dimensions / Recommended Land Pattern



■ NO Polarity Equivalent circuit



unit:mm

■ Electrical Characteristics

Part No.	L 100KHz,0.1V (uH)	RDC (Ω) Max(typ)	Irms (mA) Max.	Insulation Resistance (MΩ)Min.	Rated Voltage (Vdc)Max.	Withstanding Voltage (Vdc)Max.	Tolerance (±%)
AWCU00332525800□TE	80	2.6(2.1)	100	10	80	125	X,T
AWCU00332525101□TE	100	3.0(2.4)	120	10	80	125	X,T
AWCU00332525201□TE	200	5.5(4.6)	70	10	80	150	X,T

Note: When ordering, please specify tolerance code. Tolerance: X=+50% to -20%, T=+30% to -10%

1. Operating temperature range －55°C～125°C(Including self - temperature rise)
2. RDC: SINGLE WIRE TEST VALUE
3. Irms for 15℃ rise above 25℃ ambient.
4. Measure Equipment:
   L: HP4284A+HP42841A/HP4285A+HP42841A
   RDC: CHROMA MILLIOM METER MODE 16502
   Irms: HP4284A+HP42841A/HP4285A+HP42841A
   Insulation Resistance: HP4339B

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Pulse a YAGEO company

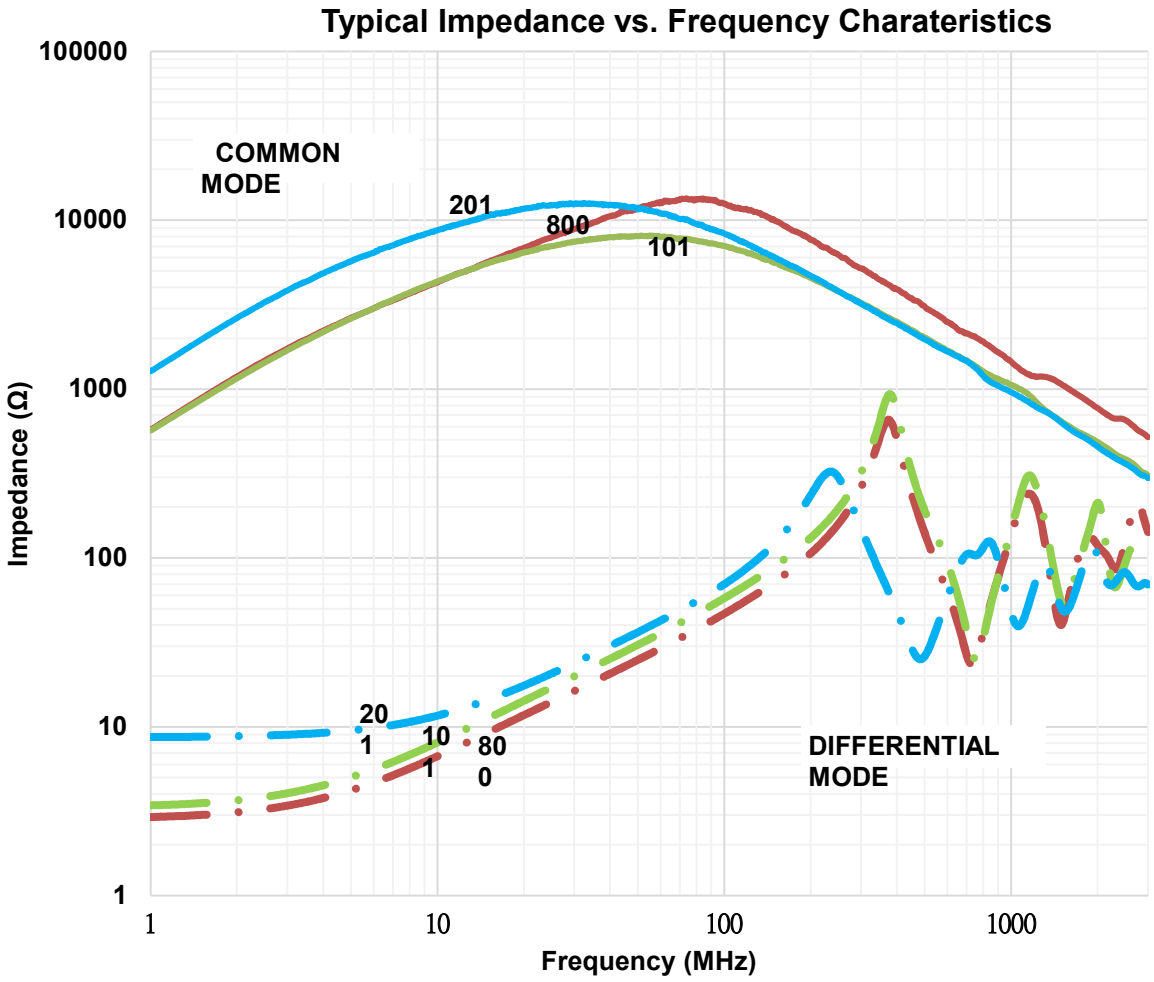
CHILISIN ELECTRONICS CORP.

Commom Mode Choke AWCU Series

Automotive
AEC-Q200

AWCU00332525-TE Type

■ Characteristics Graph



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Pulse a YAGEO company

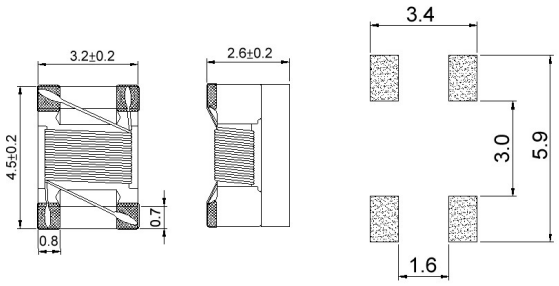
CHILISIN ELECTRONICS CORP.

Commom Mode Choke AWCU Series

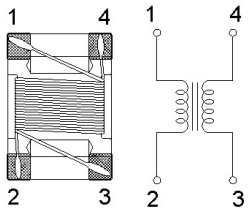
Automotive
AEC-Q200

AWCU00453226-T2 Type

■ Dimensions/Recommended Land Pattern



■ NO Polarity Equivalent circuit



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	Impedance (Ω) Min.	Impedance (Ω) Typ.	Test Freq. (MHz)	RDC (Ω) Max.	Irms (mA) Max.	Rated Voltage (Vdc)Max.	Withstanding Voltage (Vdc)	Insulation Resistance (MΩ)Min.	Tol. (±%)
AWCU00453226113□T2	11	100kHz	300	600	10	0.6	250	50	125	10	30
AWCU00453226223□T2	22	100kHz	500	1200	10	1	200	50	125	10	30
AWCU00453226513□T2	51	100kHz	1000	2800	10	1	200	50	125	10	30
AWCU00453226104□T2	100	100kHz	2000	5800	10	2	150	50	125	10	30

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

1. Operating temperature range －50℃～150℃(Including self - temperature rise)
2. RDC: SINGLE WIRE TEST VALUE
3. Irms for 40℃ rise above 25℃ ambient.
4. Measure Equipment:
   Z: HP4286A / HP4287A / AgilentE4991A
   L: HP4284A+HP42841A/HP4285A+HP42841A
   RDC: CHROMA MILLIOM METER MODE 16502
   Irms: HP4284A+HP42841A/HP4285A+HP42841A
   Insulation Resistance: HP4339B

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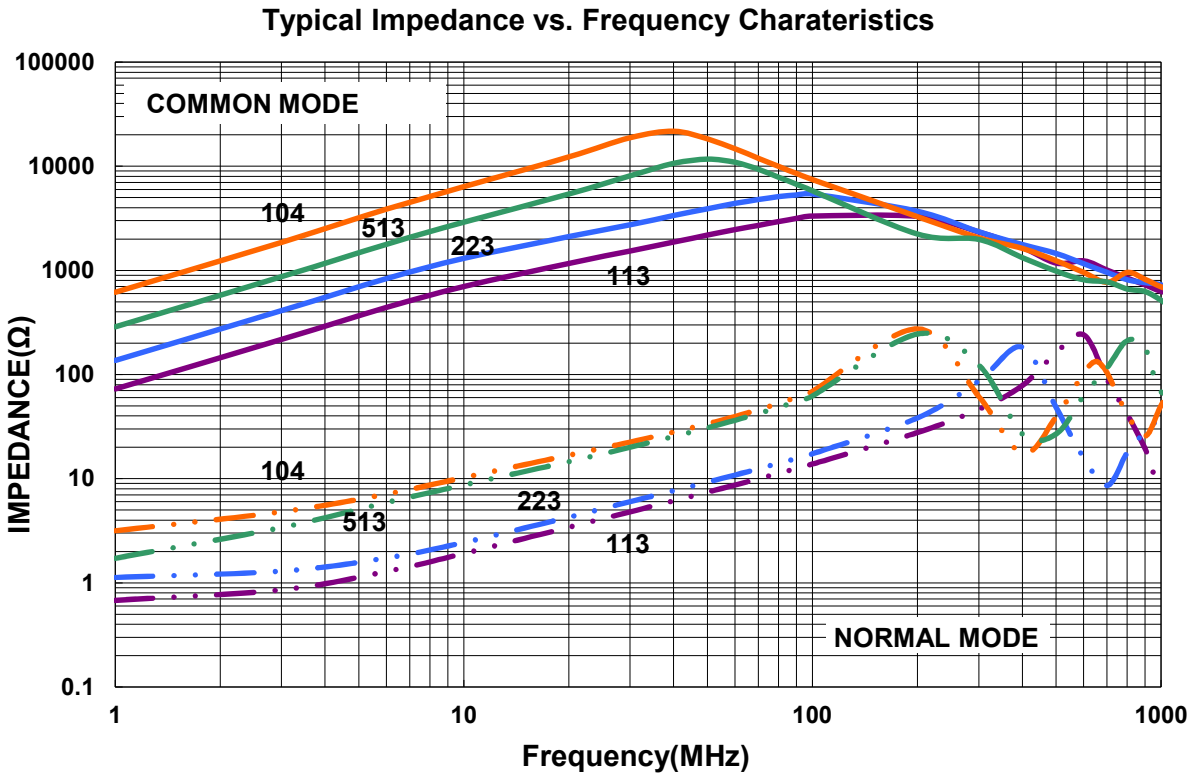
CHILISIN ELECTRONICS CORP.

Commom Mode Choke AWCU Series

Automotive
AEC-Q200

AWCU00453226-T2 Type

■ Characteristics Graph



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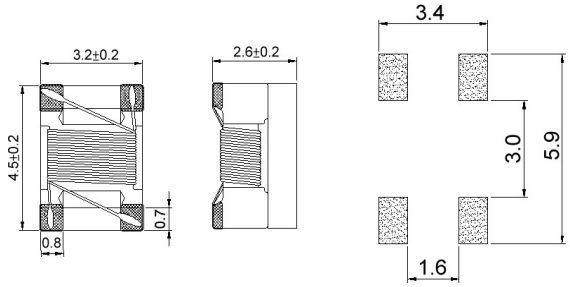
CHILISIN ELECTRONICS CORP.

Commom Mode Choke AWCU Series

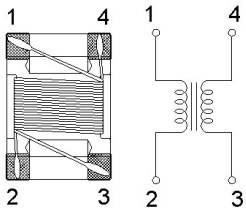
Automotive
AEC-Q200

AWCU00453226-G0 Type

■ Dimensions / Recommended Land Pattern



■ NO Polarity Equivalent circuit



unit:mm

■ Electrical Characteristics

Part No.	Inductance1 (uH) 100kHz(50/-30%)	Inductance2 (uH) 1MHz(Typ.)	Impedance (Ω) 10MHz(Typ.)	RDC (Ω)Max.	Irms (mA)Max.	Rated Voltage (Vdc)Max.	Withstanding Voltage (Vdc)	Insulation Resistance (MΩ)Min.
AWCU00453226110XG0	11	-	670	0.5	360	50	125	10
AWCU00453226220XG0	22	-	1450	0.6	310	50	125	10
AWCU00453226510XG0	51	51	3500	1	230	50	125	10
AWCU00453226101XG0	100	100	6500	2	200	50	125	10

1. Operating temperature range －50℃～150℃(Including self - temperature rise)
2. RDC: SINGLE WIRE TEST VALUE
3. Irms for 40℃ rise above 25℃ ambient.
4. Measure Equipment:
   L: HP4284A+HP42841A/HP4285A+HP42841A
   RDC: CHROMA MILLIOM METER MODE 16502
   Irms: HP4284A+HP42841A/HP4285A+HP42841A
   Insulation Resistance: HP4339B

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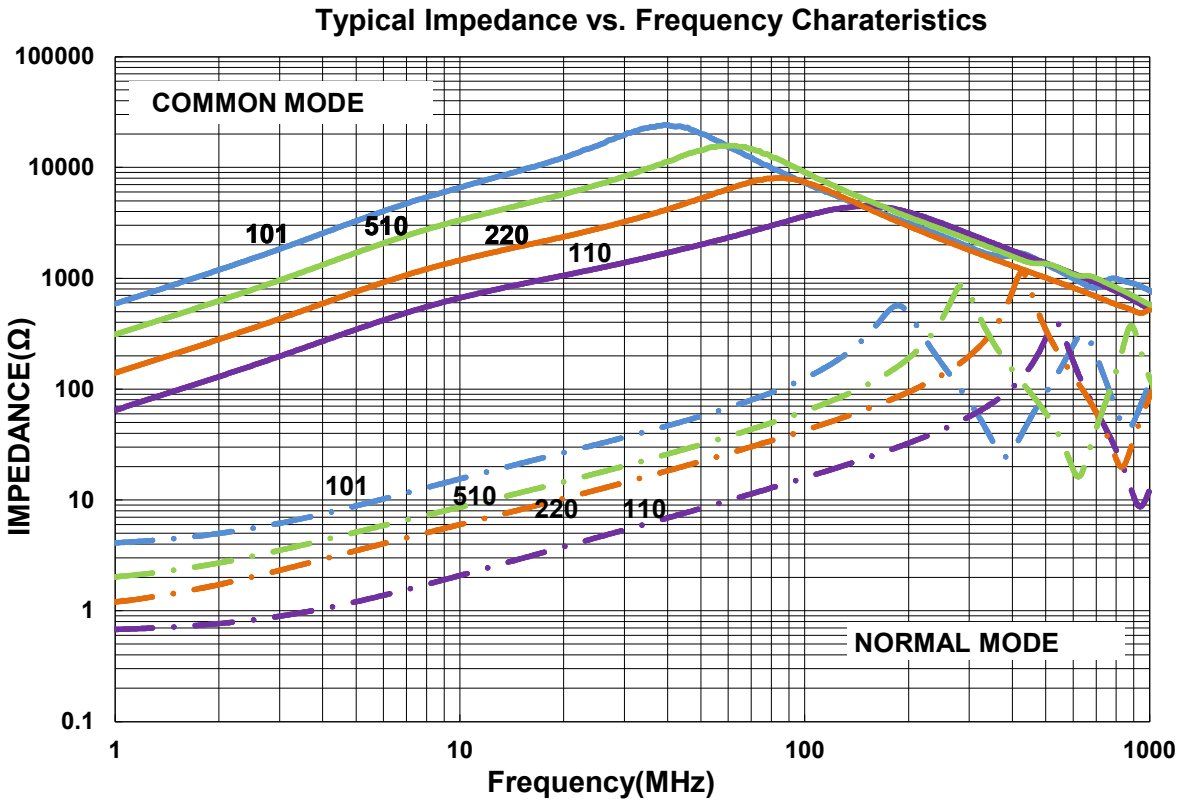
Commom Mode Choke AWCU Series

Automotive
AEC-Q200

AWCU00453226-G0 Type

■ Characteristics Graph



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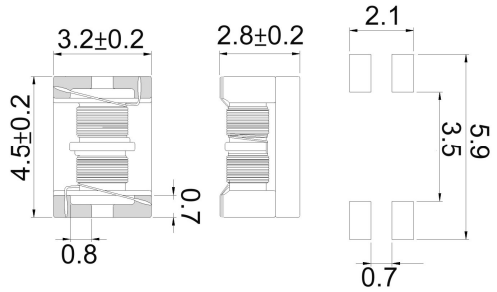
CHILISIN ELECTRONICS CORP.

Commom Mode Choke AWCU Series

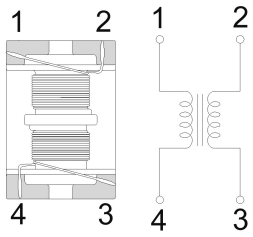
Automotive
AEC-Q200

AWCU00453228 Type

■ Dimensions / Recommended Land Pattern



■ NO Polarity Equivalent circuit



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)+50/-25%	Test Freq.	RDC (Ω)Max.	Irms (mA)Max.	Rated Voltage (Vdc)Max.	Insulation Resistance (MΩ)Min.
AWCU00453228201XTE	200	100kHz	4.5	100	50	10

Note:

1. Operating temperature range －40℃～125℃(Including self - temperature rise)
2. RDC: SINGLE WIRE TEST VALUE
3. Irms for 15℃ rise above 25℃ ambient.
4. Measure Equipment:
   L: HP4284A+HP42841A/HP4285A+HP42841A
   RDC: CHROMA MILLIOM METER MODE 16502
   Irms: HP4284A+HP42841A/HP4285A+HP42841A
   Insulation Resistance: HP4339B

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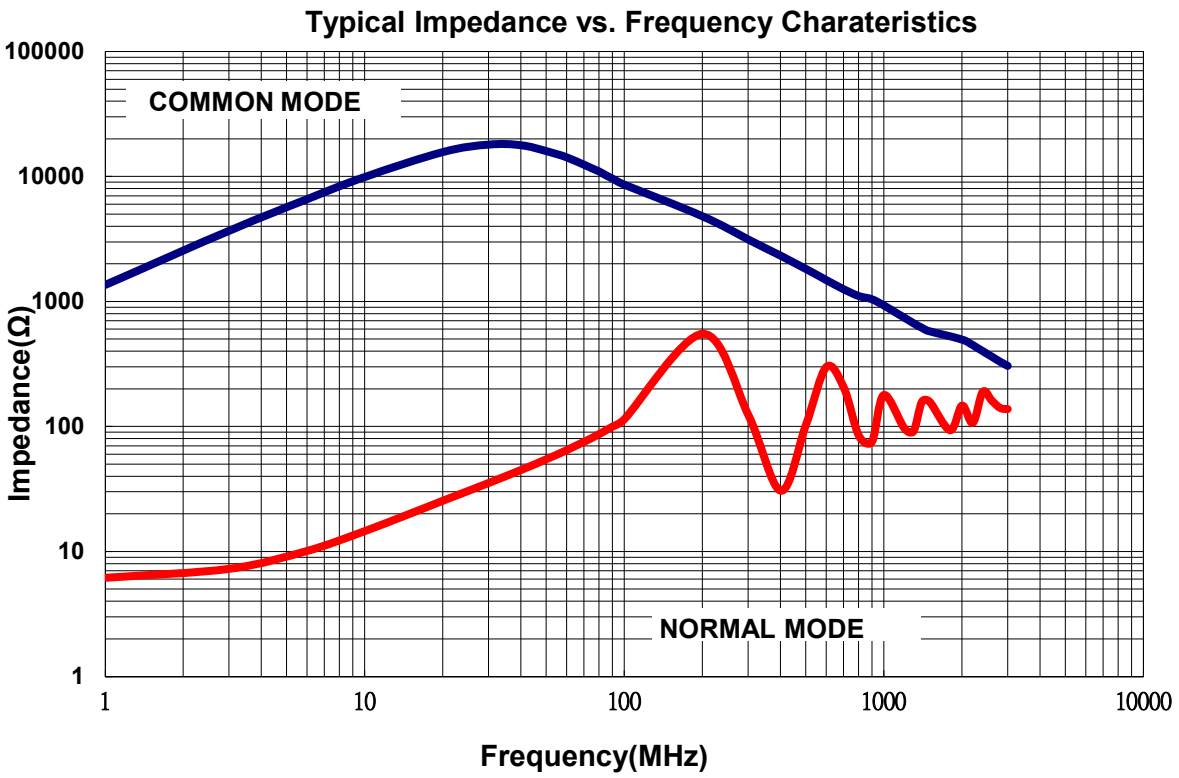
CHILISIN ELECTRONICS CORP.

