

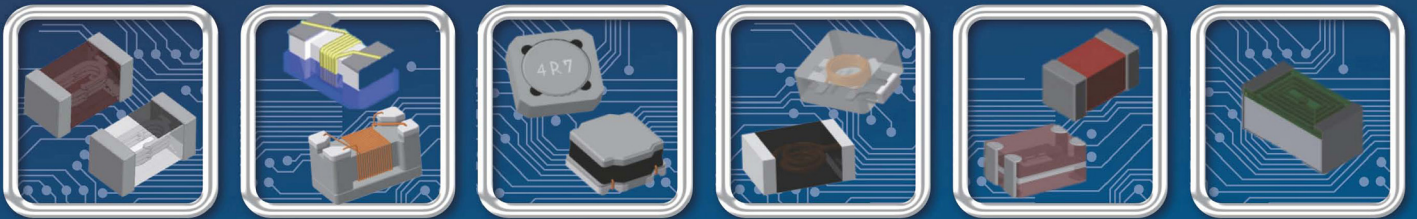


Chilisin Electronics Corp.

Est.1972

Total Solution Provider for Power, EMI and RF.

Inductors SMD Components



Power Inductor ADHE Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



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

Part Numbering

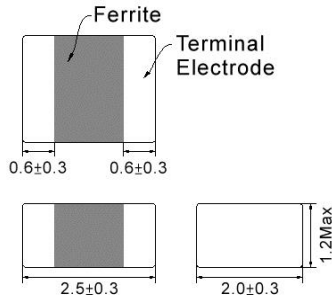
A	DHE	00	252012	1R0	M	Q1
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			252012 2.5x2.0x1.2	R33 0.33 R68 0.68 1R0 1.0	M ±20%	

Power Inductor ADHE Series

**Automotive
AEC-Q200**

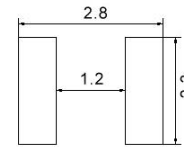
ADHE00252012 Type

■ 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 (±%)
ADHE00252012R33MQ1	0.33	2MHz,0.2V	22(16)	6.2(7.0)	4.7(5.4)	20
ADHE00252012R47MQ1	0.47	2MHz,0.2V	33(28)	5.2(6.1)	4.0(4.7)	20
ADHE00252012R68MQ1	0.68	2MHz,0.2V	36(30)	4.5(5.2)	3.5(4.1)	20
ADHE002520121R0MQ1	1	2MHz,0.2V	42(35)	3.7(4.3)	3.3(3.8)	20
ADHE002520121R5MQ1	1.5	2MHz,0.2V	62(52)	3.3(3.9)	2.3(2.7)	20
ADHE002520122R2MQ1	2.2	2MHz,0.2V	87(74)	2.9(3.4)	2.2(2.6)	20

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

- Operating temperature range - 40°C ~ 125°C (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Absolute maximum voltage 20VDC
- Measure Equipment:
 L: Agilent E4991/HP4286A+16197A (or equivalent), 2MHz 0.2V
 RDC: CHEN HWA502BC/HP4338B (or equivalent)
 Isat: Agilent E4980A+HP42841A (or equivalent)
 Irms: Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)

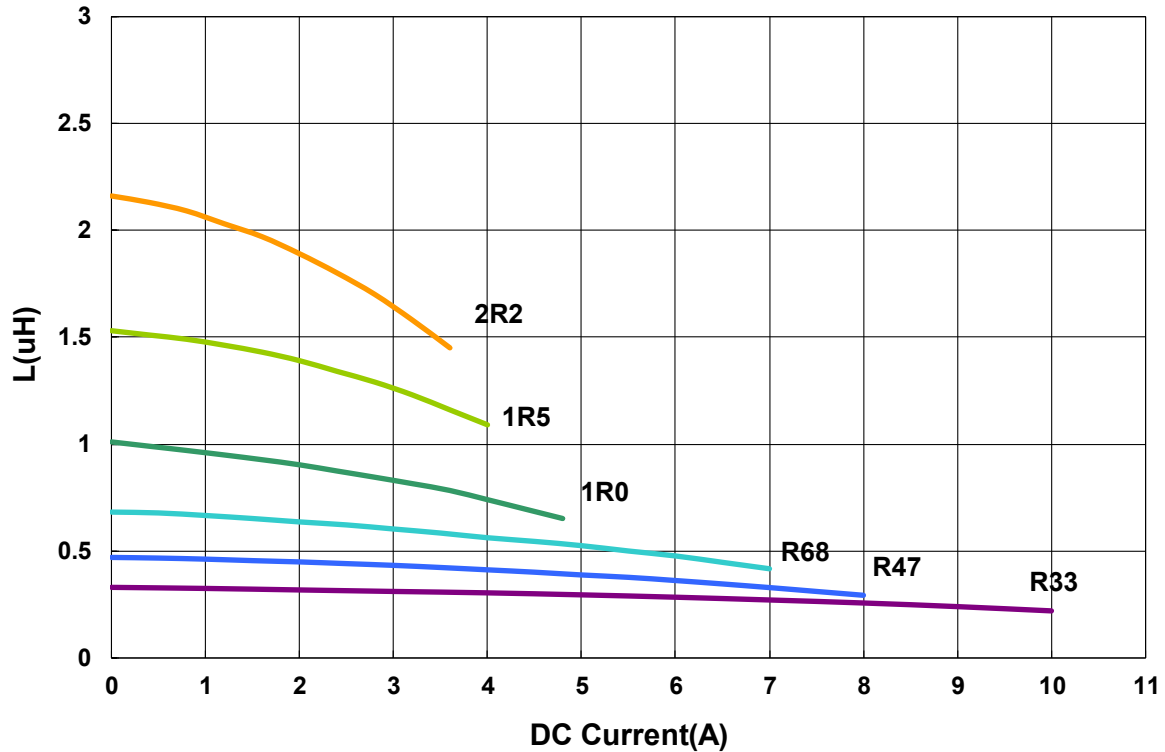
Power Inductor ADHE Series

**Automotive
AEC-Q200**

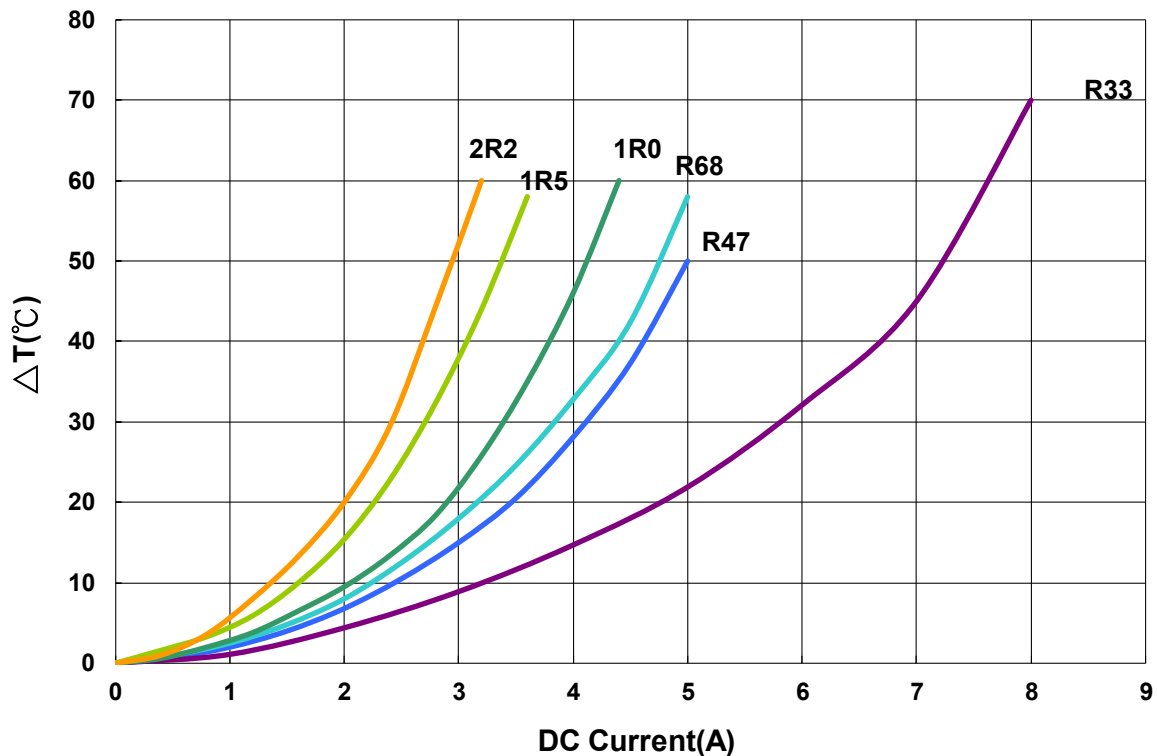
ADHE00252012 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

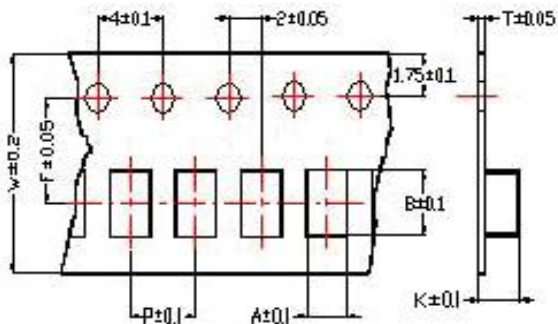


Power Inductor ADHE Series

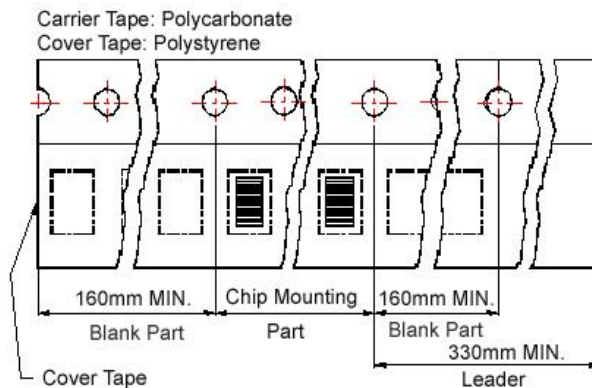
**Automotive
AEC-Q200**

■ Packaging

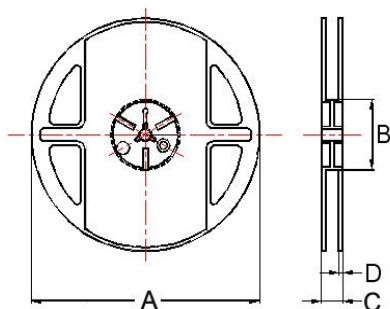
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity PCS / Reel
	A	B	T	W	P	F	K	A	B	C	D	
ADHE00252012	2.25	2.80	0.22	8	4	3.5	1.35	178	60	12	2	3000

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			

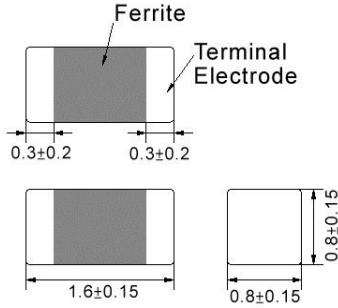
This specification applies to Multilayer Chip Inductors for Automotive Electronics based on AEC-Q200 except for Power train and Safety.

Power Inductor AKPx Series

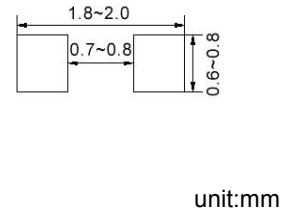
**Automotive
AEC-Q200**

AKPB001608DZ Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance	Test Freq.	RDC	Isat	I _{rms} (mA)Max.		Tolerance
	(uH)				(Ω)±30%	(mA)Max.	
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°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current
3. I_{rms} for When applied current to the Products, temperature rise caused by self-generated heat shall be limited to 40 °C 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

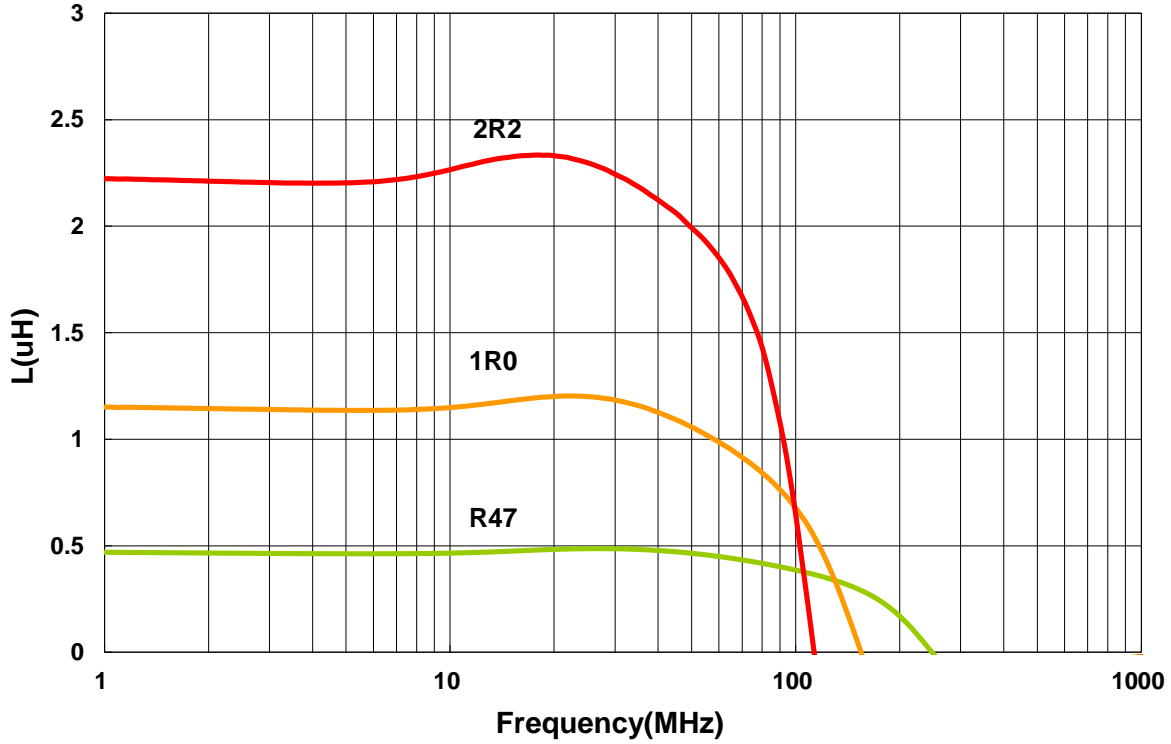
Power Inductor AKPx Series

**Automotive
AEC-Q200**

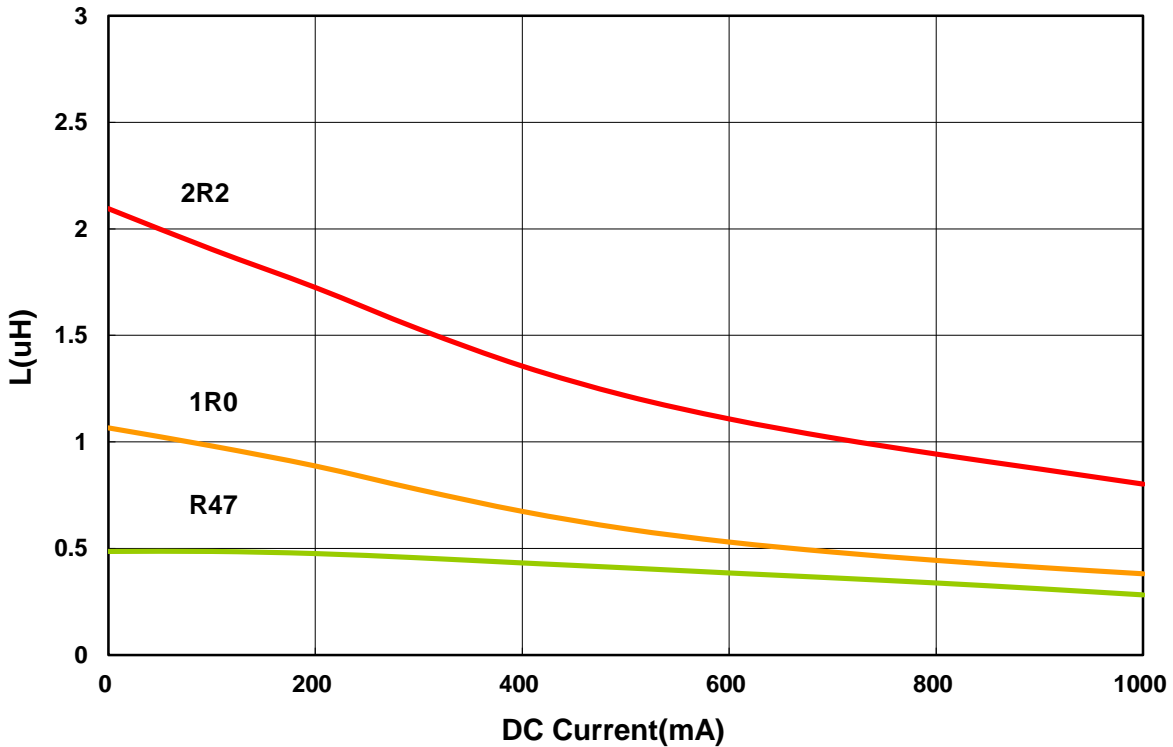
AKPB001608DZ Type

Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

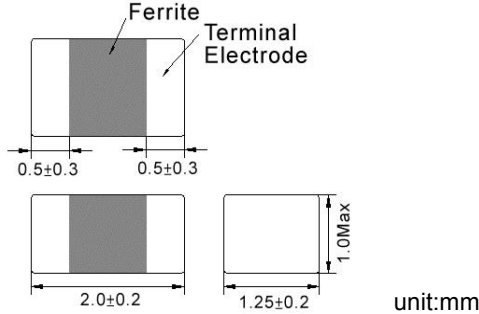


Power Inductor AKPx Series

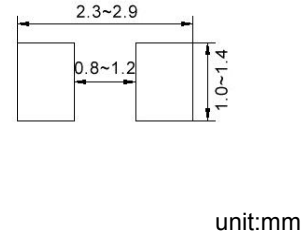
**Automotive
AEC-Q200**

AKPB00201210 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance	Test Freq.	RDC	Isat	Irms(mA)Max.		Tolerance
	(uH)				(Ω)±30%	(mA)Max.	
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°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current
3. I rms for When applied current to the Products, temperature rise caused by self-generated heat shall be limited to 40 °C 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

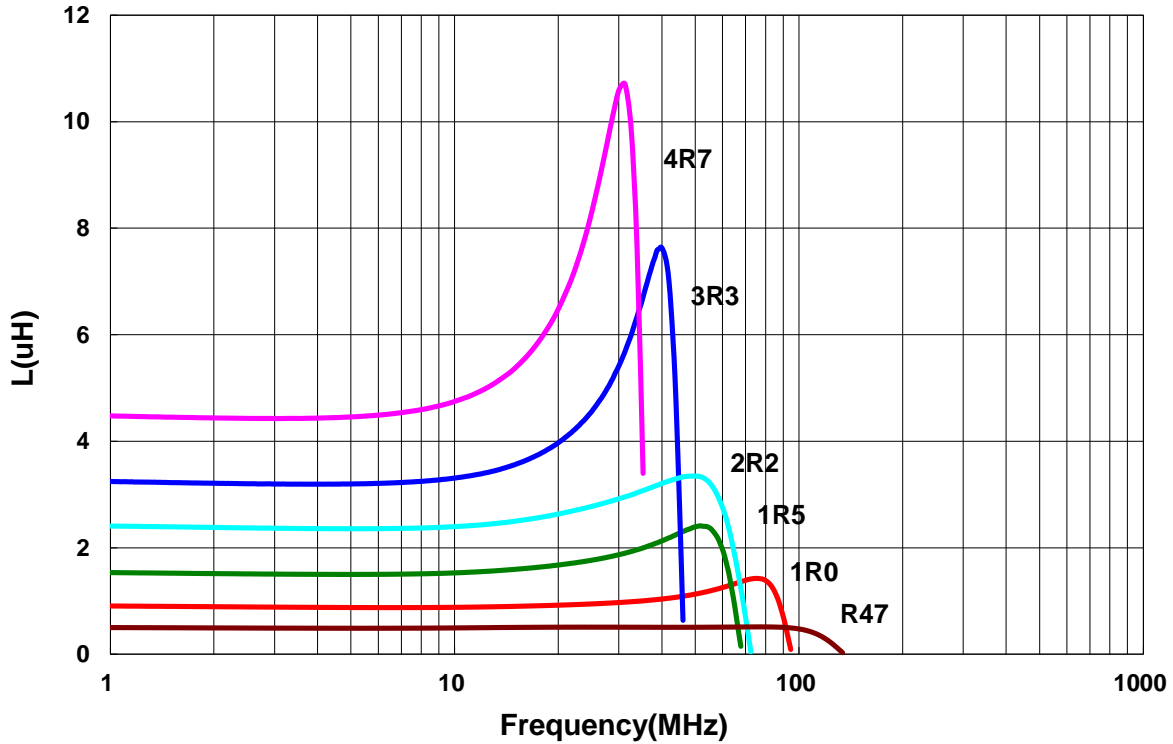
Power Inductor AKPx Series

**Automotive
AEC-Q200**

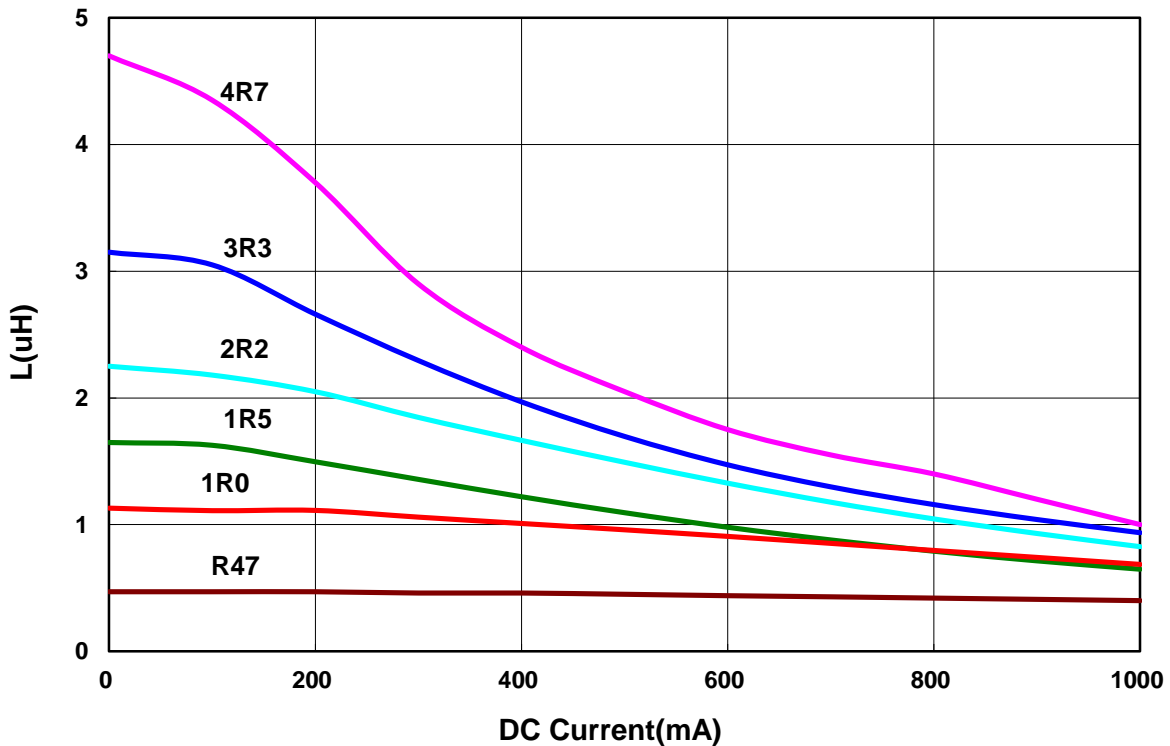
AKPB00201210 Type

Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

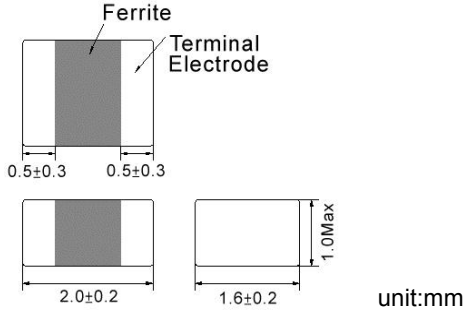


Power Inductor AKPx Series

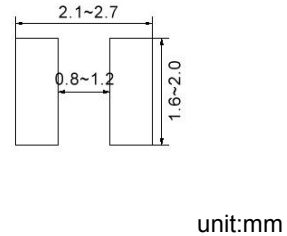
**Automotive
AEC-Q200**

AKPB00201610 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance	Test Freq.	RDC	Isat	I _{rms} (mA)Max.		Tolerance
	(uH)				(Ω)±25%	(mA)Max.	
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°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current
3. I_{rms} for When applied current to the Products, temperature rise caused by self-generated heat shall be limited to 40 °C 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

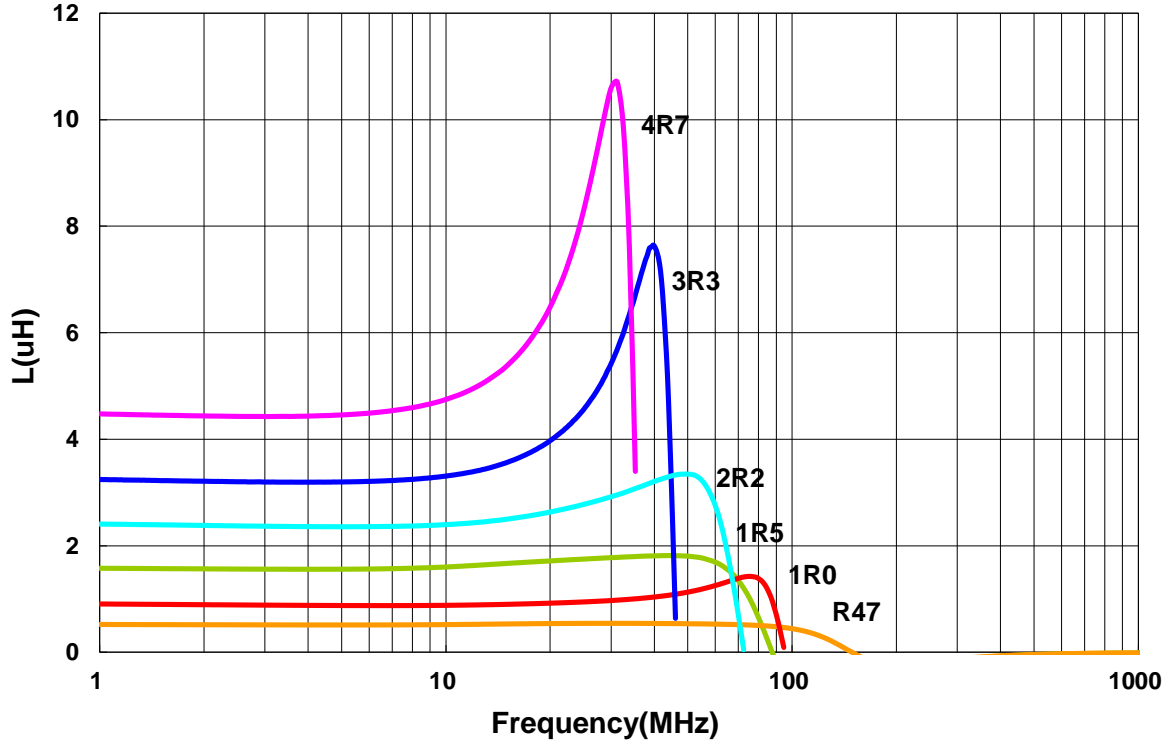
Power Inductor AKPx Series

**Automotive
AEC-Q200**

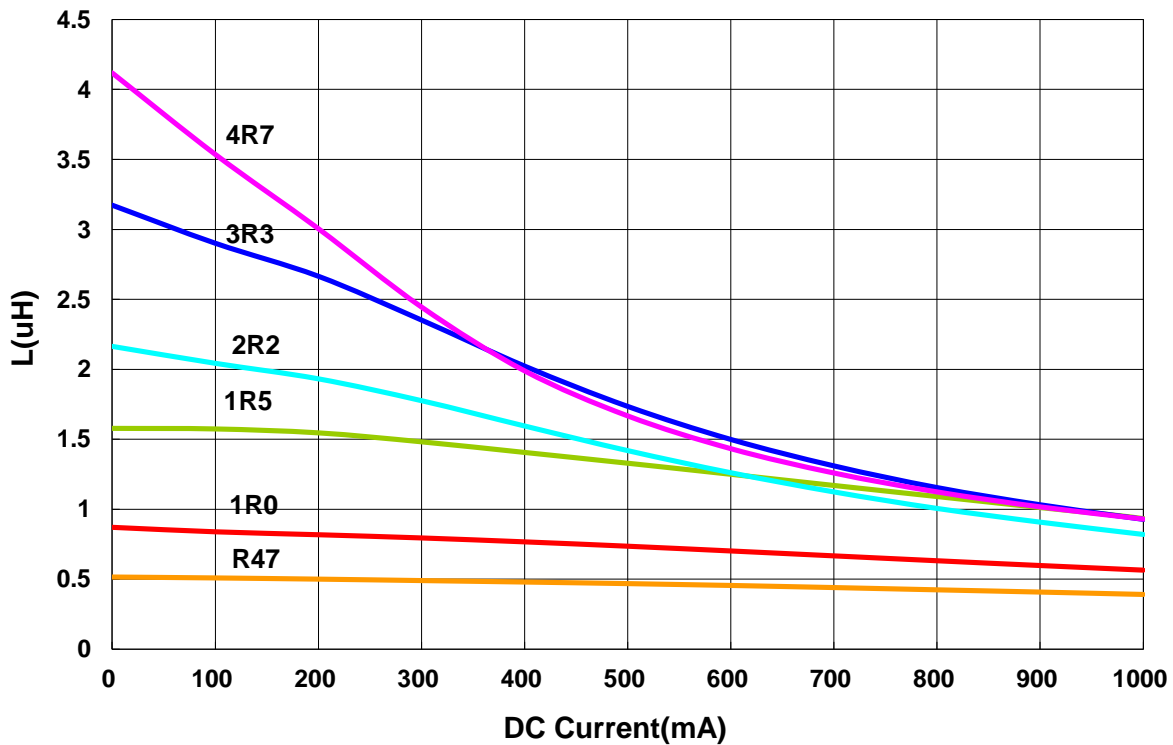
AKPB00201610 Type

Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

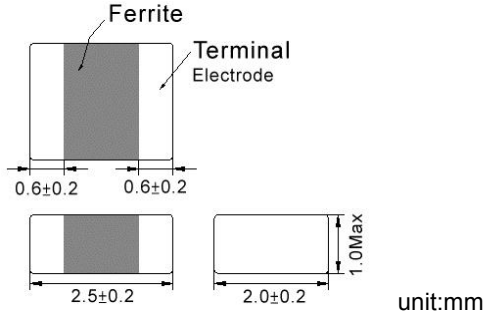


Power Inductor AKPx Series

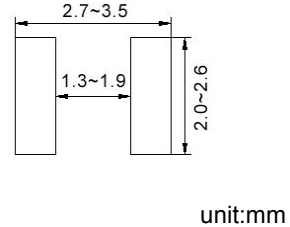
**Automotive
AEC-Q200**

AKPB00252010 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance	Test Freq.	RDC	Isat	I _{rms} (mA)Max.		Tolerance
	(uH)				(Ω)±25%	(mA)Max.	
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

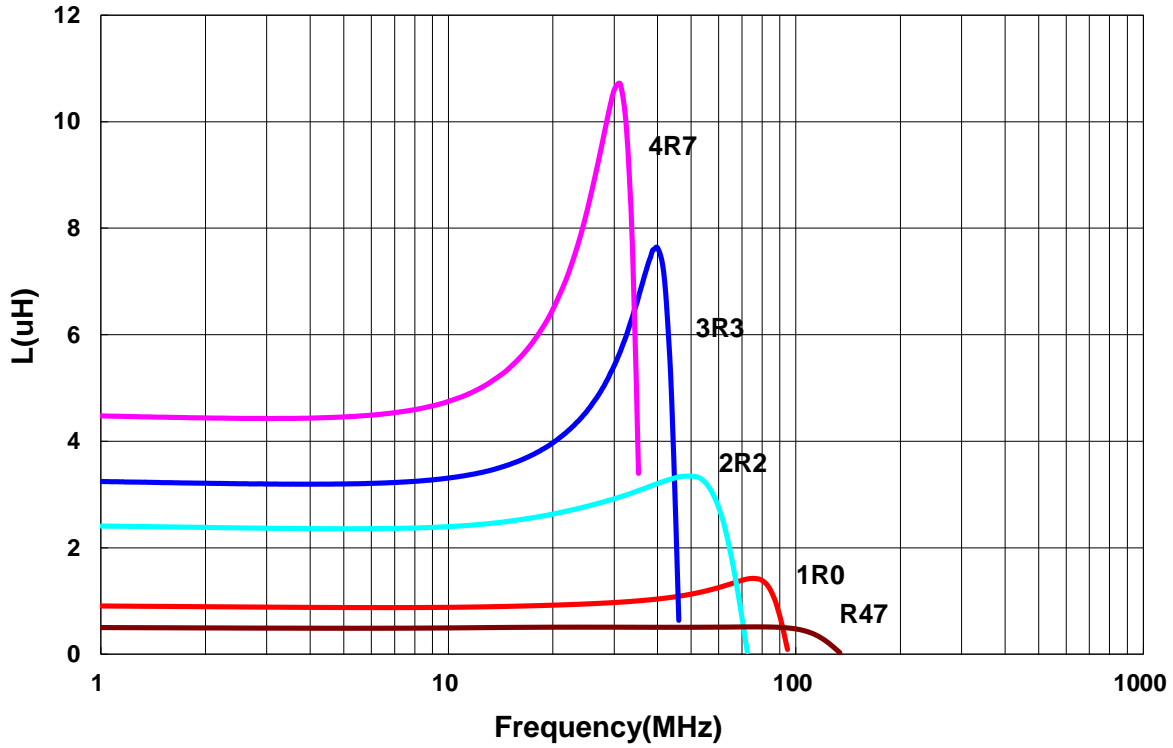
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

1. Operating temperature range - 55°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current
3. I_{rms} for When applied current to the Products, temperature rise caused by self-generated heat shall be limited to 40 °C 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

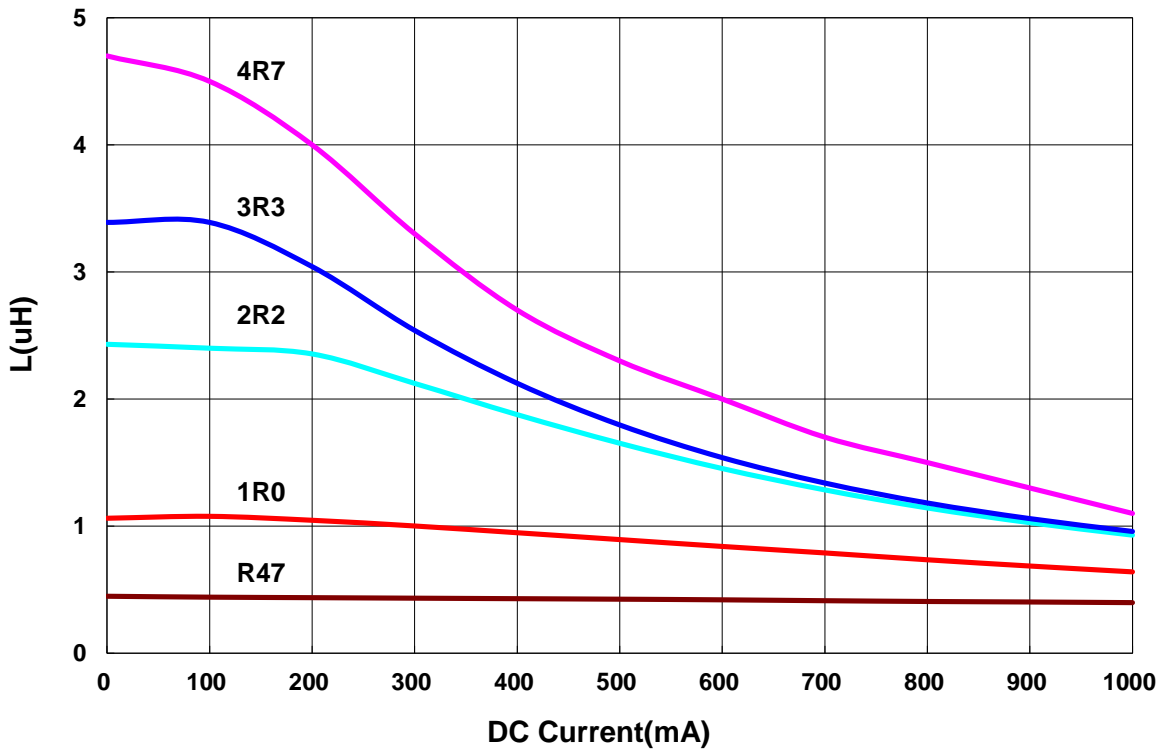
AKPB00252010 Type

■ Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

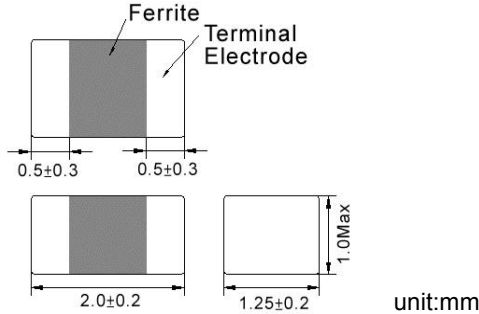


Power Inductor AKPx Series

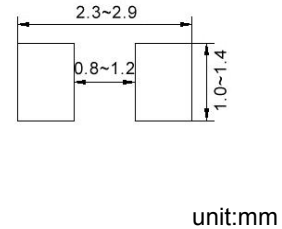
**Automotive
AEC-Q200**

AKPE00201210 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance	Test Freq.	RDC	Isat(mA) Max.	I _{rms} (mA)Max.		Tolerance (±%)
	(uH)				(Ω)±25%	85°C ^{*1}	
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°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current
3. I_{rms} for When applied current to the Products, temperature rise caused by self-generated heat shall be limited to 40 °C 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