Commom Mode Choke AWCU Series

Automotive
AEC-Q200

AWCU00453228 Type

■ Characteristics Graph



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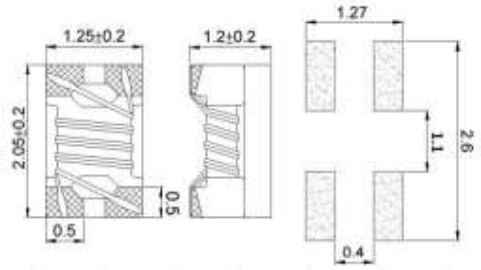
CHILISIN ELECTRONICS CORP.

Commom Mode Choke AWCU Series

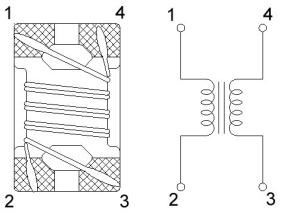
Automotive
AEC-Q200

AWCU00201212-03 Type

■ Dimensions / Recommended Land Pattern



■ NO Polarity Equivalent circuit



unit:mm

■ Electrical Characteristics

Part No.	Impedance (Ω)	Test Freq. (MHz)	RDC (Ω)Max.	IDC (mA)	Rated Voltage (Vdc)Max.	Withstanding Voltage (Vdc)	Insulation Resistance (MΩ)Min.	Tolerance (±%)
AWCU00201212500□03	50	100	0.2	500	50	125	10	20,25
AWCU00201212670□03	67	100	0.3	500	50	125	10	20,25
AWCU00201212900□03	90	100	0.3	500	50	125	10	20,25
AWCU00201212121□03	120	100	0.35	330	50	125	10	20,25

Note: When ordering, please specify tolerance code. Tolerance: M=±20% Y=±25%

1. Operating temperature range －50℃～150℃(Including self - temperature rise)
2. RDC: SINGLE WIRE TEST VALUE
3. IDC for Inductance drop 10% from its value without current.
4. Measure Equipment:
   Z: Agilent HP4287A+Agilent 16197A
   RDC: Chroma 16502 (Single Wire Test Value)
   IDC: HP4284A+HP42841A/HP4285A+HP42841A

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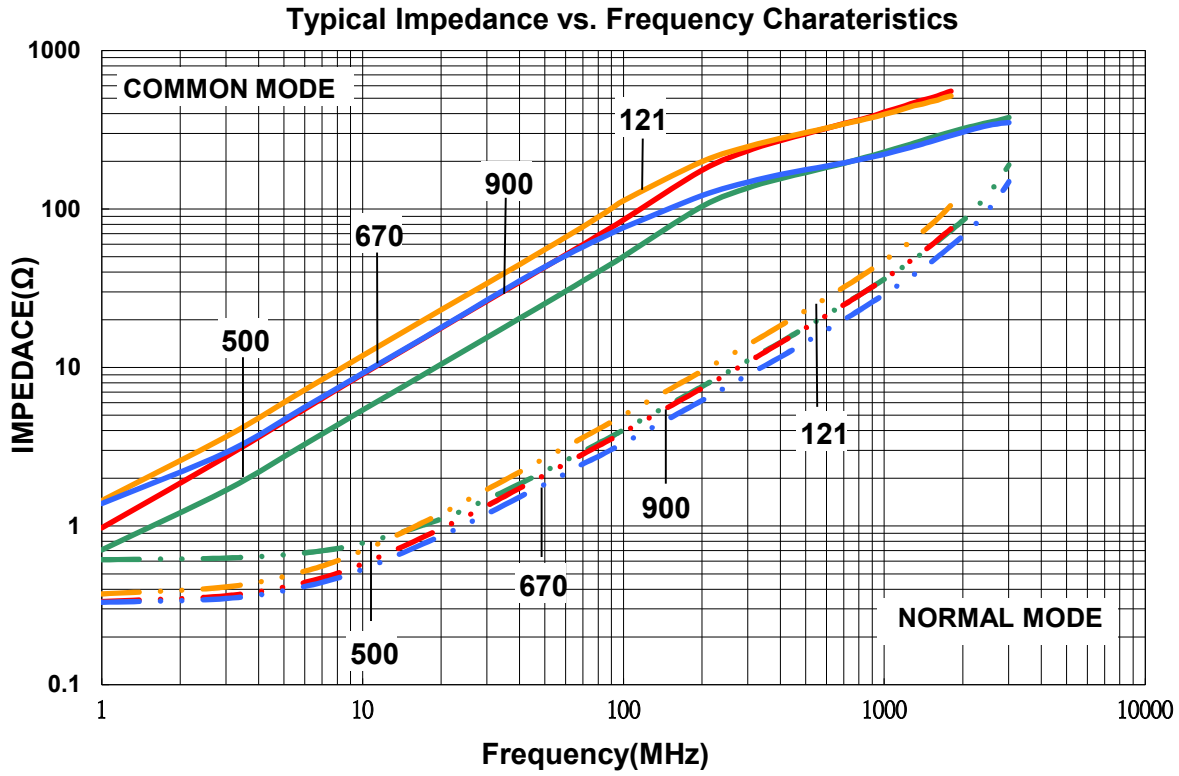
CHILISIN ELECTRONICS CORP.

Commom Mode Choke AWCU Series

Automotive
AEC-Q200

AWCU00201212-03 Type

■ Characteristics Graph



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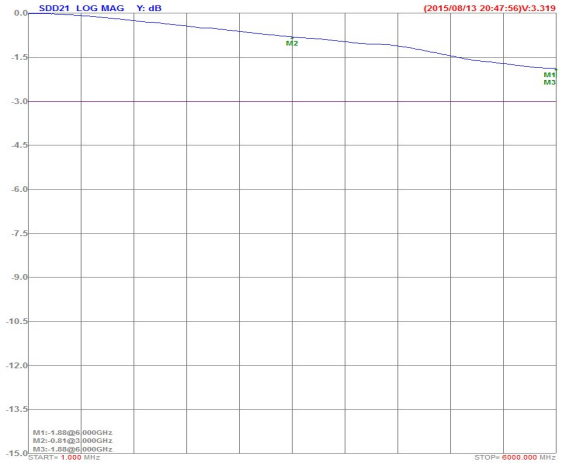
CHILISIN ELECTRONICS CORP.

Commom Mode Choke AWCU Series

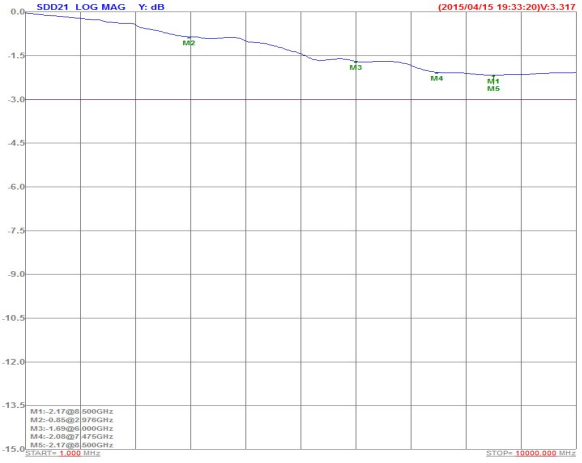
Automotive
AEC-Q200

AWCU00201212500Y03

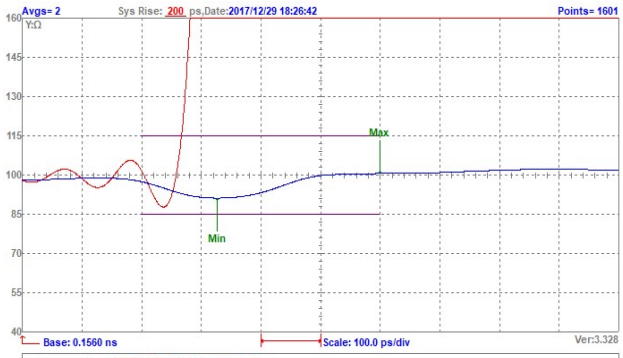
■ Insertion Loss For HDMI2.0 Testing:



■ Insertion Loss For USB3.0 Testing:

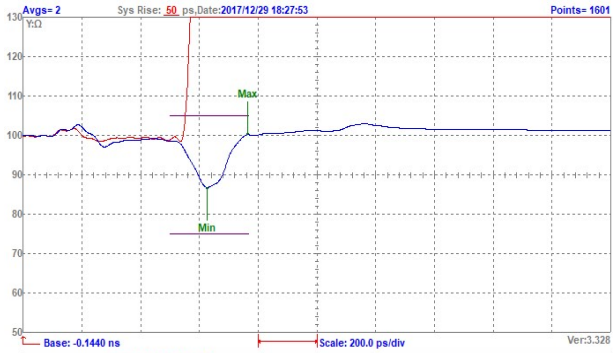


■ TDR For HDMI2.0 Testing:



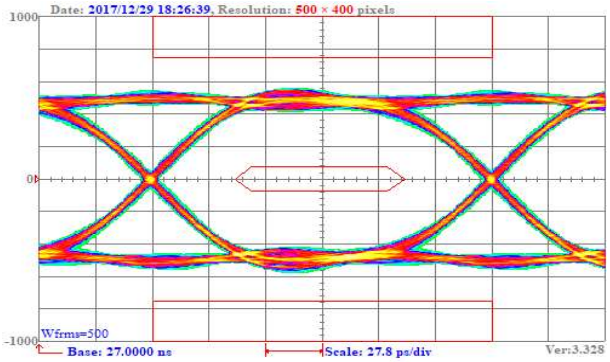
Parameter Name: HDMI2.0 Choke Impedance c1	
Spc Max: 115 Ω	Spc Min: 85 Ω
Max:100.73 Ohms at 0.7552 ns	Min:91.30 Ohms at 0.4827 ns
ΔΩ: 9.43	Avg: 96.02 Ohms
	Result: Pass

■ TDR For USB3.0 Testing:



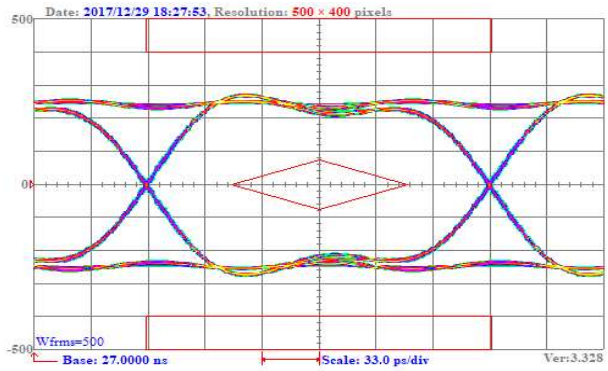
Parameter Name: Choke Impedance C1	
Spc Max: 105 Ω	Spc Min: 75 Ω
Max:100.25 Ohms at 0.6200 ns	Min:86.88 Ohms at 0.4825 ns
ΔΩ: 13.36	Avg: 93.57 Ohms
	Result: Pass

■ Eye DiagramFor 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	Vi: 500 mV;Gain: 0 dB;Off: 0 mV
CAL: DONE,JGen: OFF	Result: Pass

■ Eye DiagramFor USB3.0 Testing:



Parameter Name: USB3.0 Choke Eye Diagram C1	
Display Mode: Not a standard mode	
dRate: 5 Gbits/s; 200.0 ps	Vi: 250 mV;Gain: 0 dB;Off: 0 mV
CAL: DONE,JGen: OFF	Result: Pass

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Pulse a YAGEO company

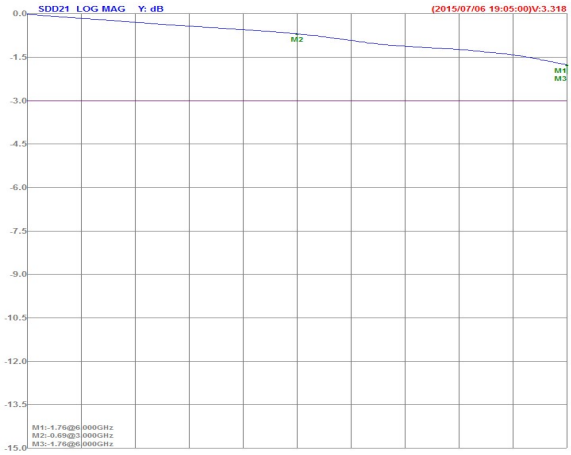
CHILISIN ELECTRONICS CORP.

Commom Mode Choke AWCU Series

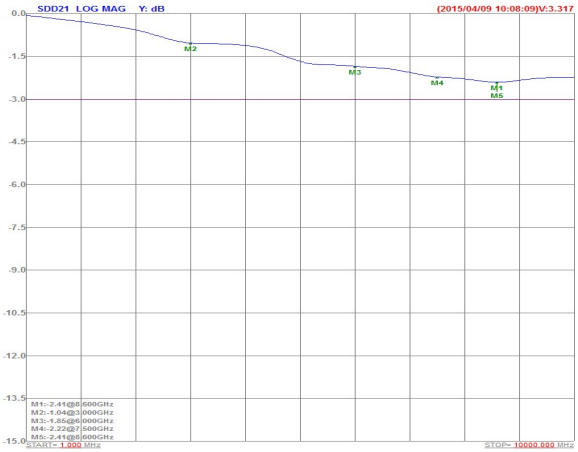
Automotive AEC-Q200

AWCU00201212670Y03

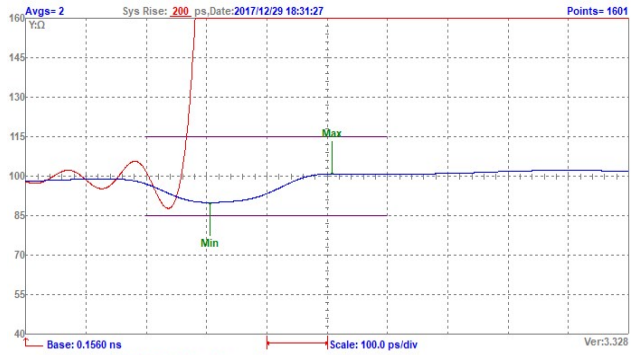
■ Insertion Loss For HDMI2.0 Testing:



■ Insertion Loss For USB3.0 Testing:

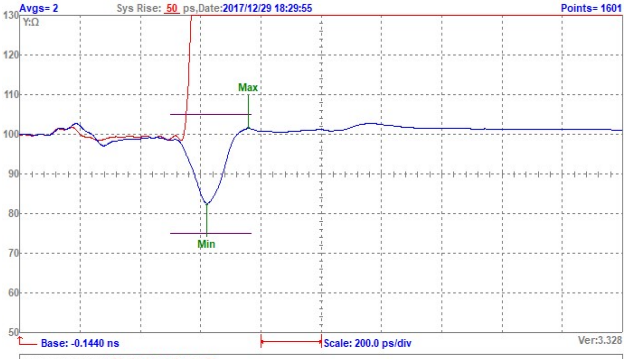


■ TDR For HDMI2.0 Testing:



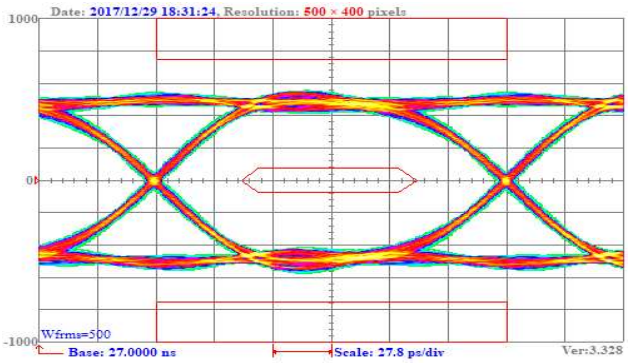
Parameter Name: HDMI2.0 Choke Impedance c1	
Spc Max: 115 Ω	Spc Min: 85 Ω
Max:100.99 Ohms at 0.6645 ns	Min:90.10 Ohms at 0.4614 ns
ΔΩ: 10.89	Avg: 95.54 Ohms
	Result: Pass

■ TDR For USB3.0 Testing:



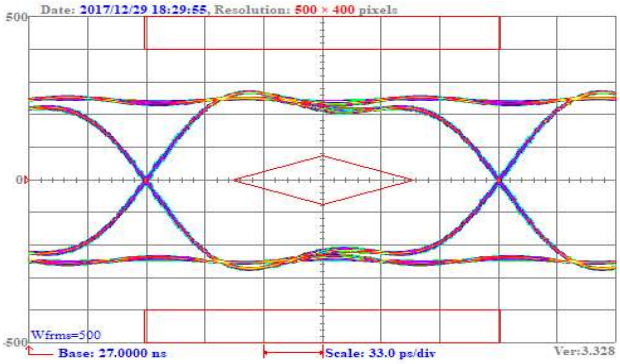
Parameter Name: Choke Impedance C1	
Spc Max: 105 Ω	Spc Min: 75 Ω
Max:101.51 Ohms at 0.6150 ns	Min:82.65 Ohms at 0.4775 ns
ΔΩ: 18.86	Avg: 92.08 Ohms
	Result: Pass

■ Eye DiagramFor 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 DiagramFor 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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Pulse a YAGEO company

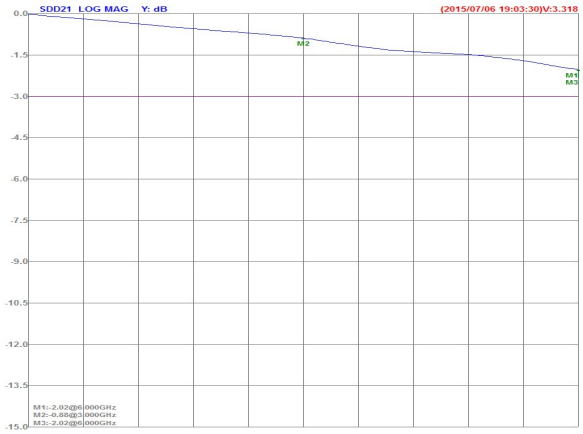
CHILISIN ELECTRONICS CORP.

Commom Mode Choke AWCU Series

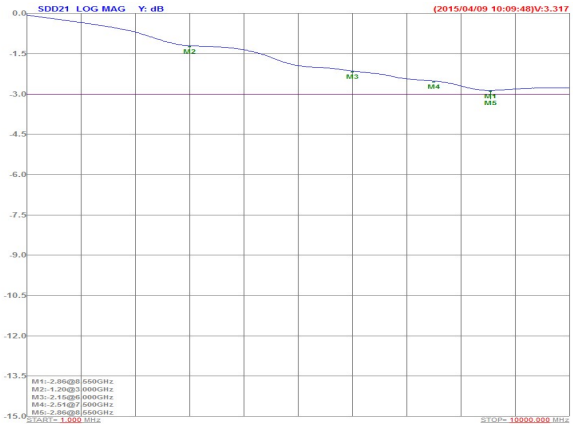
Automotive
AEC-Q200

AWCU00201212900Y03

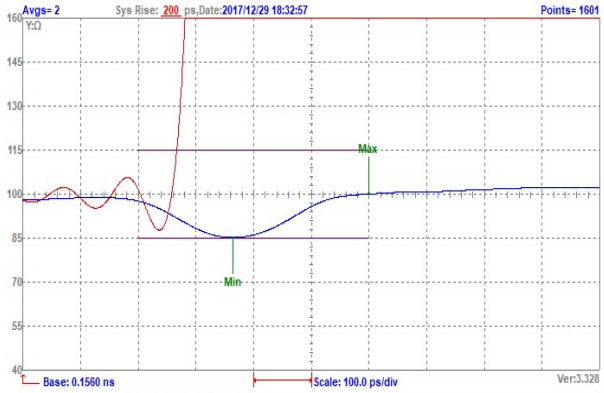
■ Insertion Loss For HDMI2.0 Testing:



■ Insertion Loss For USB3.0 Testing:

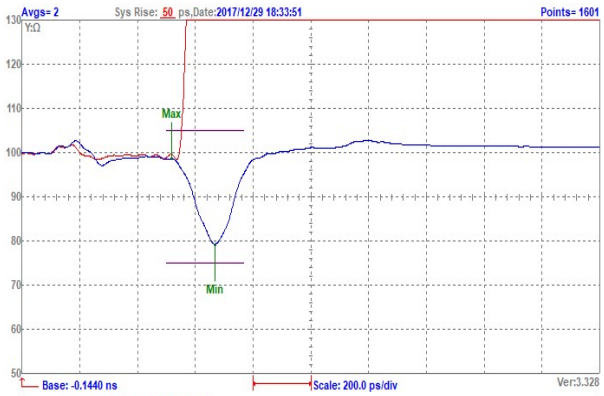


■ TDR For HDMI2.0 Testing:



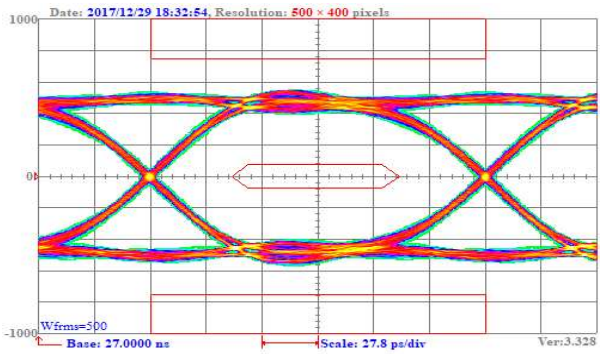
Parameter Name: HDMI2.0 Choke Impedance c1	
Spc Max: 115 Ω	Spc Min: 85 Ω
Max:100.15 Ohms at 0.7552 ns	Min:85.35 Ohms at 0.5202 ns
ΔΩ: 14.80	Avg: 92.75 Ohms
	Result: Pass

■ TDR For USB3.0 Testing:



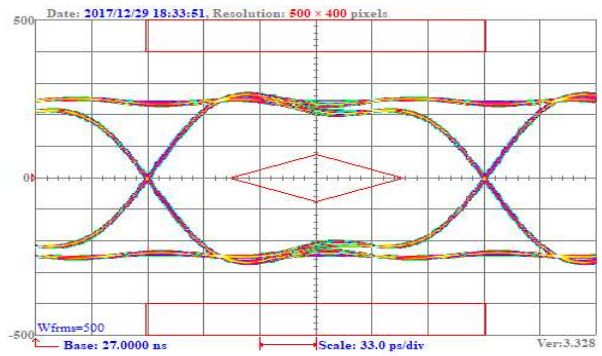
Parameter Name: Choke Impedance C1	
Spc Max: 105 Ω	Spc Min: 75 Ω
Max:98.68 Ohms at 0.3738 ns	Min:79.36 Ohms at 0.5238 ns
ΔΩ: 19.33	Avg: 89.02 Ohms
	Result: Pass

■ Eye DiagramFor 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 DiagramFor 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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Pulse a YAGEO company

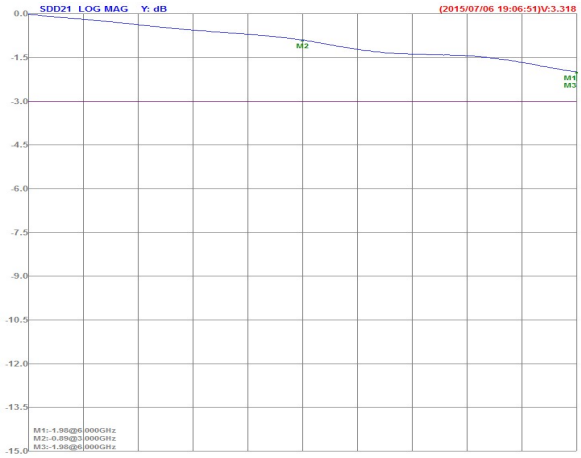
CHILISIN ELECTRONICS CORP.

Commom Mode Choke AWCU Series

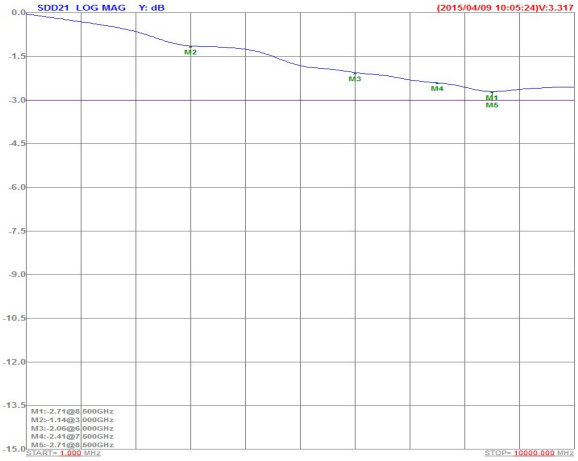
Automotive
AEC-Q200

AWCU00201212121Y03

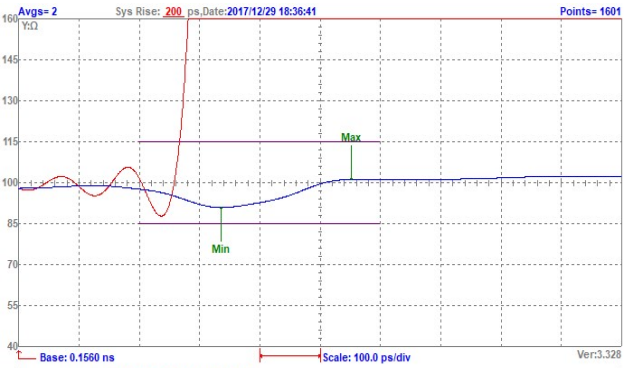
■ Insertion Loss For HDMI2.0 Testing:



■ Insertion Loss For USB3.0 Testing:

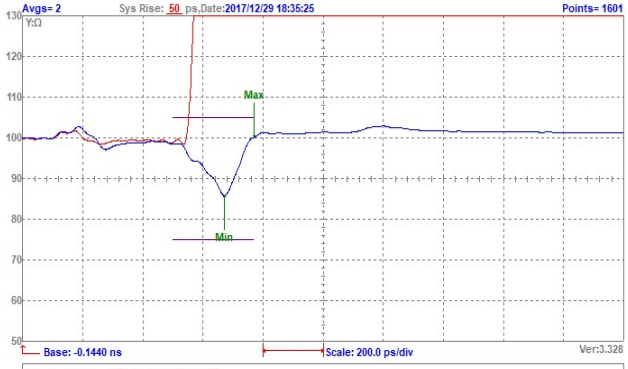


■ TDR For HDMI2.0 Testing:



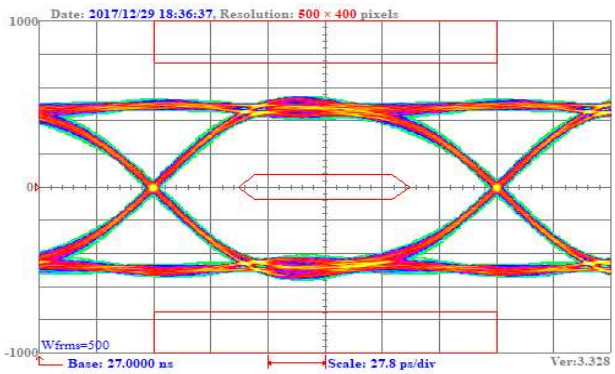
Parameter Name: HDMI2.0 Choke Impedance c1	
Spc Max: 115 Ω	Spc Min: 85 Ω
Max:101.21 Ohms at 0.7077 ns	Min:91.02 Ohms at 0.4927 ns
ΔΩ: 10.19	Avg: 96.12 Ohms
	Result: Pass

■ TDR For USB3.0 Testing:



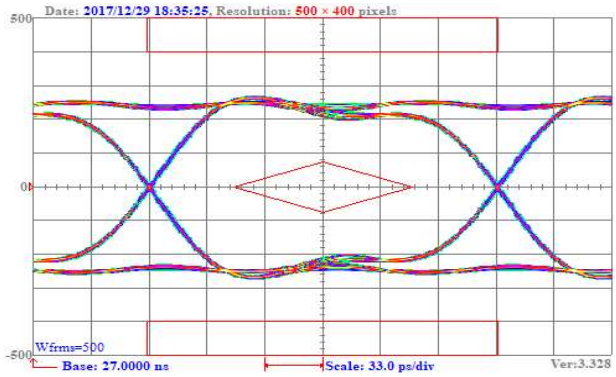
Parameter Name: Choke Impedance C1	
Spc Max: 105 Ω	Spc Min: 75 Ω
Max:100.24 Ohms at 0.6263 ns	Min:85.90 Ohms at 0.5275 ns
ΔΩ: 14.35	Avg: 93.07 Ohms
	Result: Pass

■ Eye DiagramFor 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 DiagramFor 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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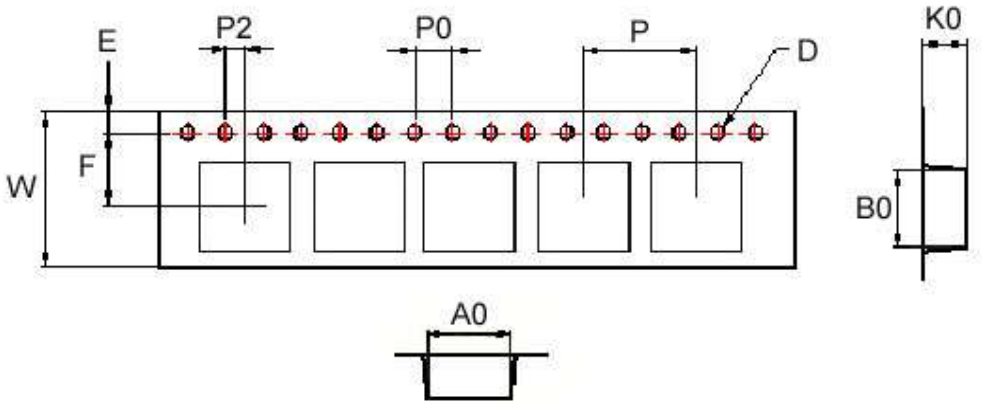
Commom Mode Choke AWCU Series

Automotive
AEC-Q200

Packaging

Tape Dimensions



Reel Dimensions

Figure1

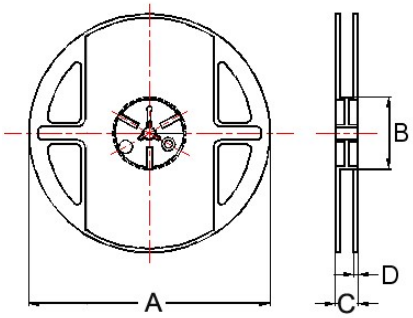
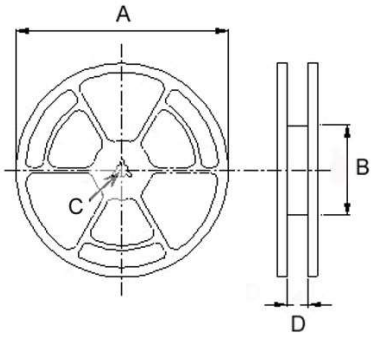


Figure 2



Dimensions in mm

TYPE	Tape Dimensions										Reel Dimensions					Quantity
	A0	B0	K0	D	E	F	W	P	P0	P2	Fig.	A	B	C	D	PCS/REEL
AWCU00201212	1.5	2.25	1.45	1.5	1.75	3.5	8	4	2	2	1	178	60	12	1.5	2000
AWCU00321619	1.76	3.47	2.05	1.5	1.75	3.5	8	4	2	2	1	178	60	12	1.5	2000
AWCU00332523	2.72	3.52	2.45	1.5	1.75	5.5	12	4	4	2	1	178	60	16	1.5	1500
AWCU00332525	2.72	3.52	2.60	1.5	1.75	5.5	12	4	4	2	1	178	60	16	1.5	1500
AWCU00332525_TE	2.72	3.52	2.60	1.5	1.75	5.5	12	4	4	2	1	178	60	16	1.5	2000
AWCU00453226	3.6	4.9	3	1.5	1.75	5.5	12	8	4	2	2	330	100	13	13.4	2500
AWCU00453228	3.6	4.9	3	1.5	1.75	5.5	12	8	4	2	2	330	100	13	13.4	2500

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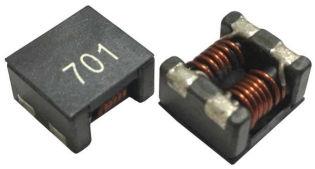
Commom Mode Choke APPM Series

Automotive
AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant



Noise Suppression | Wire Wound | Ferrite | Automotive Power line

Part Numbering

A	PPM	00	070638	800	X	Y0
Grade	Series Name	Control Code	Dimensions Code (mm)	Impedance (Ω) Min	Tolerance	Internal Code
			050524 4.7x4.5x2.4	800 80Ω		YE
			070638 7x6x3.8	101 100Ω		Y0
			090748 9x7x4.8	701 500Ω		
			121165 12x10.8x6.5			
			151365 15x13x6.5			
			485023 4.8x5.0x2.3			

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Pulse a YAGEO company

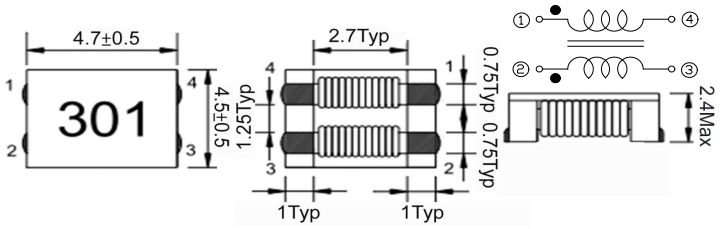
CHILISIN ELECTRONICS CORP.

Commom Mode Choke APPM Series

Automotive
AEC-Q200

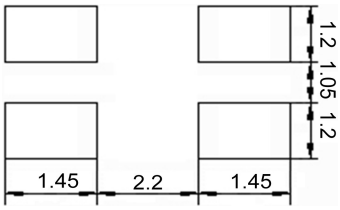
APPM00050524 - YE Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Impedance(Ω) Min.	Impedance(Ω) Typ.	Test Freq.	RDC (mΩ)Max.	Rated Current (A) Max	Insulation Resistance (MΩ) Min	Rated Voltage (V) Max	Marking
APPM00050524301XYE	100	300	100 MHz,0.5 V	45	3	10	50	301
APPM00050524401XYE	200	400	100 MHz,0.5 V	50	2.5	10	50	401
APPM00050524701XYE	500	700	100 MHz,0.5 V	59	2.2	10	50	701
APPM00050524102XYE	800	1000	100 MHz,0.5 V	68	2.1	10	50	102
APPM00050524122XYE	1000	1200	100 MHz,0.5 V	74	2	10	50	122
APPM00050524142XYE	1200	1400	100 MHz,0.5 V	81	1.9	10	50	142

1. Operating temperature range －40℃～125℃
2. Rated Current: Based on temperature rise (△T:40℃ Typ.)
3. Measure Equipment:

Z : HP 4291B IMPEDANCE ANALYZER (or equivalent)
RDC : CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
Rated Current : WK3255BQ+ WK3265B (or equivalent)
I.R : CHROMA MODEL 19073 AC/DC/IR HIPOT TESTER (or equivalent)

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Pulse a YAGEO company

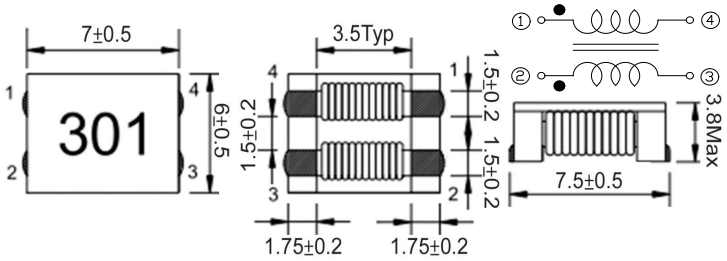
CHILISIN ELECTRONICS CORP.