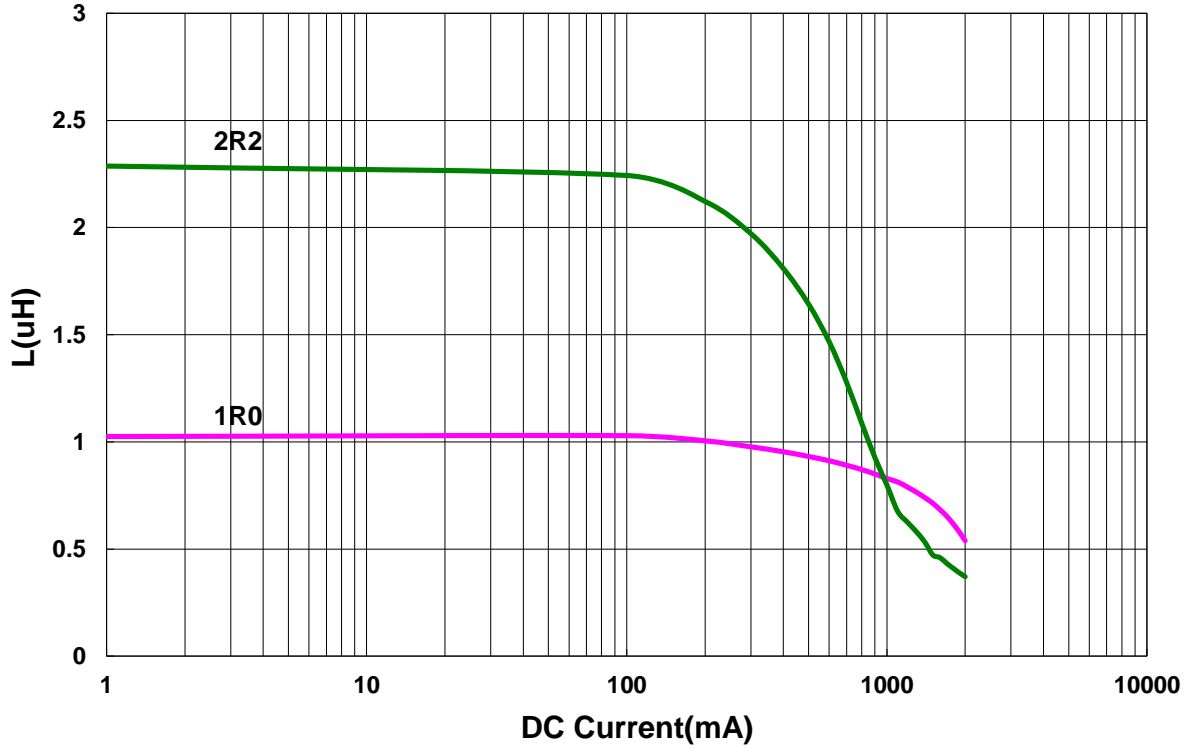
Power Inductor AKPx Series

**Automotive
AEC-Q200**

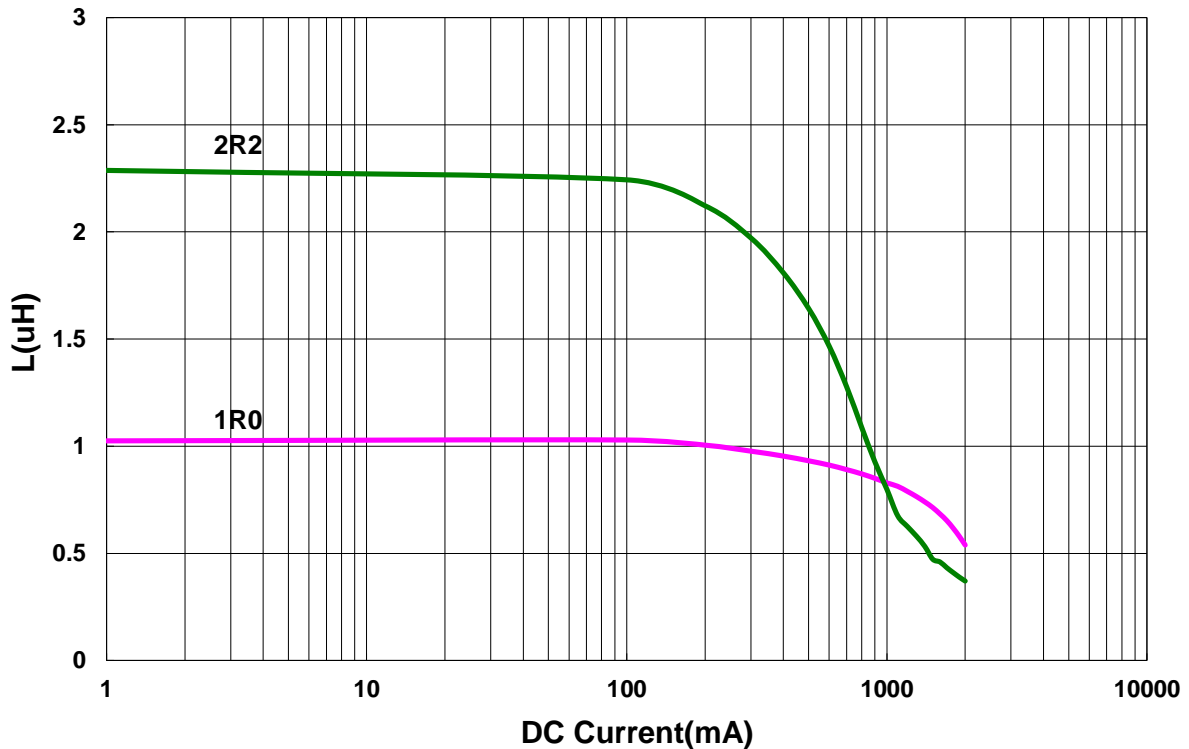
AKPE00201210 Type

■ Characteristics Graph

Inductance vs. DC Current



Inductance vs. DC Current

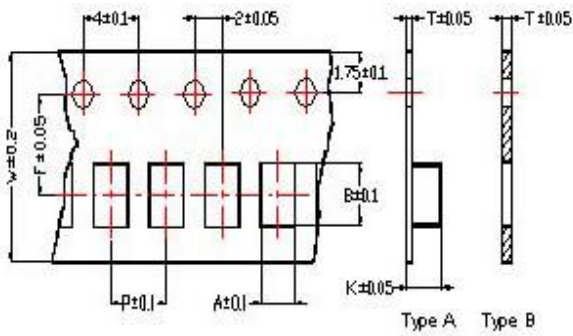


Power Inductor AKPx Series

**Automotive
AEC-Q200**

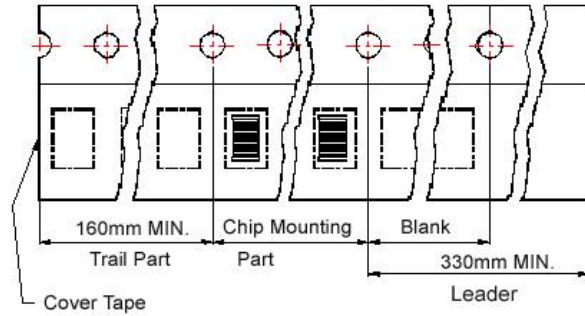
■ Packaging

Tape Dimensions

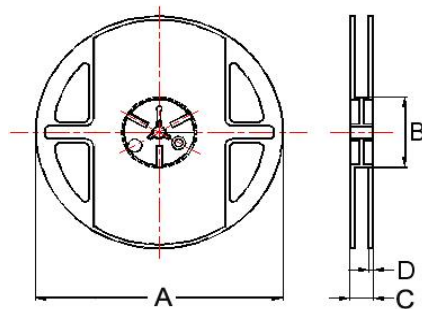


Tape Material

Carrier Tape: Polycarbonate (Tape A)
Carrier Tape: Paper (Tape B)
Cover Tape: Polystyrene



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity PCS / Reel
	A	B	T	W	P	F	K	Tape	A	B	C	D	
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



Power Inductor AMQx Series

Automotive
AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant



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

Part Numbering

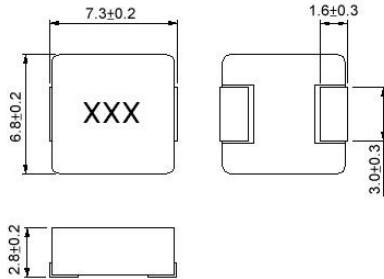
A	MQU	00	060603	100	M	A1
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			060630 6.8*7.3*2.8	1R0 1	M ±20%	
			101040 10.2*11.6*3.8	2R2 2.2		
				100 10		

Power Inductor AMQx Series

**Automotive
AEC-Q200**

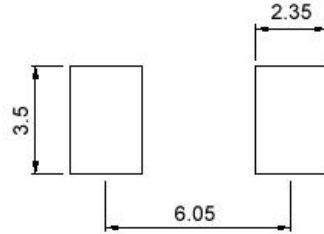
AMQU00060630 Type

■ 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

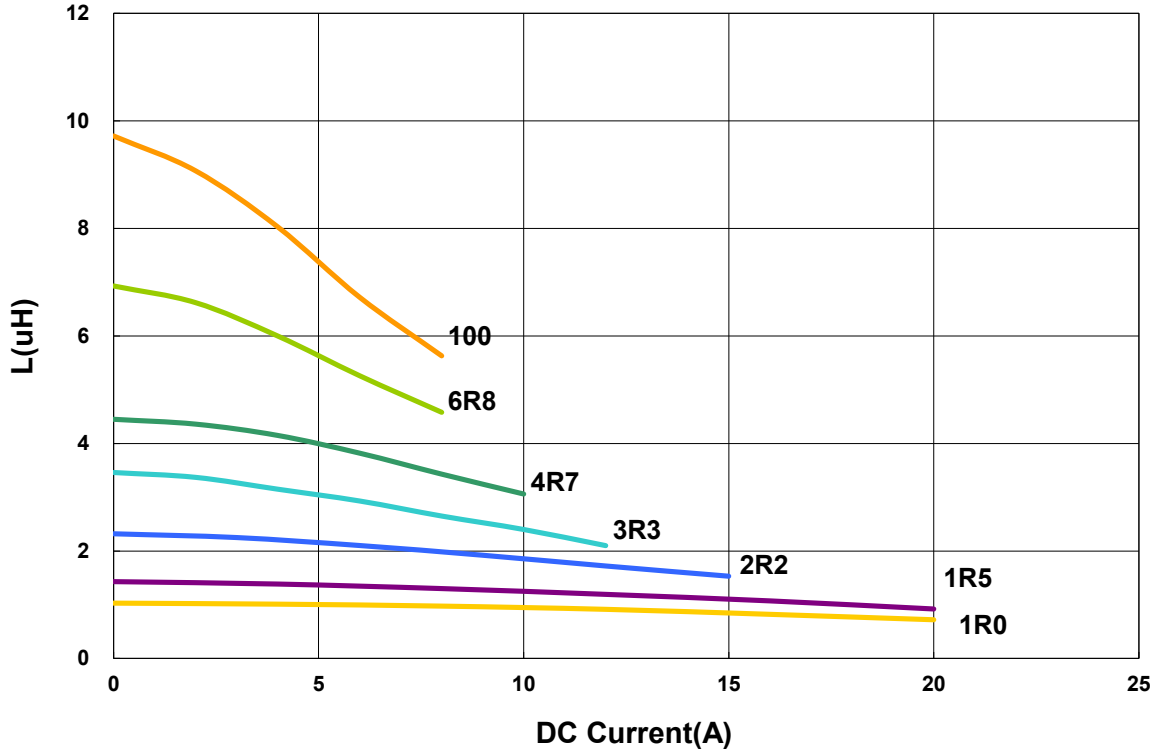
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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

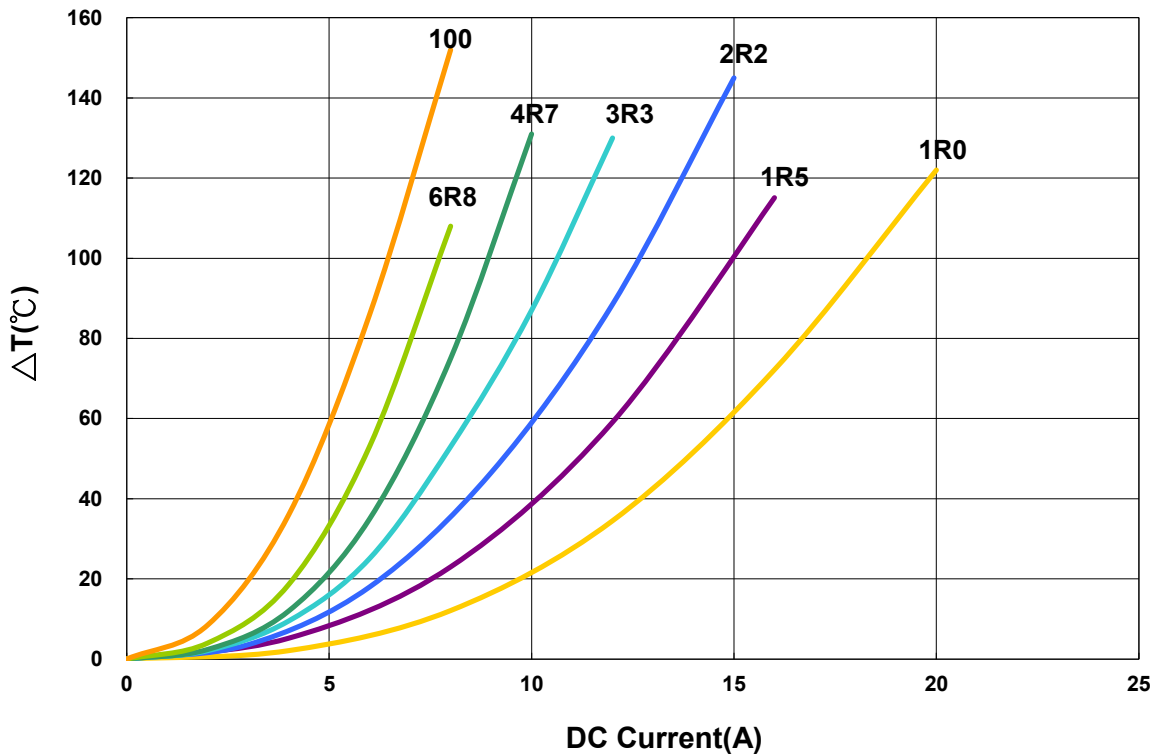
AMQU00060630 Type

■ Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

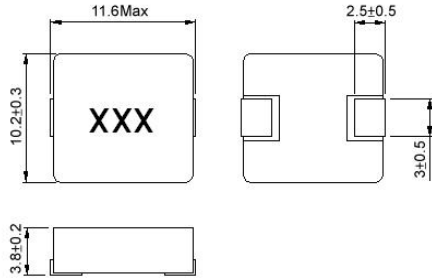


Power Inductor AMQx Series

**Automotive
AEC-Q200**

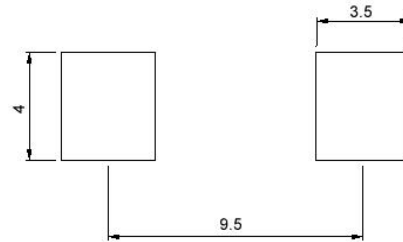
AMQU00101040 Type

■ 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°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temprature rise from 25°C ambient with current
4. Absolute maximum voltage 30VDC
5. Measure Equipment:
 L: WK3260B or WK6500P
 RDC: CHEN HWA502 or 16502
 Isat: WK3260B+WK3265B
 I rms: CHROMA 1810

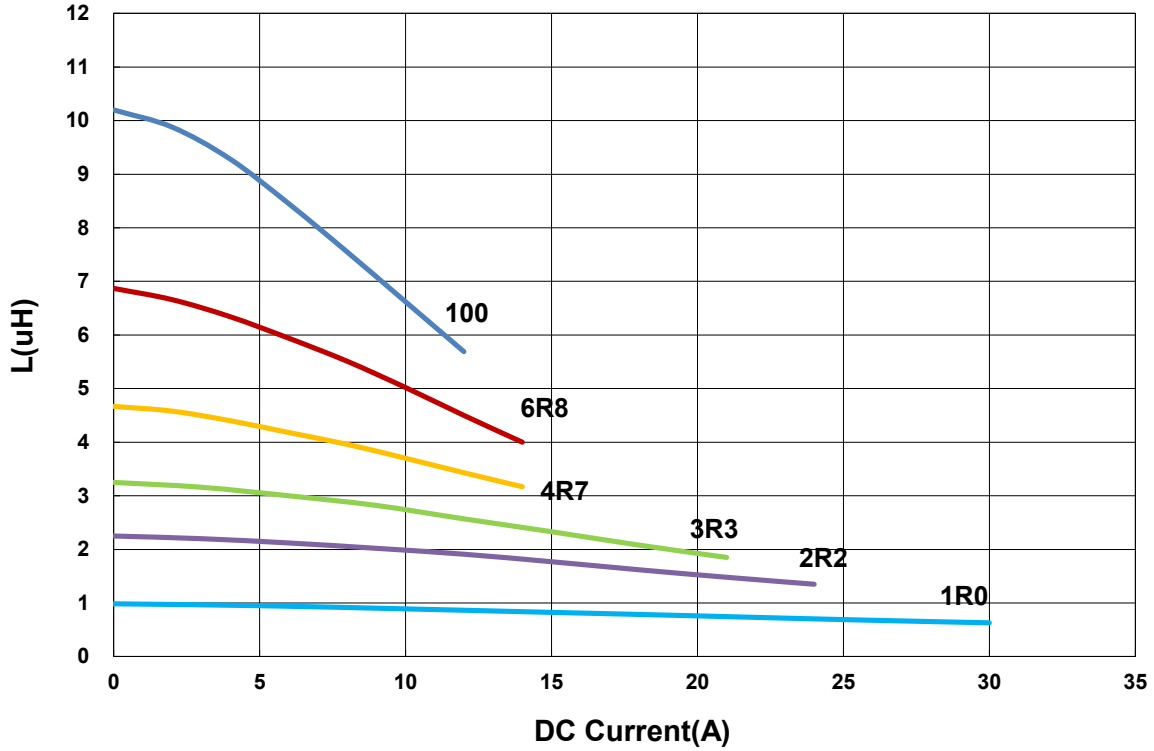
Power Inductor AMQx Series

**Automotive
AEC-Q200**

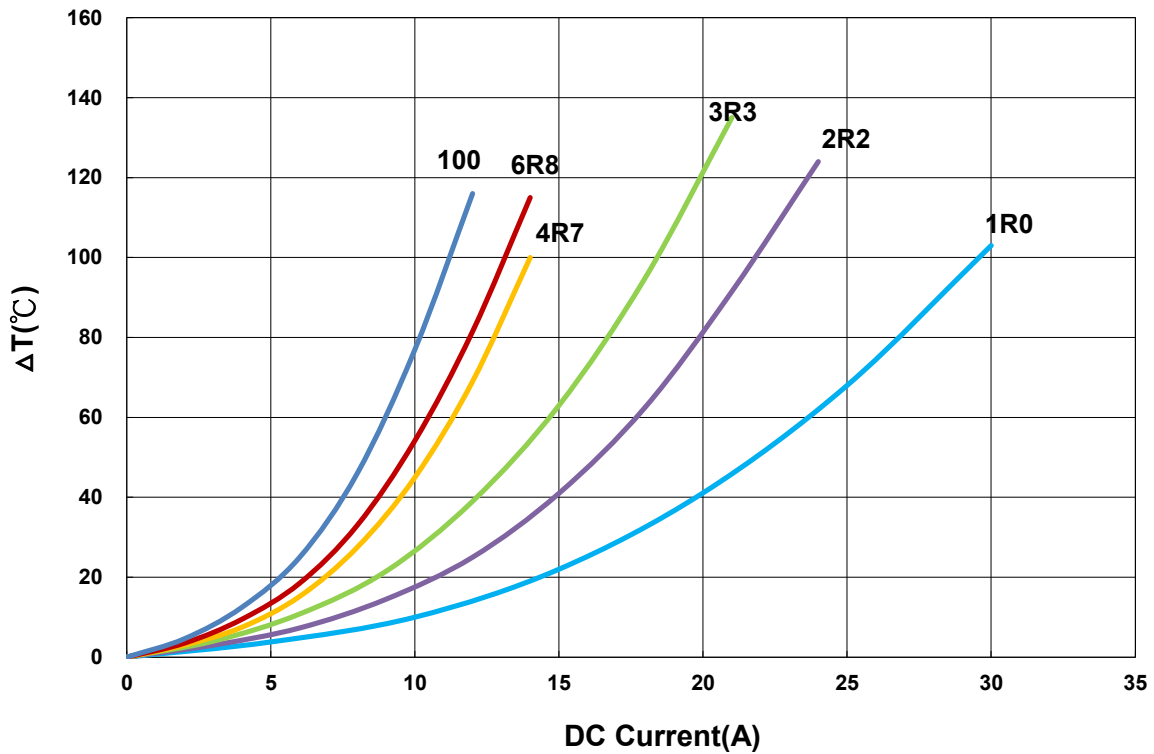
AMQU00101040 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

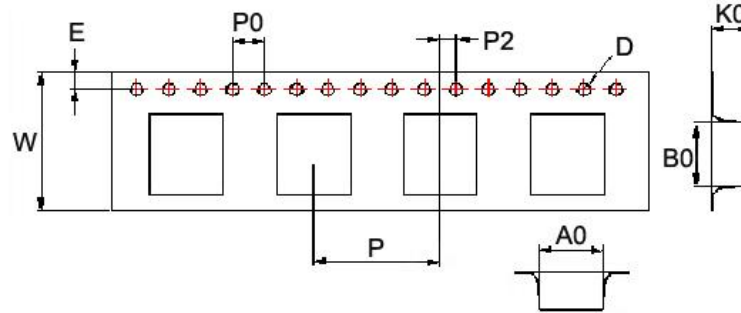


Power Inductor AMQx Series

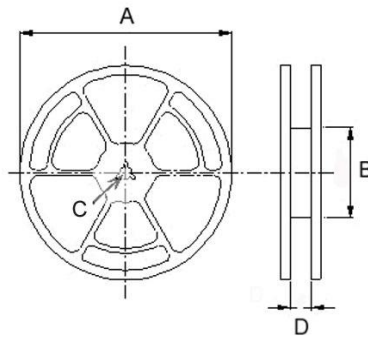
**Automotive
AEC-Q200**

■ 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
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

Power Inductor AMRx Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



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

Part Numbering

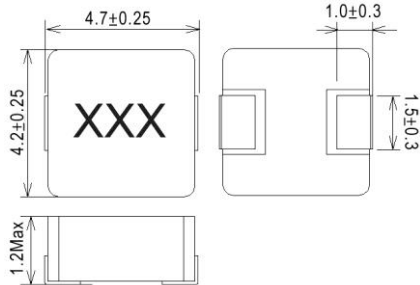
A	MRU	00	040420	1R0	M	A1
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	
			040412 4.2x4.7x1.2	R22 0.22	M ±20%	
			040420 4.2x4.7x1.8	1R0 1.0		
			060630 6.8x7.3x2.8	3R3 3.3		
			101040 10.2x11.6x3.8			
			131365 12.8x13.8x6.5			

Power Inductor AMRx Series

**Automotive
AEC-Q200**

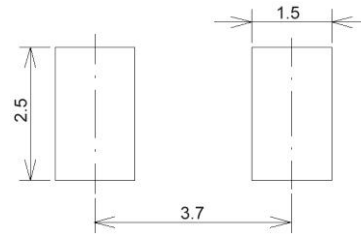
AMRU00040412 Type

■ 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°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temprature rise from 25°C ambient with current
4. Absolute maximum voltage 30VDC
5. Measure Equipment:
 L: WK3260B or WK6500P
 RDC: CHEN HWA502 or 16502
 Isat: WK3260B+WK3265B
 I rms: CHROMA 1810

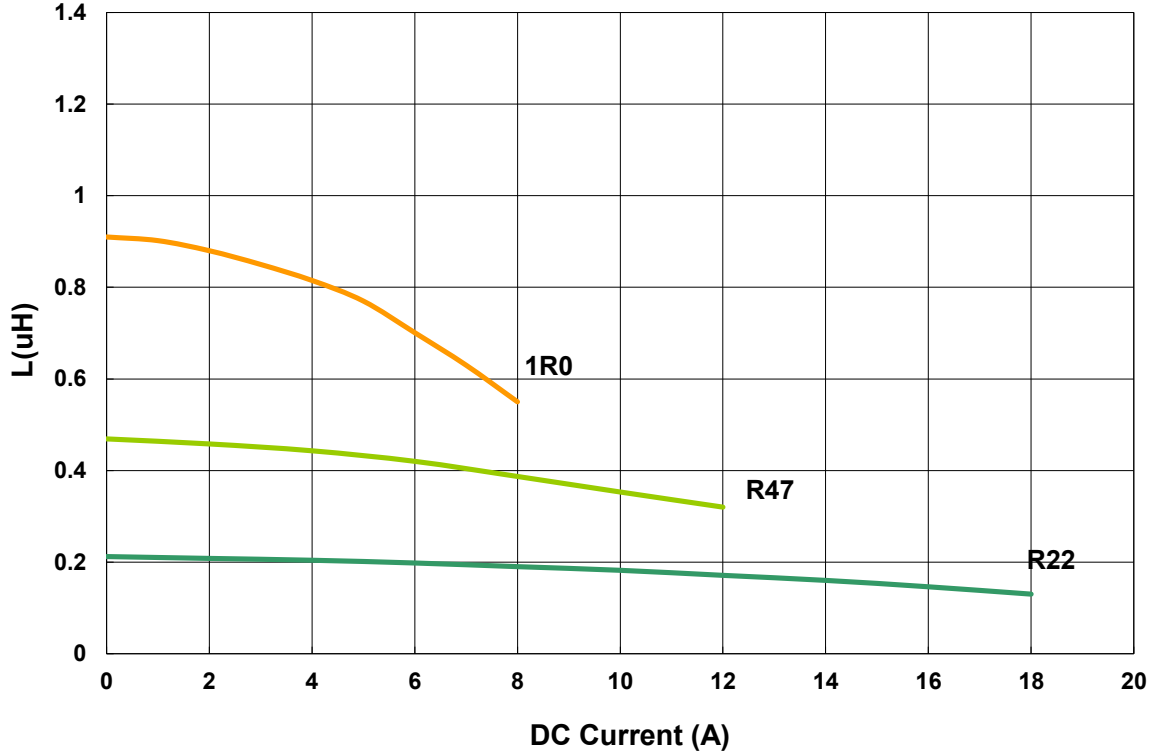
Power Inductor AMRx Series

**Automotive
AEC-Q200**

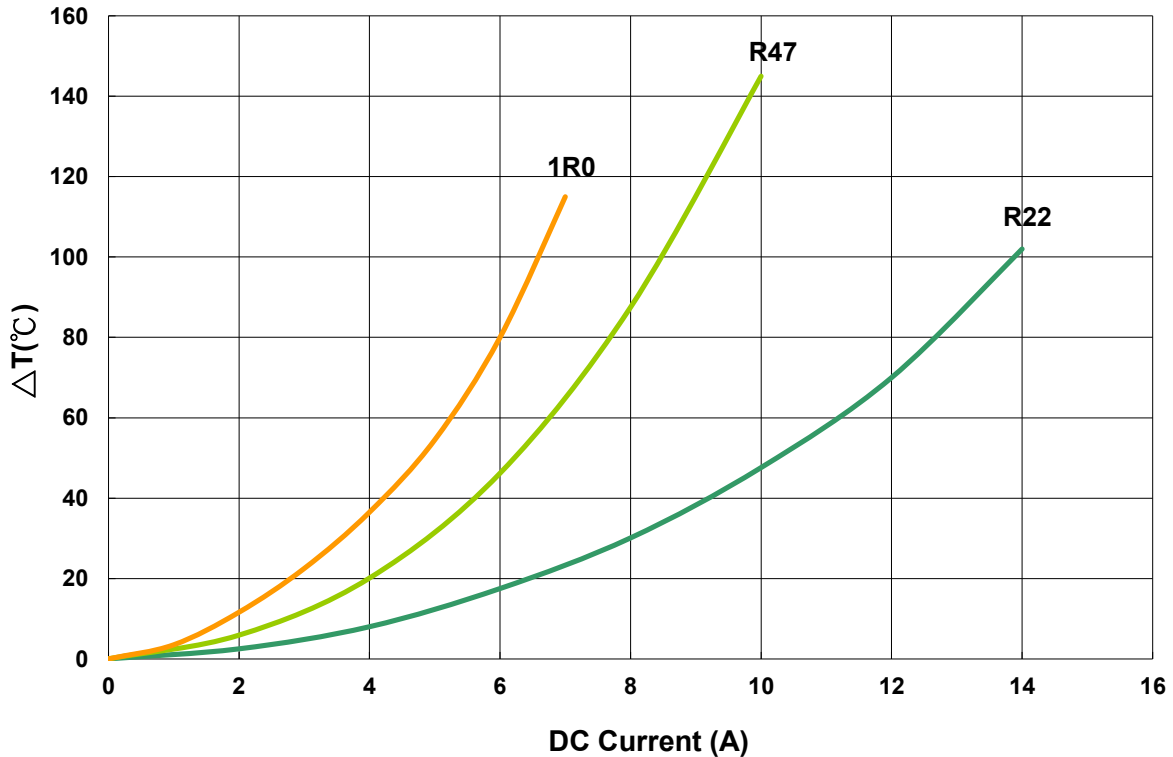
AMRU00040412 Type

■ Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

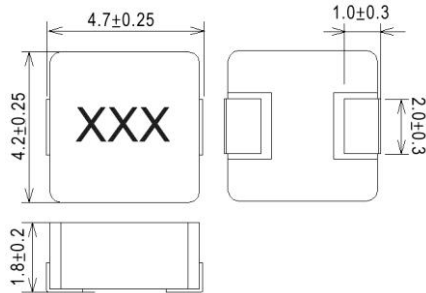


Power Inductor AMRx Series

**Automotive
AEC-Q200**

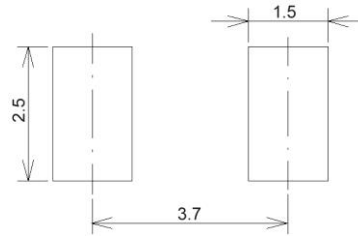
AMRU00040420 Type

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%

- Operating temperature range - 40°C ~ 125°C
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temprature rise from 25°C ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment:

L: WK3260B or WK6500P
 RDC: CHEN HWA502 or 16502
 Isat: WK3260B+WK3265B
 Irms: CHROMA 1810

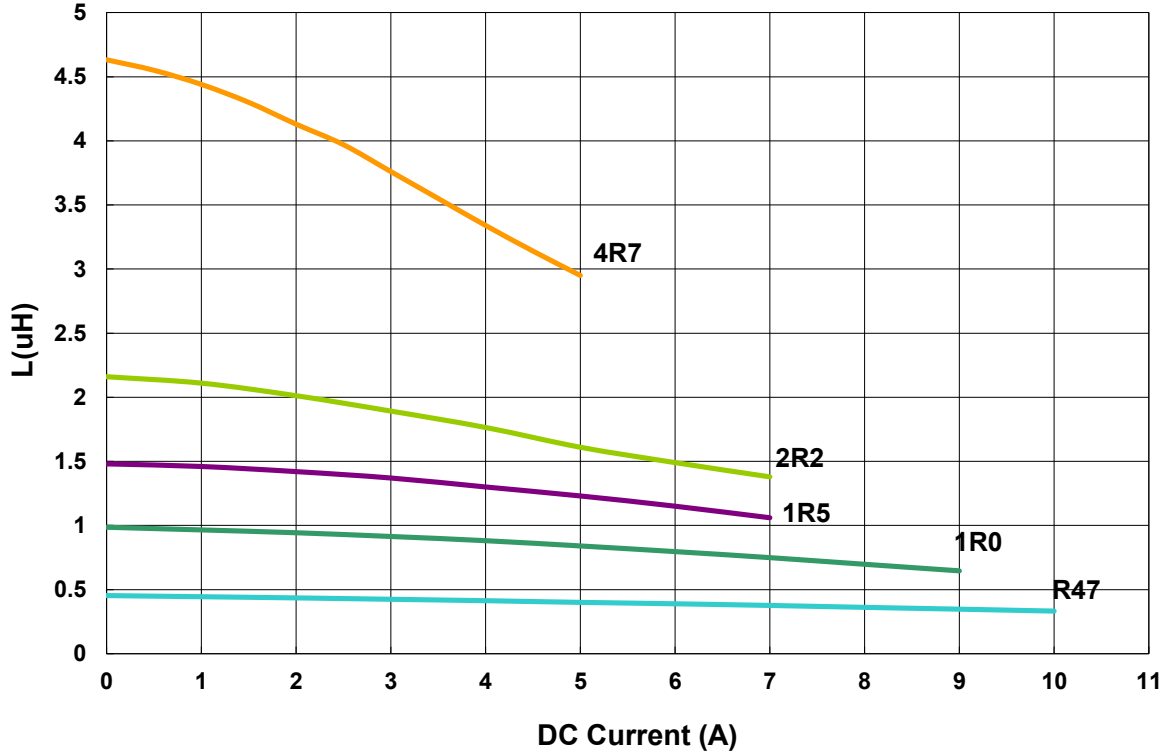
Power Inductor AMRx Series

**Automotive
AEC-Q200**

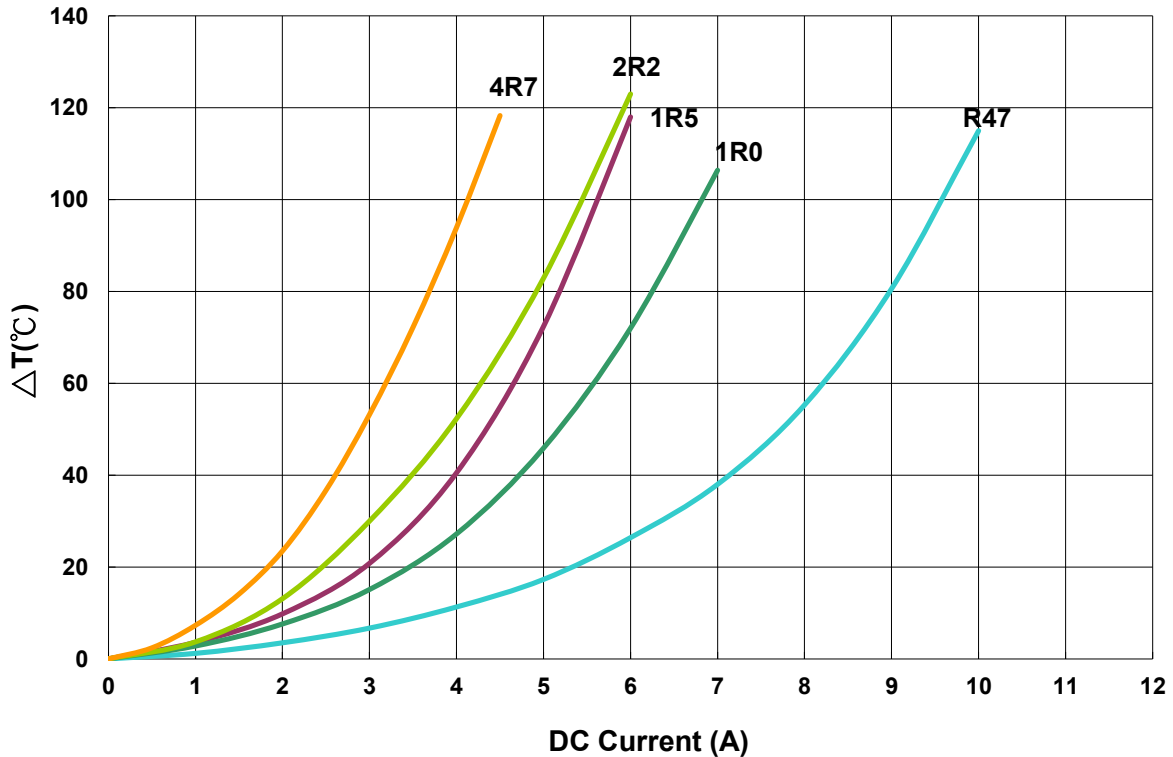
AMRU00040420 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

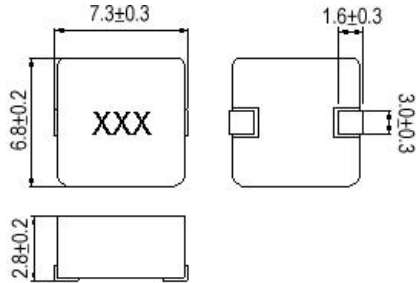


Power Inductor AMRx Series

**Automotive
AEC-Q200**

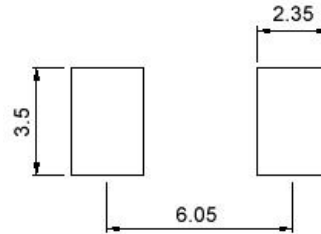
AMRU00060630 Type

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

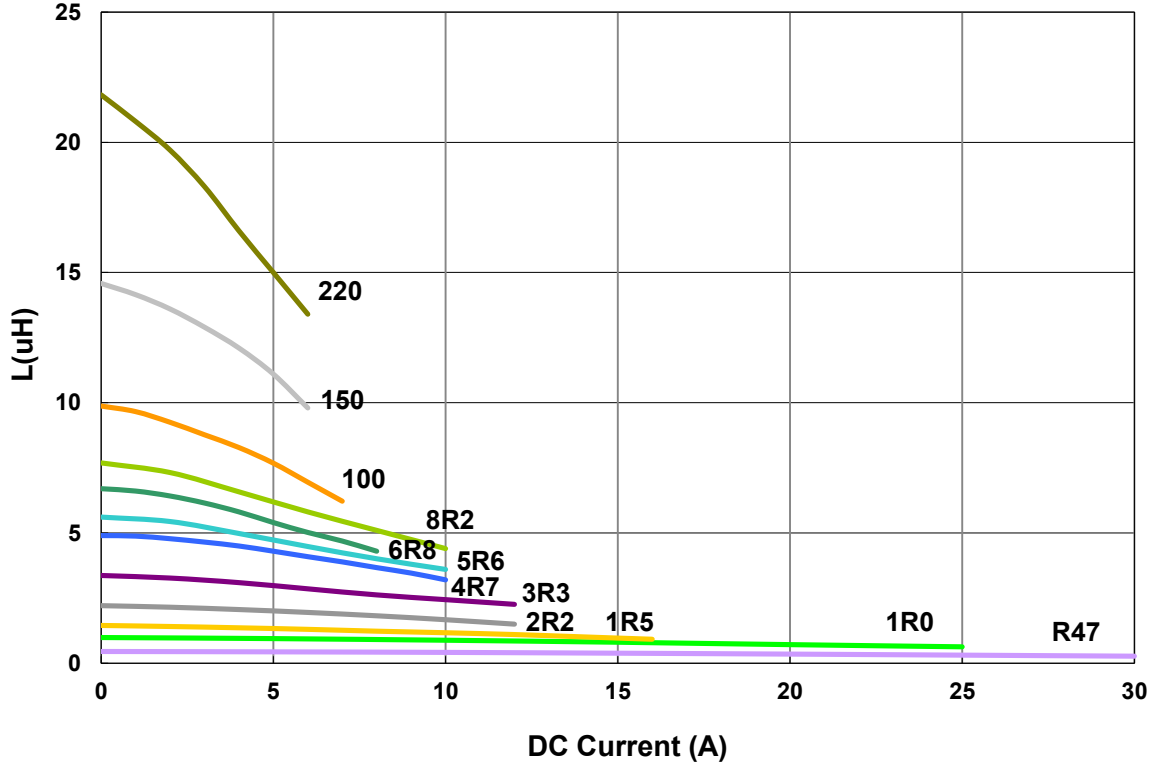
Power Inductor AMRx Series

**Automotive
AEC-Q200**

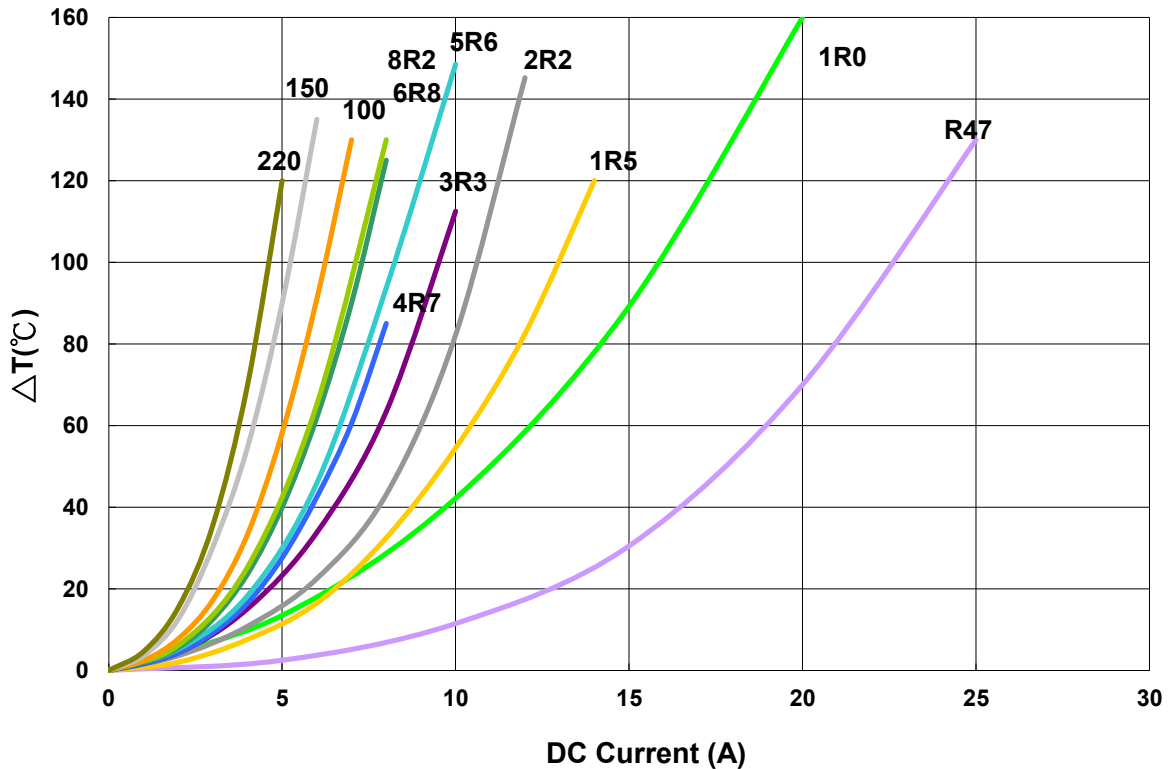
AMRU00060630 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current



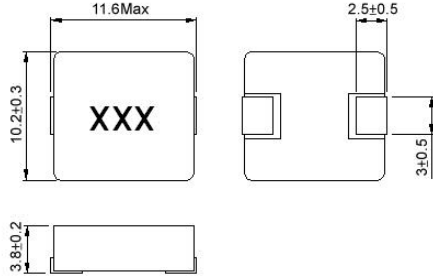
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

Power Inductor AMRx Series

**Automotive
AEC-Q200**

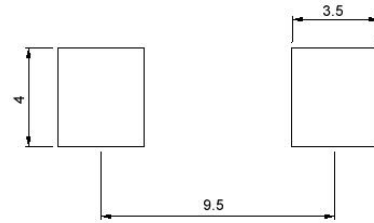
AMRU00101040 Type

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

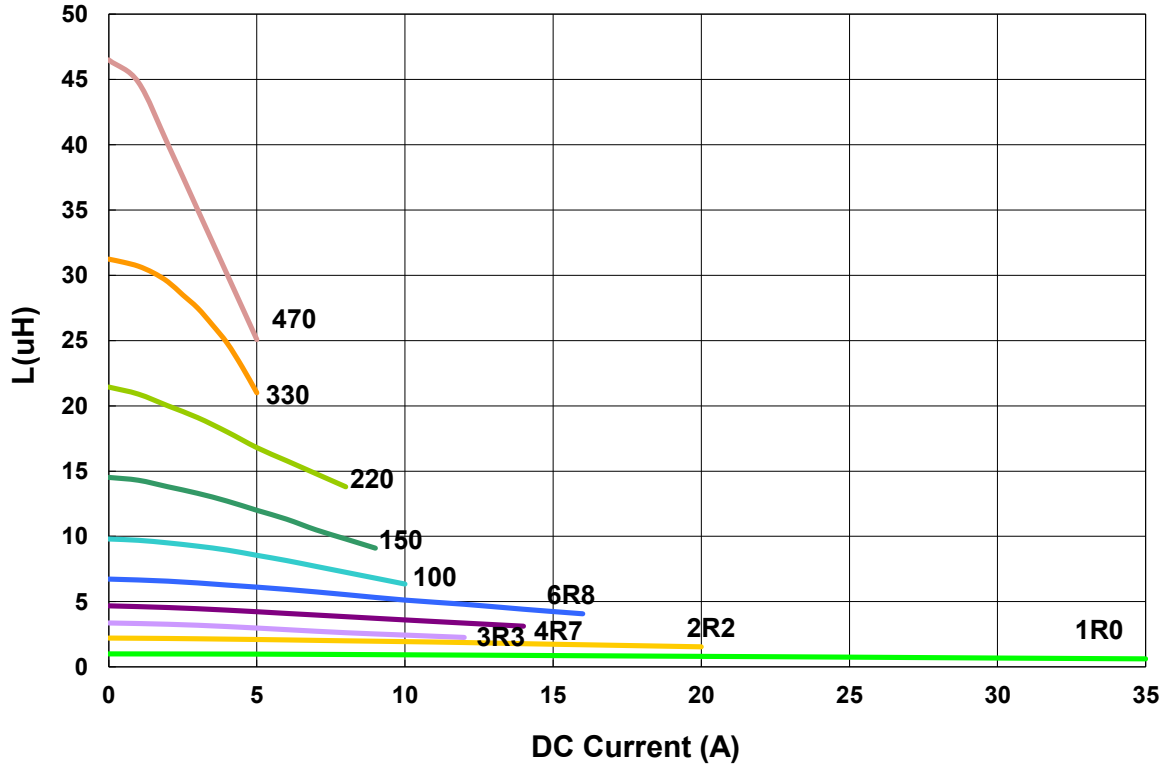
Power Inductor AMRx Series

**Automotive
AEC-Q200**

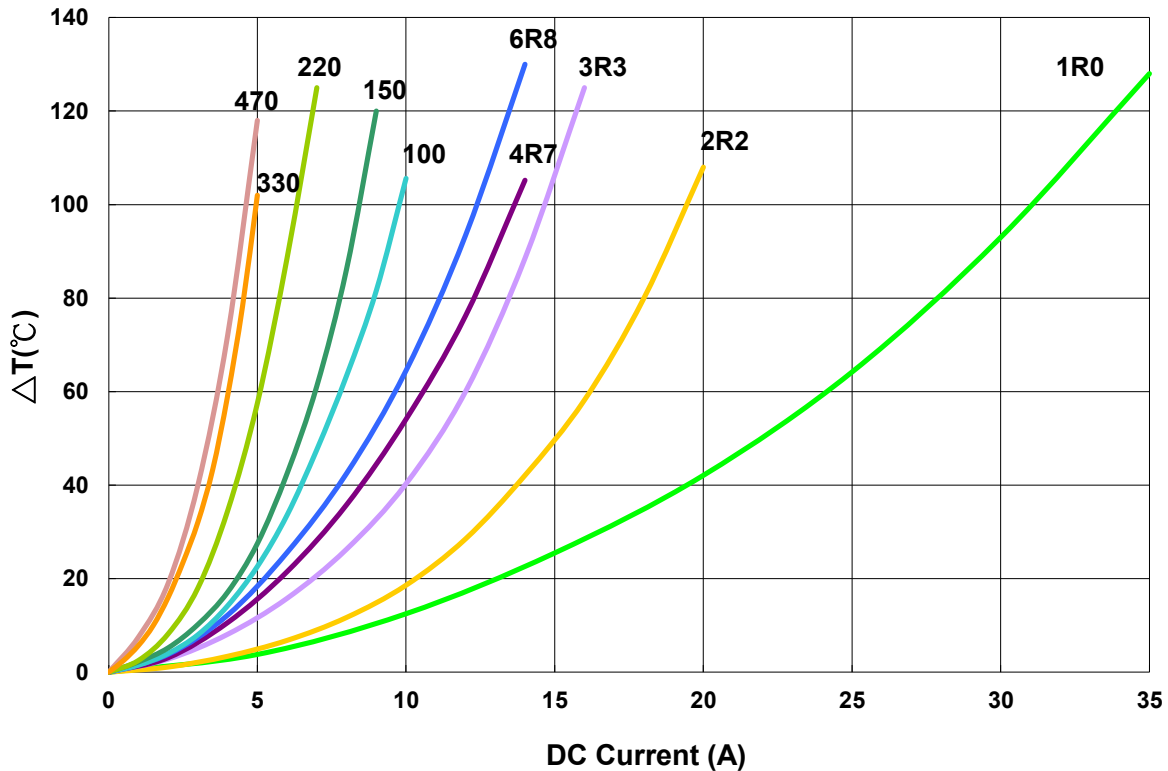
AMRU00101040 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

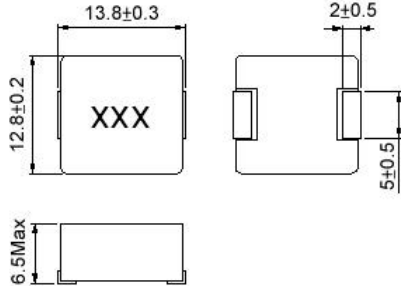


Power Inductor AMRx Series

**Automotive
AEC-Q200**

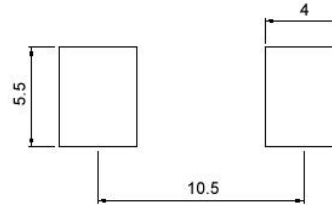
AMRU00131365 Type

■ 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°C ~ 125°C
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. Absolute maximum voltage 30VDC
5. Measure Equipment:
 - L: WK3260B or WK6500P
 - RDC: CHEN HWA502 or 16502
 - Isat: WK3260B+WK3265B
 - Irms: CHROMA 1810

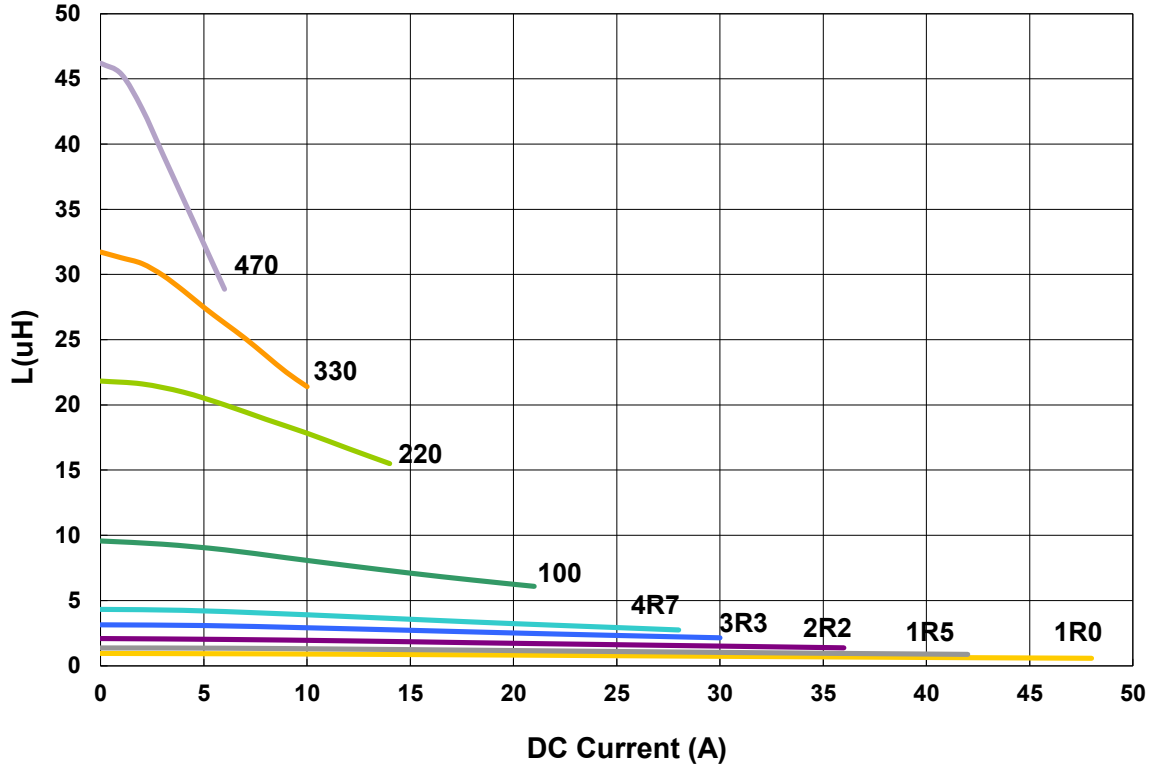
Power Inductor AMRx Series

**Automotive
AEC-Q200**

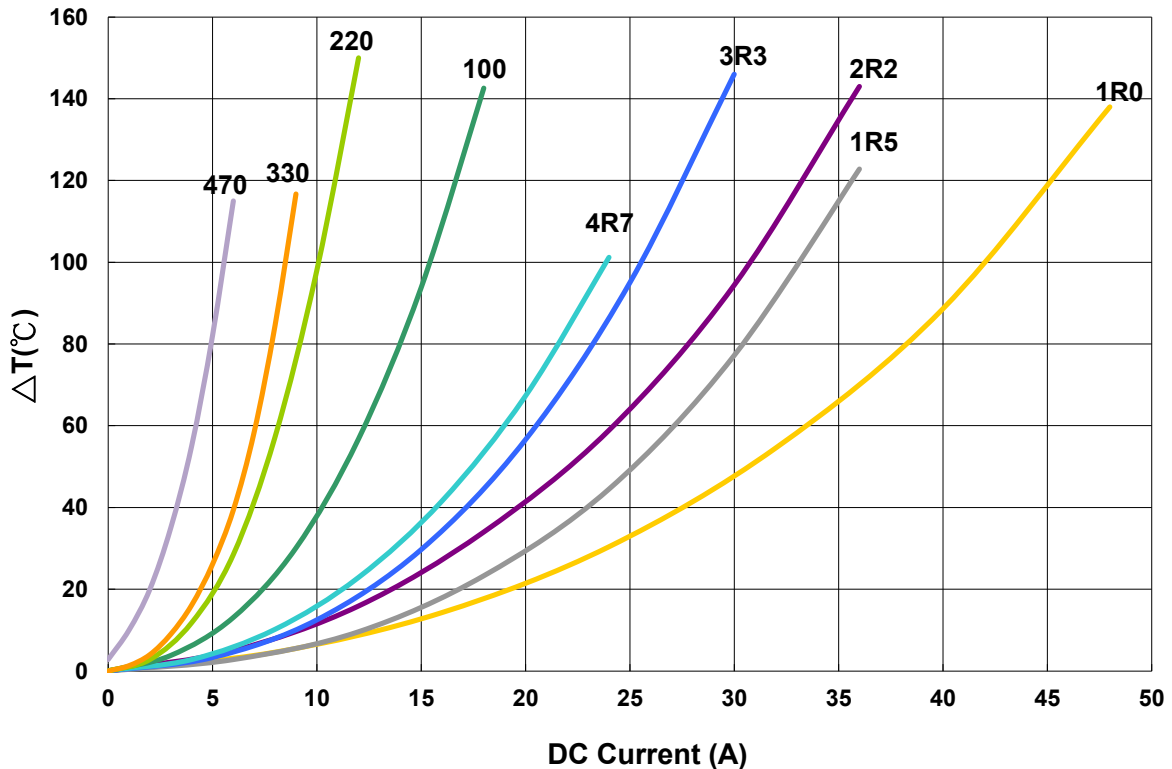
AMRU00131365 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

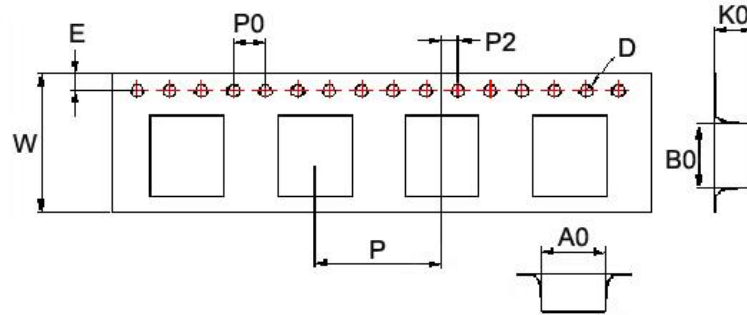


Power Inductor AMRx Series

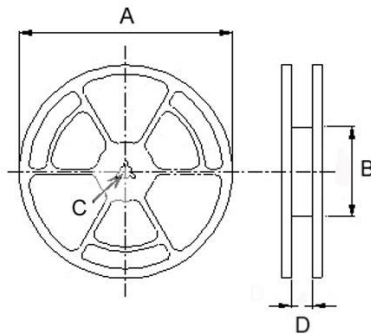
**Automotive
AEC-Q200**

■ 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
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



Power Inductor AMMA Series

Automotive
AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant



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

Part Numbering

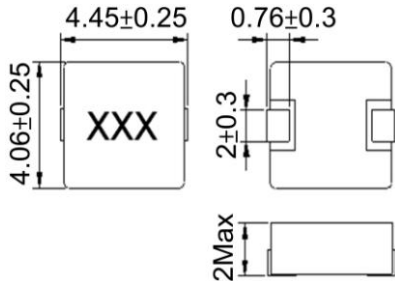
A	MMA	00	040420	1R0	M	V1
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			040420 4.45x4.06x2	R22 0.22	M ±20%	
			050530 5.49x5.18x3	1R0 1.0		
			060630 6.86x6.47x3	3R3 3.3		
			101040 10.5x10x4			
			131364 13.2x12.9x6.4			

Power Inductor AMMA Series

**Automotive
AEC-Q200**

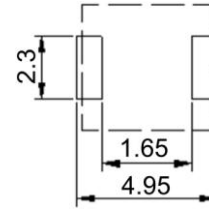
AMMA00040420 Type

■ 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°C ~ 125°C
2. Isat for Inductance drop 20% from its value without current
3. I rms for a 40°C temprature rise from 25°C 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.
 - I rms: CHROMA 62050P-100-100

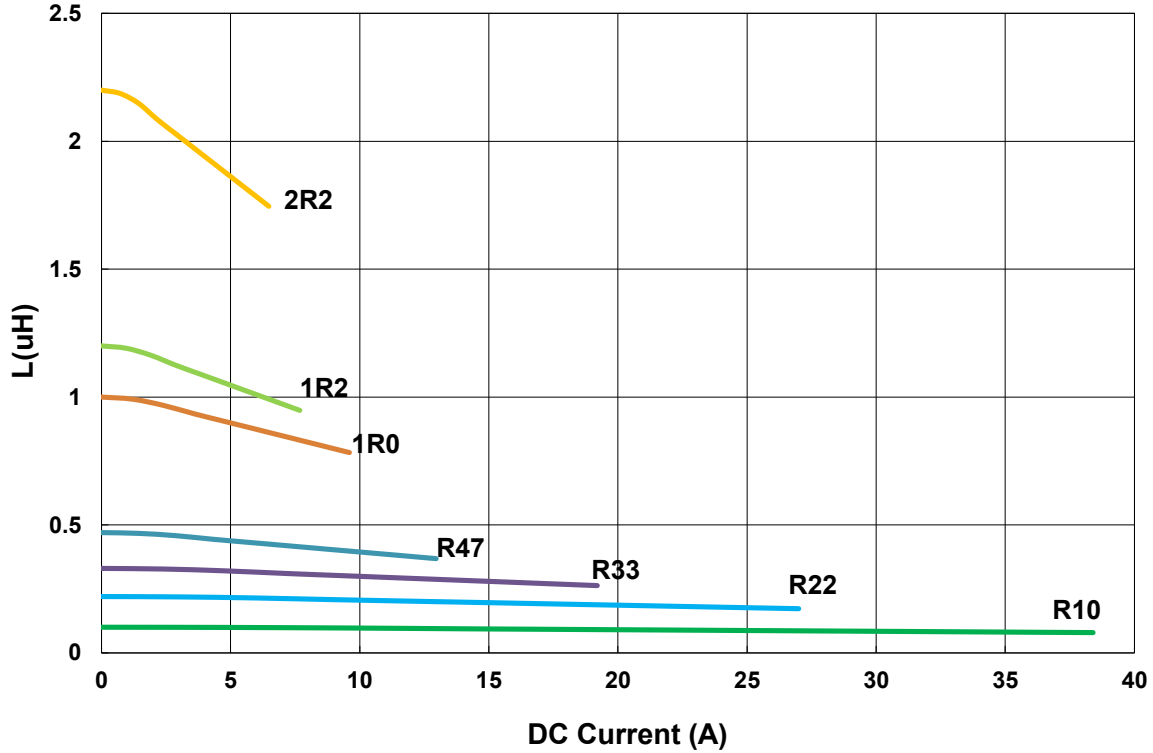
Power Inductor AMMA Series

**Automotive
AEC-Q200**

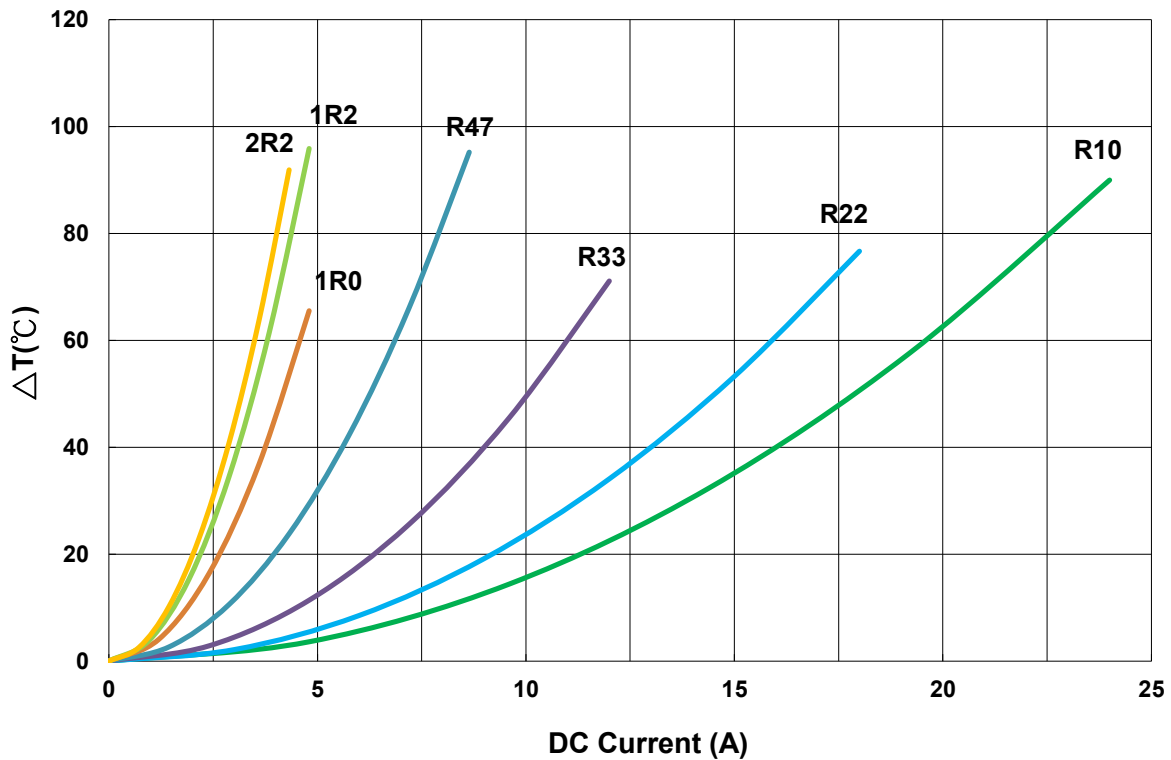
AMMA00040420 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

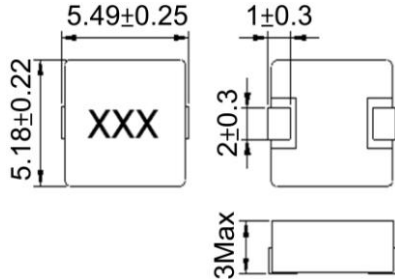


Power Inductor AMMA Series

**Automotive
AEC-Q200**

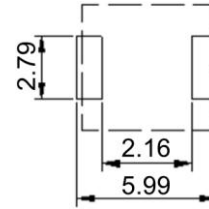
AMMA00050530 Type

■ 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°C ~ 125°C
2. Isat for Inductance drop 20% from its value without current
3. I rms for a 40°C temprature rise from 25°C 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.
 - I rms: CHROMA 62050P-100-100

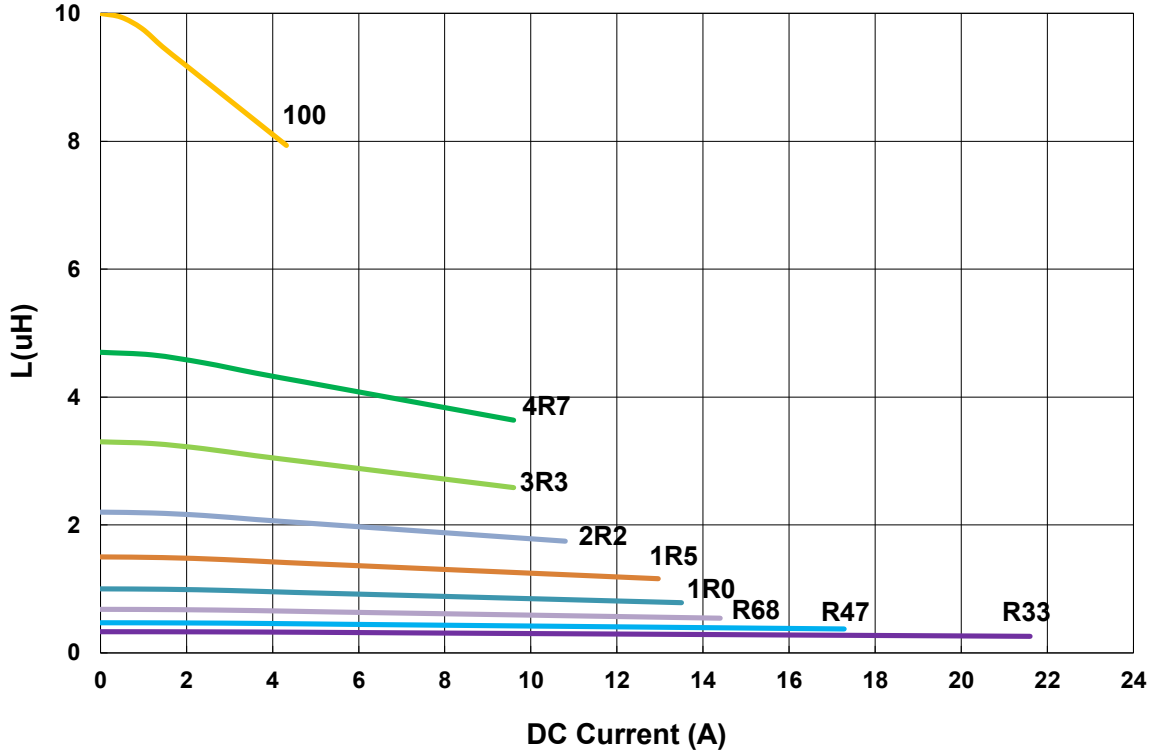
Power Inductor AMMA Series

**Automotive
AEC-Q200**

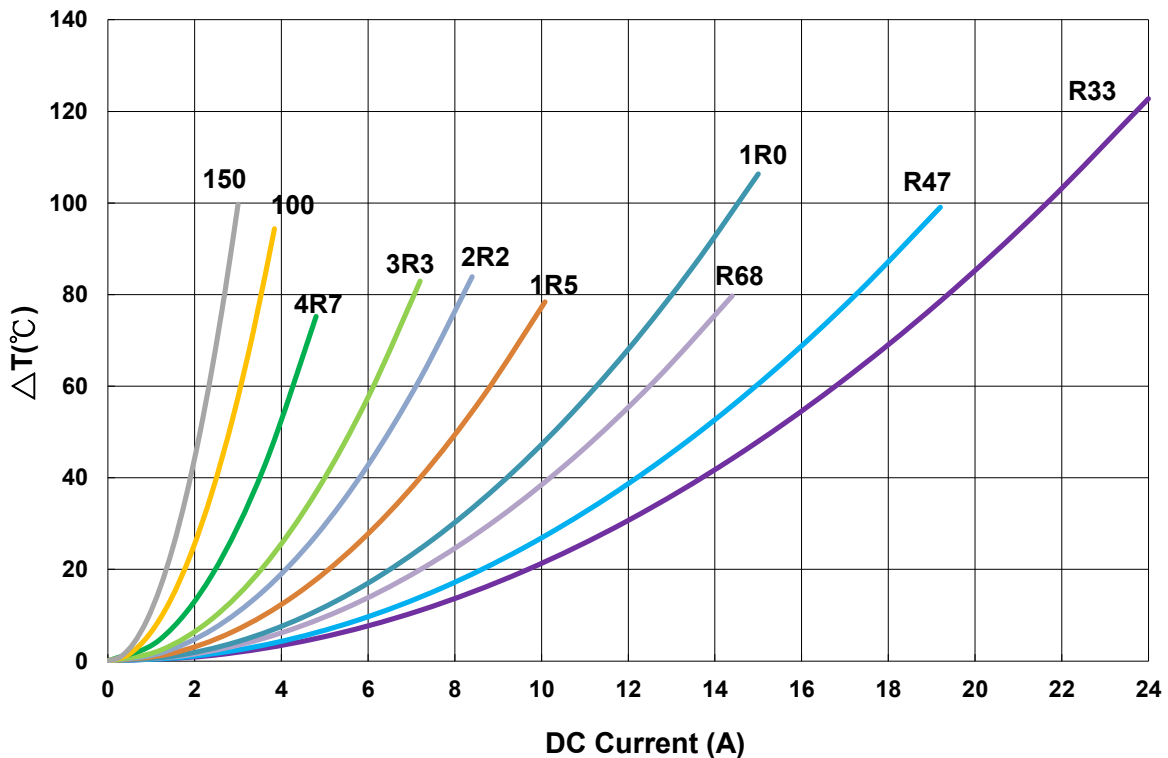
AMMA00050530 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

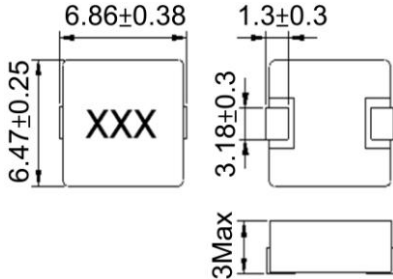


Power Inductor AMMA Series

**Automotive
AEC-Q200**

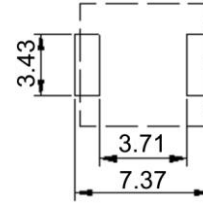
AMMA00060630 Type

■ 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°C ~ 125°C
2. Isat for Inductance drop 20% from its value without current
3. I rms for a 40°C temperature rise from 25°C 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.
 - I rms: CHROMA 62050P-100-100