Commom Mode Choke APPM Series

Automotive AEC-Q200

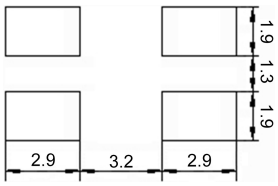
APPM00070638 - Y0 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Impedance(Ω) Min.	Impedance(Ω) Typ.	Test Freq.	RDC (mΩ)Max.	Rated Current (A) Max	Insulation Resistance (MΩ) Min	Rated Voltage (V) Max	Marking
APPM00070638400XY0	40	70	100 MHz,0.5 V	5	15	10	125	400
APPM00070638101XY0	100	140	100 MHz,0.5 V	10	9	10	125	101
APPM00070638301XY0	225	300	100 MHz,0.5 V	10	5	10	125	301
APPM00070638501XY0	275	350	100 MHz,0.5 V	10	5	10	125	501
APPM00070638701XY0	500	700	100 MHz,0.5 V	15	4	10	125	701
APPM00070638102XY0	800	1020	100 MHz,0.5 V	17	3	10	125	102
APPM00070638132XY0	910	1300	100 MHz,0.5 V	21	2.5	10	125	132
APPM00070638272XY0	2000	2700	100 MHz,0.5 V	63	1	10	125	272
APPM00070638302XY0	2500	3000	100 MHz,0.5 V	75	0.9	10	125	302

1. Operating temperature range －40℃～125℃
2. Rated Current: Based on temperature rise (△T:40℃ Typ.)
3. Measure Equipment:

Z : HP 4291B IMPEDANCE ANALYZER (or equivalent)
RDC : CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
Rated Current : WK3255BQ+ WK3265B (or equivalent)
I.R : CHROMA MODEL 19073 AC/DC/IR HIPOT TESTER (or equivalent)

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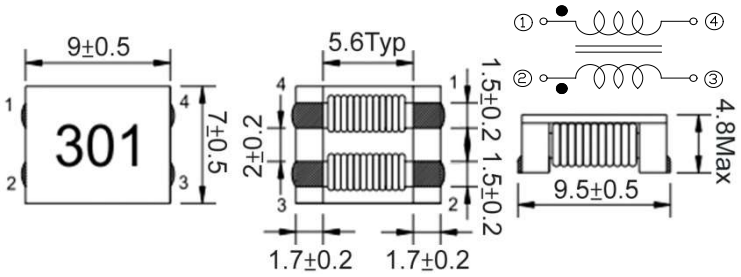
CHILISIN ELECTRONICS CORP.

Commom Mode Choke APPM Series

Automotive
AEC-Q200

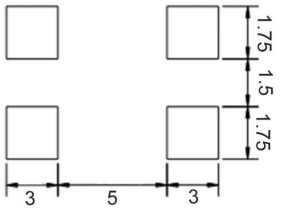
APPM00090748 - Y0 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Impedance(Ω) Min.	Impedance(Ω) Typ.	Test Freq.	RDC (mΩ)Max.	Rated Current (A) Max	Insulation Resistance (MΩ) Min	Rated Voltage (V) Max	Marking
APPM00090748301XY0	225	300	100 MHz,0.5 V	6	6	10	80	301
APPM00090748501XY0	450	600	100 MHz,0.5 V	8	5.5	10	80	501
APPM00090748701XY0	500	700	100 MHz,0.5 V	10	5	10	80	701
APPM00090748102XY0	750	1000	100 MHz,0.5 V	13	4	10	80	102
APPM00090748152XY0	1100	1500	100 MHz,0.5 V	18	3.5	10	80	152
APPM00090748222XY0	1700	2200	100 MHz,0.5 V	60	2.5	10	80	222
APPM00090748272XY0	2000	2700	100 MHz,0.5 V	86	2	10	80	272

1. Operating temperature range －40℃～125℃
2. Rated Current: Based on temperature rise (△T:40℃ Typ.)
3. Measure Equipment:

Z : HP 4291B IMPEDANCE ANALYZER (or equivalent)
RDC : CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
Rated Current : WK3255BQ+ WK3265B (or equivalent)
I.R : CHROMA MODEL 19073 AC/DC/IR HIPOT TESTER (or equivalent)

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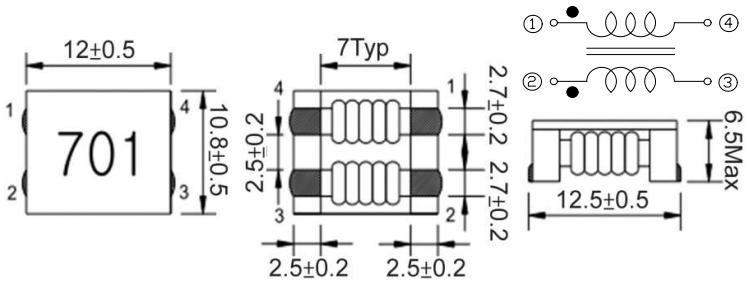
CHILISIN ELECTRONICS CORP.

Commom Mode Choke APPM Series

Automotive
AEC-Q200

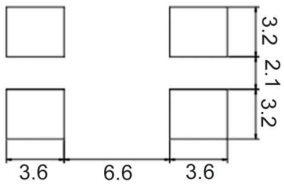
APPM00121165 - Y0 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Impedance(Ω) Min.	Impedance(Ω) Typ.	Test Freq.	RDC (mΩ)Max.	Rated Current (A) Max	Insulation Resistance (MΩ) Min	Rated Voltage (V) Max	Marking
APPM00121165800XY0	80	230	100 MHz,0.5 V	2.2Typ	10	10	80	800
APPM00121165701XY0	500	700	100 MHz,0.5 V	6	8	10	80	701
APPM00121165801XY0	600	800	100 MHz,0.5 V	8	8	10	80	801
APPM00121165102XY0	750	1000	100 MHz,0.5 V	14	6	10	80	102
APPM00121165222XY0	2200	2500	10 MHz,0.5 V	35	1.8	10	80	222
APPM00121165272XY0	2300	2700	10 MHz,0.5 V	50	1.5	10	80	272

1. Operating temperature range －40℃～125℃
2. Rated Current: Based on temperature rise (△T:40℃ Typ.)
3. Measure Equipment:

Z : HP 4291B IMPEDANCE ANALYZER (or equivalent)
RDC : CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
Rated Current : WK3255BQ+ WK3265B (or equivalent)
I.R : CHROMA MODEL 19073 AC/DC/IR HIPOT TESTER (or equivalent)

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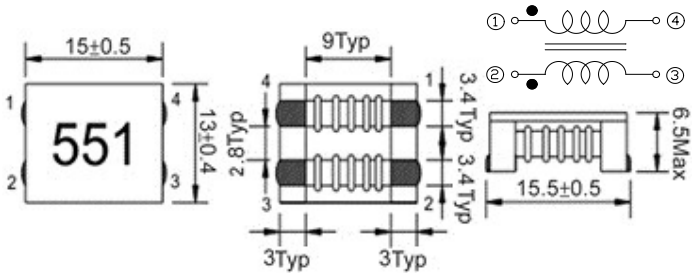
CHILISIN ELECTRONICS CORP.

Commom Mode Choke APPM Series

Automotive
AEC-Q200

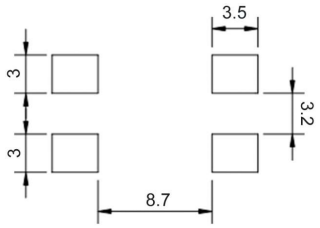
APPM00151365 - Y0 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Impedance(Ω) Min.	Impedance(Ω) Typ.	Test Freq.	RDC (mΩ)Max.	Rated Current (A) Max	Insulation Resistance (MΩ) Min	Rated Voltage (V) Max	Marking
APPM00151365301XY0	250	300	100 MHz,0.5 V	4.7	13	10	125	301
APPM00151365551XY0	450	550	100 MHz,0.5 V	3.8±20%	10	10	125	551
APPM00151365701XY0	500	700	100 MHz,0.5 V	7	10	10	125	701
APPM00151365102XY0	600	1000	100 MHz,0.5 V	9	8.5	10	125	102
APPM00151365152XY0	1100	1500	50 MHz,0.5 V	9	8.5	10	125	152
APPM00151365232XY0	1800	2300	50 MHz,0.5 V	11	7	10	125	322
APPM00151365322XY0	2700	3200	40 MHz,0.5 V	11.5	6	10	125	322
APPM00151365432XY0	3700	4300	30 MHz,0.5 V	21	5	10	125	432

1. Operating temperature range －40℃～125℃
2. Rated Current: Based on temperature rise (△T:40℃ Typ.)
3. Measure Equipment:

Z : HP 4291B IMPEDANCE ANALYZER (or equivalent)
RDC : CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
Rated Current : WK3255BQ+ WK3265B (or equivalent)
I.R : CHROMA MODEL 19073 AC/DC/IR HIPOT TESTER (or equivalent)

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Pulse a YAGEO company

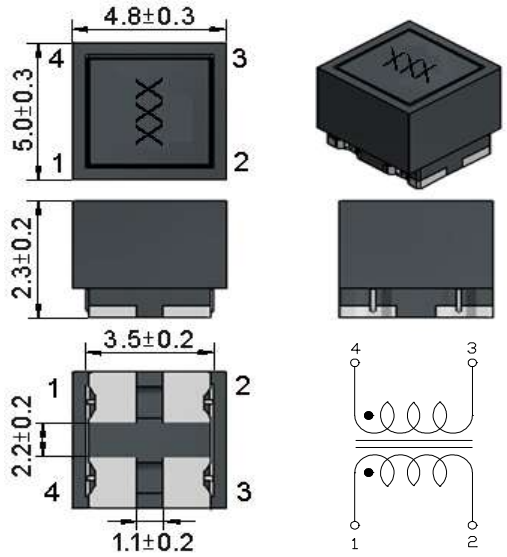
CHILISIN ELECTRONICS CORP.

Commom Mode Choke APPM Series

Automotive
AEC-Q200

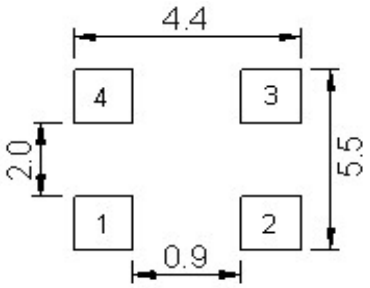
APPM00485023 - Y0 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	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
APPM00485023101XY0	-	100	10	6	50	125	10	101
APPM00485023251XY0	20	250	14	5	50	125	10	251
APPM00485023501XY0	30	500	19	4	50	125	10	501
APPM00485023102XY0	60	1000	24	3	50	125	10	102
APPM00485023142XY0	100	1400	40	2	50	125	10	142
APPM00485023152XY0	100	1500	40	2	50	125	10	152

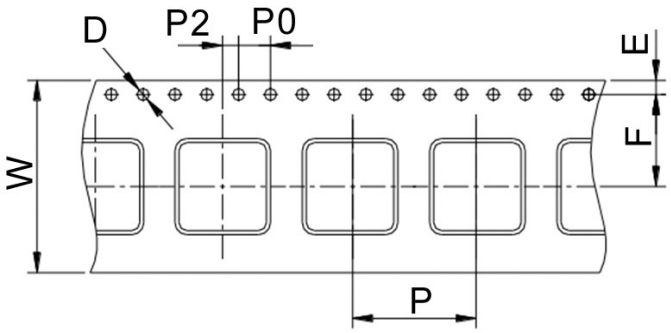
1. Operating temperature range －40℃～125℃
2. Rated Current: Based on temperature rise (△T:40℃ Typ.)
3. Measure Equipment:

Z : HP 4291B IMPEDANCE ANALYZER (or equivalent)
RDC : CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
Rated Current : WK3255BQ+ WK3265B (or equivalent)
I.R : CHROMA MODEL 19073 AC/DC/IR HIPOT TESTER (or equivalent)

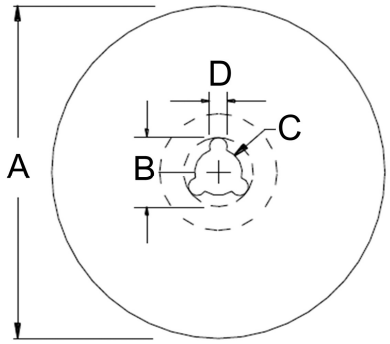
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

■ Packaging

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
APPM00050524	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
APPM00070638	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1500
APPM00090748	24	1.5	1.75	11.5	16	4	2.02	330	20	13	2	700
APPM00121165	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500
APPM00151365	24	1.5	1.75	11.5	20	4	2	330	20	13	2	450
APPM00485023	12	1.5	1.75	5.5	8	4	2	330	21.5	13	2	2500

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Commom Mode Choke APPI Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Noise Suppression | Wire Wound | Ferrite | Automotive Power line

Part Numbering

A	PPI	00	050525	101	X	Y0
Grade	Series Name	Control Code	Dimensions Code (mm)	Impedance (Ω) Min	Tolerance	Internal Code
			050525 4.8x5.0x2.5	101 100Ω		Y0

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

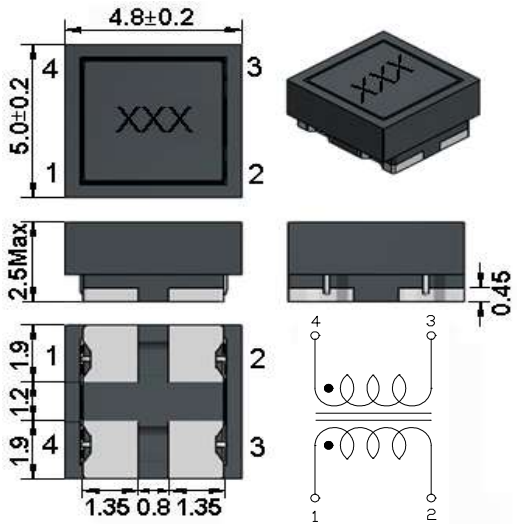
CHILISIN ELECTRONICS CORP.

Commom Mode Choke APPI Series

Automotive
AEC-Q200

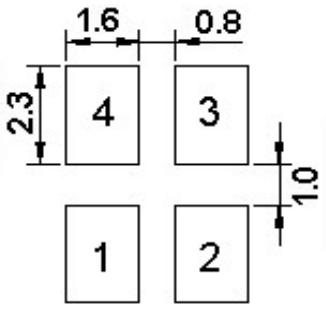
APPI050525 - Y0 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Impedance(Ω) Min. @10MHz	Impedance(Ω) Typ. @100MHz	RDC(mΩ) ±40%	Irms (A)Max.	Rated Voltage (V)Max.	Withstanding voltage (V)Max.	Insulation Resistance (MΩ)Min.	Marking
APPI00050525101X00	10	100	9	6.0	50	125	10	101
APPI00050525251X00	20	250	14	5.0	50	125	10	251
APPI00050525501X00	30	500	19	4.0	50	125	10	501
APPI00050525102X00	60	1000	24	2.0	50	125	10	102
APPI00050525142X00	100	1400	40	1.5	50	125	10	142
APPI00050525152X00	_	1500	40	1.5	50	125	10	152

1.Operating temperature range －40°C～125°C(Including self - temperature rise)

2.Irms: Based on temperature rise (△T:40°C Typ.)

3. Measure Equipment:

Z : HP 4291B IMPEDANCE ANALYZER (or equivalent)

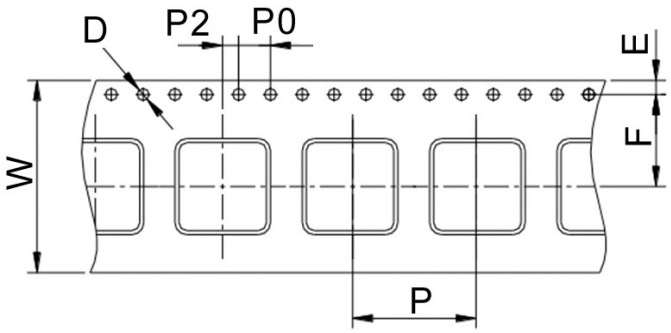
RDC : CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)

I.R : CHROMA MODEL 19073 AC/DC/IR HIPOT TESTER (or equivalent)

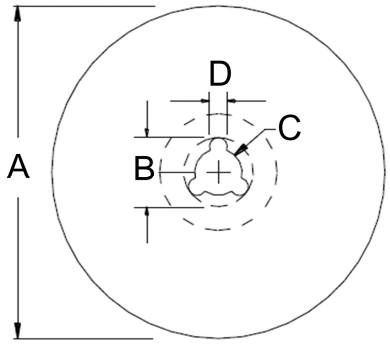
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

Packaging

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
APPI00050525	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2500

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.

Leaded Power Chokes AFDI Series

Automotive AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant

Power Circuit | Shield | Wire Wound | Metal | Ultra High Current

Part Numbering

A	FDI	00	303012	1R0	M	01
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			111109 12x12x9~9.5	1R0 1.0	M ±20%	R1
			121210 12x12x10	100 10		04
			131210 13x12x8~12	101 100		06
			161311 15.5x13x10~12			
			191909 19.5x8.5			
			212010 20.5x9.5			
			282811 28x10.5			
			303012 30x12.7			

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Pulse a YAGEO company

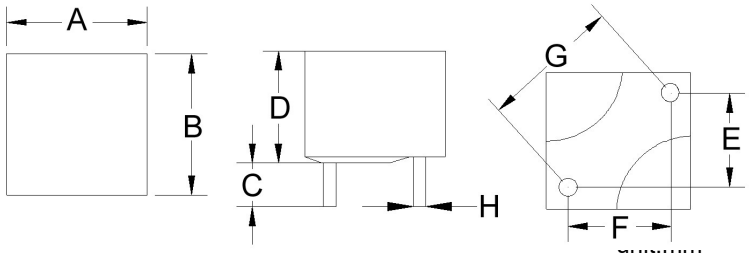
CHILISIN ELECTRONICS CORP.