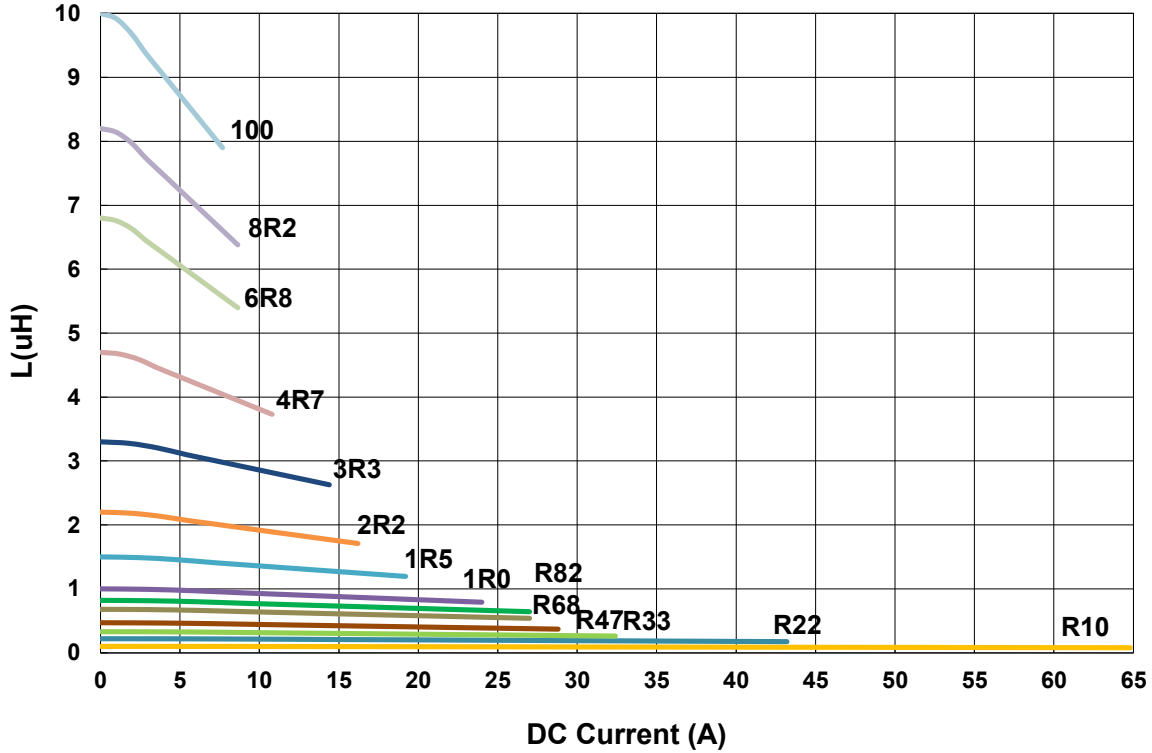
Power Inductor AMMA Series

**Automotive
AEC-Q200**

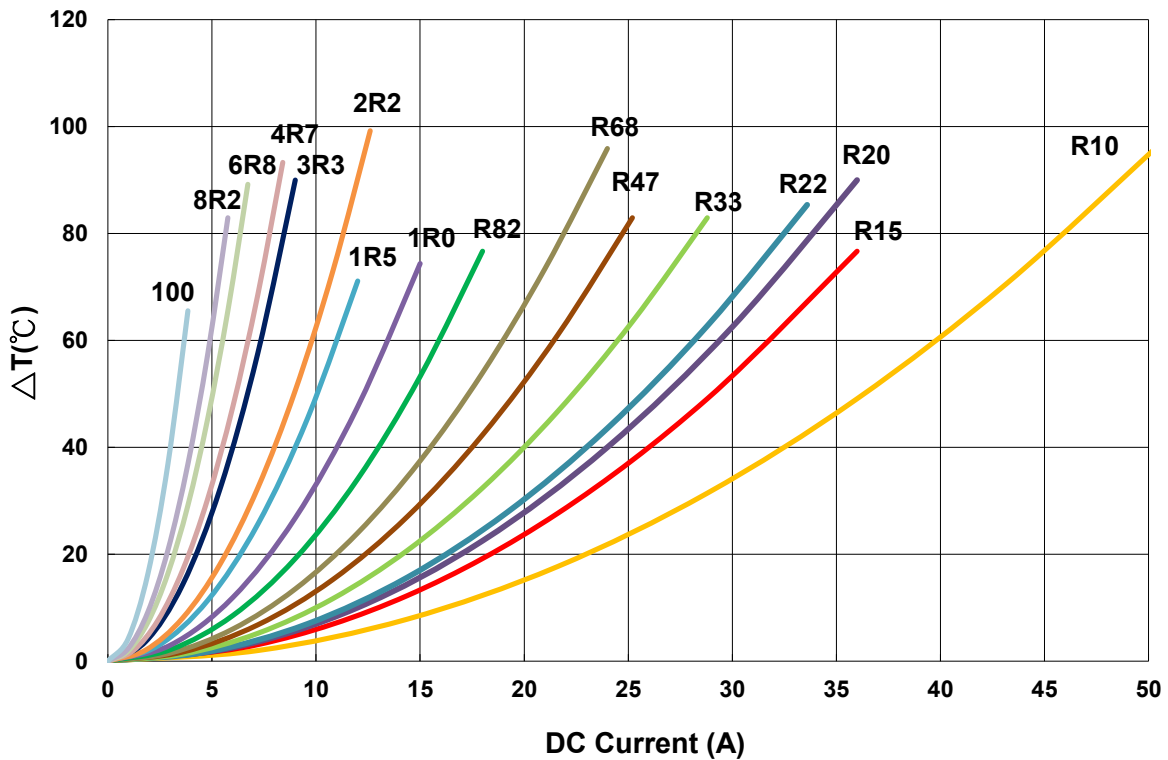
AMMA00060630 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current



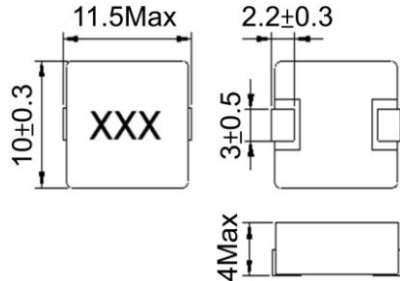
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

Power Inductor AMMA Series

**Automotive
AEC-Q200**

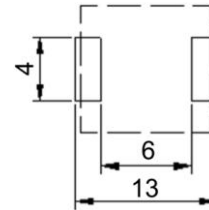
AMMA00101040 Type

■ 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°C ~ 125°C
2. Isat for inductance drop 20% from its value without current
3. I rms for a 40°C temperature rise from 25°C 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.
 I rms: CHROMA 62050P-100-100

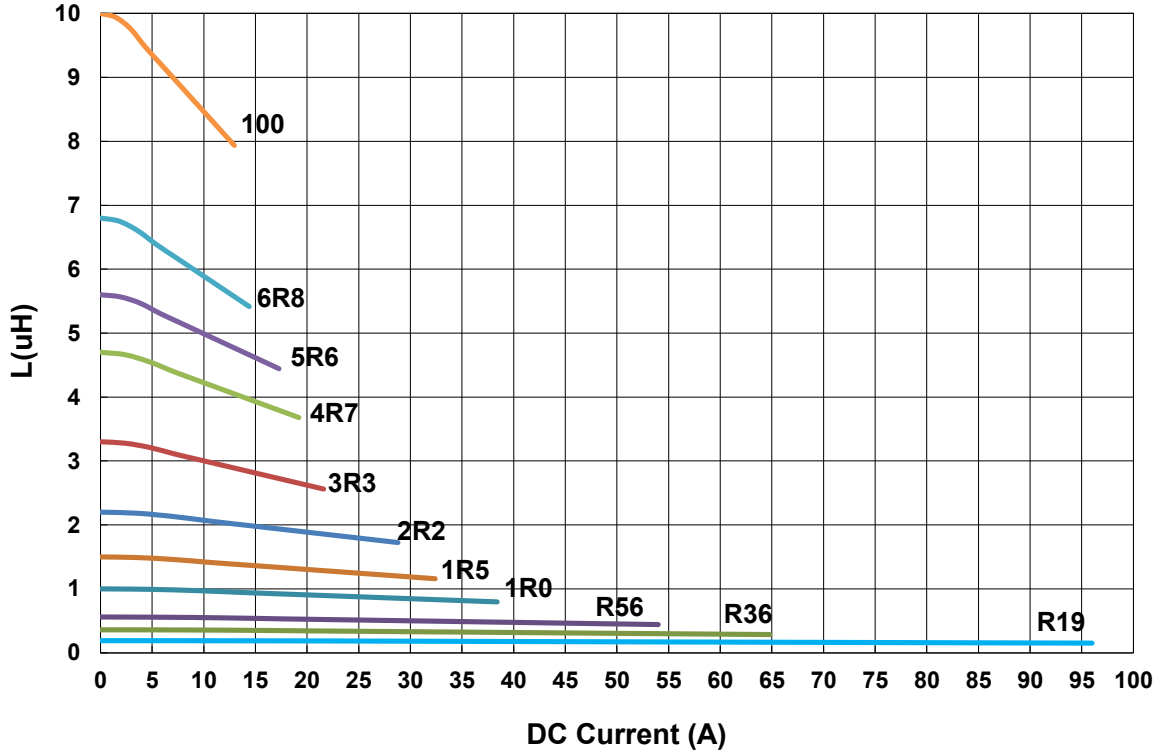
Power Inductor AMMA Series

**Automotive
AEC-Q200**

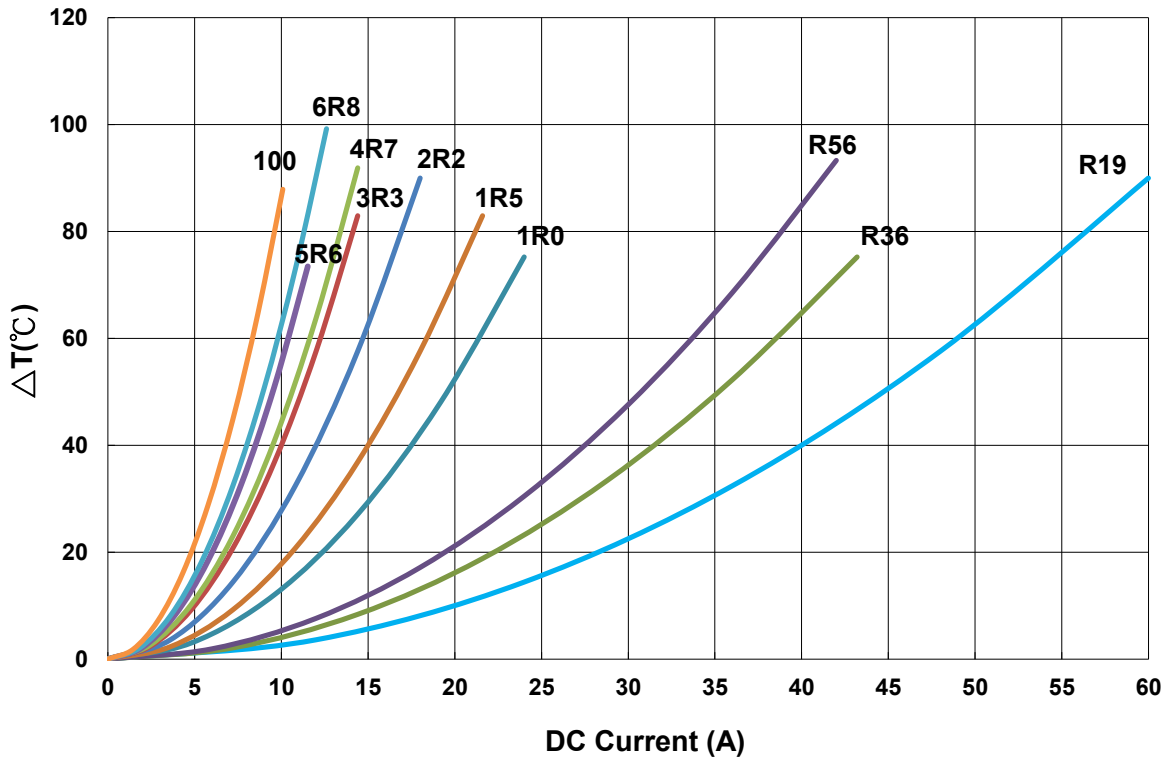
AMMA00101040 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

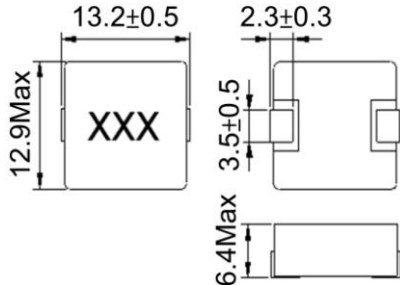


Power Inductor AMMA Series

**Automotive
AEC-Q200**

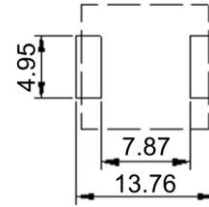
AMMA00131364 Type

■ 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°C ~ 125°C
2. Isat for Inductance drop 20% from its value without current
3. Iirms for a 40°C temperature rise from 25°C 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.
 - Iirms: CHROMA 62050P-100-100

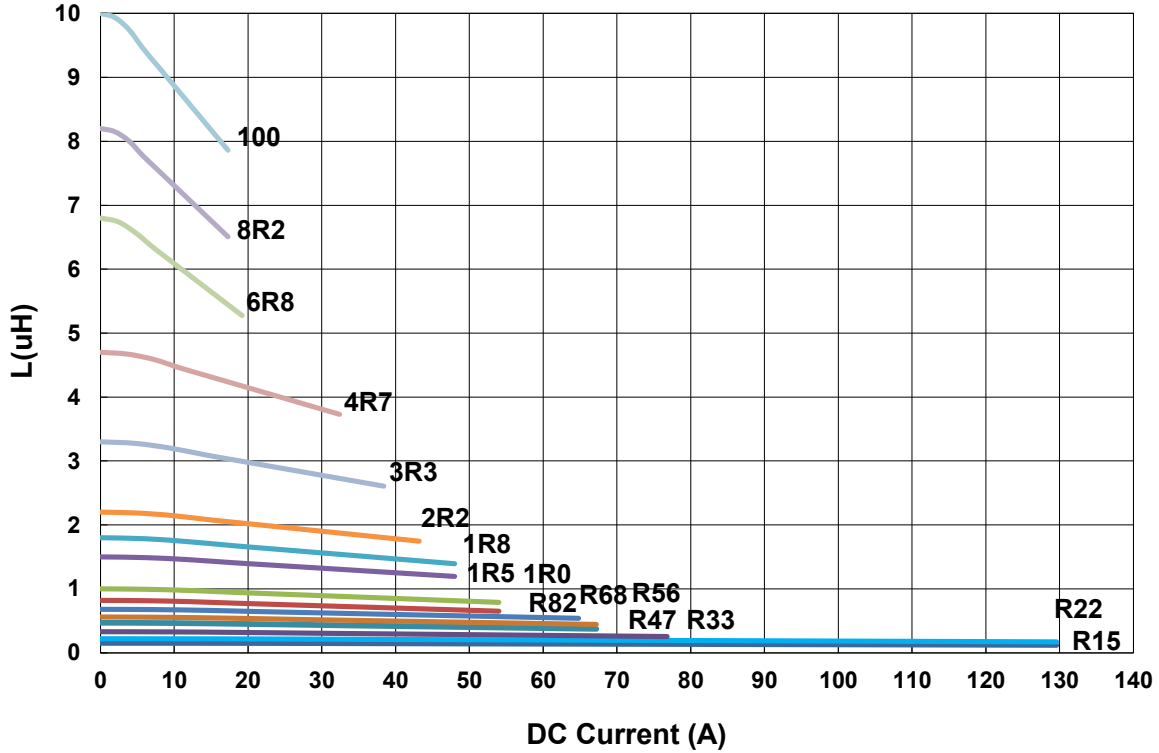
Power Inductor AMMA Series

**Automotive
AEC-Q200**

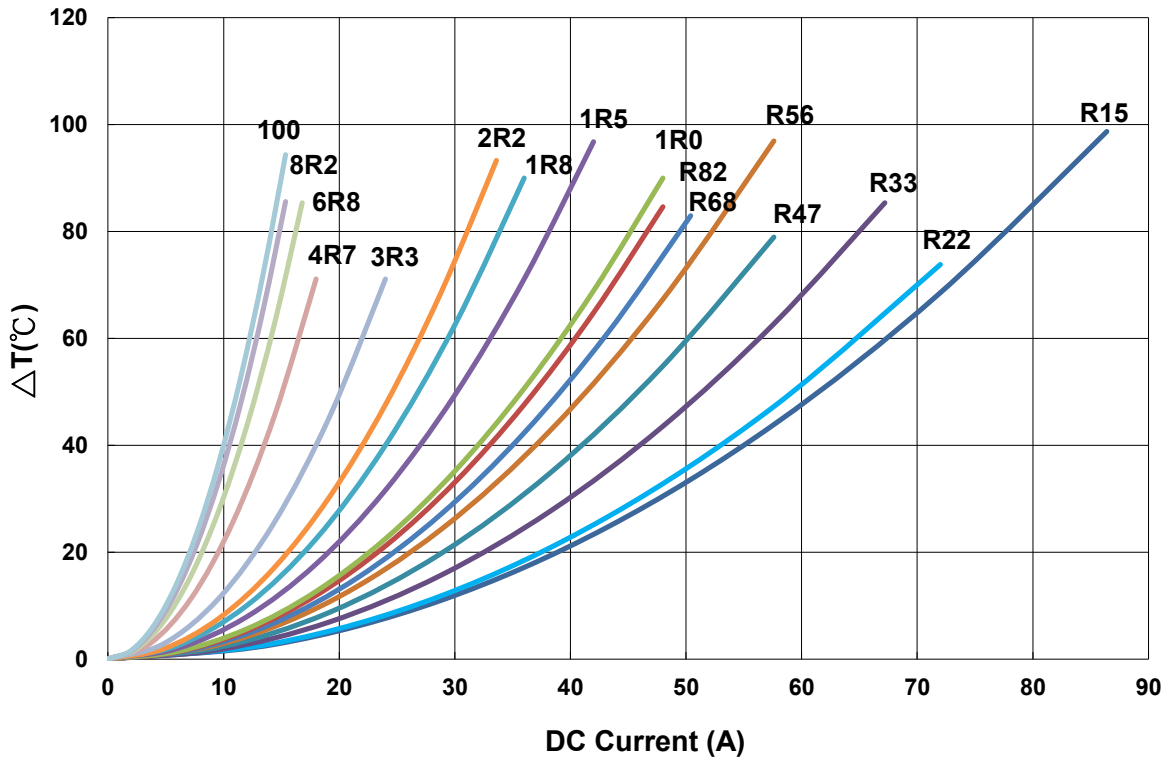
AMMA00131364 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

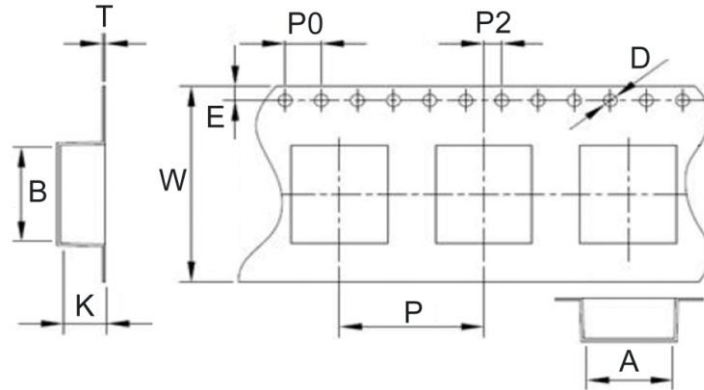


Power Inductor AMMA Series

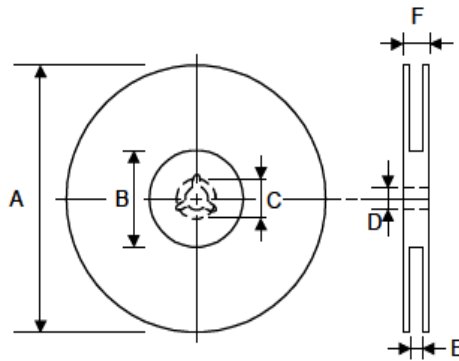
**Automotive
AEC-Q200**

■ Packaging

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions										Reel Dimensions						Quantity PCS / REEL
	A	B	K	T	D	E	W	P	P0	P2	A	B	C	D	E	F	
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	12	8	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

Power Inductor AMDU Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



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

Part Numbering

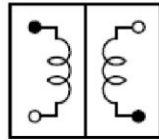
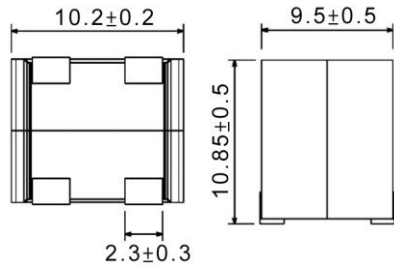
A	MDU	00	101010	100	M	A1
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			101010 10.2x9.5x10.85	100 10 150 15 220 22	M ±20%	

Power Inductor AMDU Series

**Automotive
AEC-Q200**

AMDU00101010 Type

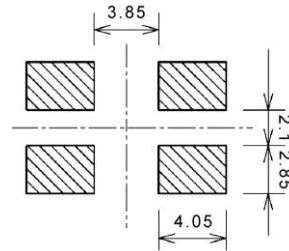
■ Dimensions



● 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(20)	7.5	4.8	20	100
AMDU00101010150MA1	15	100kHz/0.5V	35(30)	5.5	3.8	20	150
AMDU00101010220MA1	22	100kHz/0.5V	53(48)	4.5	3.0	20	220

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

1. Operating temperature range - 40°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current
3. I rms 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 design 125°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. Absolute maximum voltage 30VDC
6. Measure Equipment:
L: WK3260B or WK6500P
RDC: CHEN HWA502 or 16502
Isat: WK3260B+WK3265B
I rms: CHROMA 1810

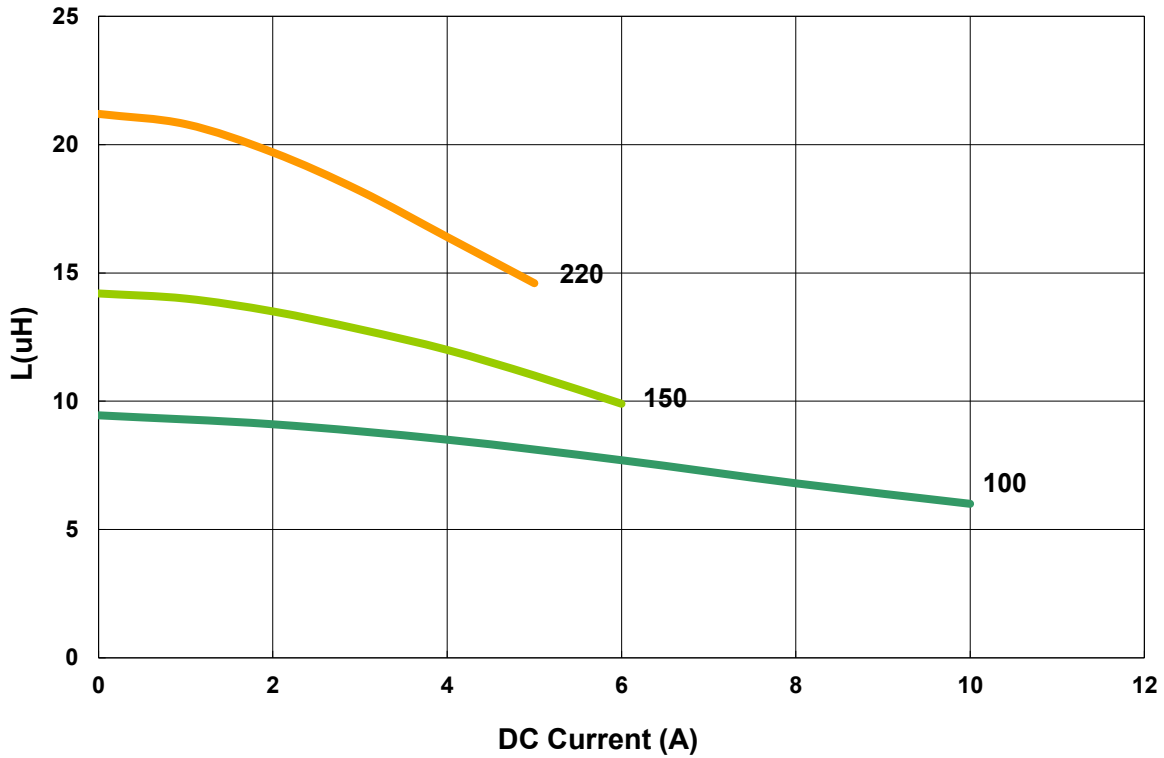
Power Inductor AMDU Series

**Automotive
AEC-Q200**

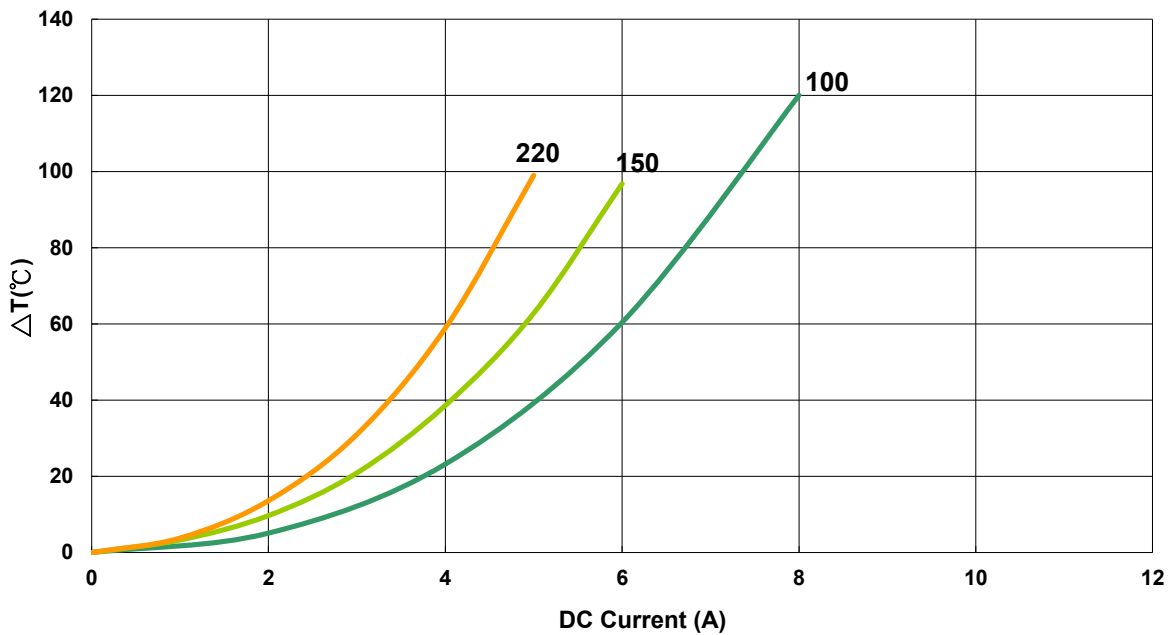
AMDU00101010 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

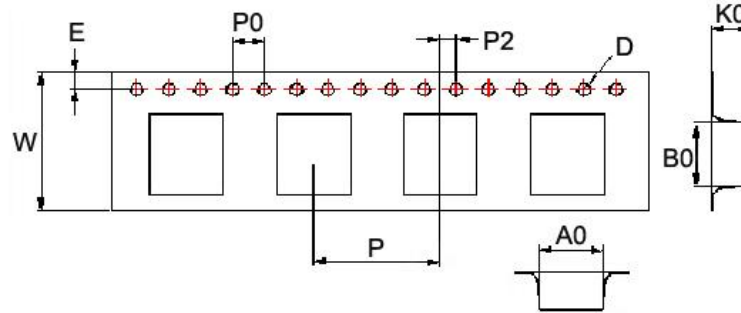


Power Inductor AMDU Series

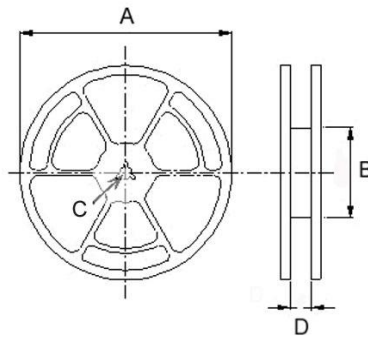
**Automotive
AEC-Q200**

■ 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
AMDU00101010	10.2	10.7	11.5	1.55	1.75	24	16	4	2	330	100	13	24.4	200

Power Inductor AMHS Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



- Shield
- Wire Wound
- Metal
- Ultra High Current

Part Numbering

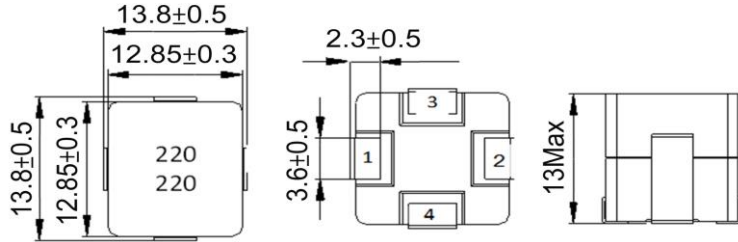
A	MHS	00	131313	100	L	A3
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			131313 13.8x13.8x13	8R2 8.2 100 10 220 22	L ±15%	A3 A6 B1 C3 E1

Power Inductor AMHS Series

**Automotive
AEC-Q200**

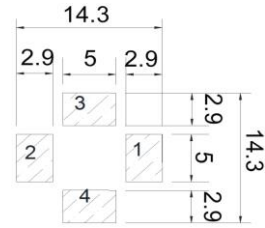
AMHS00131313 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)±10%	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMHS001313136R8LA3	6.8	100kHz,1V	13.5	30	11.5	15	6R8
AMHS001313138R2LA6	8.2	100kHz,1V	16	25	10	15	8R2
AMHS00131313100LB1	10	100kHz,1V	20.5	21	9	15	100
AMHS00131313150LC3	15	100kHz,1V	33.2	16	7	15	150
AMHS00131313220LE1	22	100kHz,1V	50	15	5.5	15	220

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 20% from its value without current
3. Iirms for a 40°C temprature rise from 25°C ambient with current

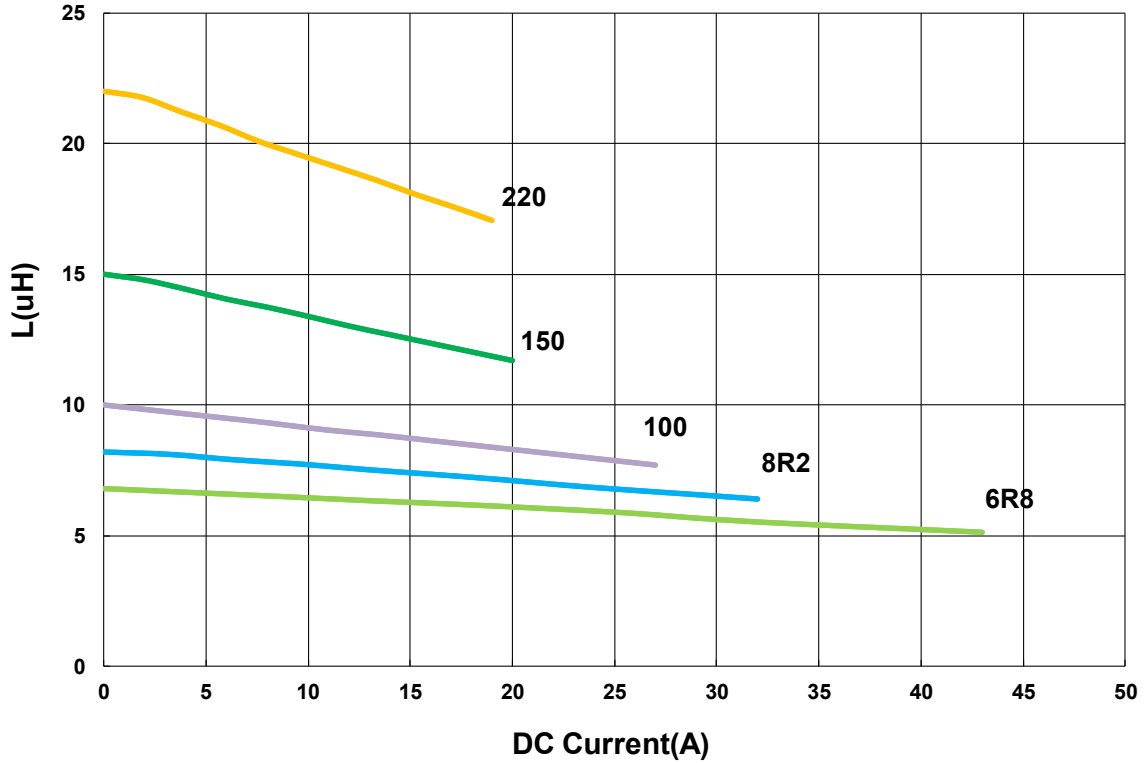
Power Inductor AMHS Series

**Automotive
AEC-Q200**

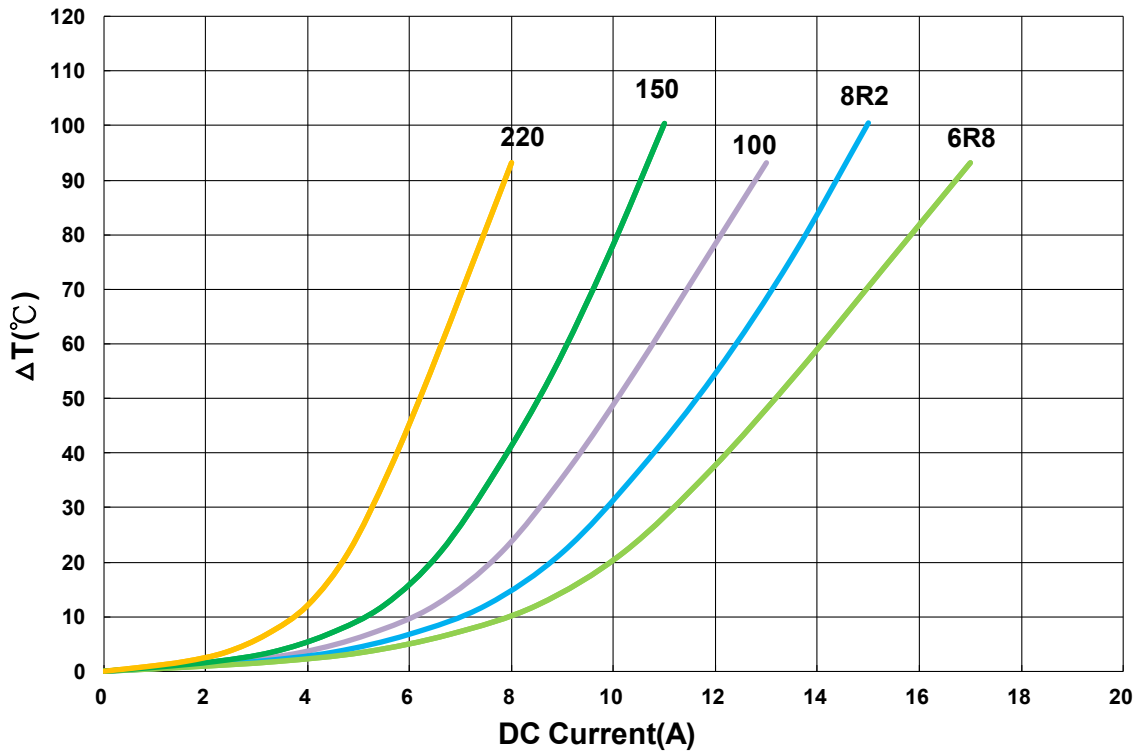
AMHS00131313 Type

■ Characteristics Graph

Inductance vs DC Current



Temperature Change v.s DC Current

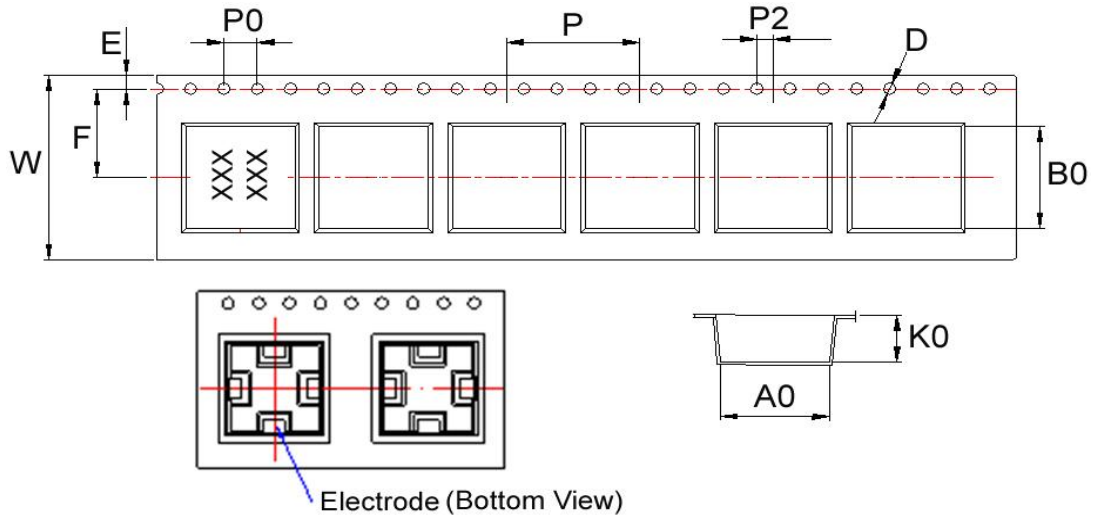


Power Inductor AMHS Series

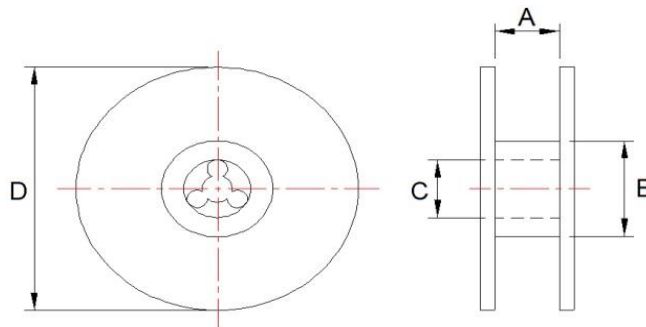
**Automotive
AEC-Q200**

■ 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
AMHS00131313	14.5	14.5	13.2	1.5	1.5	11.5	24	20	4	2	24	100	13.5	330	250

Power Inductor AWVS Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



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

Part Numbering

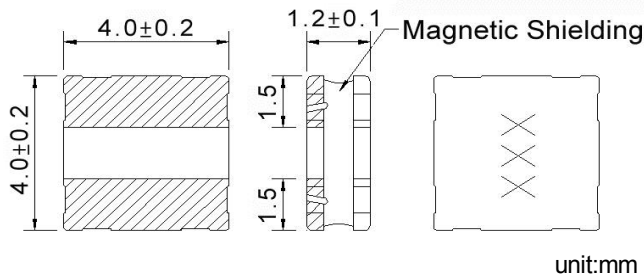
A	WVS	00	606045	1R0	M	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			404012 4.0x4.0x1.2	R47 0.47	M ±20%	00 General
			404018 4.0x4.0x1.8	1R0 1.0	T ±30%	L1 Low DCR
			505020 5.0x5.0x2.0	101 100		
			505040 5.0x5.0x4.0			
			606020 6.0x6.0x2.0			
			606028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

Power Inductor AWVS Series

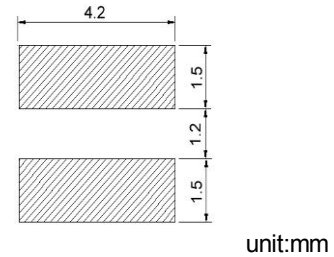
**Automotive
AEC-Q200**

AWVS00404012 Type

Dimensions



Recommended Land Pattern



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°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:

- L: Agilent HP4284A+Agilent HP42841A
- RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
- Isat: Agilent HP4284A
- I rms: Agilent HP4284A

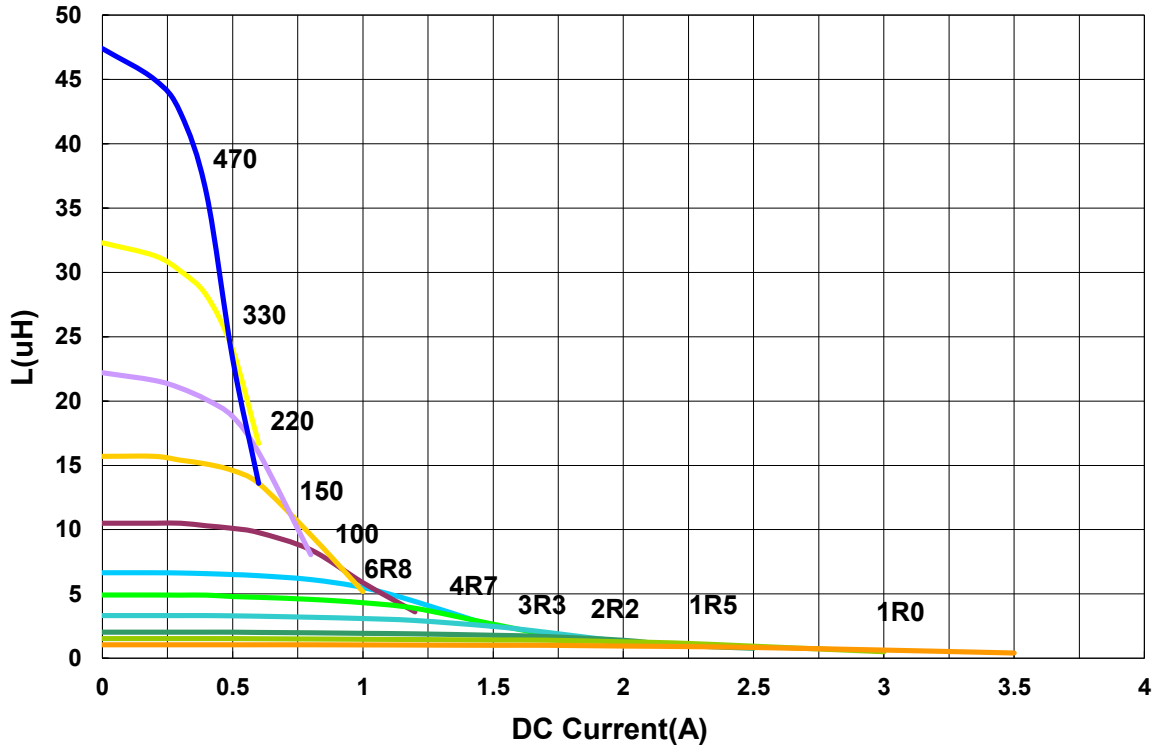
Power Inductor AWVS Series

**Automotive
AEC-Q200**

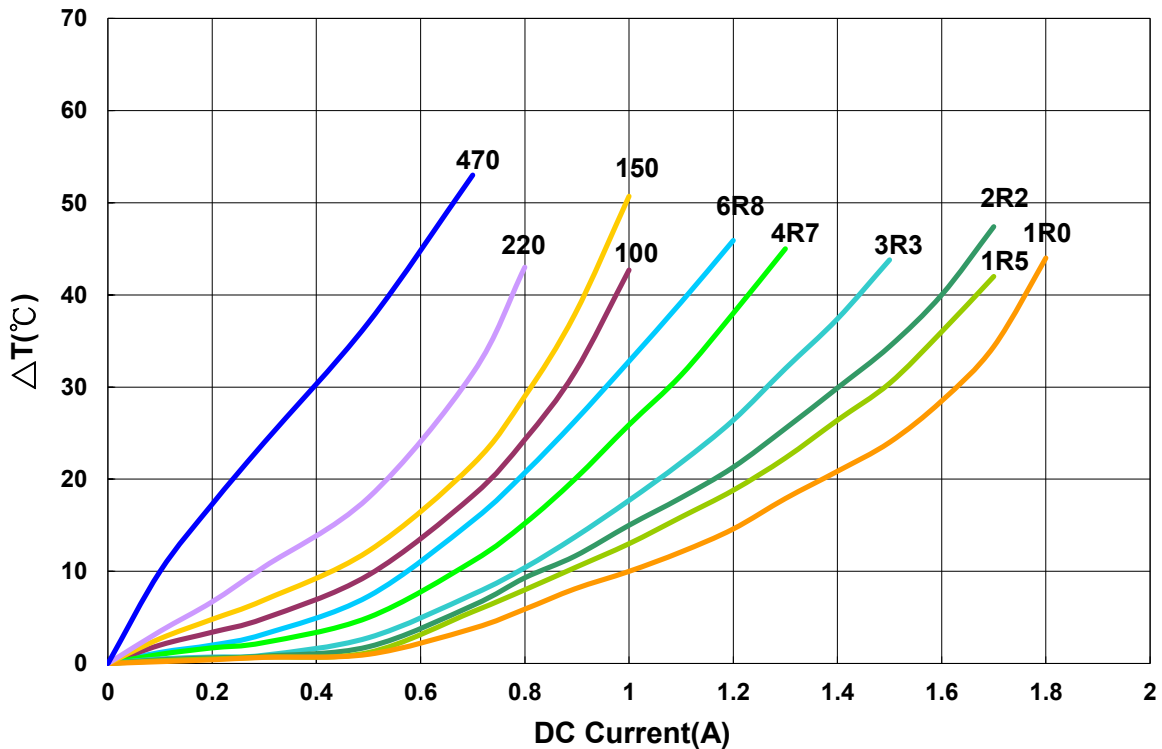
AWVS00404012 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

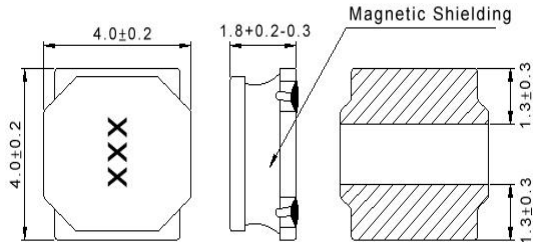


Power Inductor AWVS Series

**Automotive
AEC-Q200**

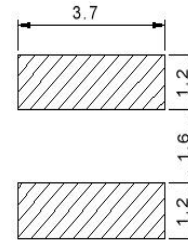
AWVS00404018 Type

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

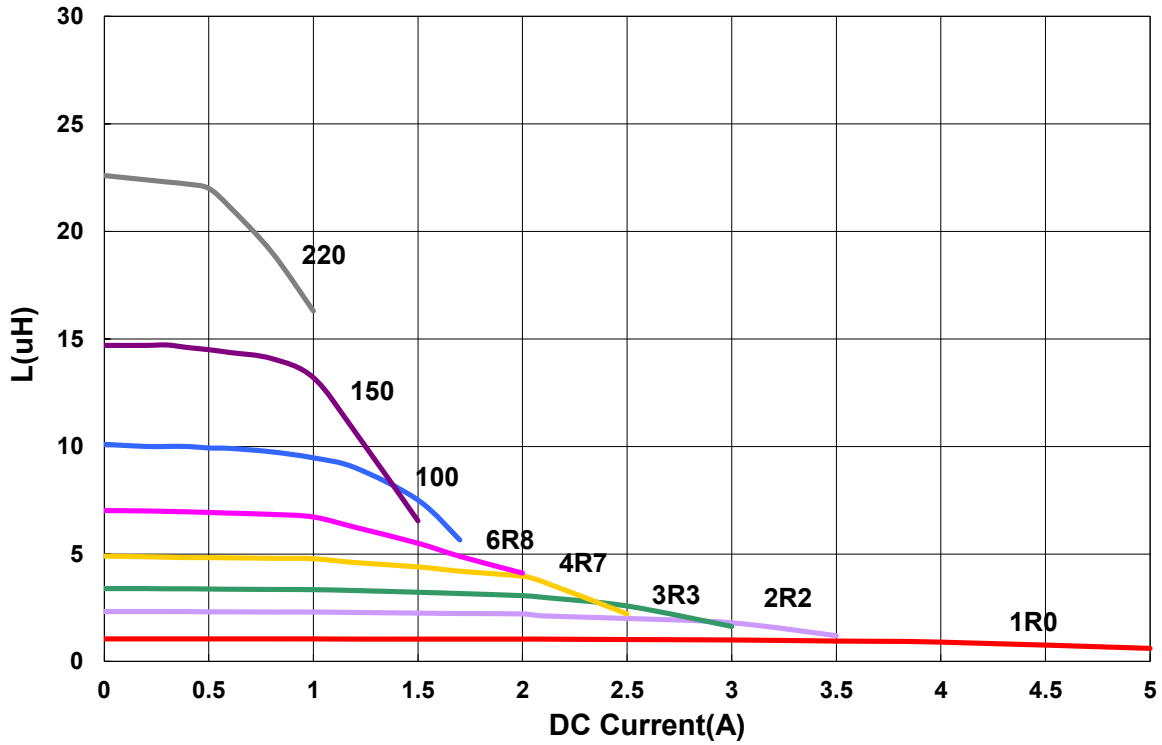
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

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

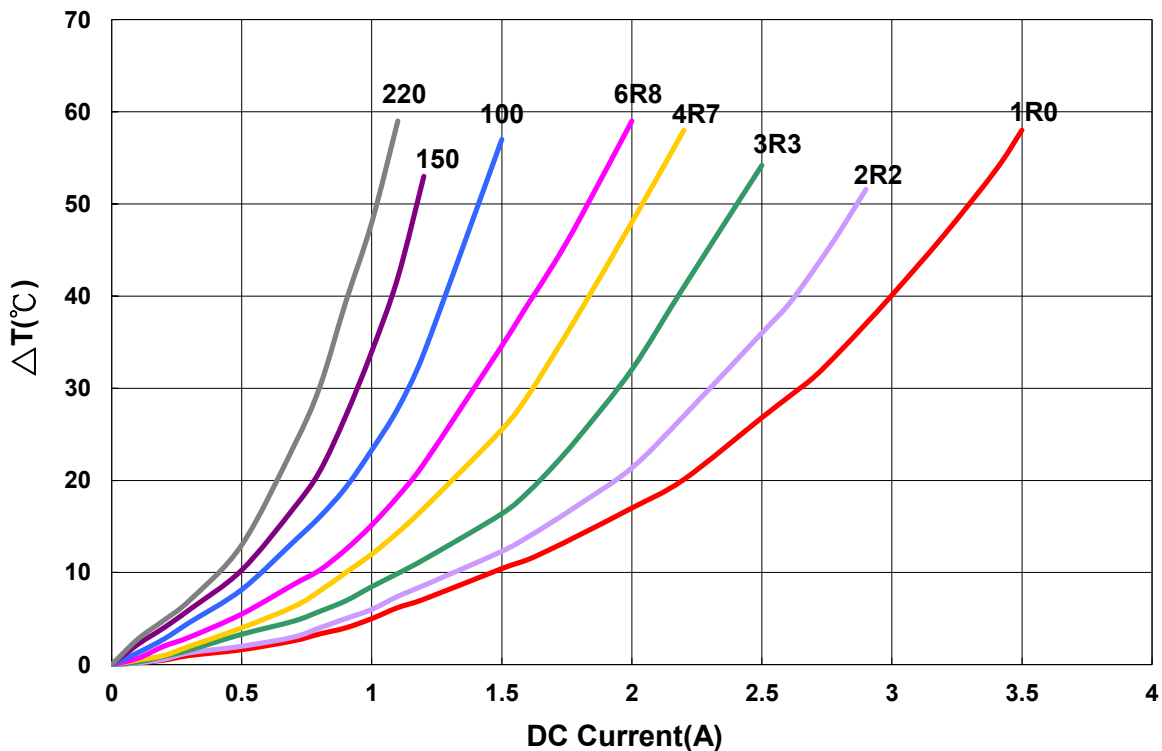
AWVS00404018 Type

■ Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

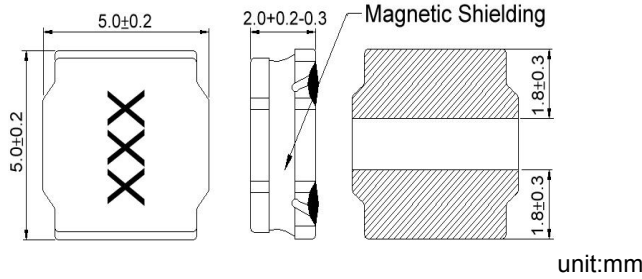


Power Inductor AWVS Series

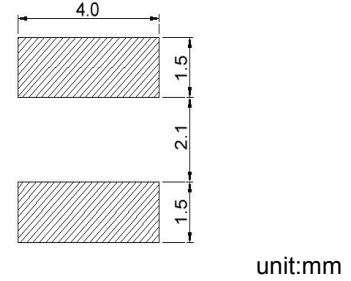
**Automotive
AEC-Q200**

AWVS00505020 Type

■ Dimensions



■ Recommended Land Pattern



■ 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°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:

L: Agilent HP4284A+Agilent HP42841A
 RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 Isat: Agilent HP4284A
 I rms: Agilent HP4284A

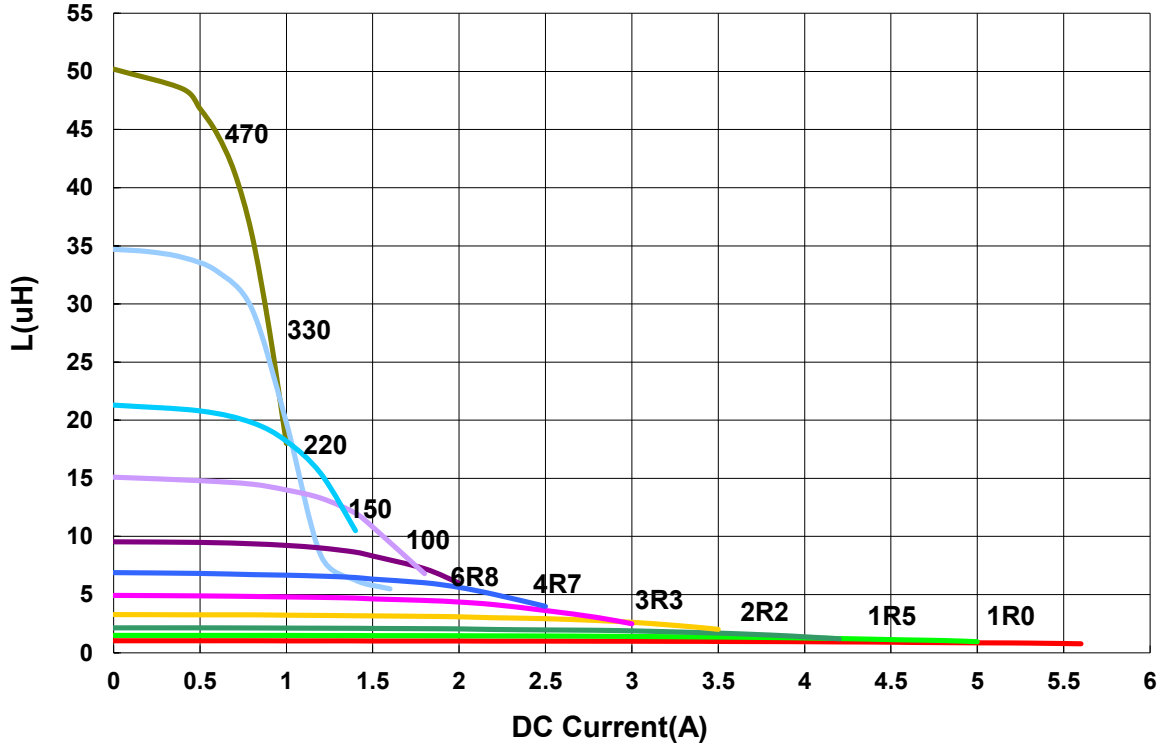
Power Inductor AWVS Series

**Automotive
AEC-Q200**

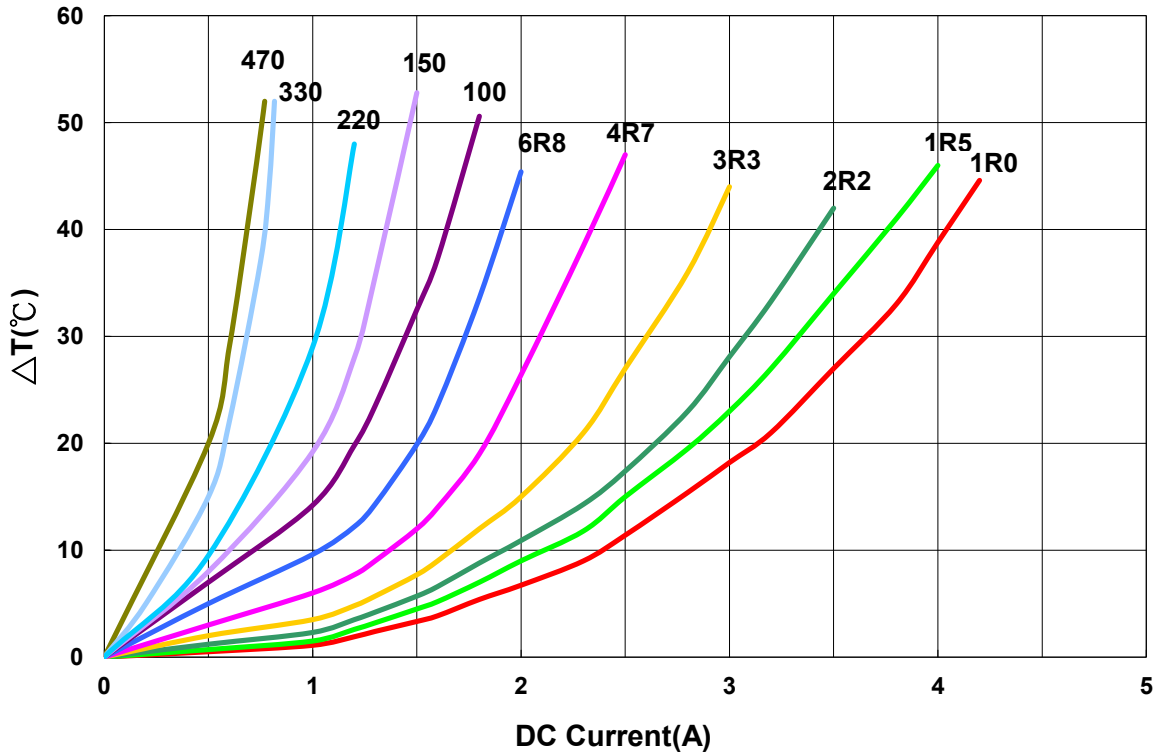
AWVS00505020 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

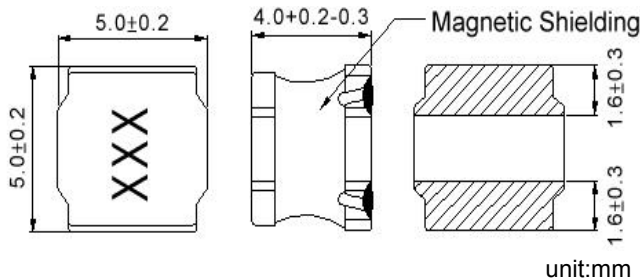


Power Inductor AWVS Series

**Automotive
AEC-Q200**

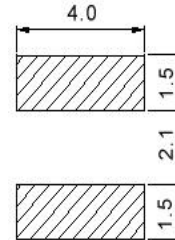
AWVS00505040 Type

■ 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
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
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%

- Operating temperature range - 40°C ~ 125°C
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment:
 - L: Agilent HP4284A+Agilent HP42841A
 - RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 - Isat: Agilent HP4284A
 - Irms: Agilent HP4284A

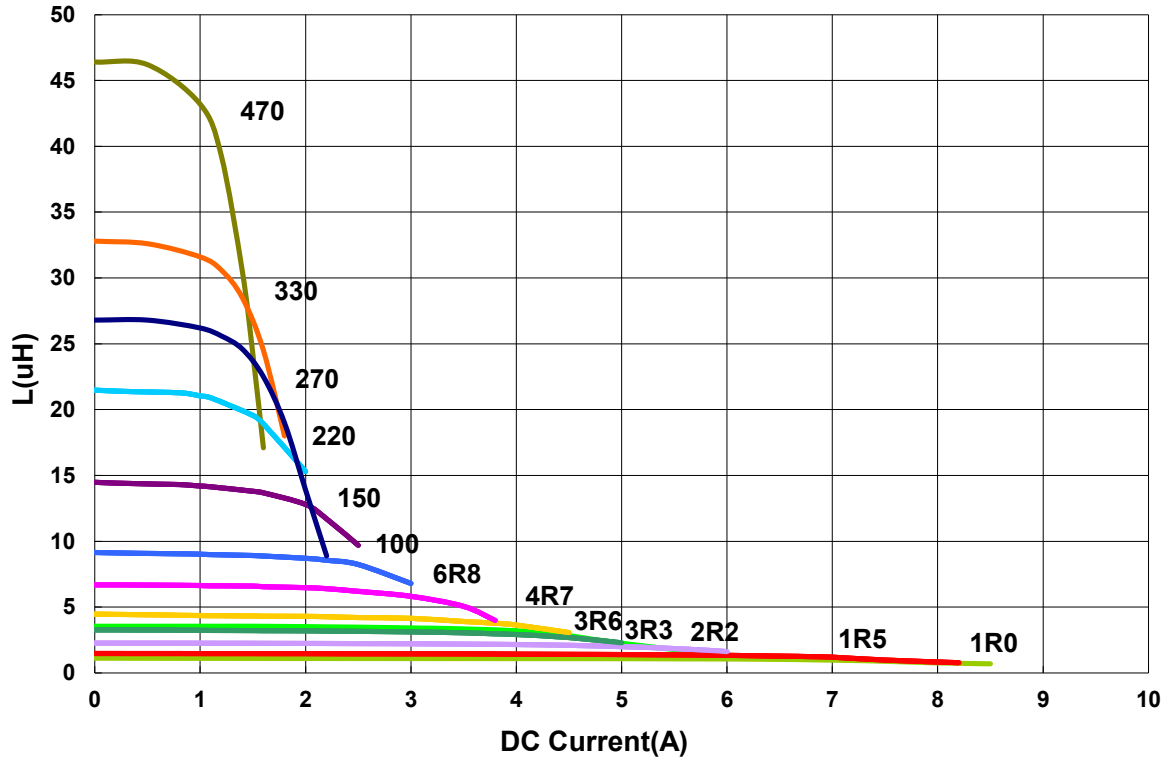
Power Inductor AWVS Series

**Automotive
AEC-Q200**

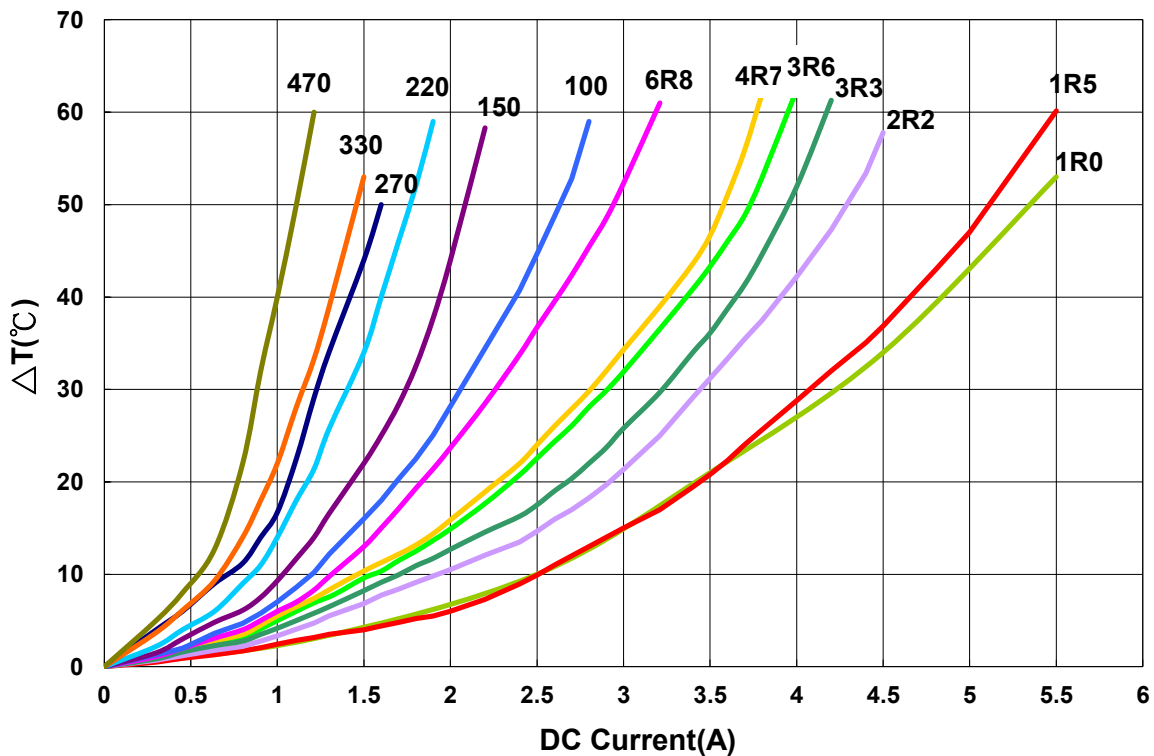
AWVS00505040 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

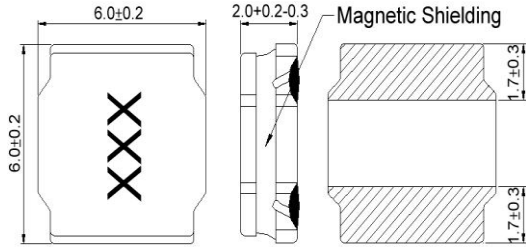


Power Inductor AWVS Series

**Automotive
AEC-Q200**

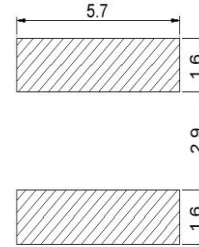
AWVS00606020 Type

■ 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°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40°C temperature rise from 25°C 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

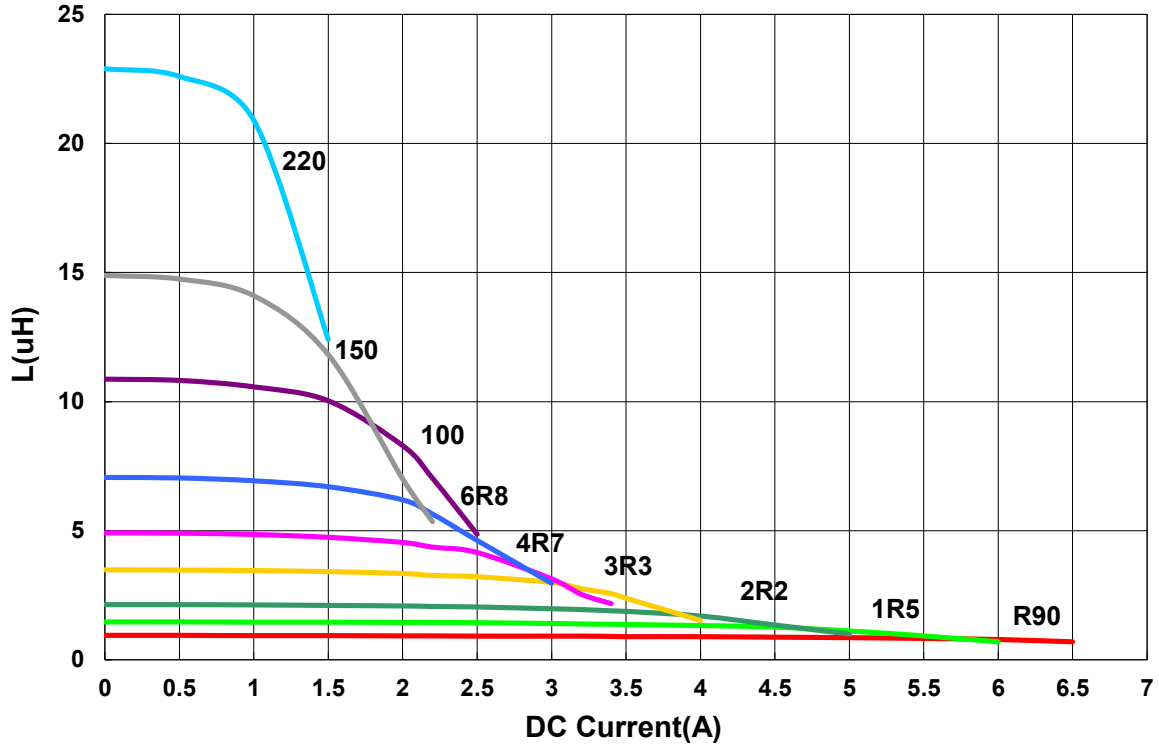
Power Inductor AWVS Series

**Automotive
AEC-Q200**

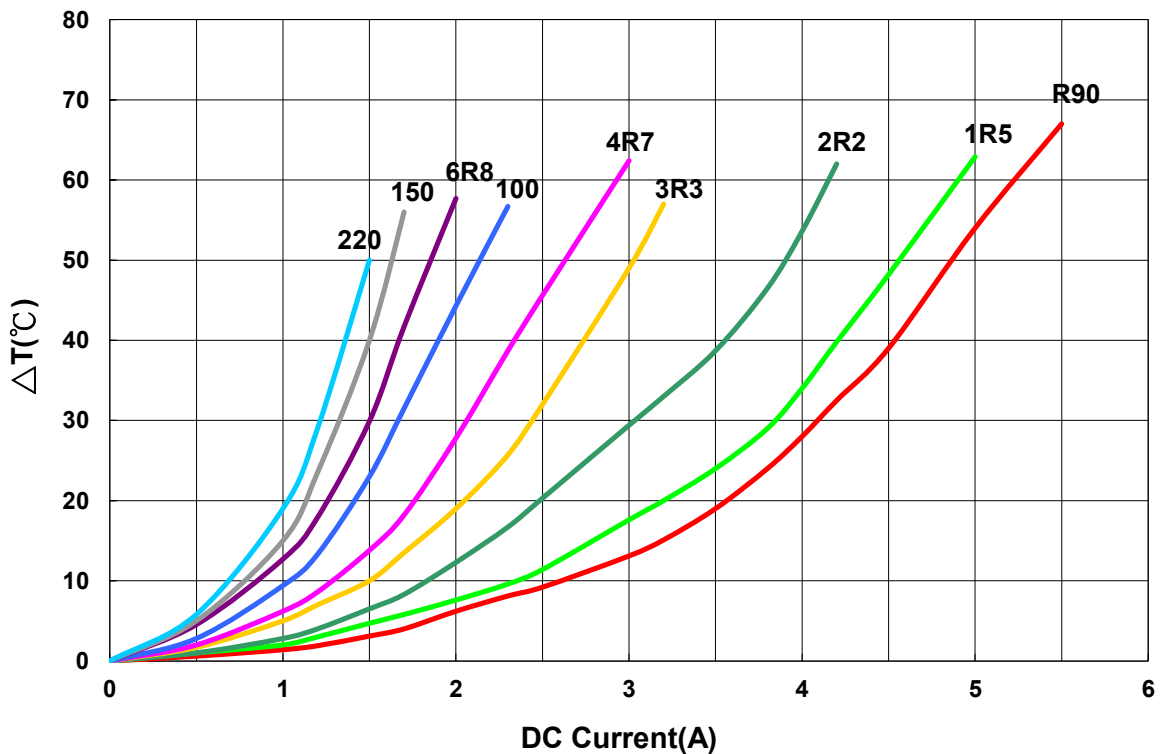
AWVS00606020 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

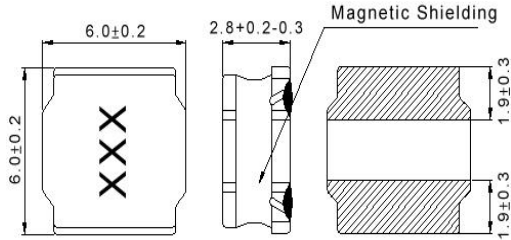


Power Inductor AWVS Series

**Automotive
AEC-Q200**

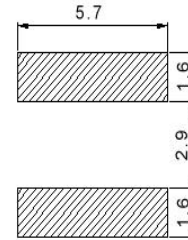
AWVS00606028 Type

■ 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°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:

L: Agilent HP4284A+Agilent HP42841A
 RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 Isat: Agilent HP4284A
 I rms: Agilent HP4284A