Leaded Power Chokes AFDI Series

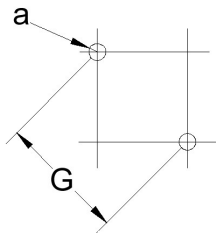
Automotive
AEC-Q200

AFDI00111109 Type

■ Dimensions



■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	L (uH)	Test Freq.	RDC(mΩ) Typ(Max)	Isat (A)Typ.	Irms (A)Typ.	Tol. (±%)	Dimensions								
							A Max	B Max	C±0.5	D Max	E±0.5	F±0.5	G±0.5	H±0.1	a
AFDI001111091R0M05	1	100kHz,1V	1.03(1.5)	42	35	20	12	12	3.4	9	7.3	6	9.4	1.5	1.9
AFDI001111092R5M05	2.5	100kHz,1V	2.37(2.6)	25	27	20	12	12	3.4	9.5	6.6	6.6	9.3	1.2	1.6

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

1. Customized Specifications are welcome
2. Operating temperature range －50℃～155℃(Including self - temperature rise)
3. Isat for Inductance drop 20% from its value without current
4. Irms for a 40℃ temprature rise from 25℃ ambient with current
5. Measure Equipment:
   L: WK4237
   RDC: CHEN HWA502
   Isat: WK3260B/ 3265
   Irms: WK3260B/ 3265

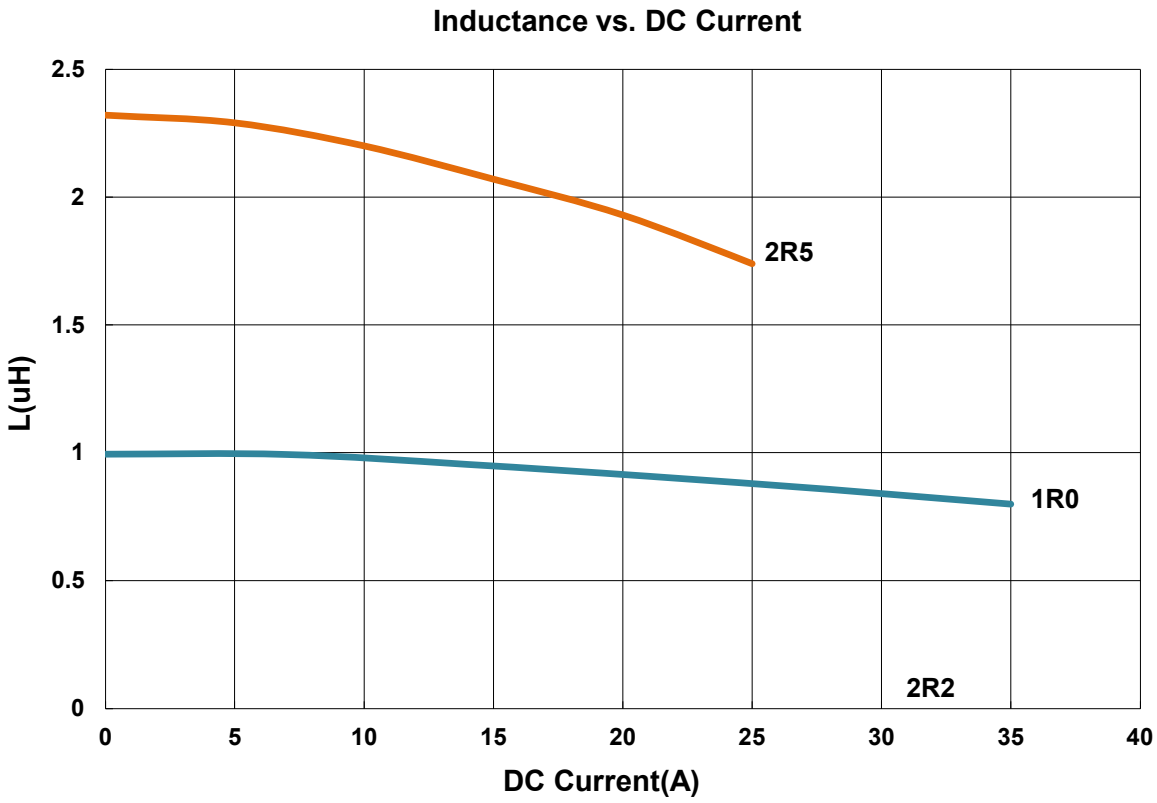
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

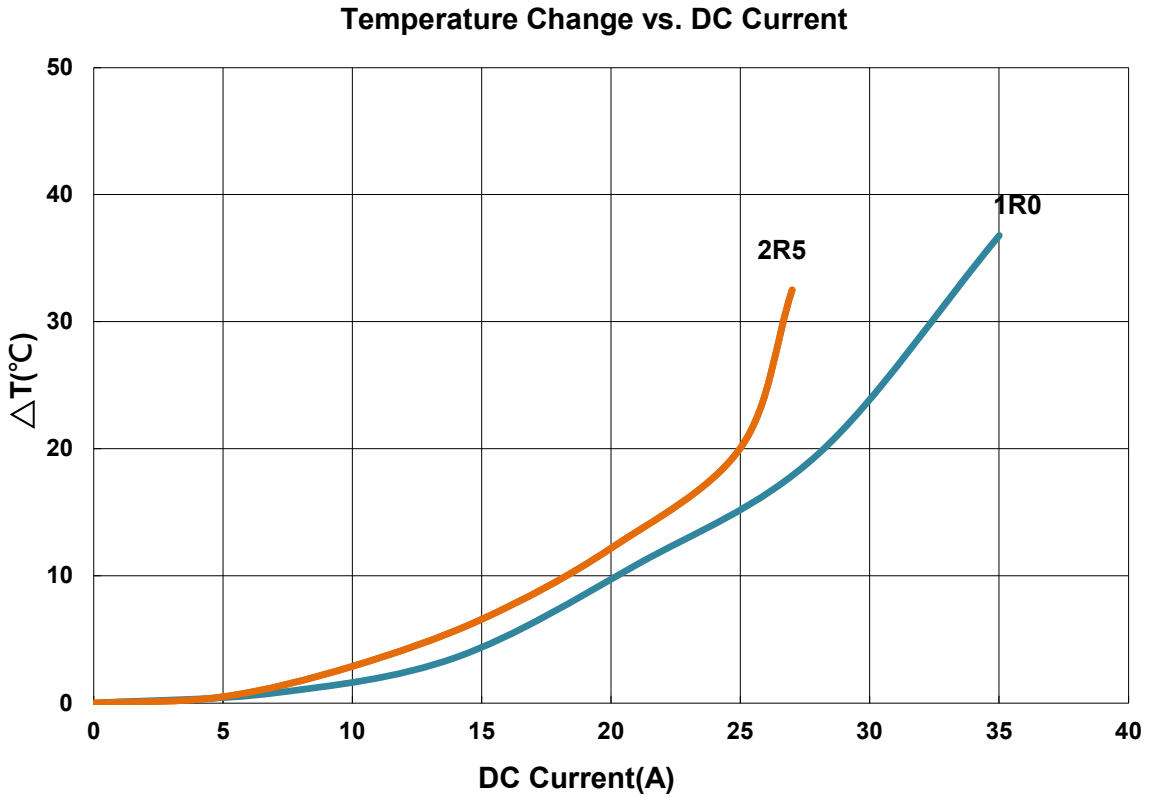
Leaded Power Chokes AFDI Series

Automotive
AEC-Q200

AFDI00111109 Type

■ Characteristics Graph





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Pulse a YAGEO company

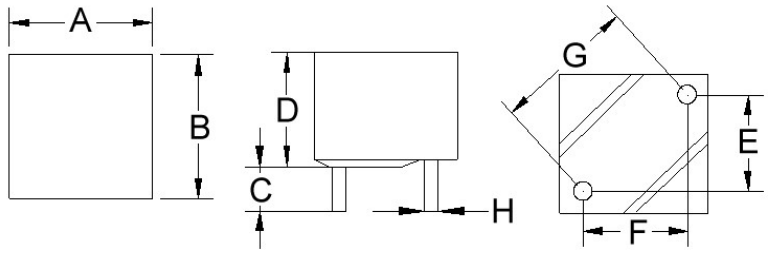
CHILISIN ELECTRONICS CORP.

Leaded Power Chokes AFDI Series

Automotive
AEC-Q200

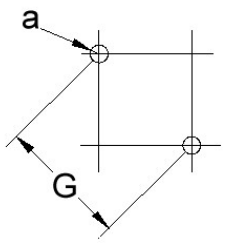
AFDI00121210 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	L (uH)	Test Freq.	RDC(mΩ) Typ(Max)	Isat (A)Typ.	Irms (A)Typ.	Tol. (±%)	Dimensions								
							A±0.5	B±0.5	C±0.5	D Max	E±0.5	F±0.5	G±0.5	H±0.1	a
AFDI001212104R7M01	4.7	100kHz,1V	4.51(6)	16	15	20	12Max	12Max	3.4	10	7	7	10	1.1	1.5
AFDI001212108R2M01	8.2	100kHz,1V	7.92(9.3)	8	11	20	12	12	3.4	10	7	7	10	1	1.4

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

1. Customized Specifications are welcome
2. Operating temperature range －50℃～155℃(Including self - temperature rise)
3. Isat for Inductance drop 20% from its value without current
4. Irms for a 40℃ temprature rise from 25℃ ambient with current
5. Measure Equipment:
   L: WK4237
   RDC: CHEN HWA502
   Isat: WK3260B/ 3265
   Irms: WK3260B/ 3265

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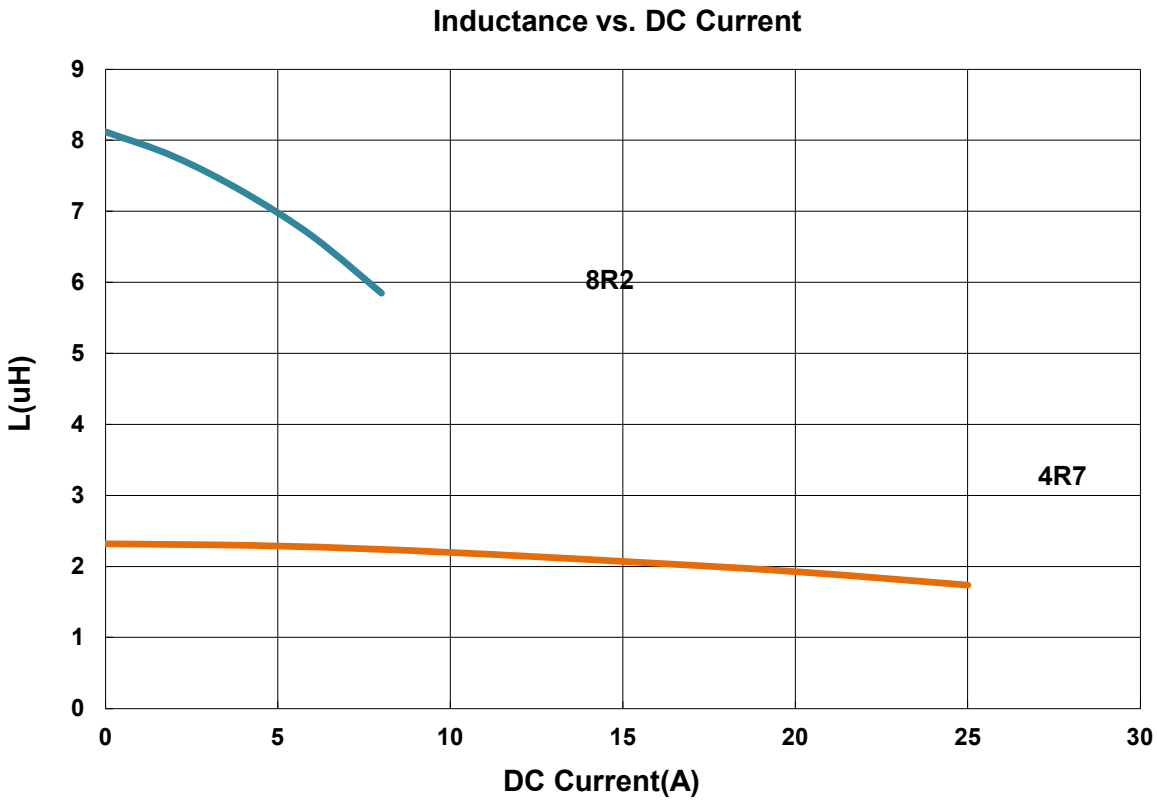
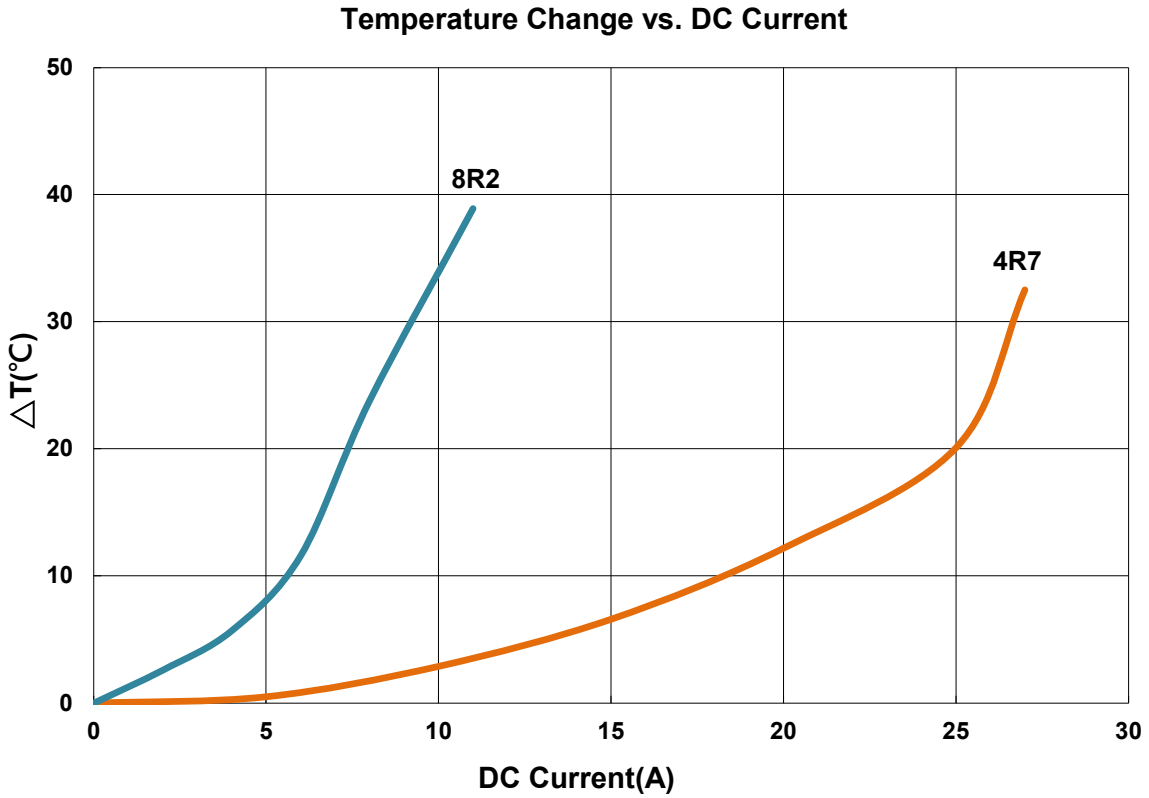
Leaded Power Chokes AFDI Series

Automotive
AEC-Q200

AFDI00121210 Type

■ Characteristics Graph





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Pulse a YAGEO company

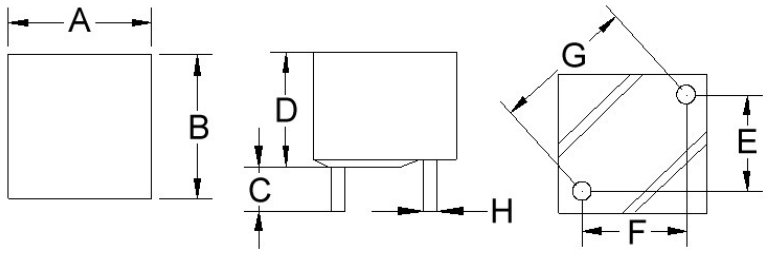
CHILISIN ELECTRONICS CORP.

Leaded Power Chokes AFDI Series

Automotive AEC-Q200

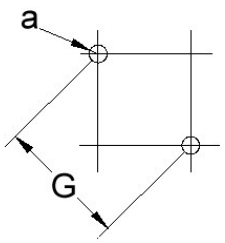
AFDI00131210 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	L (uH)	Test Freq.	RDC(mΩ) Typ(Max)	Isat (A)Typ.	Irms (A)Typ.	Tol. (±%)	Dimensions A±0.5	B±0.5	C±0.5	D Max	E±0.5	F±0.5	G±0.5	H±0.1	a
AFDI00131210R60M01	0.6	100kHz,1V	0.88(1)	45	35	20	13	12	3.4	10	6.6	7.6	10	1.5	1.9
AFDI00131210R68M01	0.68	100kHz,1V	0.83(0.88)	50	45	30	12	13	3.5	8	7.6	6.5	10	1.5±0.2	1.9
AFDI001312101R0M01	1	100kHz,1V	1.12(1.32)	40	30	20	13	12	3.4	10	6.6	7.6	10	1.5	1.9
AFDI001312101R5M01	1.5	100kHz,1V	1.81(2)	40	26	20	13	12	3.4	11	6.6	7.6	10	1.2	1.6
AFDI001312102R2M01	2.2	100kHz,1V	1.85(2)	20	20	20	13	12	3.4	10.5	6.6	7.6	10	1.3	1.7
AFDI001312102R5M01	2.5	100kHz,1V	2.44(2.8)	34	28	20	13	12	3.4	10.5	6.6	7.6	10	1.2	1.6
AFDI001312103R3M01	3.3	100kHz,1V	2.55(4)	23	19	20	13	12	3.4	12	6.6	7.6	10	1.2	1.6
AFDI001312104R7M01	4.7	100kHz,1V	4.28(6)	20	20	20	13	12	3.4	12	6.6	7.6	10	1.3	1.7

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

1. Customized Specifications are welcome
2. Operating temperature range －50℃～155℃(Including self - temperature rise)
3. Isat for Inductance drop 20% from its value without current
4. Irms for a 40℃ temprature rise from 25℃ ambient with current
5. Measure Equipment:
   L: WK4237
   RDC: CHEN HWA502
   Isat: WK3260B/ 3265
   Irms: WK3260B/ 3265