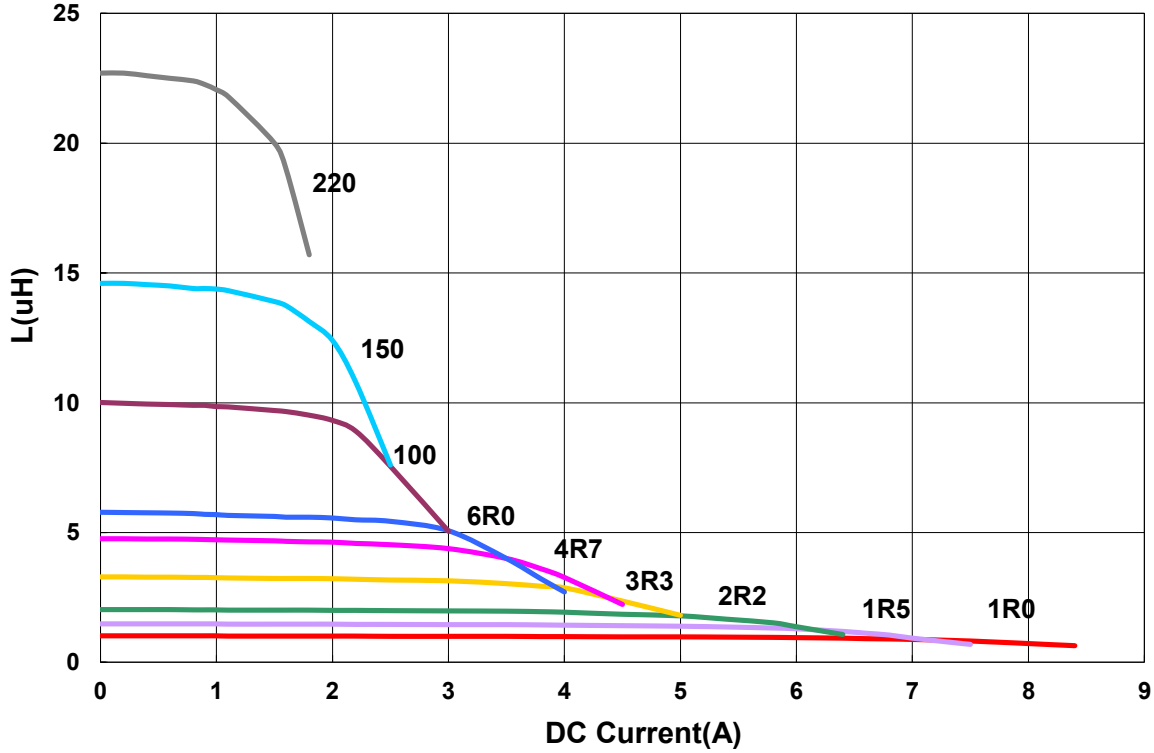
Power Inductor AWVS Series

**Automotive
AEC-Q200**

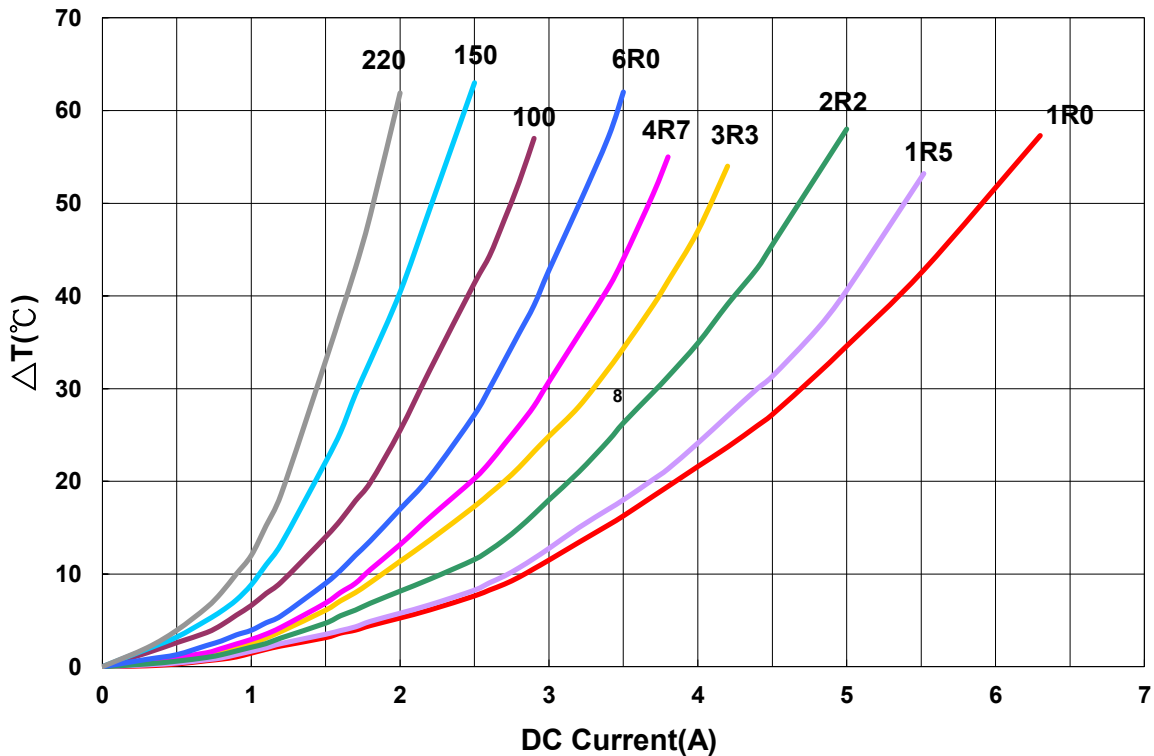
AWVS00606028 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current



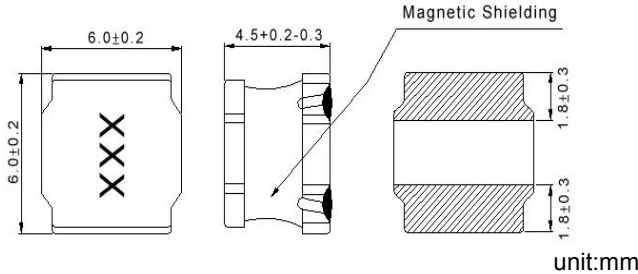
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

Power Inductor AWVS Series

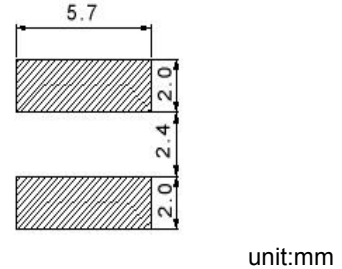
**Automotive
AEC-Q200**

AWVS00606045 Type

Dimensions



Recommended Land Pattern



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%

- Operating temperature range - 40°C ~ 125°C
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment:

L: Agilent HP4284A+Agilent HP42841A
 RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 Isat: Agilent HP4284A
 Irms: Agilent HP4284A

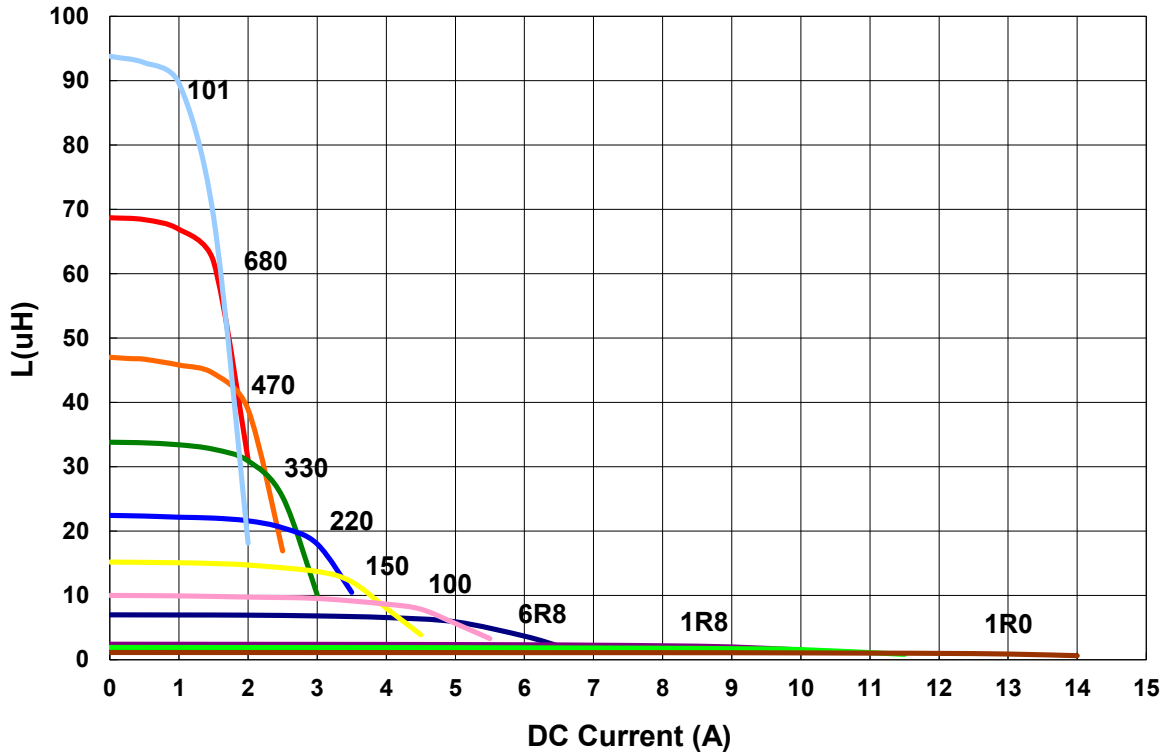
Power Inductor AWVS Series

**Automotive
AEC-Q200**

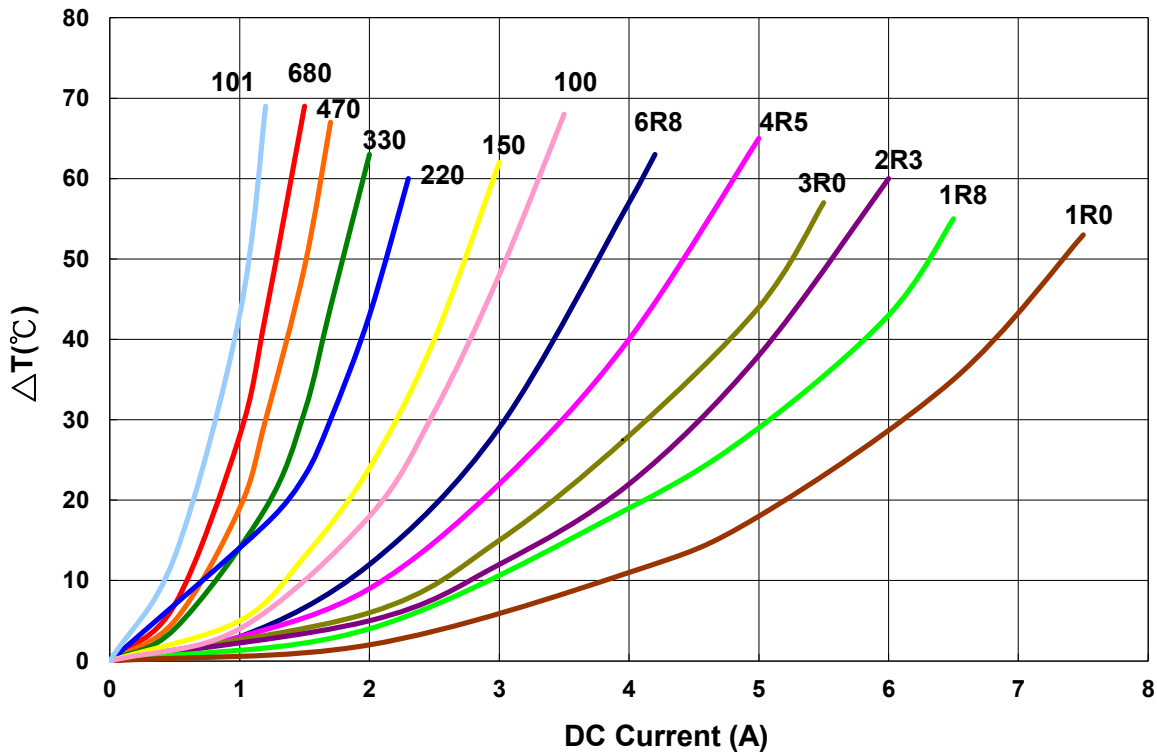
AWVS00606045 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

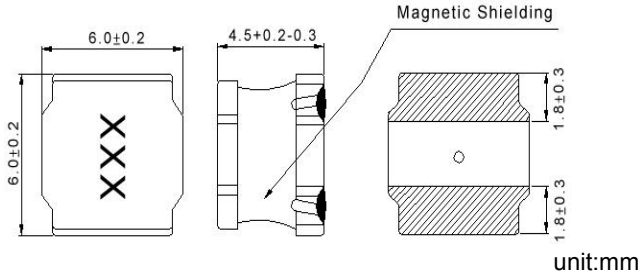


Power Inductor AWVS Series

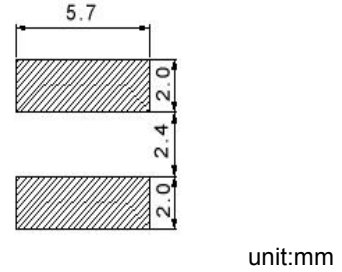
**Automotive
AEC-Q200**

AWVS00606045 - L1 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)Max.	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
AWVS00606045R50□L1	0.5	100kHz,1V	9	11(9.90)	8.0(7.20)	30	R50
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

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

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

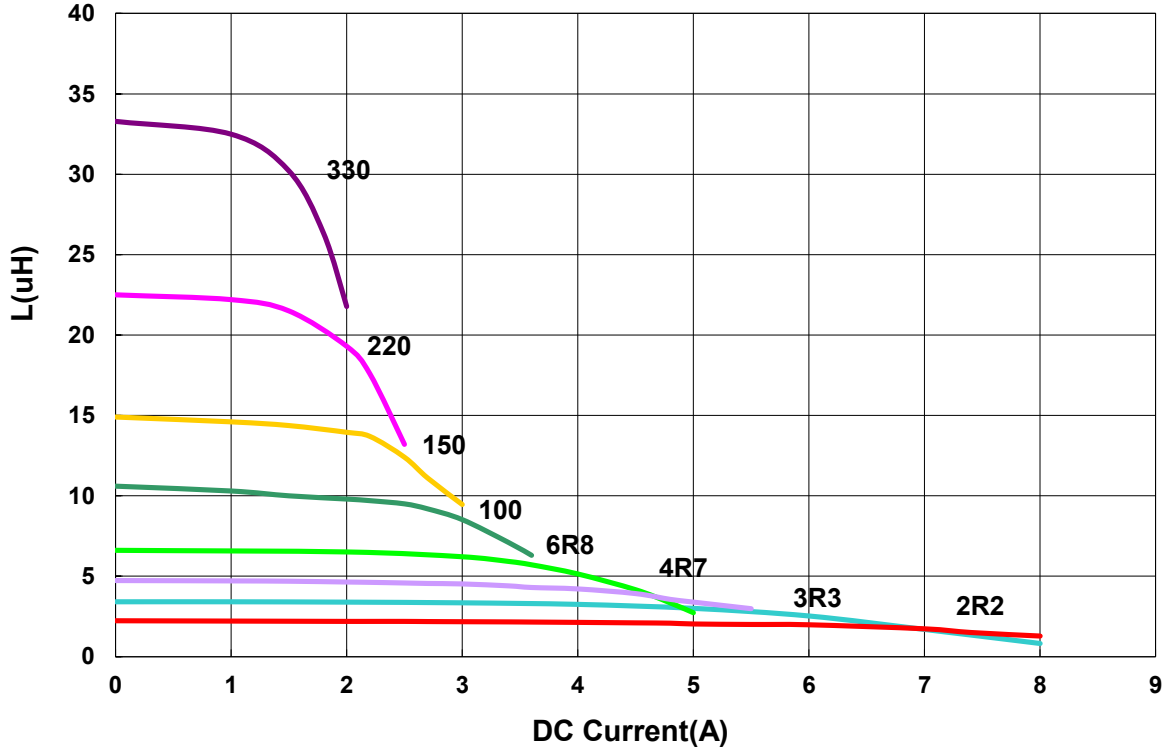
Power Inductor AWVS Series

**Automotive
AEC-Q200**

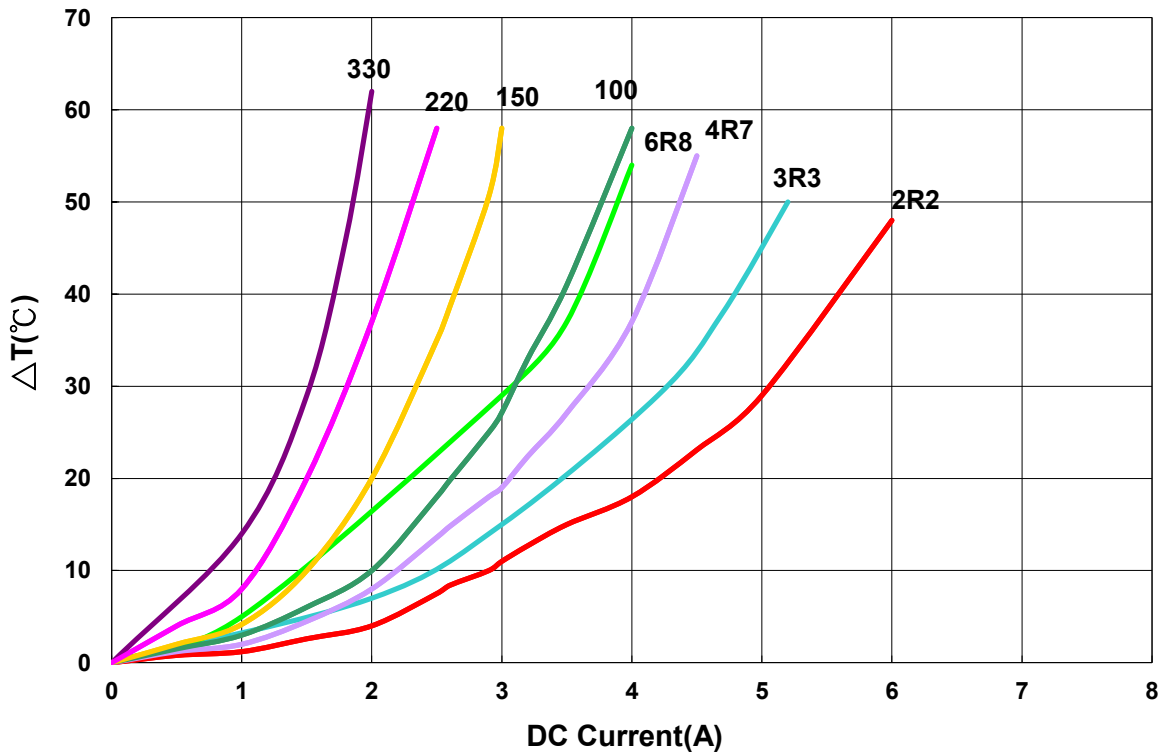
AWVS00606045 - L1 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

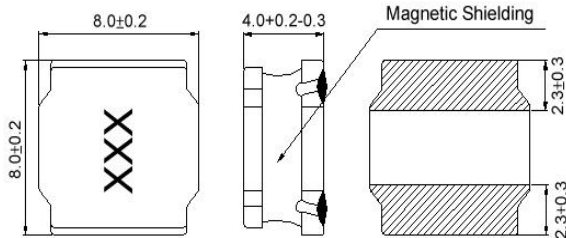


Power Inductor AWVS Series

**Automotive
AEC-Q200**

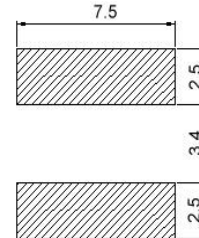
LVS808040 - AU Type

■ 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
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°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:
 L: Agilent HP4284A+Agilent HP42841A
 RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 Isat: Agilent HP4284A
 I rms: Agilent HP4284A

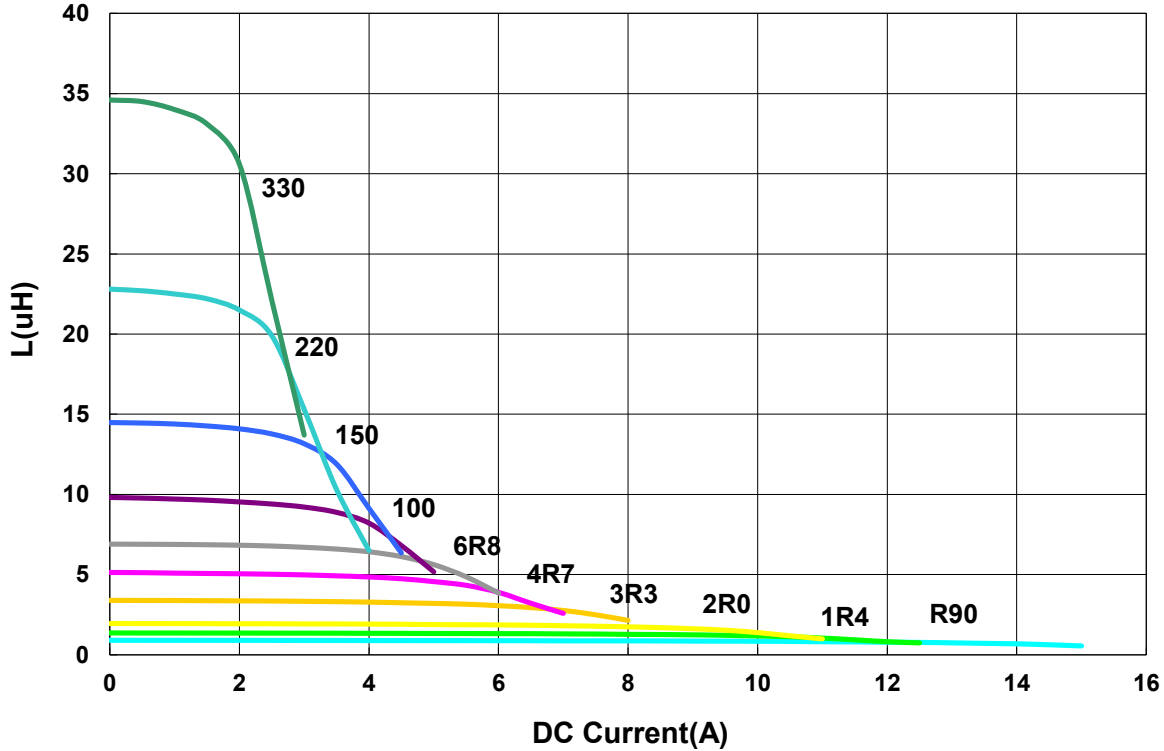
Power Inductor AWVS Series

**Automotive
AEC-Q200**

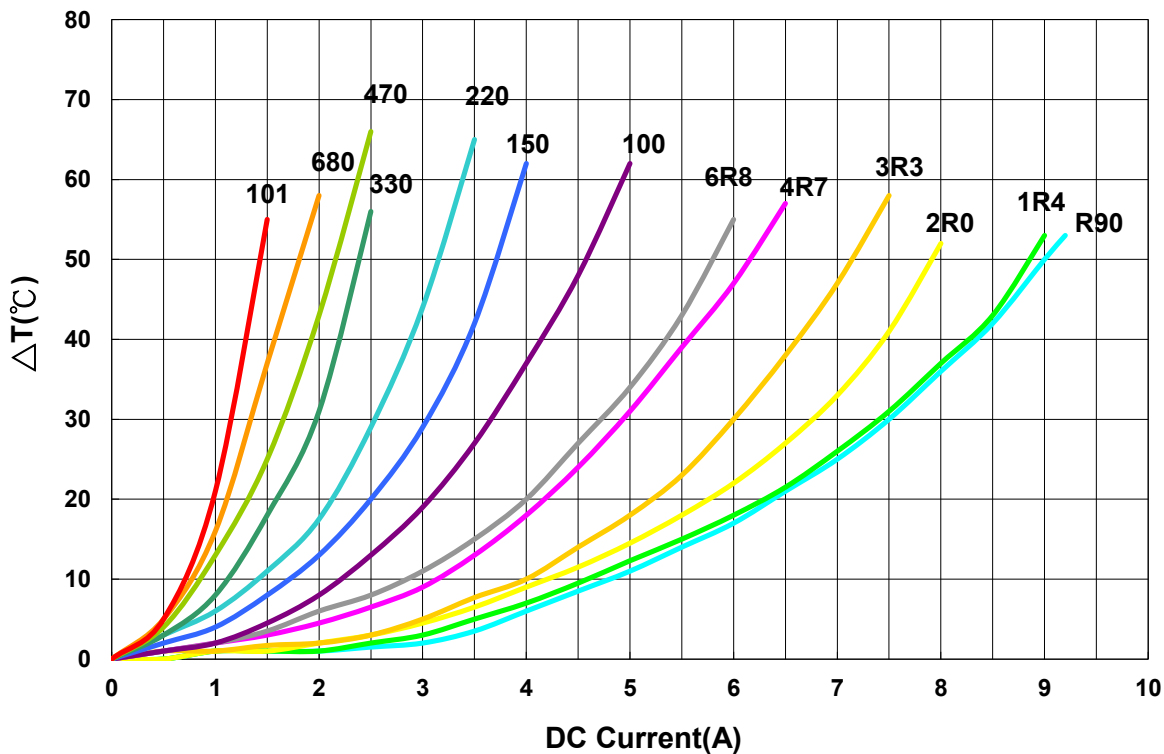
LVS808040 - AU Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

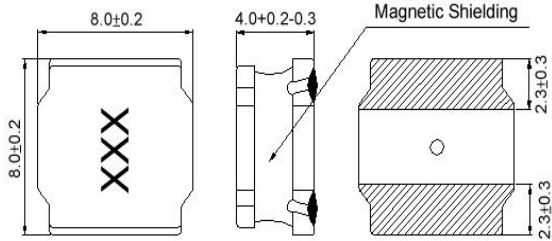


Power Inductor AWVS Series

**Automotive
AEC-Q200**

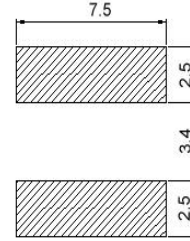
AWVS00808040 - L1 Type

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

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

1. Operating temperature range - 40°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40°C temperature rise from 25°C 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

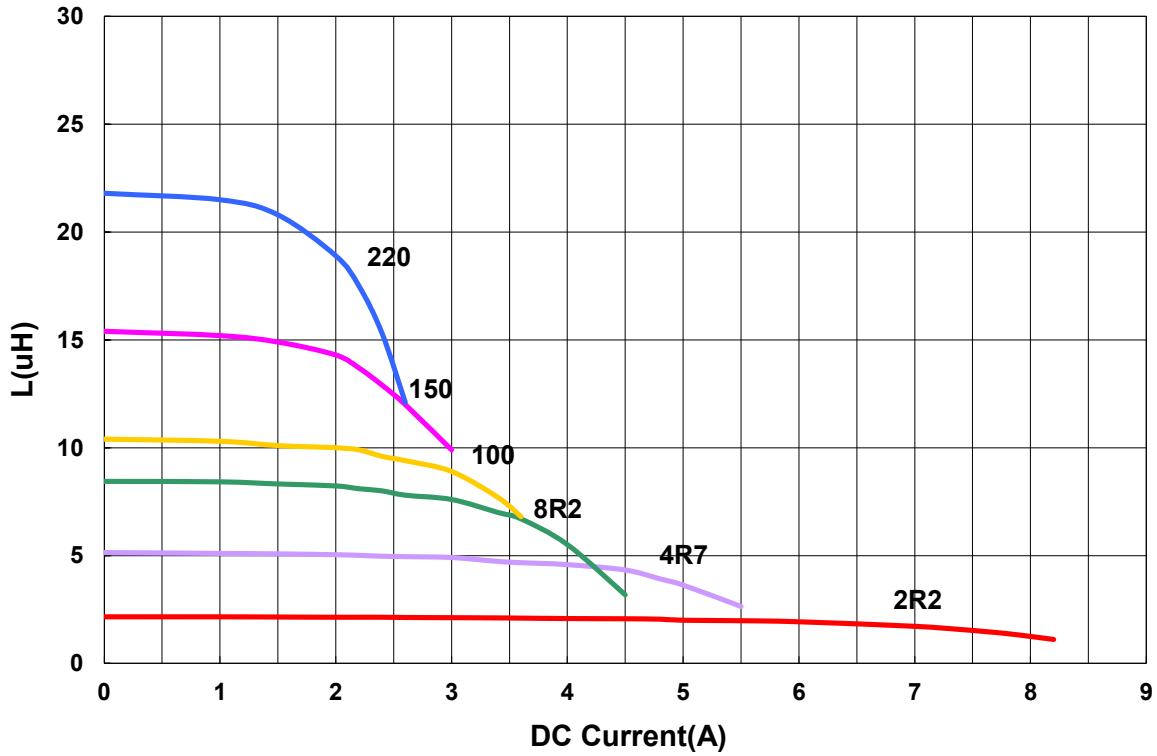
Power Inductor AWVS Series

**Automotive
AEC-Q200**

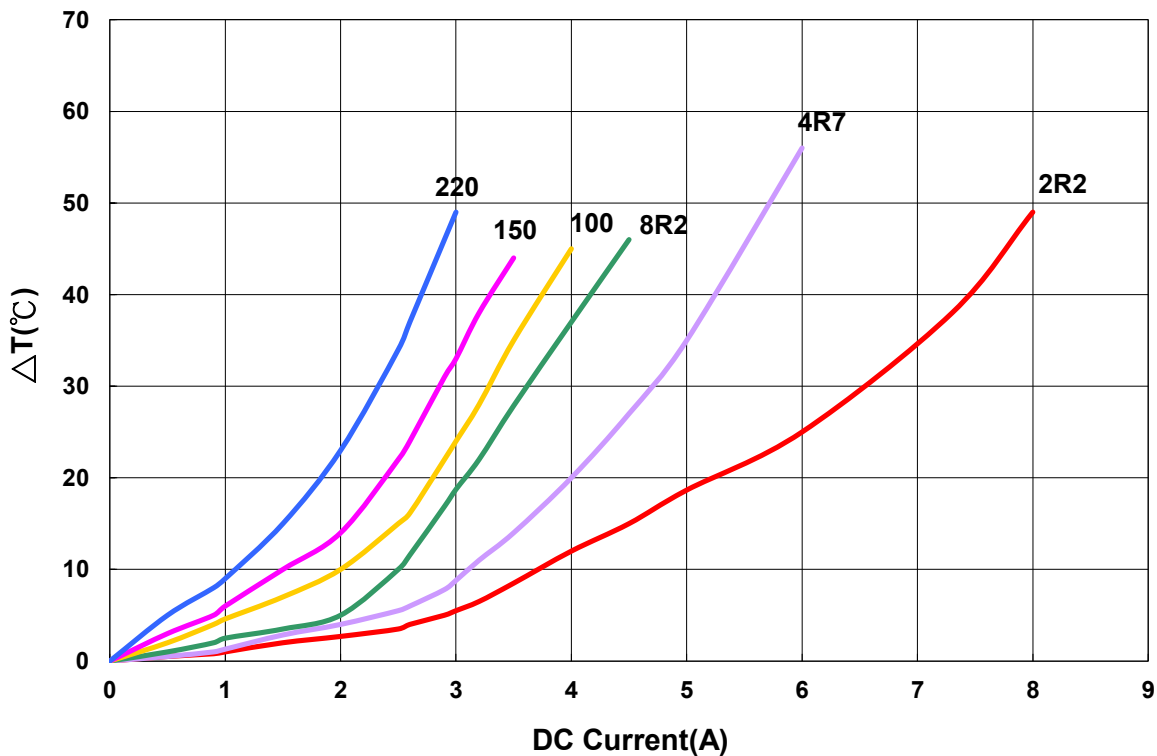
AWVS00808040 - L1 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

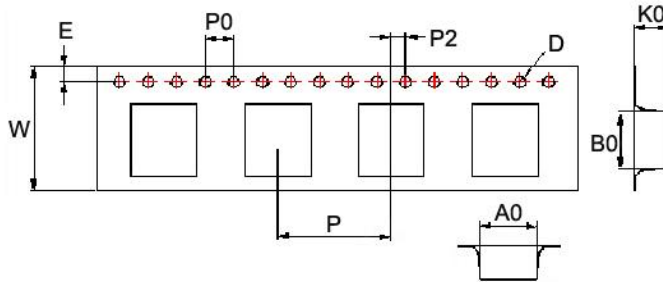


Power Inductor AWVS Series

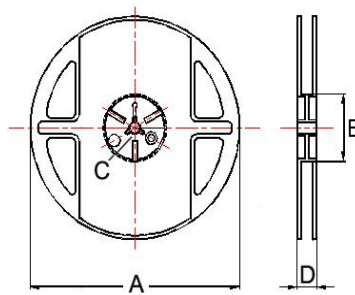
**Automotive
AEC-Q200**

■ 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
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	7.5	16	12	4	2	330	100	13	16.0	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

Power Inductor AWVF Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



Part Numbering

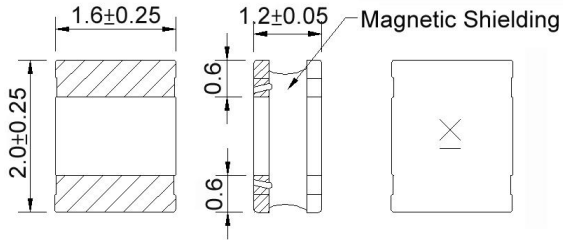
A	WVF	00	404018	1R0	M	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			201612 2.0x1.6x1.2	R47 0.47	M ±20%	
			252010 2.5x2.0x1.02	1R0 1.0	T ±30%	
			252012 2.5x2.0x1.2	101 100		
			303010 3.0x3.0x1.02			
			303012 3.0x3.0x1.2			
			303015 3.0x3.0x1.5			
			404012 4.0x4.0x1.02			
			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			

Power Inductor AWVF Series

**Automotive
AEC-Q200**

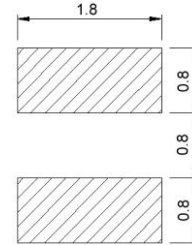
AWVF00201612 Type

■ 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
2. Isat for Inductance drop 30% from its value without current
3. Iirms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:
 - L: Agilent HP4287A+Agilent HP16197A
 - RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 - Isat: Agilent HP4284A
 - Iirms: Agilent HP4284A

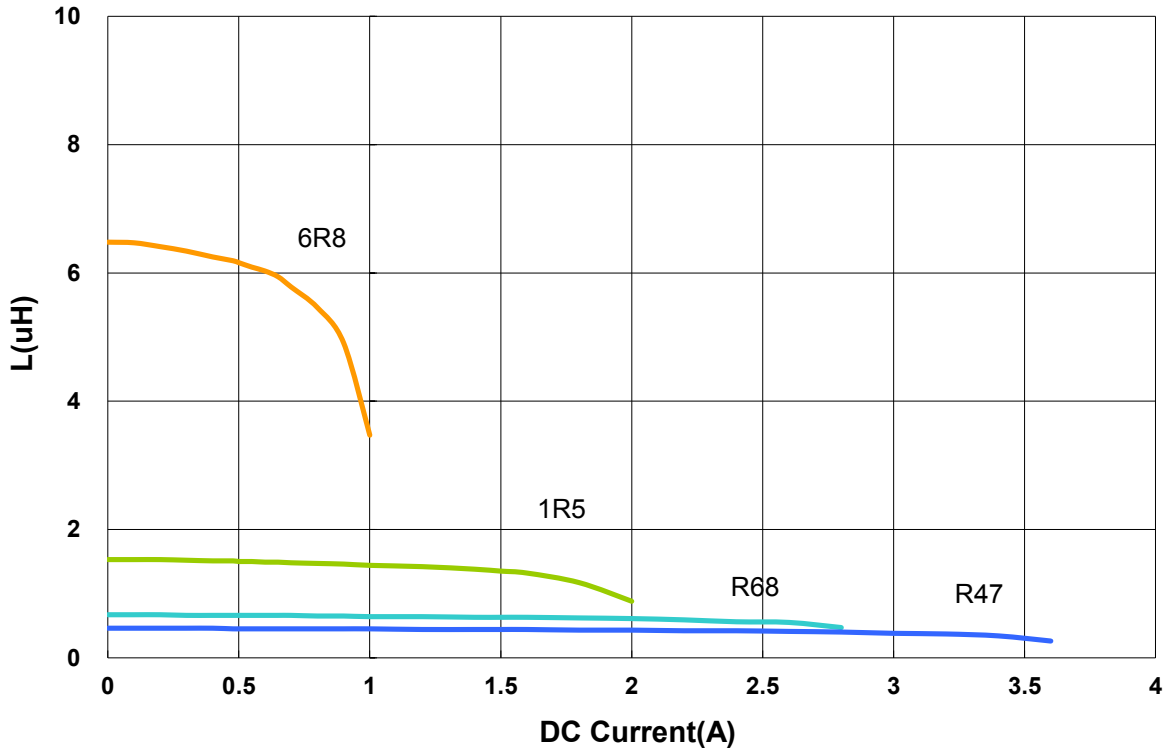
Power Inductor AWVF Series

**Automotive
AEC-Q200**

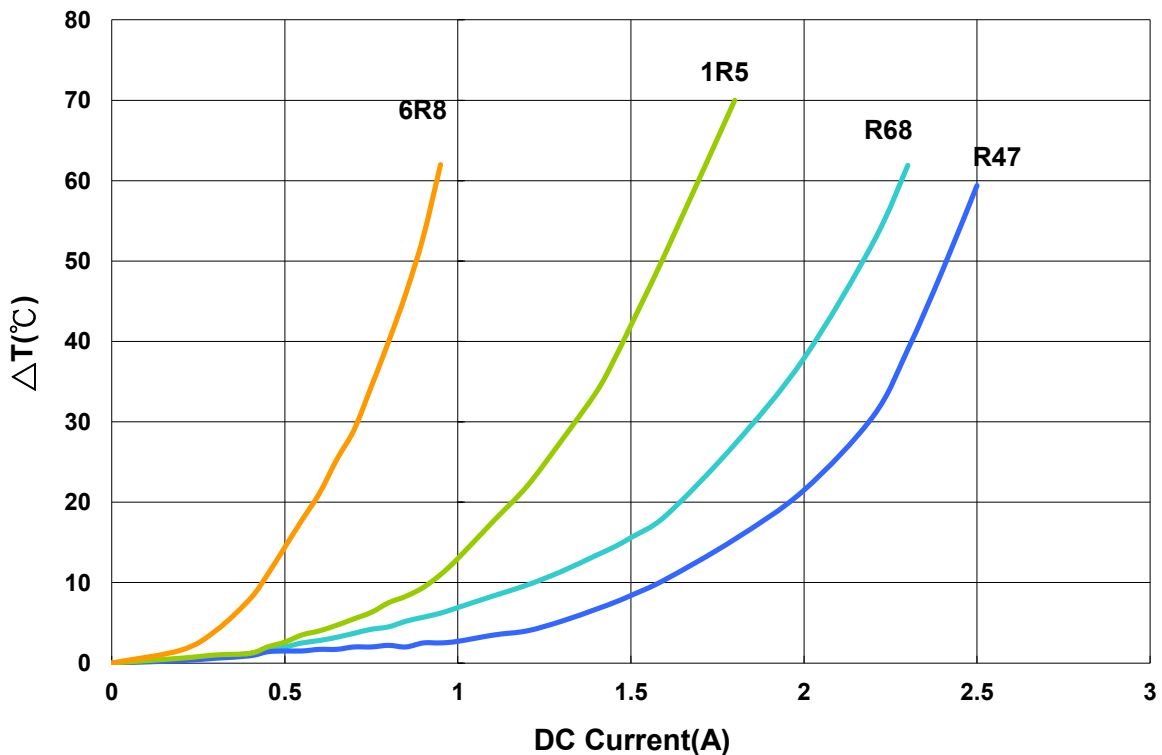
AWVF00201612 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