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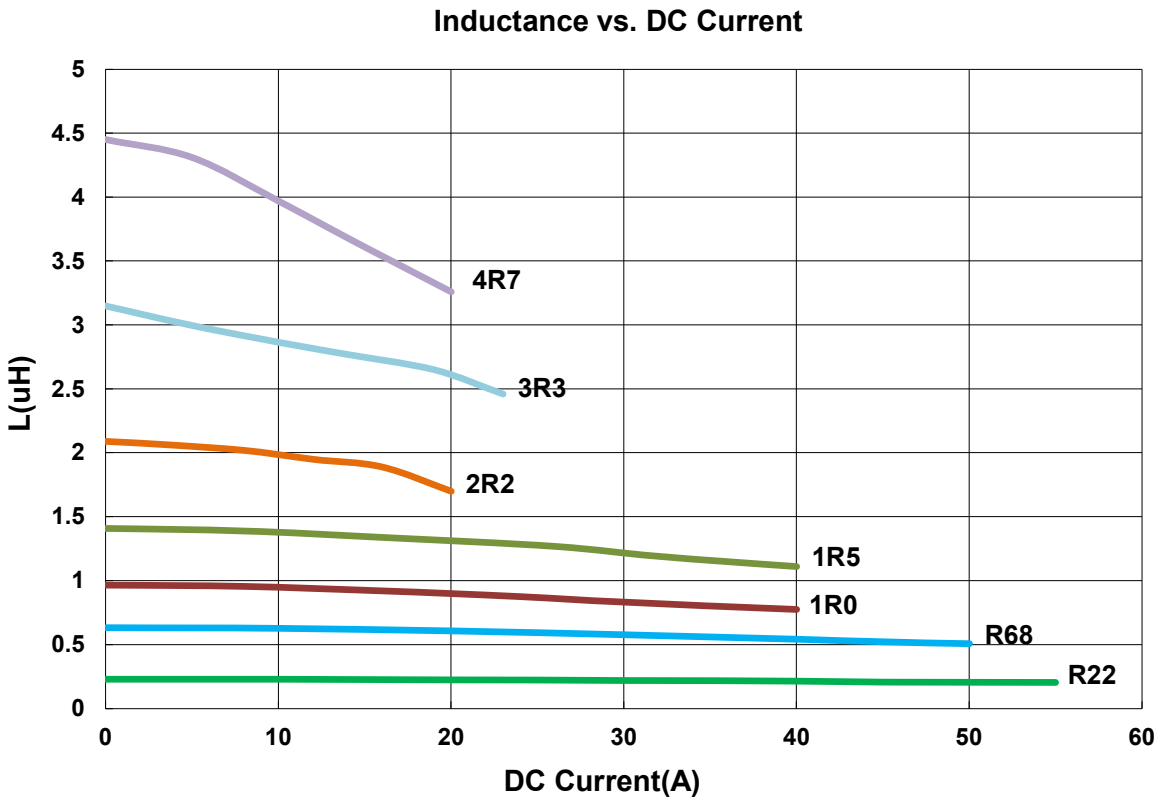
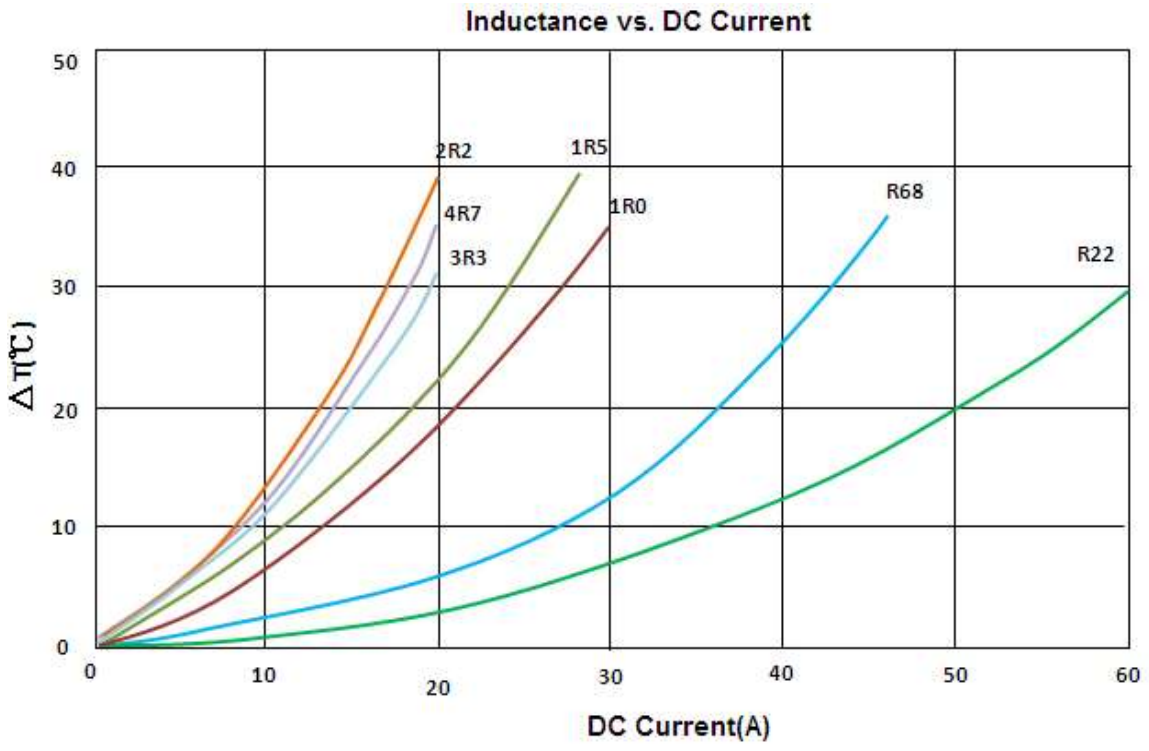
Leaded Power Chokes AFDI Series

Automotive
AEC-Q200

AFDI00131210 Type

■ Characteristics Graph





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Pulse a YAGEO company

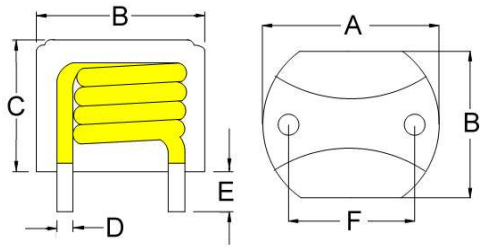
CHILISIN ELECTRONICS CORP.

Leaded Power Chokes AFDI Series

Automotive
AEC-Q200

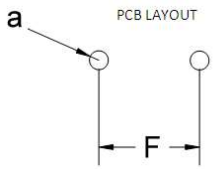
AFDI00161311 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	L (uH)	Test Freq.	RDC(mΩ) Typ(Max)	Isat (A)Typ.	Irms (A)Typ.	Tol. (±%)	Dimensions A±0.5	B±0.5	C Max	D±0.1	E±0.5	F±0.5	a
AFDI001613113R3M01	3.3	100kHz,1V	3.18(3.7)	35	25	20	15.5	13	11	1.2	3.4	10	1.6
AFDI001613116R4M01	6.4	100kHz,1V	5.6(6.5)	20	14	20	15.5	13	12	1.2	4	10	1.6
AFDI001613116R8M01	6.8	100kHz,1V	5.83(6.5)	20	14	20	15.5	13	12	1.2	4	10	1.6
AFDI00161311120M01	12	100kHz,1V	10.02(12)	15	12	20	15.5	13	10	0.9	4	10	1.3
AFDI00161311220M01	22	100kHz,1V	16.97(25)	9	9	20	15.5	13	10.4±0.4	0.8	4	10	1.2

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

1. Customized Specifications are welcome
2. Operating temperature range －50℃～155℃(Including self - temperature rise)
3. Isat for Inductance drop 20% from its value without current
4. Irms for a 40℃ temprature rise from 25℃ ambient with current
5. Measure Equipment:
   L: WK4237
   RDC: CHEN HWA502
   Isat: WK3260B/ 3265
   Irms: WK3260B/ 3265

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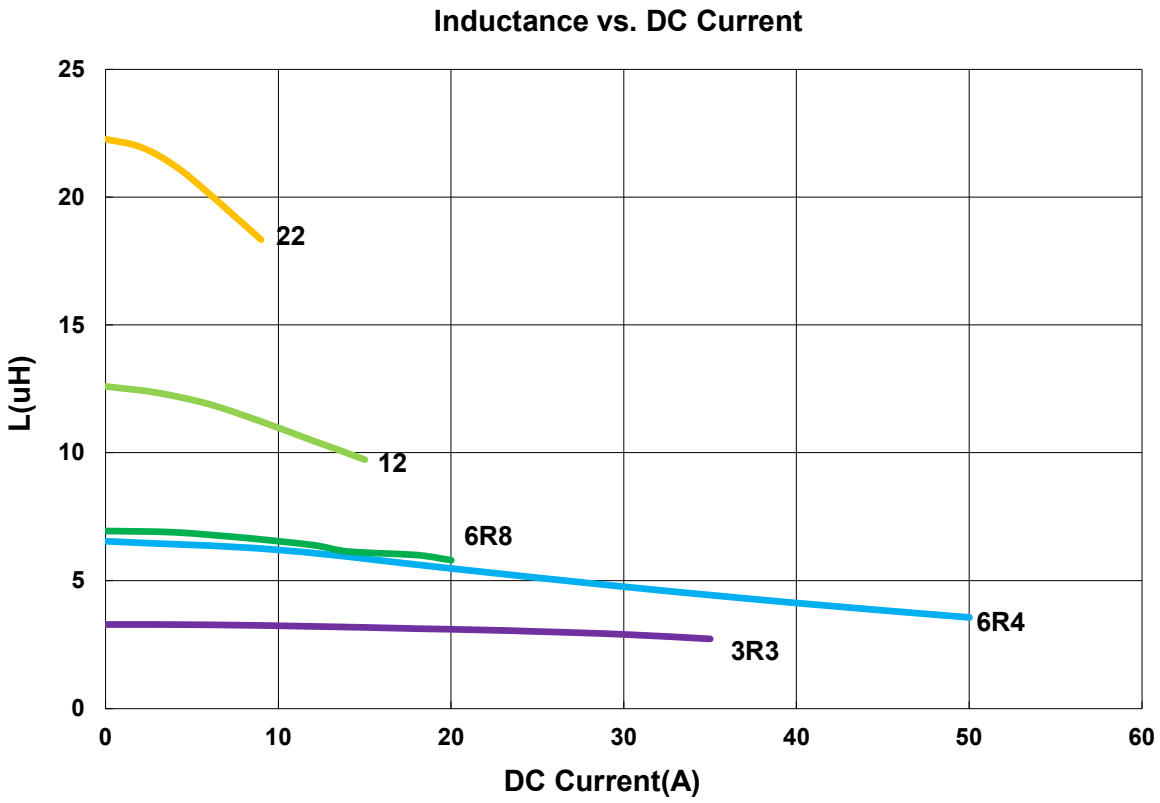
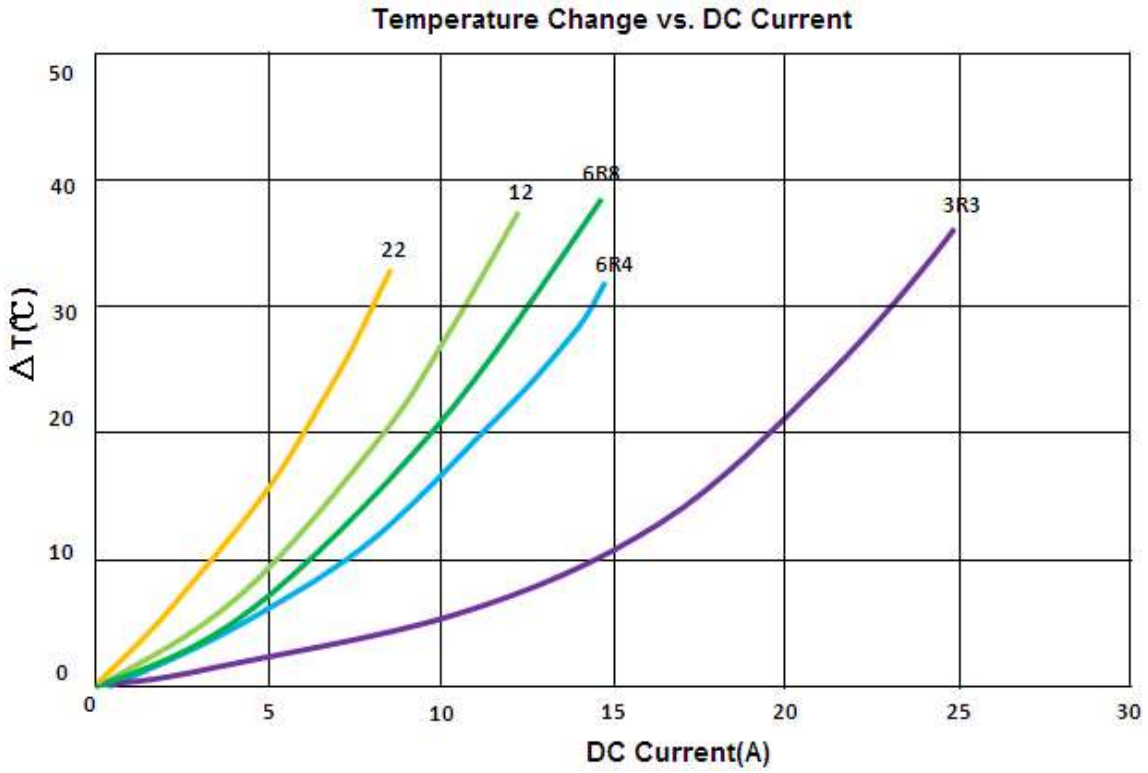
Leaded Power Chokes AFDI Series

Automotive
AEC-Q200

AFDI00161311 Type

■ Characteristics Graph





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Pulse a YAGEO company

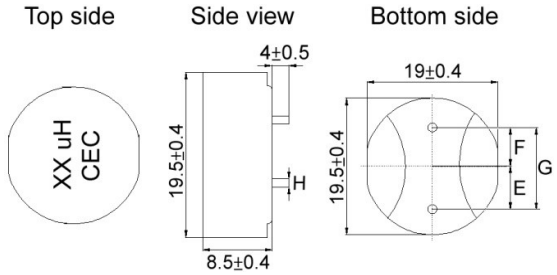
CHILISIN ELECTRONICS CORP.

Leaded Power Chokes AFDI Series

Automotive AEC-Q200

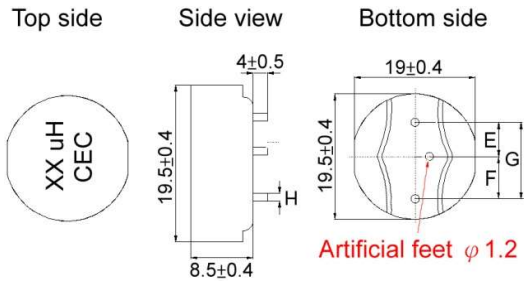
AFDI00191909 Type

■ Dimensions



0.47uH~10uH

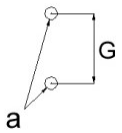
unit:mm

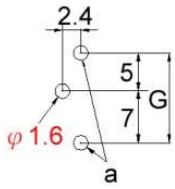


22uH~100uH

unit:mm

■ Recommended Land Pattern





■ Electrical Characteristics

Part No.	L (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tol. (±%)	Marking	Dimensions				
								E	F	G	H	a
AFDI00191909R47M06	0.47	100kHz,1V	0.45(0.33)	75	80	20	0.47 uH	6±0.5	6±0.5	12±0.5	2.0±0.1	2.4
AFDI001919091R0M06	1	100kHz,1V	0.86(0.75)	44	54	20	1.0 uH	6±0.5	6±0.5	12±0.5	1.8±0.1	2.2
AFDI001919092R2M06	2.2	100kHz,1V	1.52(1.32)	38	45	20	2.2 uH	6±0.5	6±0.5	12±0.5	1.8±0.1	2.2
AFDI001919093R3M06	3.3	100kHz,1V	2.3(1.95)	33	39	20	3.3 uH	5.5±0.5	6.5±0.5	12±0.5	1.6±0.1	2
AFDI001919094R7M06	4.7	100kHz,1V	3.2(2.91)	27	31	20	4.7 uH	5±0.5	7±0.5	12±0.5	1.4±0.1	1.8
AFDI001919096R8M06	6.8	100kHz,1V	4.1(3.85)	22	30	20	6.8 uH	5±0.5	7±0.5	12±0.5	1.4±0.1	1.8
AFDI001919098R2M06	8.2	100kHz,1V	6(4.85)	20	24	20	8.2 uH	5±0.5	7±0.5	12±0.5	1.3±0.1	1.7
AFDI00191909100M06	10	100kHz,1V	7(5.85)	18	22	20	10 uH	5±0.5	7±0.5	12±0.5	1.3±0.1	1.7
AFDI00191909220M06	22	100kHz,1V	13(12.06)	13	15	20	22 uH	5±0.5	7±0.5	12±0.5	1.0±0.1	1.4
AFDI00191909330M06	33	100kHz,1V	22.8(20.78)	11	10	20	33 uH	5±0.5	7±0.5	12±0.5	0.9±0.1	1.3
AFDI00191909470M06	47	100kHz,1V	35.2(32)	8	8	20	47 uH	5±0.5	7±0.5	12±0.5	0.8±0.1	1.2
AFDI00191909680M06	68	100kHz,1V	46(40.5)	7	7.5	20	68 uH	5±0.5	7±0.5	12±0.5	0.8±0.1	1.2
AFDI00191909820M06	82	100kHz,1V	56(50.2)	7	6	20	82 uH	5±0.5	7±0.5	12±0.5	0.7±0.1	1.1
AFDI00191909101M06	100	100kHz,1V	62(56.5)	6	6	20	100 uH	5±0.5	7±0.5	12±0.5	0.7±0.1	1.1

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

1. Customized Specifications are welcome
2. Operating temperature range －50℃～155℃(Including self - temperature rise)
3. Isat for Inductance drop 20% from its value without current
4. Irms for a 40℃ temprature rise from 25℃ ambient with current
5. Measure Equipment:
   L: WK4237
   RDC: CHEN HWA502
   Isat: WK3260B/ 3265
   Irms: WK3260B/ 3265

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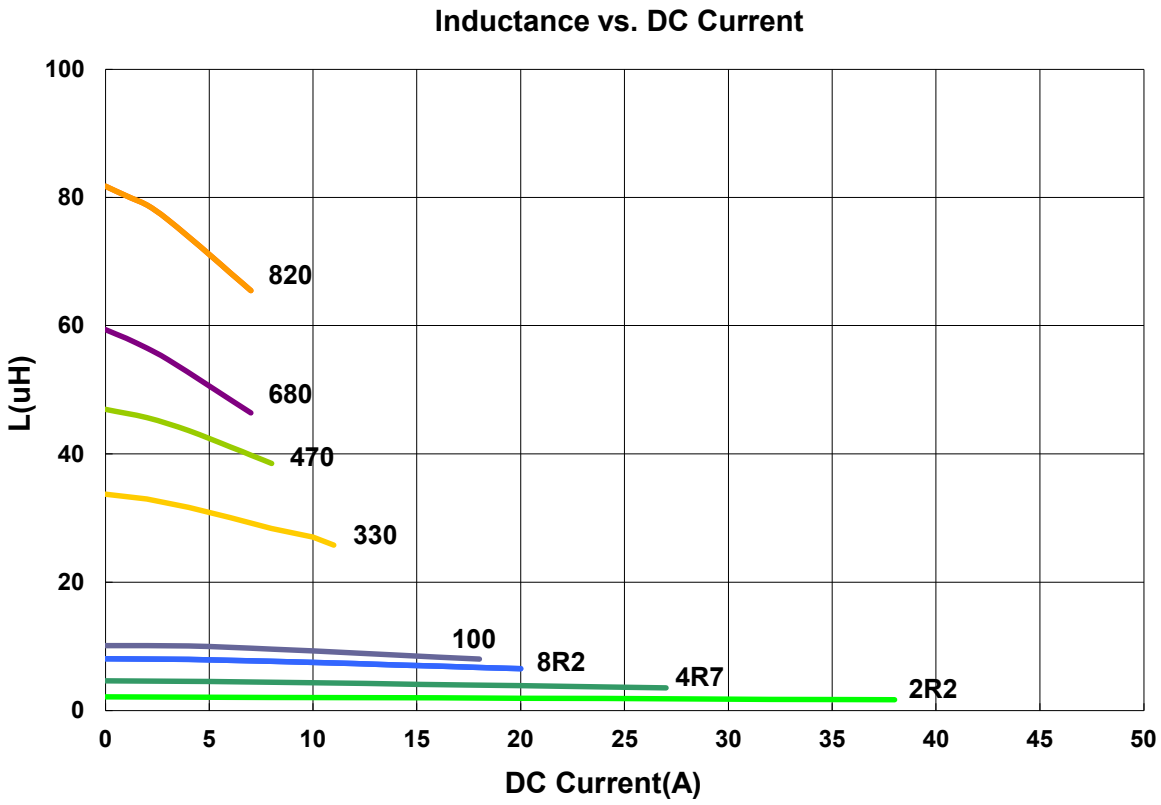
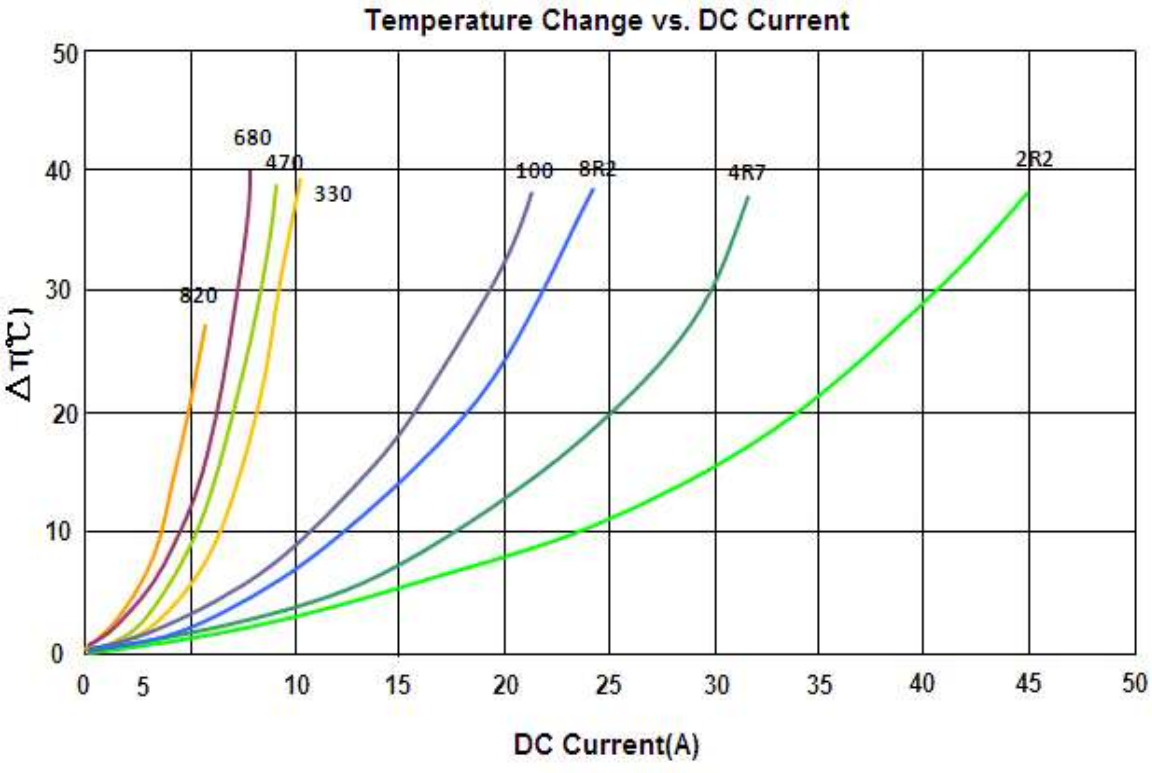
Leaded Power Chokes AFDI Series

Automotive
AEC-Q200

AFDI00191909 Type

■ Characteristics Graph





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Pulse a YAGEO company

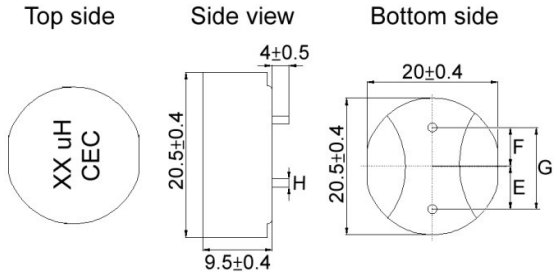
CHILISIN ELECTRONICS CORP.

Leaded Power Chokes AFDI Series

Automotive AEC-Q200

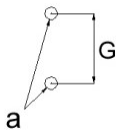
AFDI00212010 Type

■ Dimensions

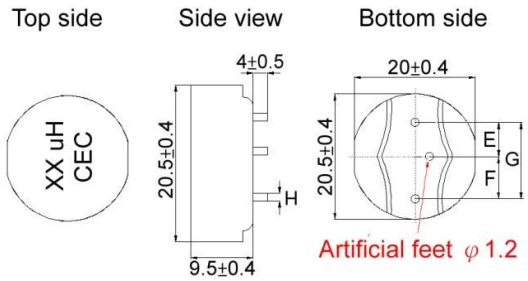


0.47uH~10uH

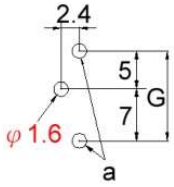
■ Recommended Land Pattern



unit:mm



22uH~100uH



unit:mm

■ Electrical Characteristics

Part No.	L (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tol. (±%)	Marking	Dimensions				
								E	F	G	H	a
AFDI00212010R47M01	0.47	100kHz,1V	0.44(0.31)	65	65	20	0.47 uH	6±0.5	6±0.5	12±0.5	2.0±0.1	2.4
AFDI002120101R0M01	1.0	100kHz,1V	0.88(0.7)	60	62	20	1.0 uH	6±0.5	6±0.5	12±0.5	1.8±0.1	2.2
AFDI002120102R2M01	2.2	100kHz,1V	1.58(1.24)	40	46	20	2.2 uH	6±0.5	6±0.5	12±0.5	1.8±0.1	2.2
AFDI002120103R3M01	3.3	100kHz,1V	2.3(1.81)	34	35	20	3.3 uH	5.5±0.5	6.5±0.5	12±0.5	1.6±0.1	2
AFDI002120104R7M01	4.7	100kHz,1V	2.98(2.59)	30	27	20	4.7 uH	5±0.5	7±0.5	12±0.5	1.4±0.1	1.8
AFDI002120106R8M01	6.8	100kHz,1V	4.12(3.72)	28	25	20	6.8 uH	5±0.5	7±0.5	12±0.5	1.4±0.1	1.8
AFDI002120108R2M01	8.2	100kHz,1V	5.8(4.53)	26	21	20	8.2 uH	5±0.5	7±0.5	12±0.5	1.3±0.1	1.7
AFDI00212010100M01	10	100kHz,1V	7(5.57)	25	20	20	10 uH	5±0.5	7±0.5	12±0.5	1.3±0.1	1.7
AFDI00212010220M01	22	100kHz,1V	13.1(12.6)	16	13	20	22 uH	5±0.5	7±0.5	12±0.5	1.0±0.1	1.4
AFDI00212010330M01	33	100kHz,1V	22(18.9)	12	10	20	33 uH	5±0.5	7±0.5	12±0.5	0.9±0.1	1.3
AFDI00212010470M01	47	100kHz,1V	35.6(30.65)	10	8	20	47 uH	5±0.5	7±0.5	12±0.5	0.8±0.1	1.2
AFDI00212010680M01	68	100kHz,1V	44.8(38)	11	7	20	68 uH	5±0.5	7±0.5	12±0.5	0.8±0.1	1.2
AFDI00212010820M01	82	100kHz,1V	55.8(48.86)	9	6.4	20	82 uH	5±0.5	7±0.5	12±0.5	0.7±0.1	1.1
AFDI00212010101M01	100	100kHz,1V	62(54.51)	9	5.8	20	100 uH	5±0.5	7±0.5	12±0.5	0.7±0.1	1.1

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

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2. Operating temperature range －50℃～155℃(Including self - temperature rise)
3. Isat for Inductance drop 20% from its value without current
4. Irms for a 40℃ temprature rise from 25℃ ambient with current
5. Measure Equipment:
   L: WK4237
   RDC: CHEN HWA502
   Isat: WK3260B/ 3265
   Irms: WK3260B/ 3265

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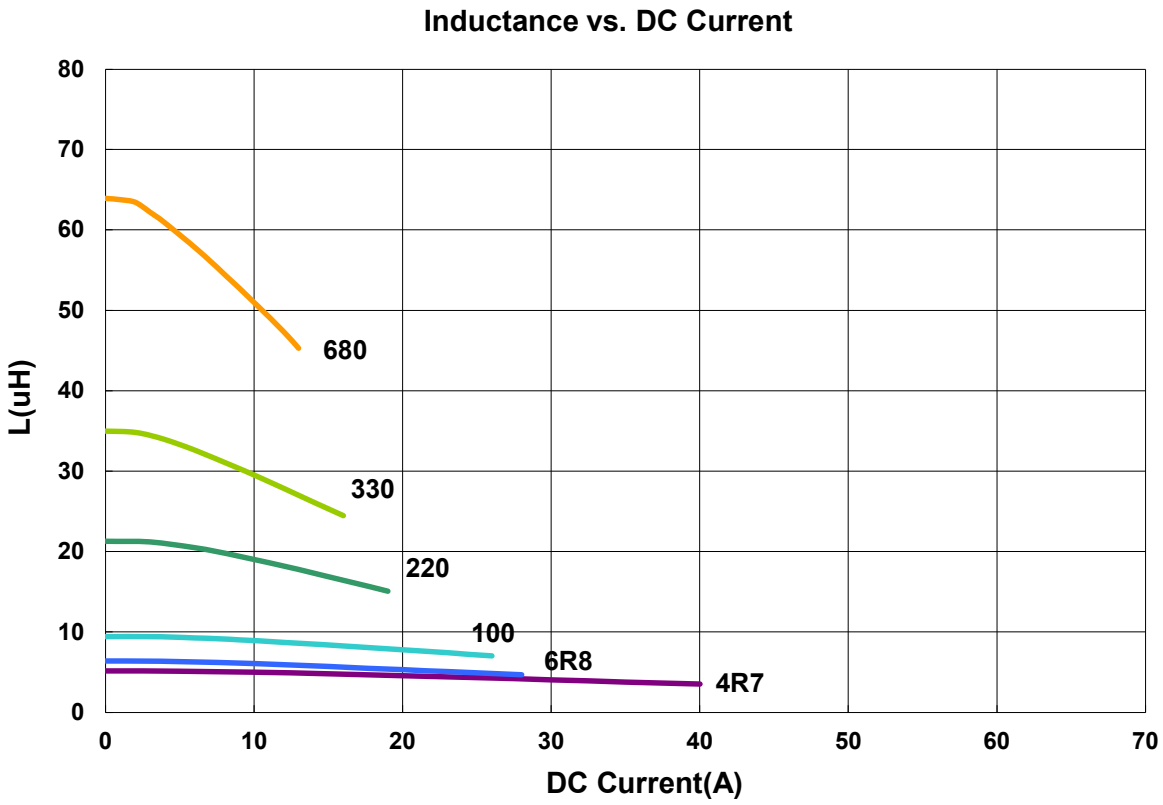
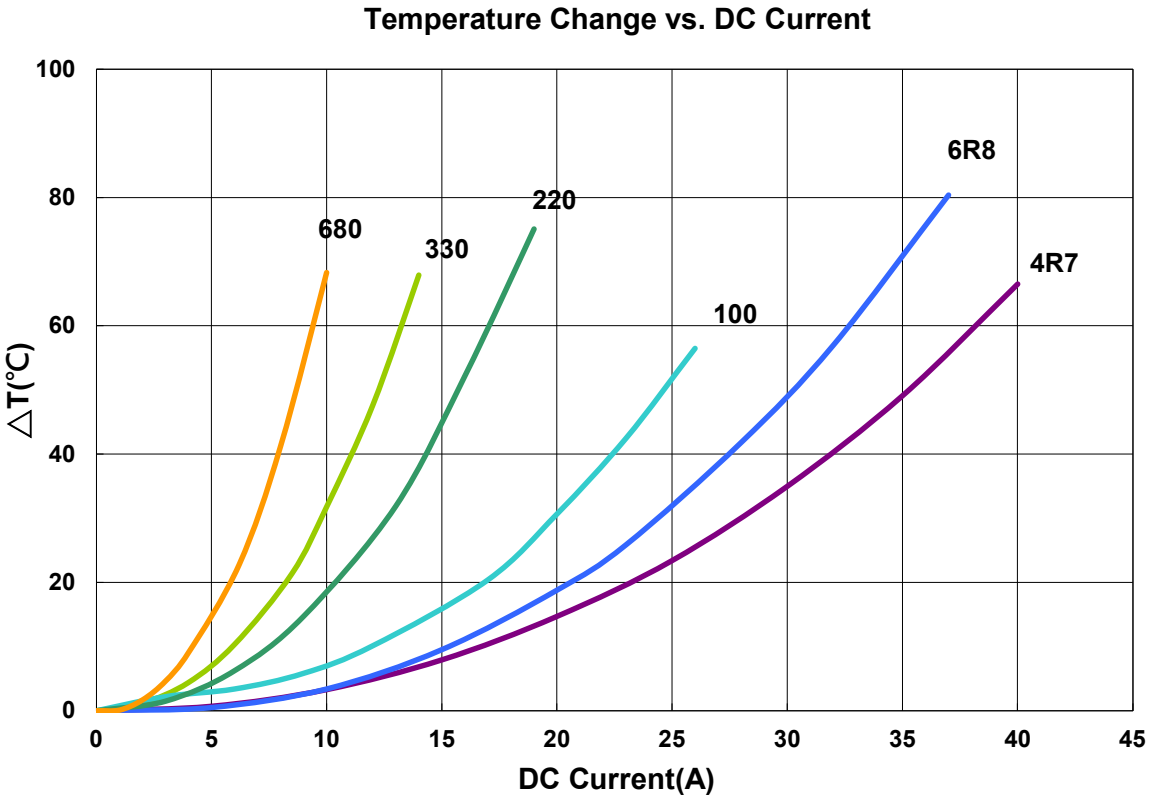
Leaded Power Chokes AFDI Series

Automotive
AEC-Q200

AFDI00212010 Type

■ Characteristics Graph





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Pulse a YAGEO company

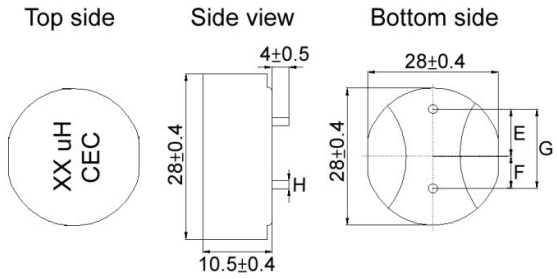
CHILISIN ELECTRONICS CORP.

Leaded Power Chokes AFDI Series

Automotive
AEC-Q200

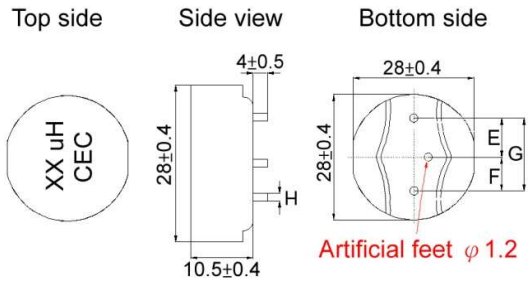
AFDI00282811 Type

■ Dimensions



1.0uH~47uH

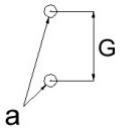
unit:mm

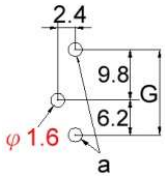


68uH~100uH

unit:mm

■ Recommended Land Pattern





■ Electrical Characteristics

Part No.	L (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tol. (±%)	Marking	Dimensions				
								E	F	G	H	a
AFDI002828111R0M06	1.0	100kHz,1V	0.49(0.4)	70	90	20	1.0 uH	9.3±0.5	6.7±0.5	16±0.5	2.5±0.1	2.9
AFDI002828112R2M06	2.2	100kHz,1V	0.77(0.72)	64	72	20	2.2 uH	9.3±0.5	6.7±0.5	16±0.5	2.5±0.1	2.9
AFDI002828113R3M06	3.3	100kHz,1V	1.3(1.14)	60	57	20	3.3 uH	9.3±0.5	6.7±0.5	16±0.5	2.3±0.1	2.7
AFDI002828114R7M06	4.7	100kHz,1V	1.43(1.36)	52	53	20	4.7 uH	9.3±0.5	6.7±0.5	16±0.5	2.3±0.1	2.7
AFDI002828116R8M06	6.8	100kHz,1V	1.99(1.91)	44	45	20	6.8 uH	9.3±0.5	6.7±0.5	16±0.5	2.0±0.1	2.4
AFDI002828118R2M06	8.2	100kHz,1V	2.8(2.28)	32	40	20	8.2 uH	8±0.5	8±0.5	16±0.5	2.0±0.1	2.4
AFDI00282811100M06	10	100kHz,1V	3.64(3.13)	30	36	20	10 uH	8±0.5	8±0.5	16±0.5	1.8±0.1	2.2
AFDI00282811150M06	15	100kHz,1V	4.76(4.43)	20	28	20	15 uH	10±0.5	6±0.5	16±0.5	1.8±0.2	2.2
AFDI00282811220M06	22	100kHz,1V	6.85(6.47)	19	24	20	22 uH	9.8±0.5	6.2±0.5	16±0.5	1.6±0.1	2.0
AFDI00282811330M06	33	100kHz,1V	11.3(10.51)	18	18	20	33 uH	10±0.5	6±0.5	16±0.5	1.3±0.1	1.7
AFDI00282811470M06	47	100kHz,1V	14.7(13.69)	16.2	16	20	47 uH	10±0.5	6±0.5	16±0.5	1.3±0.1	1.7
AFDI00282811680M06	68	100kHz,1V	27.4(25.73)	11	11	20	68 uH	9.8±0.5	6.2±0.5	16±0.5	1.1±0.1	1.5
AFDI00282811820M06	82	100kHz,1V	30.5(29.3)	8	11	20	82 uH	9.8±0.5	6.2±0.5	16±0.5	1.1±0.1	1.5
AFDI00282811101M06	100	100kHz,1V	32.2(30.61)	7	11	20	100 uH	9.8±0.5	6.2±0.5	16±0.5	1.1±0.1	1.5

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

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   RDC: CHEN HWA502
   Isat: WK3260B/ 3265
   Irms: WK3260B/ 3265

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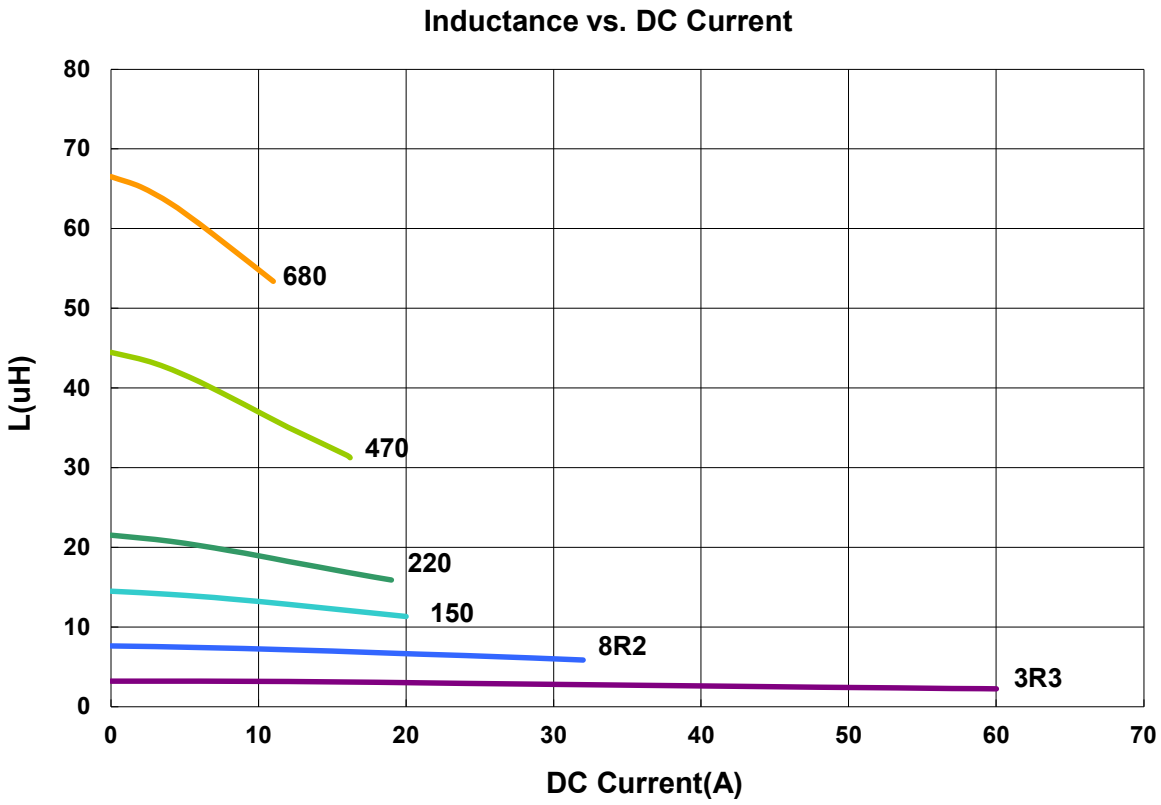
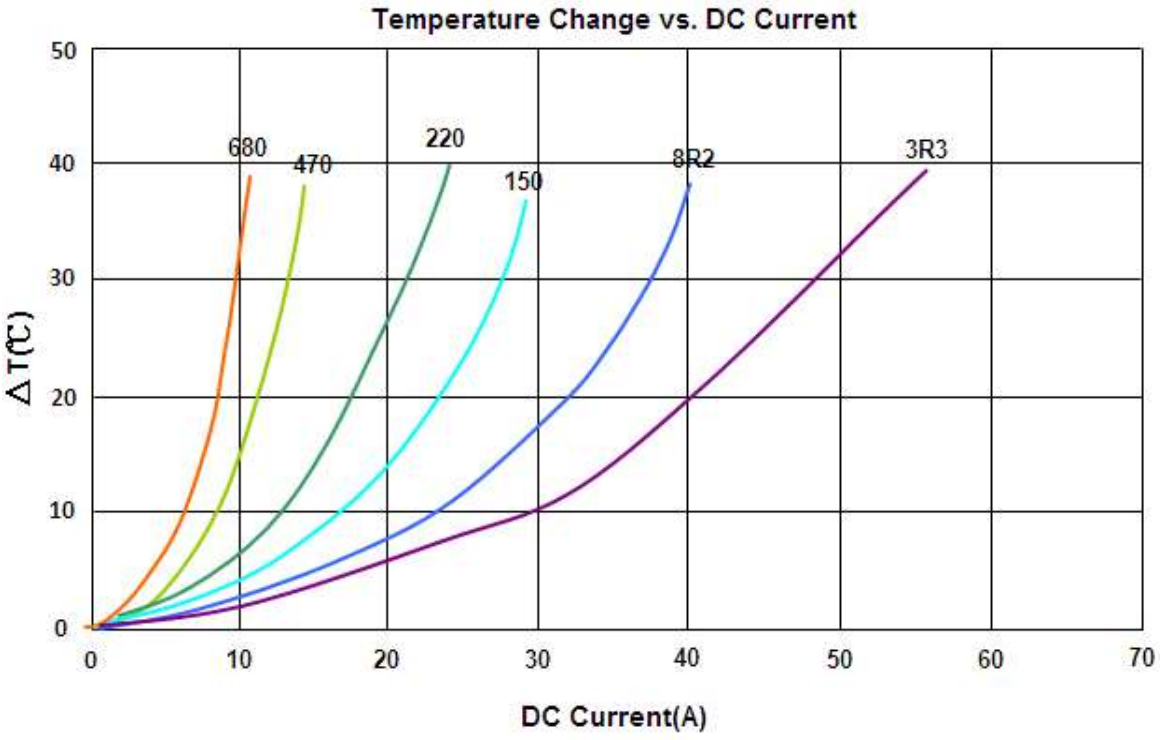
Leaded Power Chokes AFDI Series

Automotive
AEC-Q200

AFDI00282811 Type

■ Characteristics Graph





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Pulse a YAGEO company

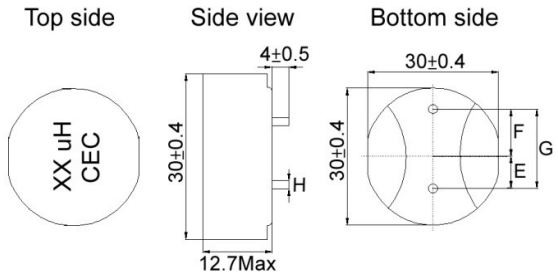
CHILISIN ELECTRONICS CORP.

Leaded Power Chokes AFDI Series

Automotive
AEC-Q200

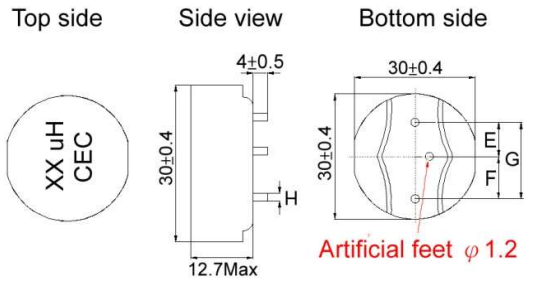
AFDI00303012 Type

■ Dimensions



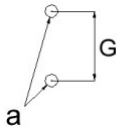
1.0uH~47uH

unit:mm

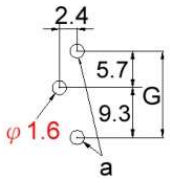


68uH~120uH

■ Recommended Land Pattern



unit:mm



unit:mm

■ Electrical Characteristics

Part No.	L (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tol. (±%)	Marking	Dimensions				
								E	F	G	H	a
AFDI003030121R0M04	1.0	100kHz,1V	0.48(0.38)	65	90	20	1.0 uH	6.8±0.5	9.2±0.5	16±0.5	2.5±0.1	2.9
AFDI003030122R2M04	2.2	100kHz,1V	0.77(0.72)	65	72	20	2.2 uH	6.8±0.5	9.2±0.5	16±0.5	2.5±0.1	2.9
AFDI003030123R3M04	3.3	100kHz,1V	1.48(1.31)	62	60	20	3.3 uH	6.2±0.5	9.8±0.5	16±0.5	2.0±0.1	2.4
AFDI003030124R7M04	4.7	100kHz,1V	1.4(1.31)	53	54	20	4.7 uH	6.8±0.5	9.2±0.5	16±0.5	2.3±0.1	2.7
AFDI003030126R8M04	6.8	100kHz,1V	1.9(1.81)	44	45	20	6.8 uH	6.8±0.5	9.2±0.5	16±0.5	2.3±0.1	2.7
AFDI003030128R2M04	8.2	100kHz,1V	2.9(2.56)	34	37	20	8.2 uH	6.2±0.5	9.8±0.5	16±0.5	2.0±0.1	2.4
AFDI00303012100M04	10	100kHz,1V	3.6(3.2)	32	34	20	10 uH	6.2±0.5	9.8±0.5	16±0.5	1.8±0.1	2.2
AFDI00303012150M04	15	100kHz,1V	4.6(4.16)	28	28	20	15 uH	6.2±0.5	9.8±0.5	16±0.5	1.8±0.2	2.2
AFDI00303012220M04	22	100kHz,1V	6.83(6.43)	23	23	20	22 uH	5.75±0.5	9.25±0.5	15±0.5	1.6±0.1	2
AFDI00303012330M04	33	100kHz,1V	11.3(10.56)	18	18	20	33 uH	5.4±0.5	9.6±0.5	15±0.5	1.3±0.1	1.7
AFDI00303012470M04	47	100kHz,1V	14.6(13.45)	16.2	16	20	47 uH	5.4±0.5	9.6±0.5	15±0.5	1.3±0.1	1.7
AFDI00303012680M04	68	100kHz,1V	27(25.5)	11	12	20	68 uH	5.7±0.5	9.3±0.5	15±0.5	1.1±0.1	1.5
AFDI00303012101M04	100	100kHz,1V	32(29.71)	9	11	20	100 uH	5.7±0.5	9.3±0.5	15±0.5	1.1±0.1	1.5
AFDI00303012121M04	120	100kHz,1V	36(34.21)	8	9	20	120 uH	5.7±0.5	9.3±0.5	15±0.5	1.1±0.1	1.5

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

1. Customized Specifications are welcome
2. Operating temperature range －50℃～155℃(Including self - temperature rise)
3. Isat for Inductance drop 20% from its value without current
4. Irms for a 40℃ temprature rise from 25℃ ambient with current
5. Measure Equipment:
   L: WK4237
   RDC: CHEN HWA502
   Isat: WK3260B/ 3265
   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

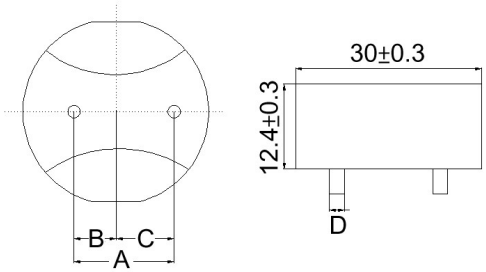
CHILISIN ELECTRONICS CORP.

Leaded Power Chokes AFDI Series

Automotive
AEC-Q200

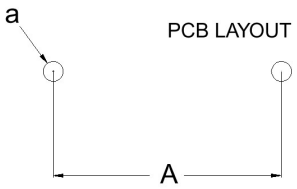
AFDI00303012 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Typ(Max)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking	Dimensions				
								A	B	C	D	a
AFDI003030121R0M04	1.0	100kHz,1V	0.39(0.50)	65	90	20	1.0 uH	16±0.5	6.8±0.5	9.2±0.5	2.5±0.1	2.9

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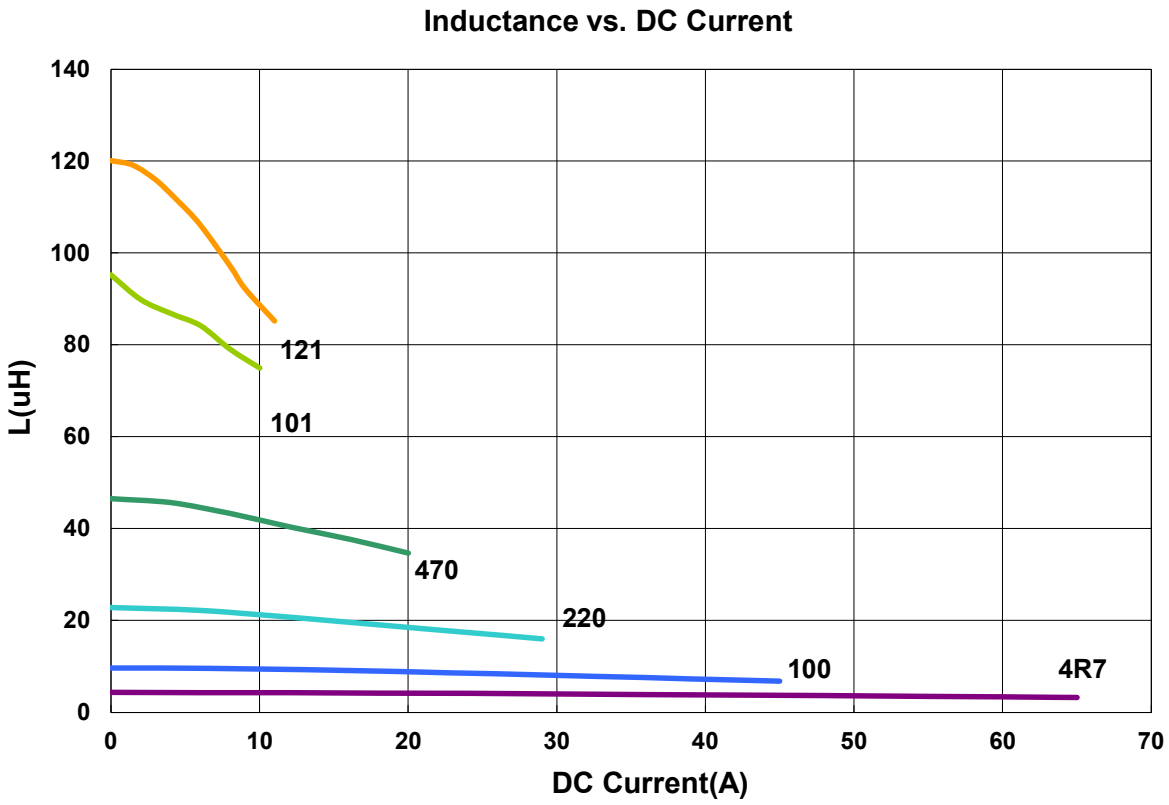
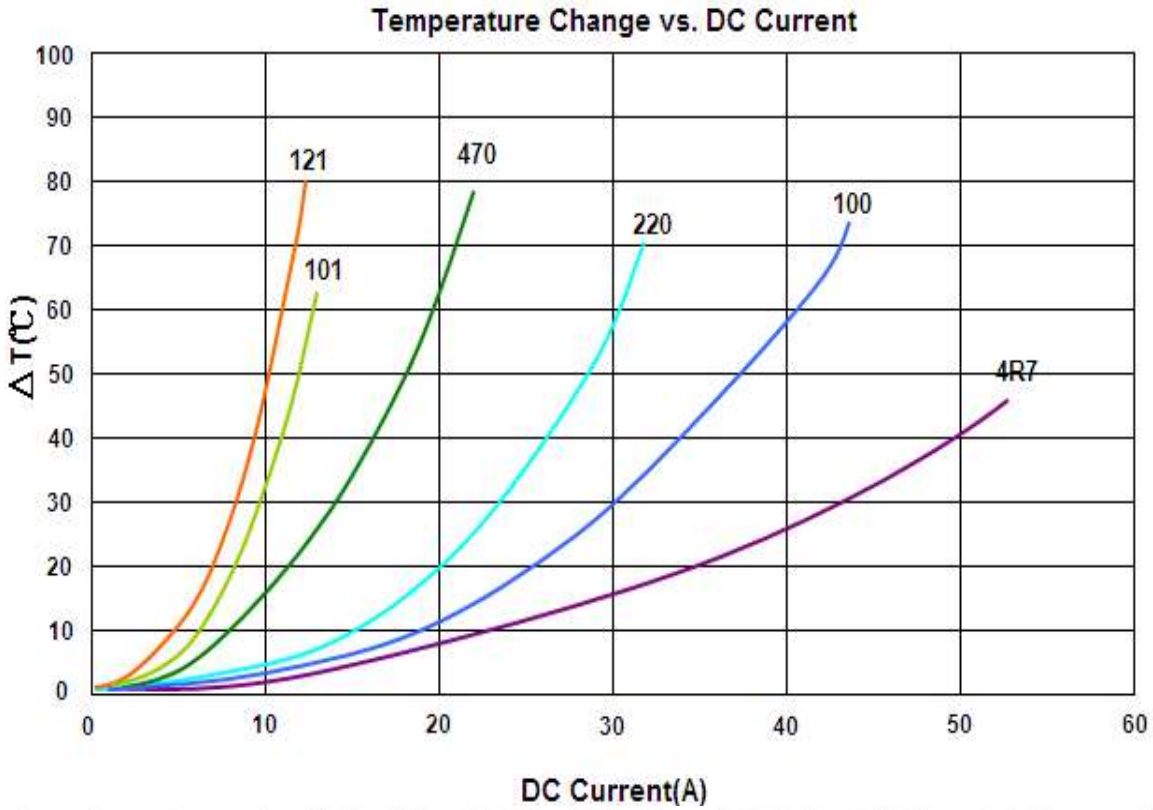
Leaded Power Chokes AFDI Series

Automotive
AEC-Q200

AFDI00303012 Type

■ Characteristics Graph





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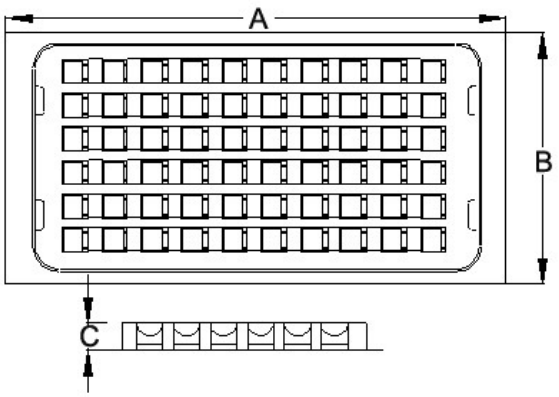
Leaded Power Chokes AFDI Series

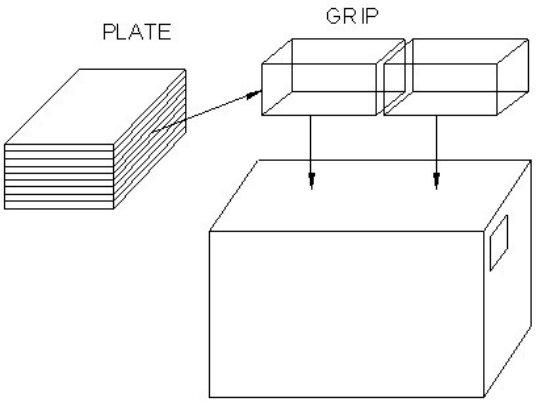
Automotive
AEC-Q200

Packaging

Plate Dimensions



Packaging Quantity



Dimensions in mm

TYPE	Plate Dimensions			Quantity				
	A	B	C	BULK	PLATE	PLATE/GRIP	GRIP	BOX
AFDI00111109	251	138	13	v	100	8	2	1600
AFDI00121210	251	138	13	v	100	8	2	1600
AFDI00131210	251	138	13	v	50	8	2	800
AFDI00161311	251	138	13	v	50	7	2	700
AFDI00191909	252	222	25.5	v	49	5	2	490
AFDI00212010	252	222	25.5	v	49	5	2	490
AFDI00282811	250	220	24	v	25	5	2	250
AFDI00303012	250	220	24	v	25	5	2	250

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