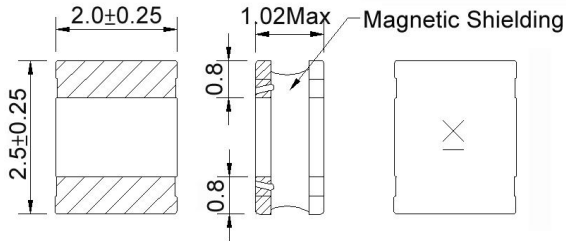


Power Inductor AWVF Series

**Automotive
AEC-Q200**

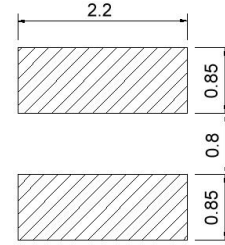
AWVF00252010 Type

■ 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

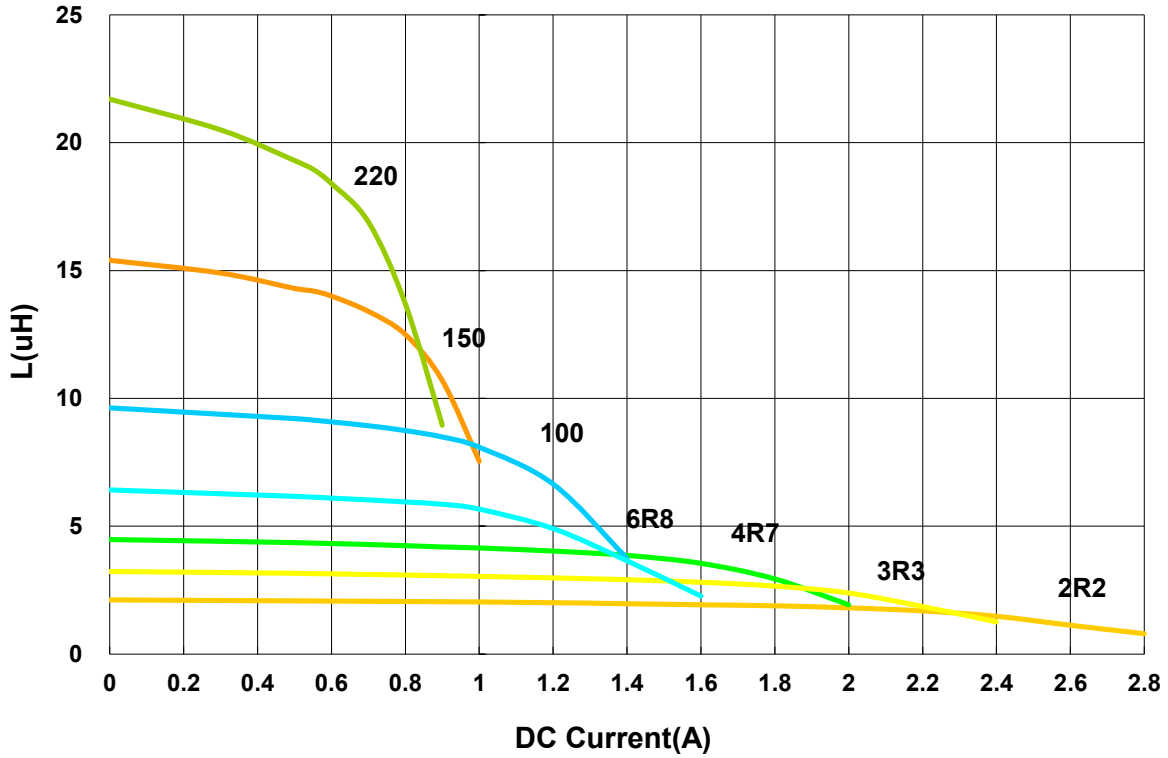
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

1. Operating temperature range - 40°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:
 L: Agilent HP4287A+Agilent HP16197A
 RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 Isat: Agilent HP4284A
 I rms: Agilent HP4284A

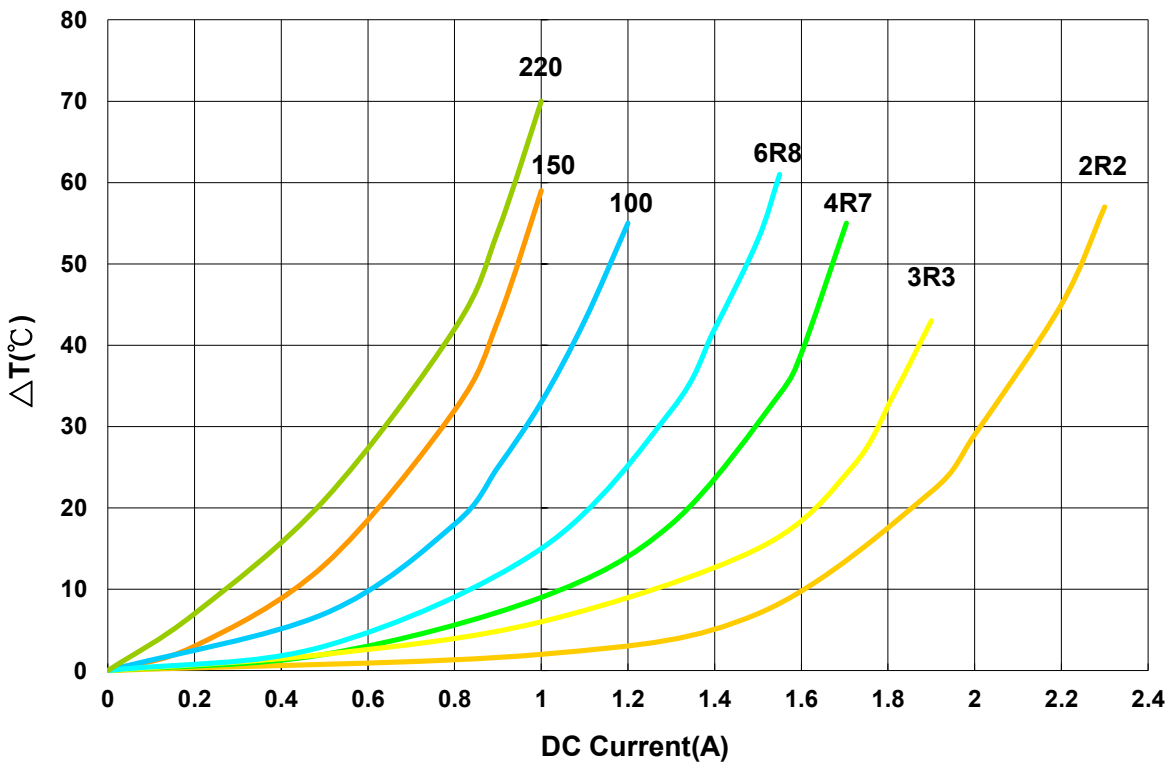
AWVF00252010 Type

■ Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

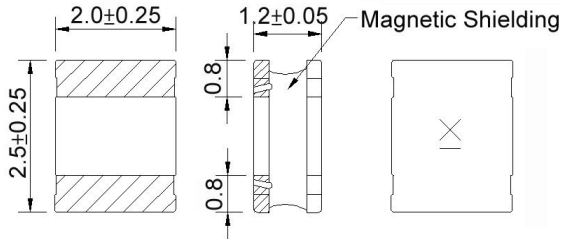


Power Inductor AWVF Series

**Automotive
AEC-Q200**

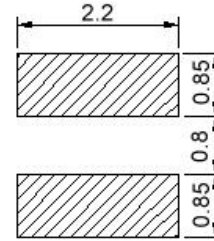
AWVF00252012 Type

■ 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
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temperature rise from 25°C ambient.
4. Measure Equipment:
 L: Agilent/HP4287A+Agilent/HP16197A
 RDC: Digital Milliohm Meter Chroma 16502, or equivalent
 Isat: Agilent/HP4284A
 I rms: Agilent/HP4284A

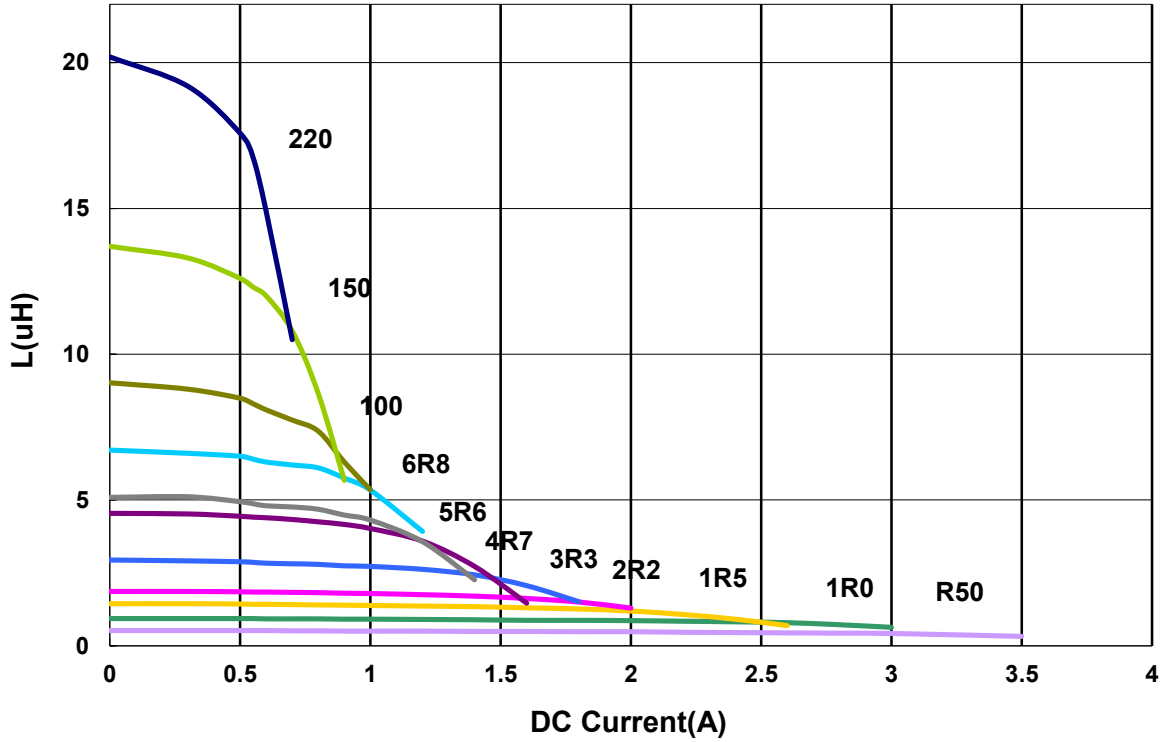
Power Inductor AWVF Series

**Automotive
AEC-Q200**

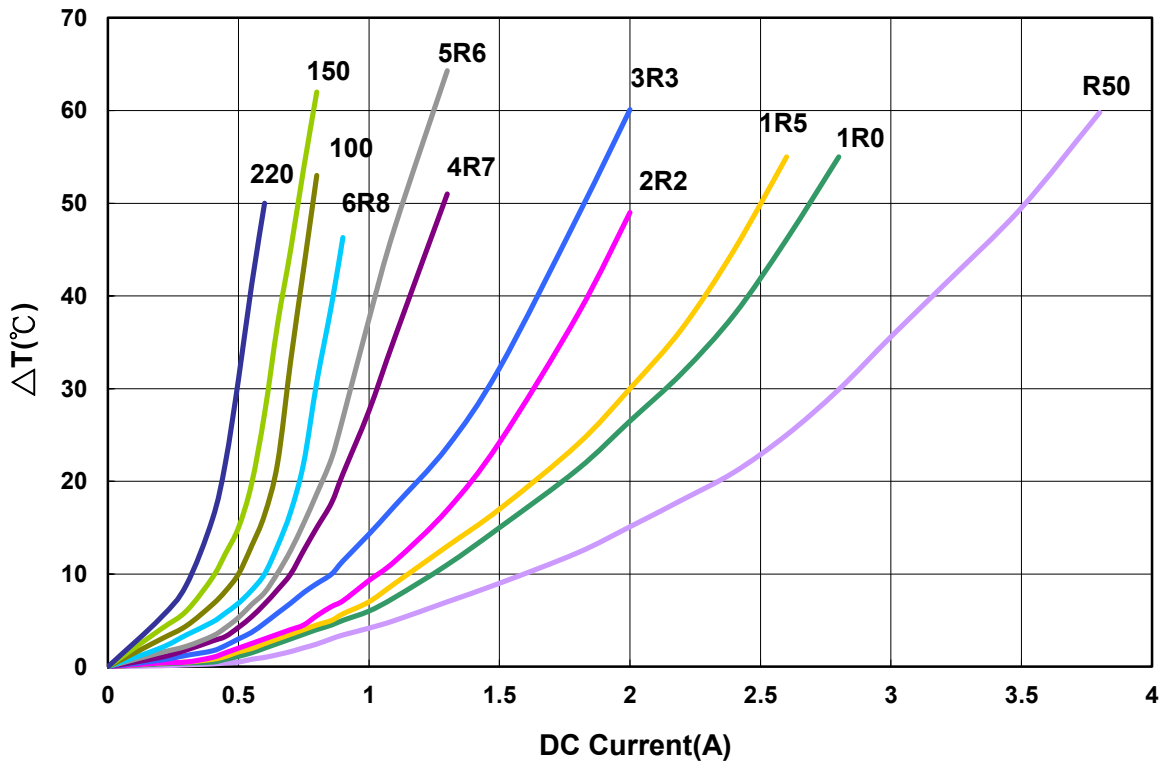
AWVF00252012 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current



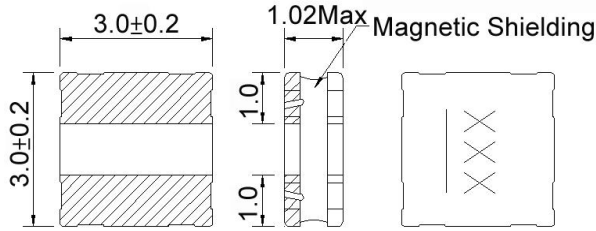
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

Power Inductor AWVF Series

**Automotive
AEC-Q200**

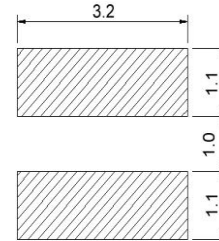
AWVF00303010 Type

■ 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
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:
 L: Agilent HP4287A+Agilent HP16197A
 RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 Isat: Agilent HP4284A
 I rms: Agilent HP4284A

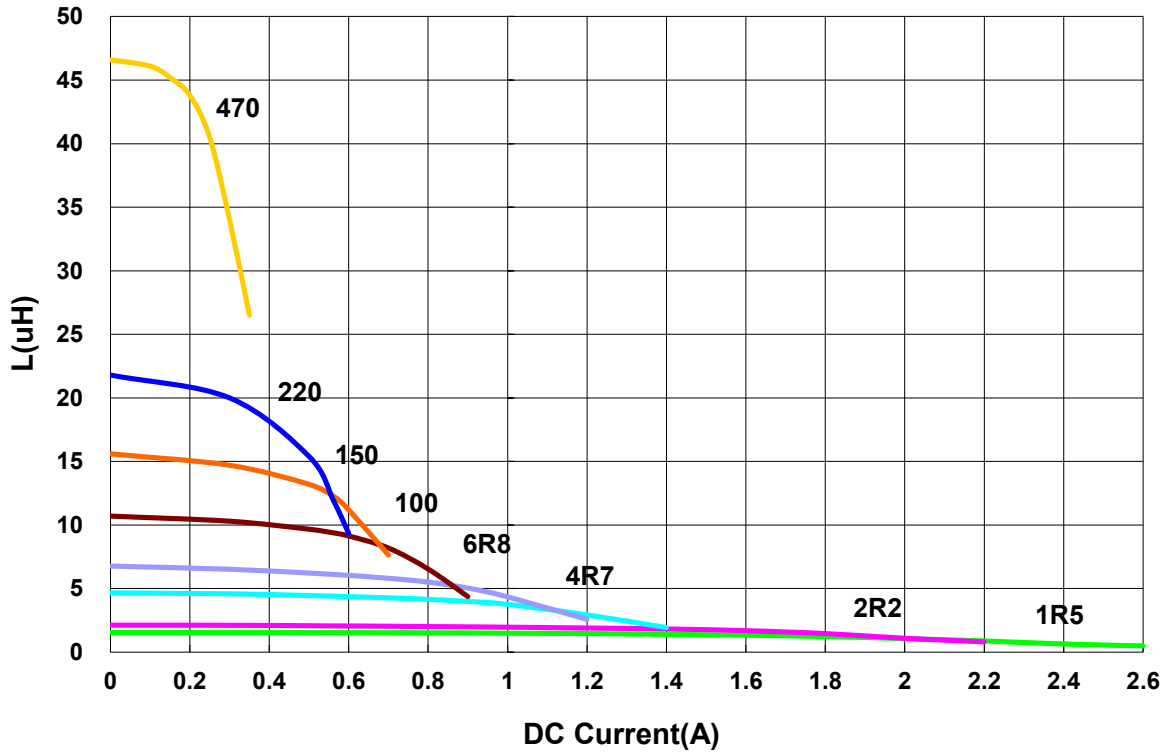
Power Inductor AWVF Series

**Automotive
AEC-Q200**

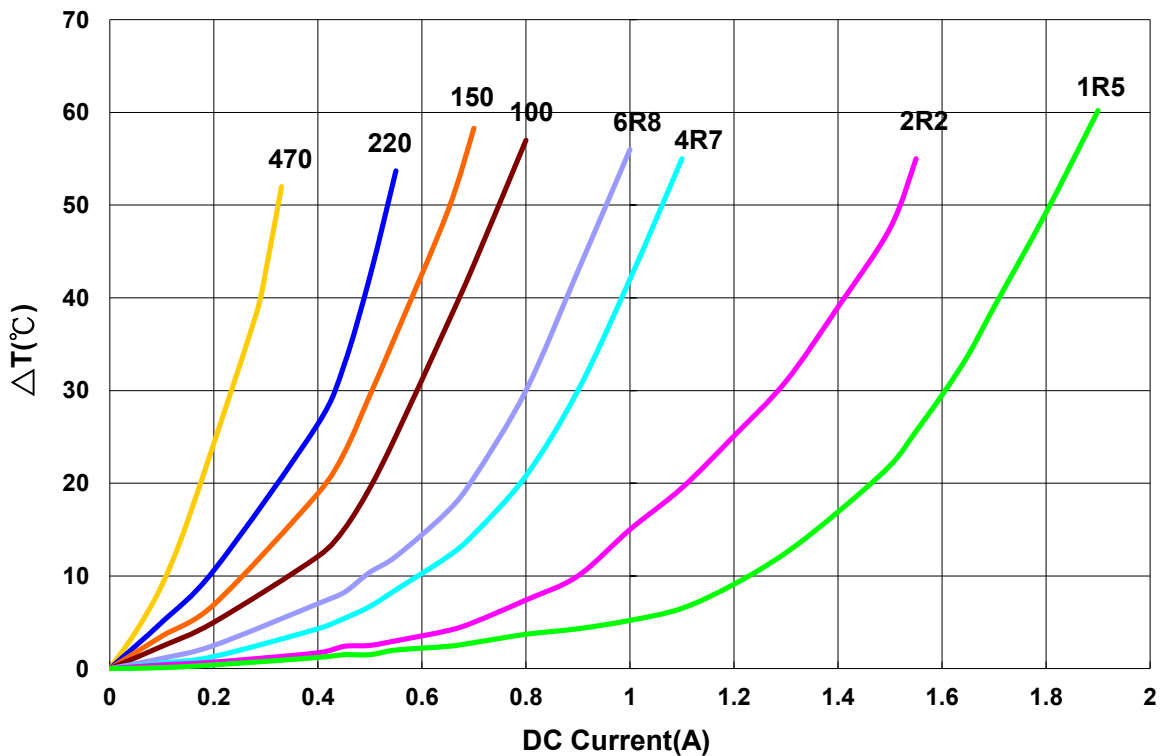
AWVF00303010 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

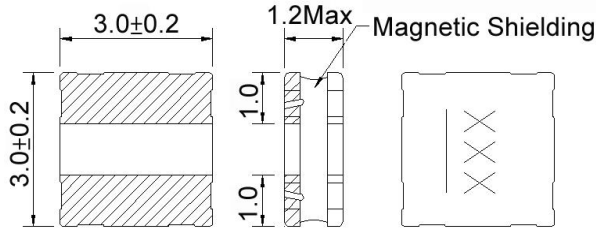


Power Inductor AWVF Series

**Automotive
AEC-Q200**

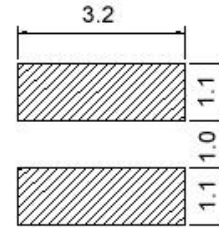
AWVF00303012 Type

■ 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
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:
 L: Agilent HP4287A+Agilent HP16197A
 RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 Isat: Agilent HP4284A
 I rms: Agilent HP4284A

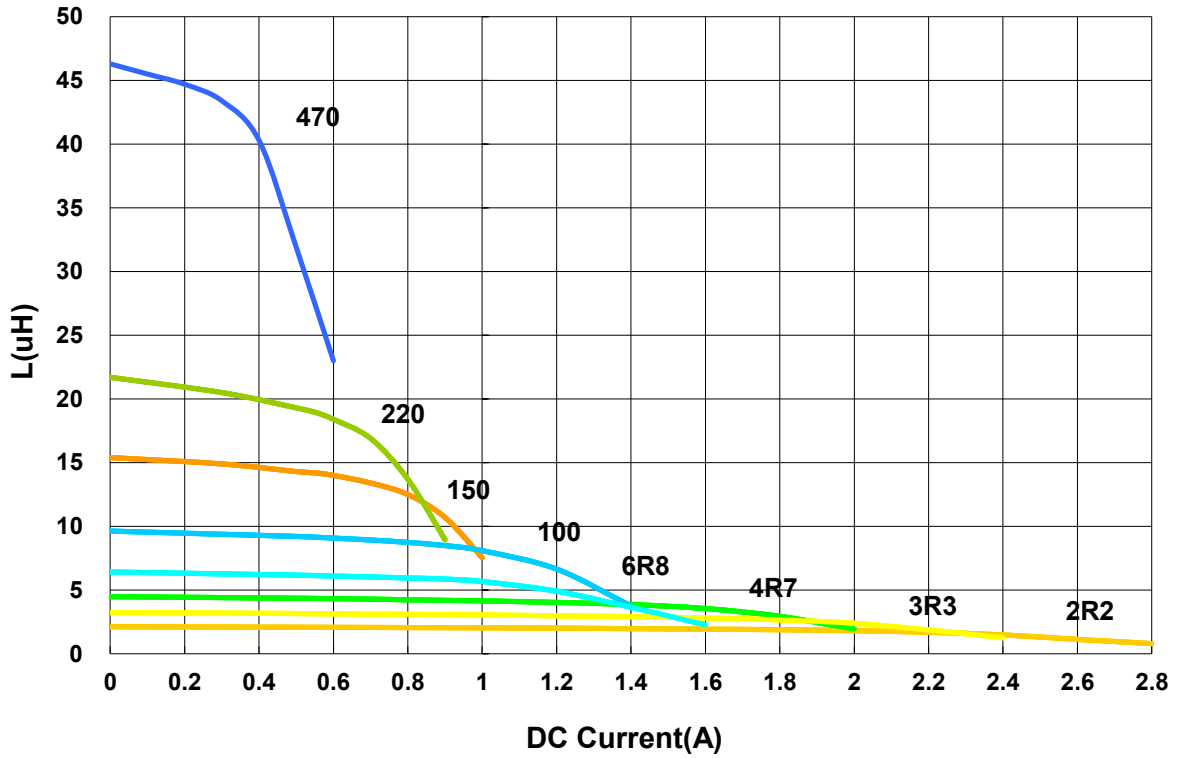
Power Inductor AWVF Series

**Automotive
AEC-Q200**

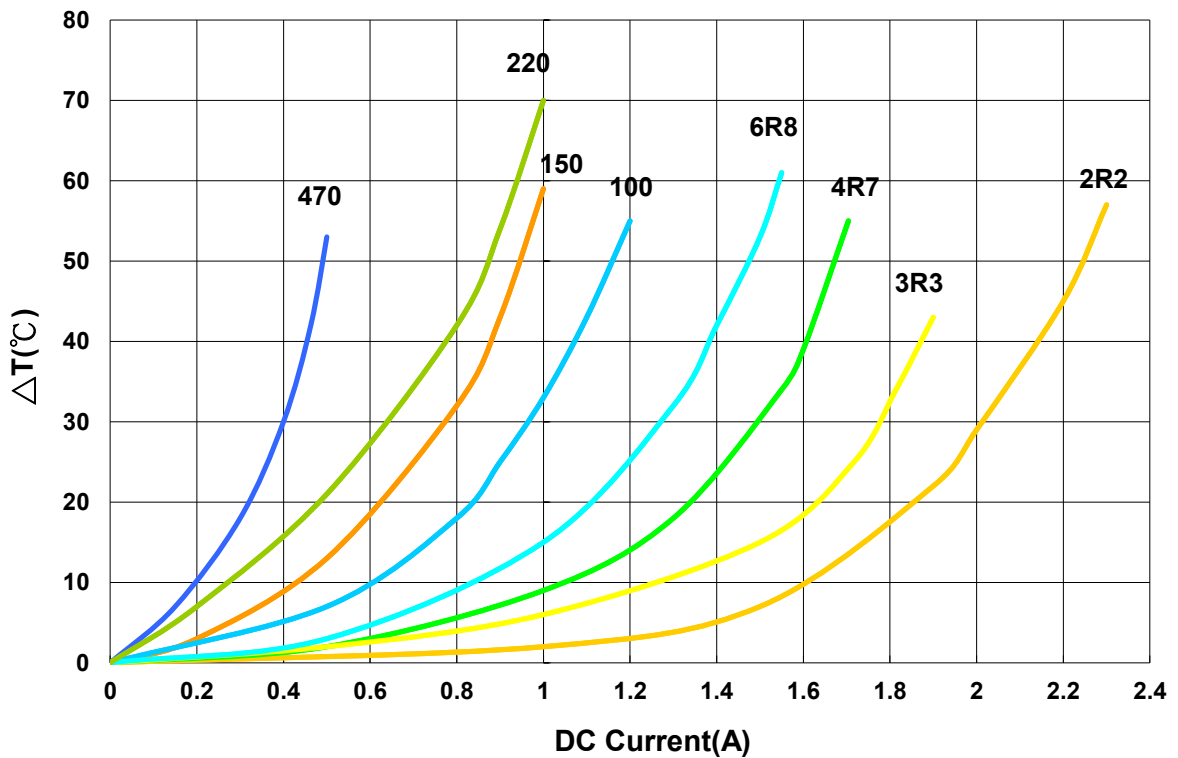
AWVF00303012 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

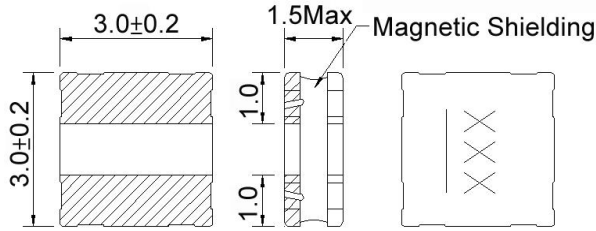


Power Inductor AWVF Series

**Automotive
AEC-Q200**

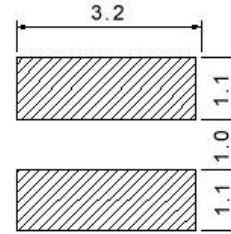
AWVF00303015 Type

■ 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
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:

L: Agilent HP4287A+Agilent HP16197A

RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent

Isat: Agilent HP4284A

I rms: Agilent HP4284A

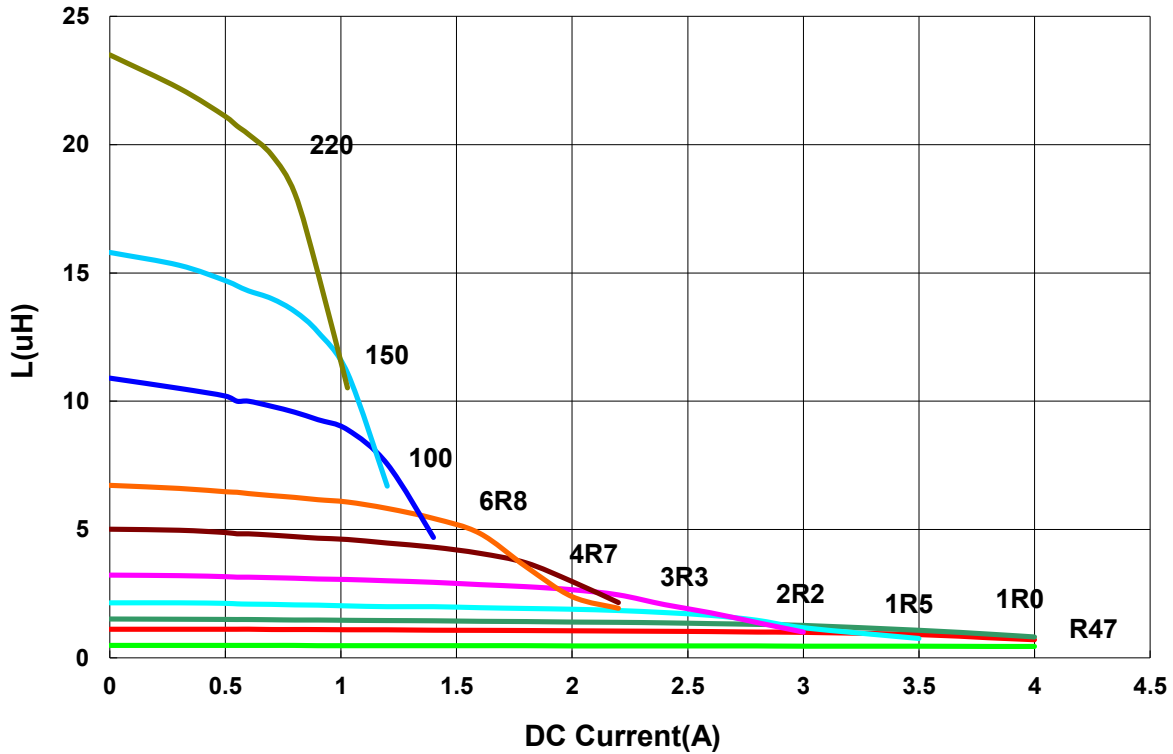
Power Inductor AWVF Series

**Automotive
AEC-Q200**

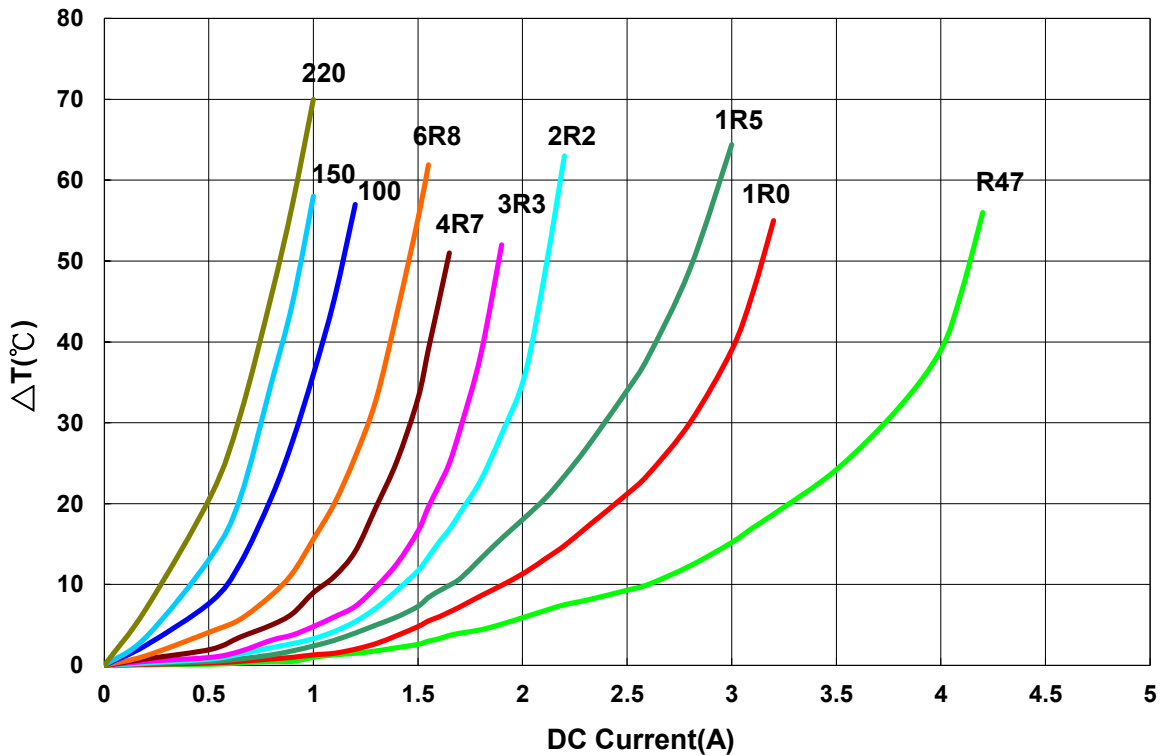
AWVF00303015 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current



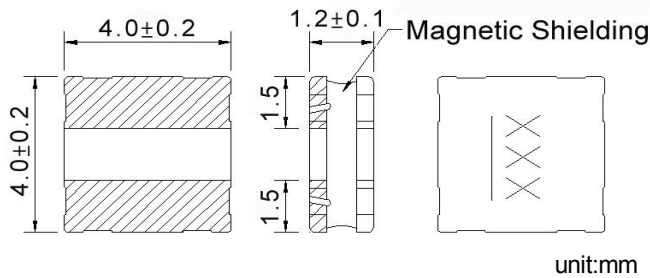
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

Power Inductor AWVF Series

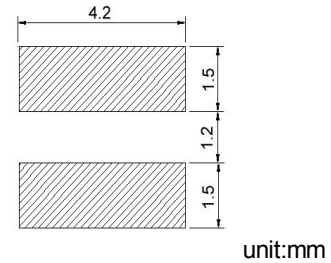
**Automotive
AEC-Q200**

AWVF00404012 Type

■ Dimensions



■ Recommended Land Pattern



■ 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%

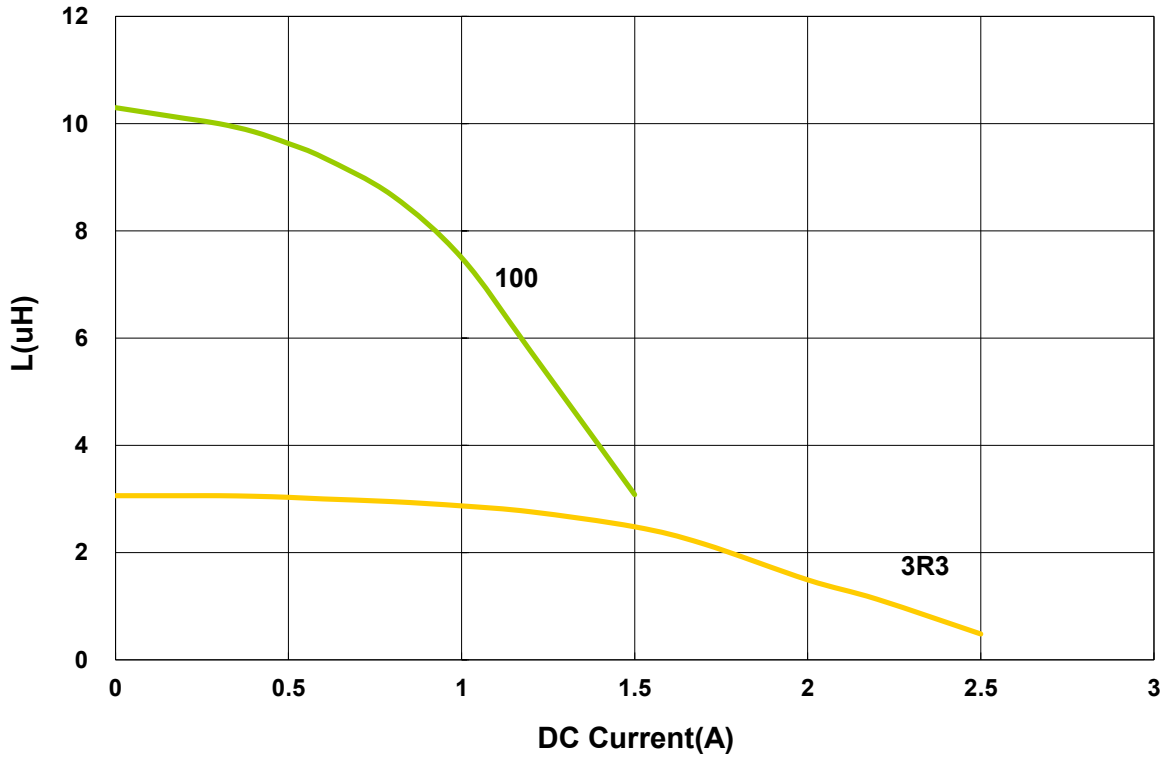
1. Operating temperature range - 40°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current
3. I_{rms} for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:

L: Agilent HP4284A+Agilent HP42841A
RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
Isat: Agilent HP4284A
I_{rms}: Agilent HP4284A

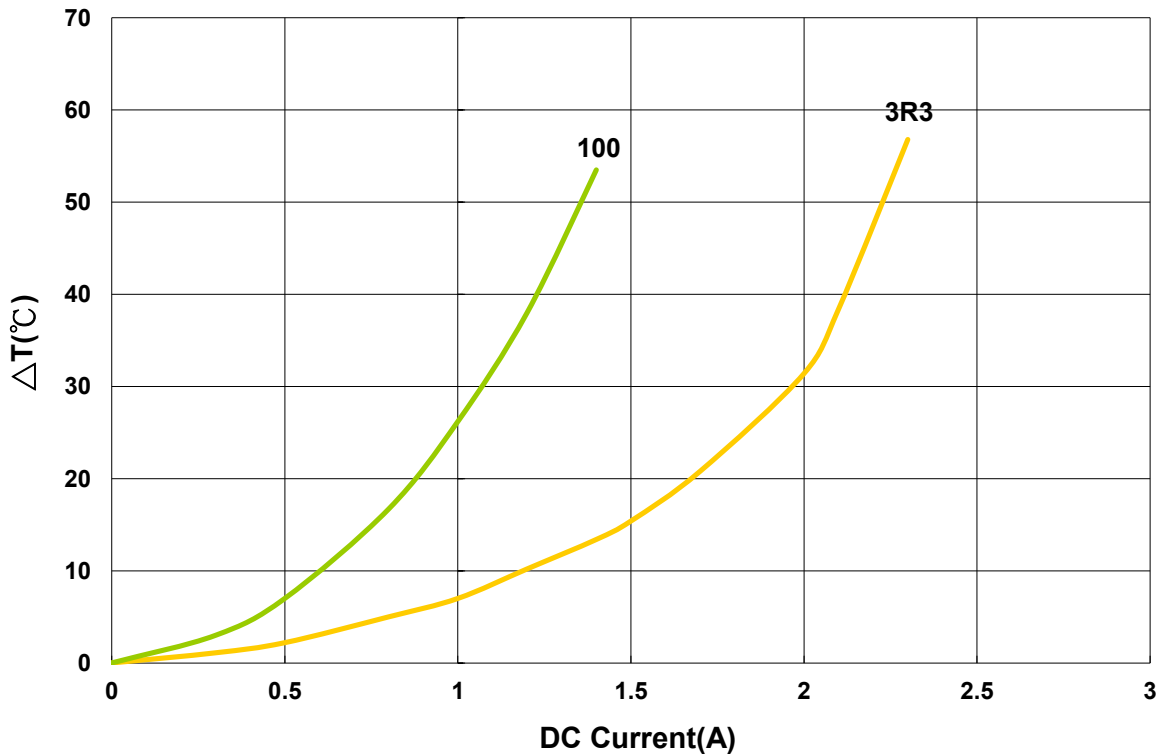
AWVF00404012 Type

■ Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

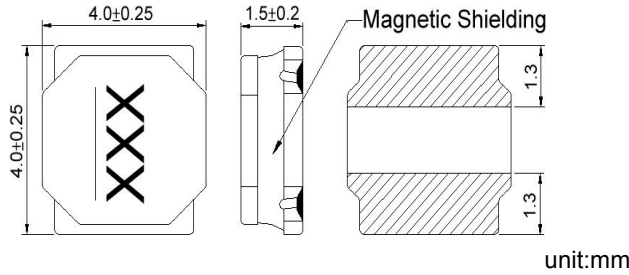


Power Inductor AWVF Series

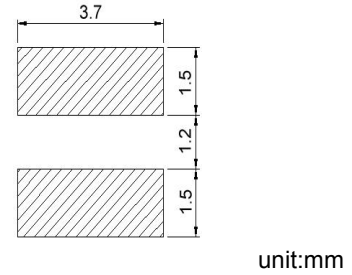
**Automotive
AEC-Q200**

AWVF00404015 Type

■ Dimensions



■ Recommended Land Pattern



■ 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
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:
 L: Agilent HP4284A+Agilent HP42841A
 RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 Isat: Agilent HP4284A
 I rms: Agilent HP4284A

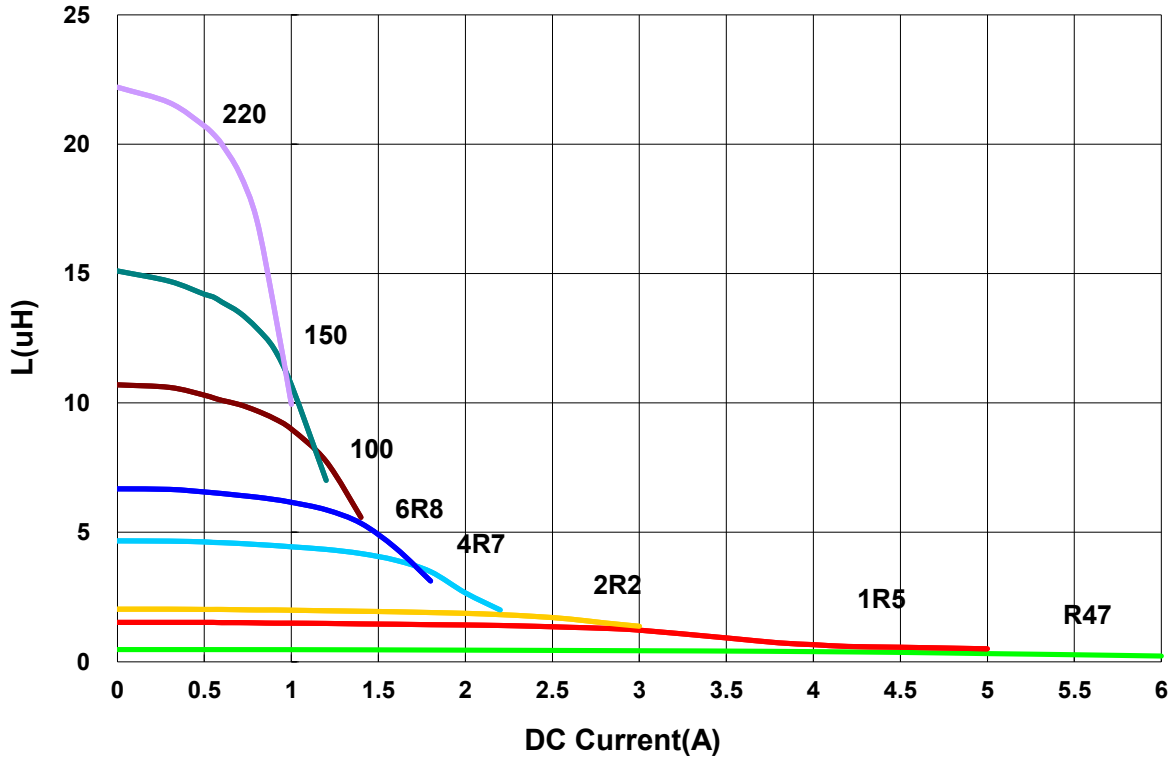
Power Inductor AWVF Series

**Automotive
AEC-Q200**

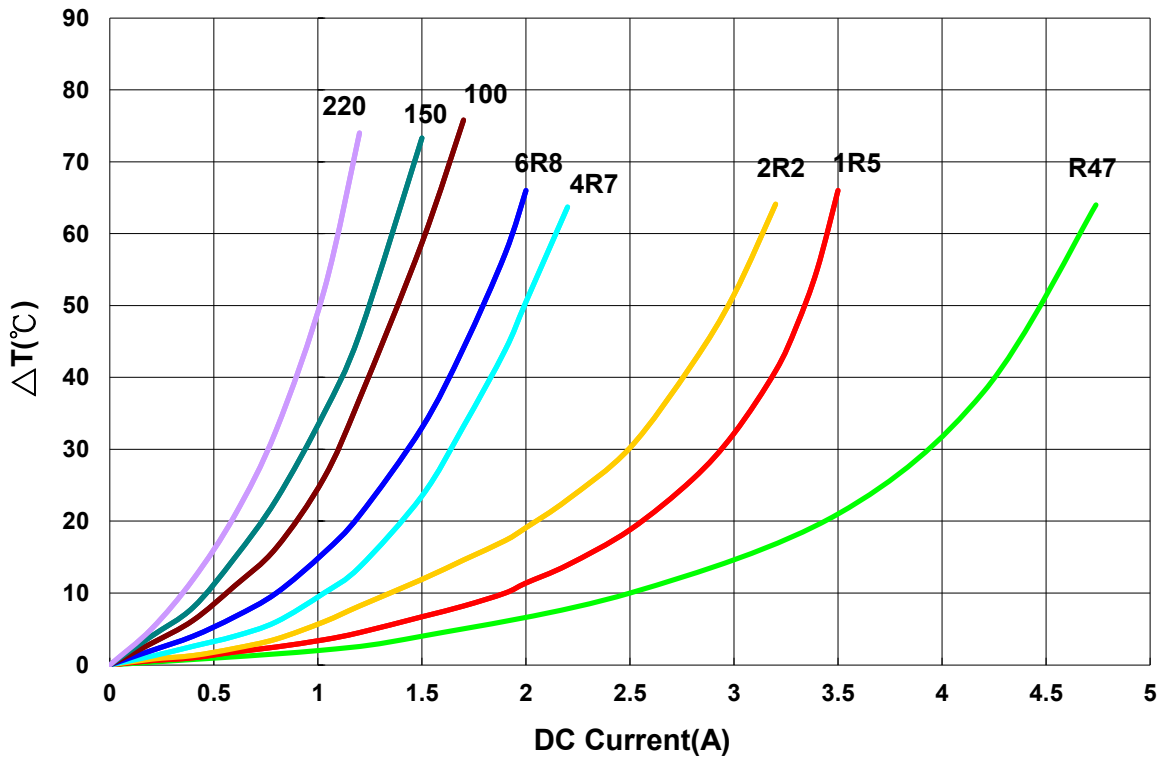
AWVF00404015 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

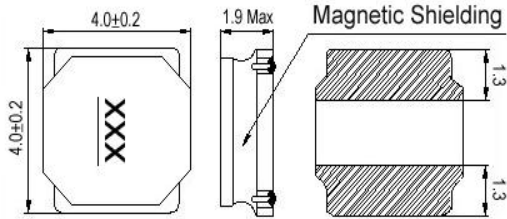


Power Inductor AWVF Series

**Automotive
AEC-Q200**

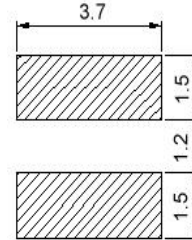
AWVF00404018 Type

■ 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
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40°C temperature rise from 25°C 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

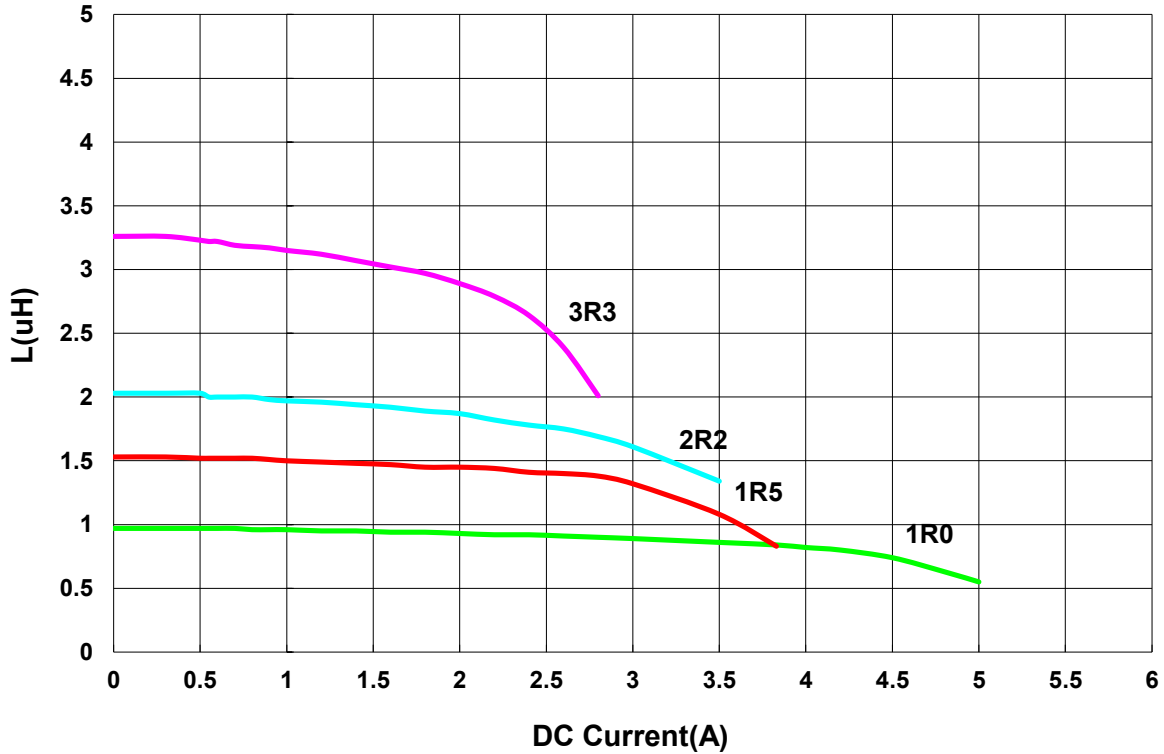
Power Inductor AWVF Series

Automotive
AEC-Q200

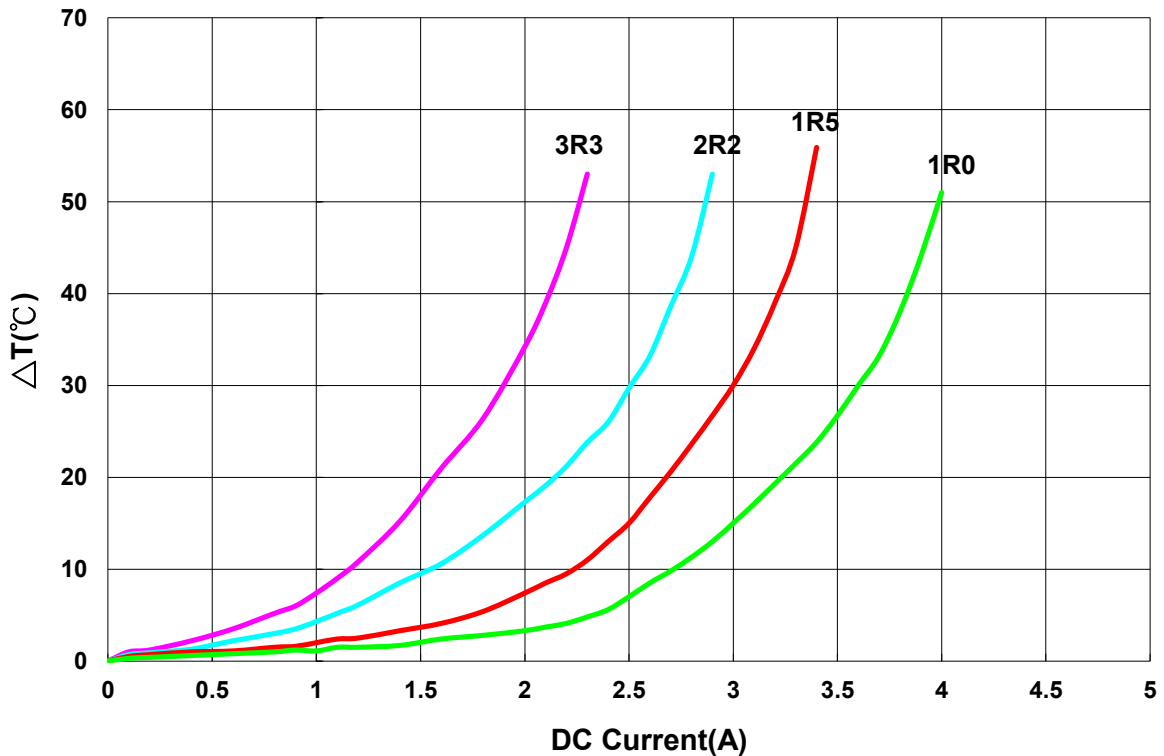
AWVF00404018 Type

■ Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

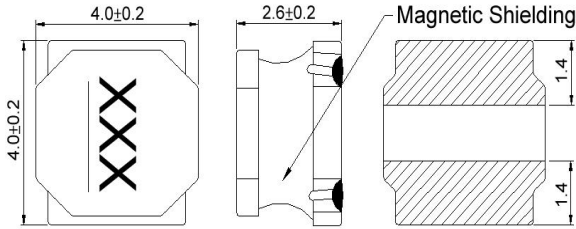


Power Inductor AWVF Series

**Automotive
AEC-Q200**

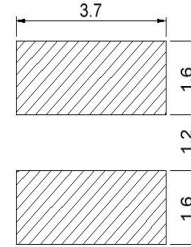
AWVF00404026 Type

■ 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
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:

- L: Agilent HP4284A+Agilent HP42841A
- RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
- Isat: Agilent HP4284A
- I rms: Agilent HP4284A

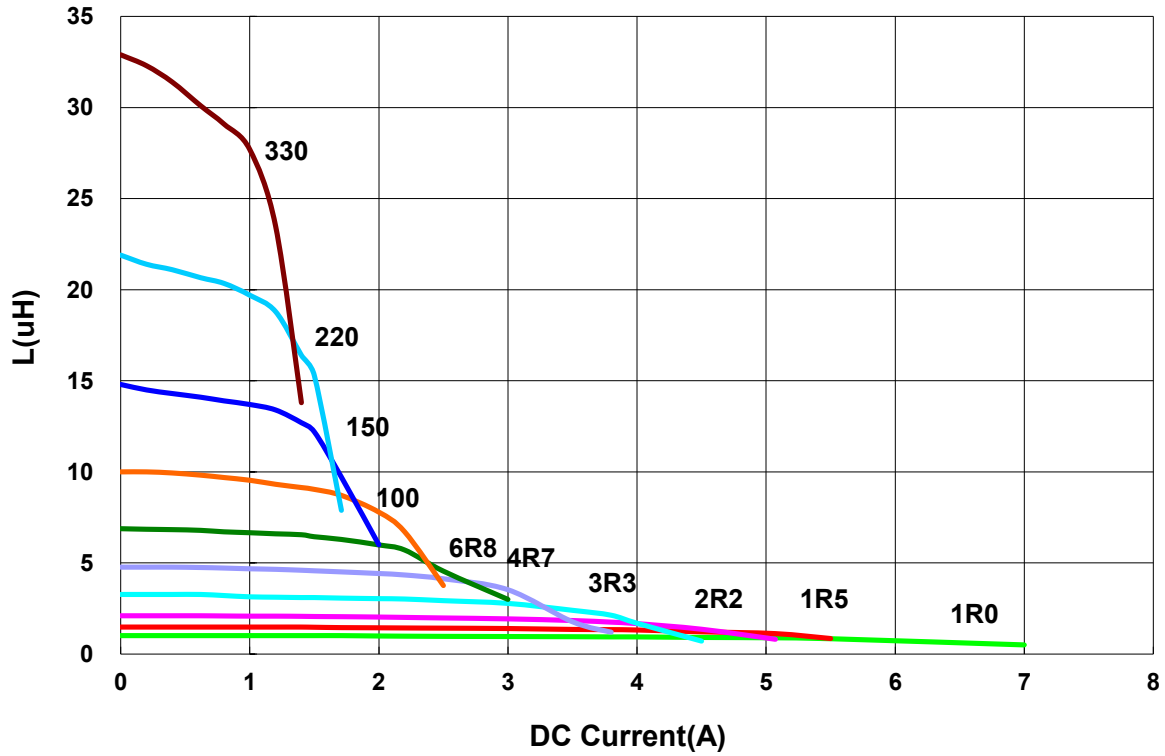
Power Inductor AWFV Series

**Automotive
AEC-Q200**

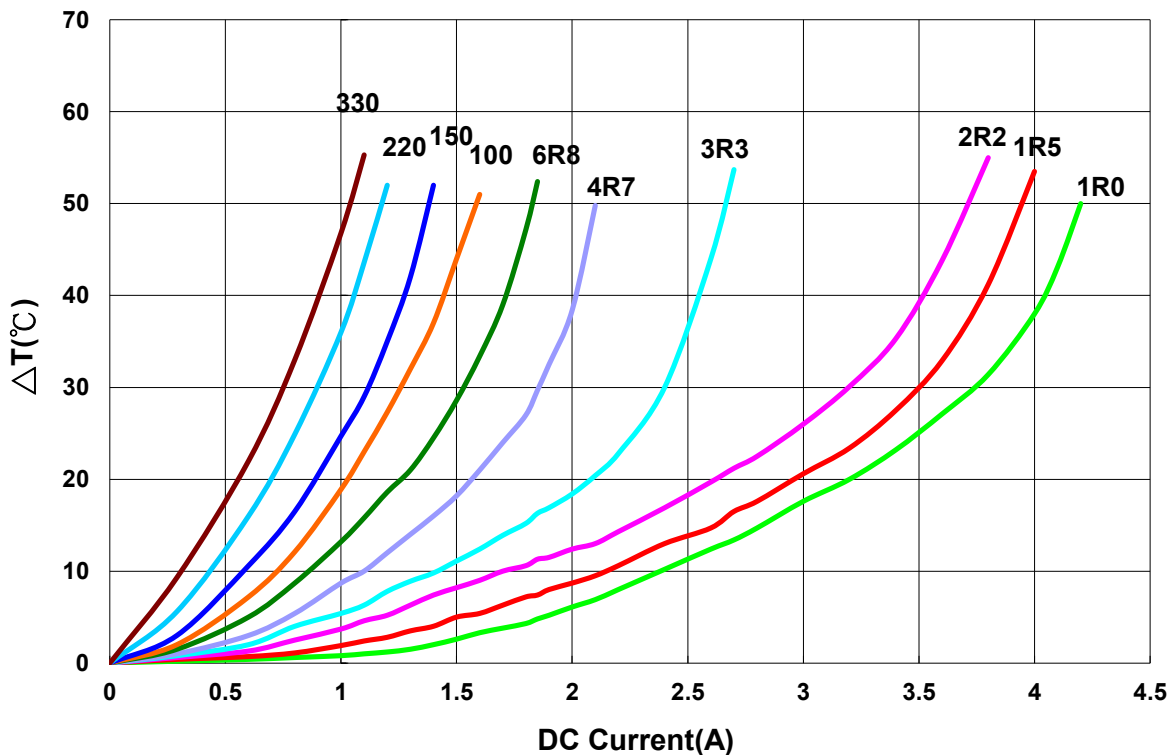
AWVF00404026 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

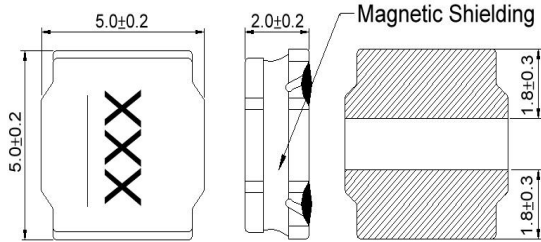


Power Inductor AWVF Series

**Automotive
AEC-Q200**

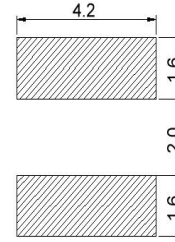
AWVF00505020 Type

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
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:

L: Agilent HP4284A+Agilent HP42841A
 RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 Isat: Agilent HP4284A
 I rms: Agilent HP4284A

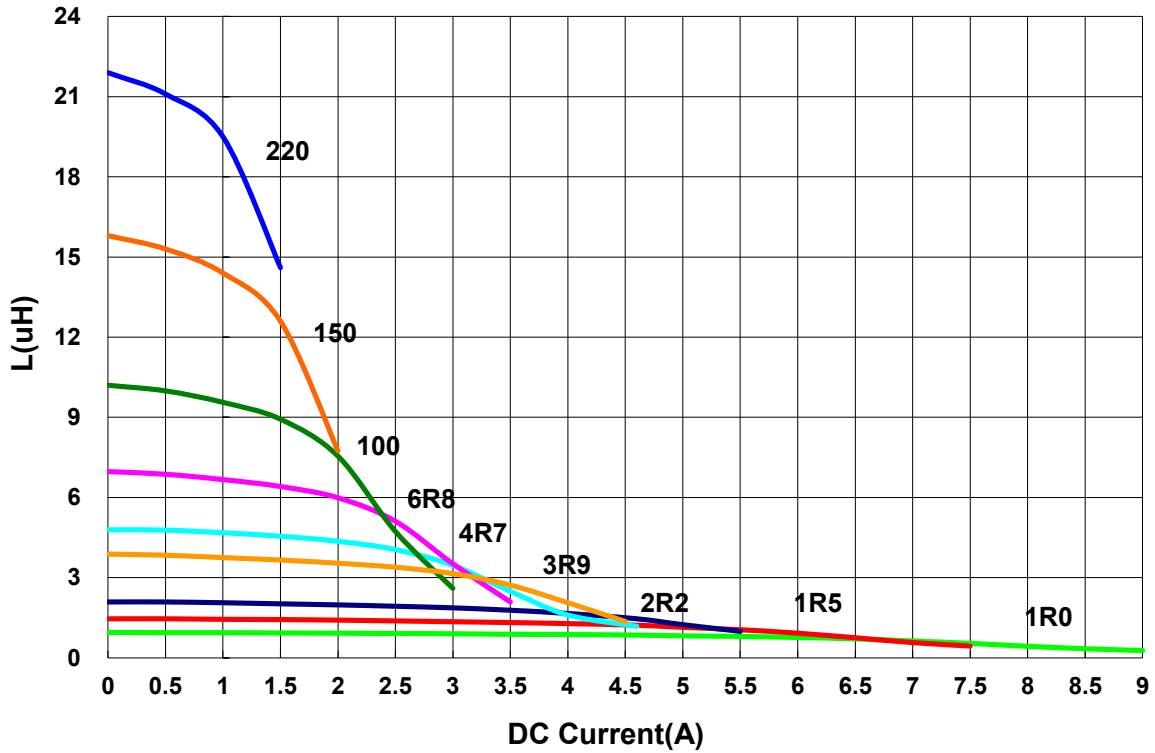
Power Inductor AWVF Series

**Automotive
AEC-Q200**

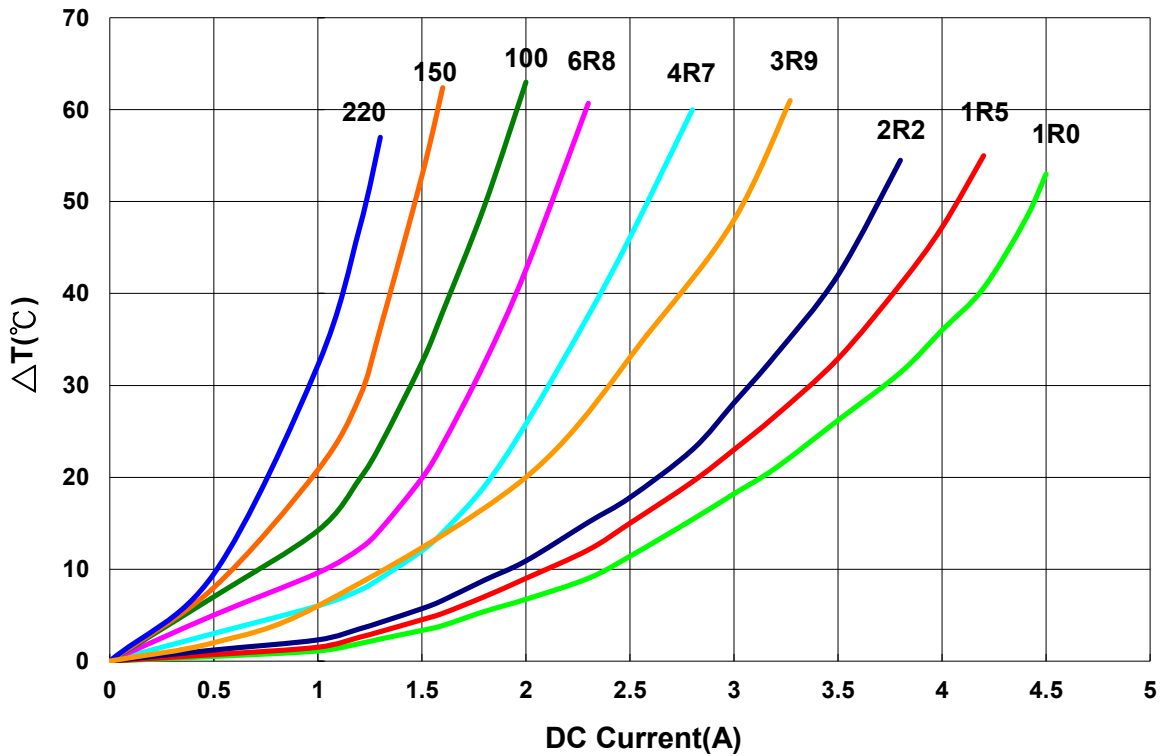
AWVF00505020 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

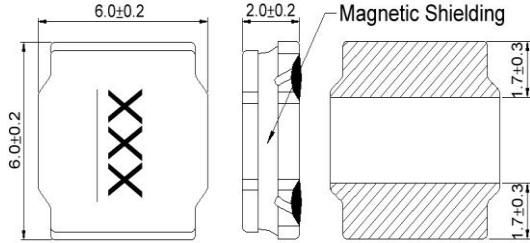


Power Inductor AWVF Series

**Automotive
AEC-Q200**

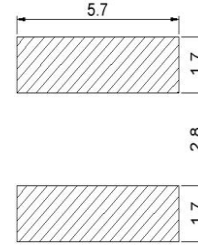
AWVF00606020 Type

■ 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

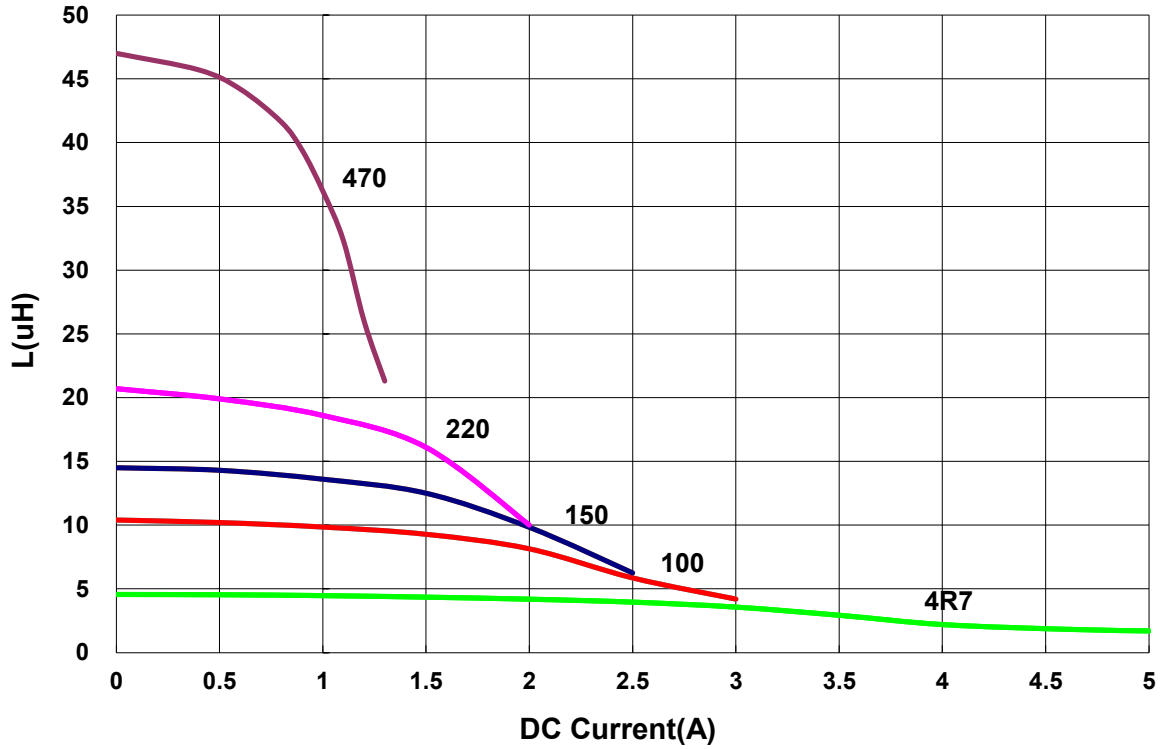
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

1. Operating temperature range - 40°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40°C temperature rise from 25°C 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

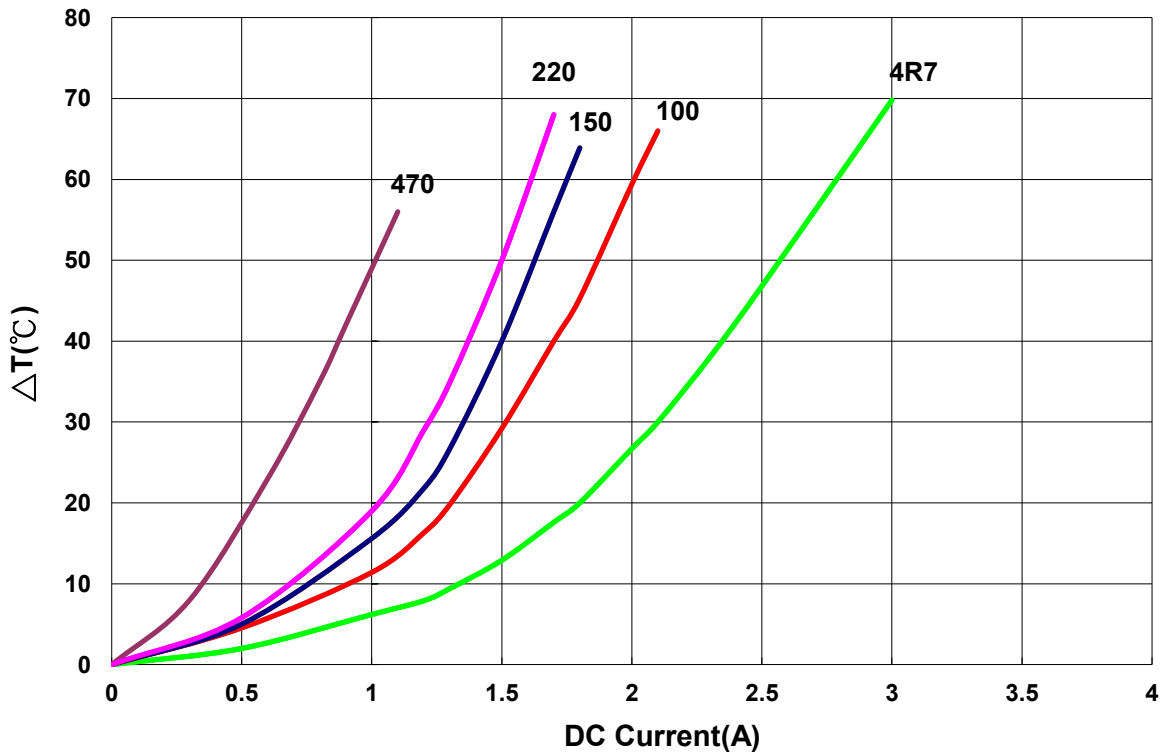
AWVF00606020 Type

■ Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

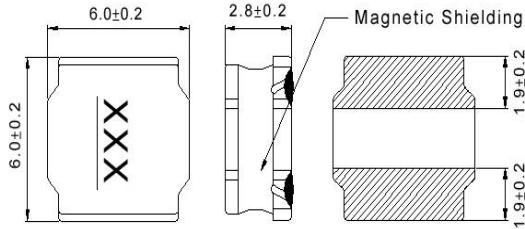


Power Inductor AWVF Series

**Automotive
AEC-Q200**

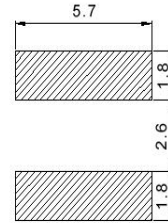
AWVF00606028 Type

■ 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
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:
 - L: Agilent HP4284A+Agilent HP42841A
 - RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 - Isat: Agilent HP4284A
 - I rms: Agilent HP4284A

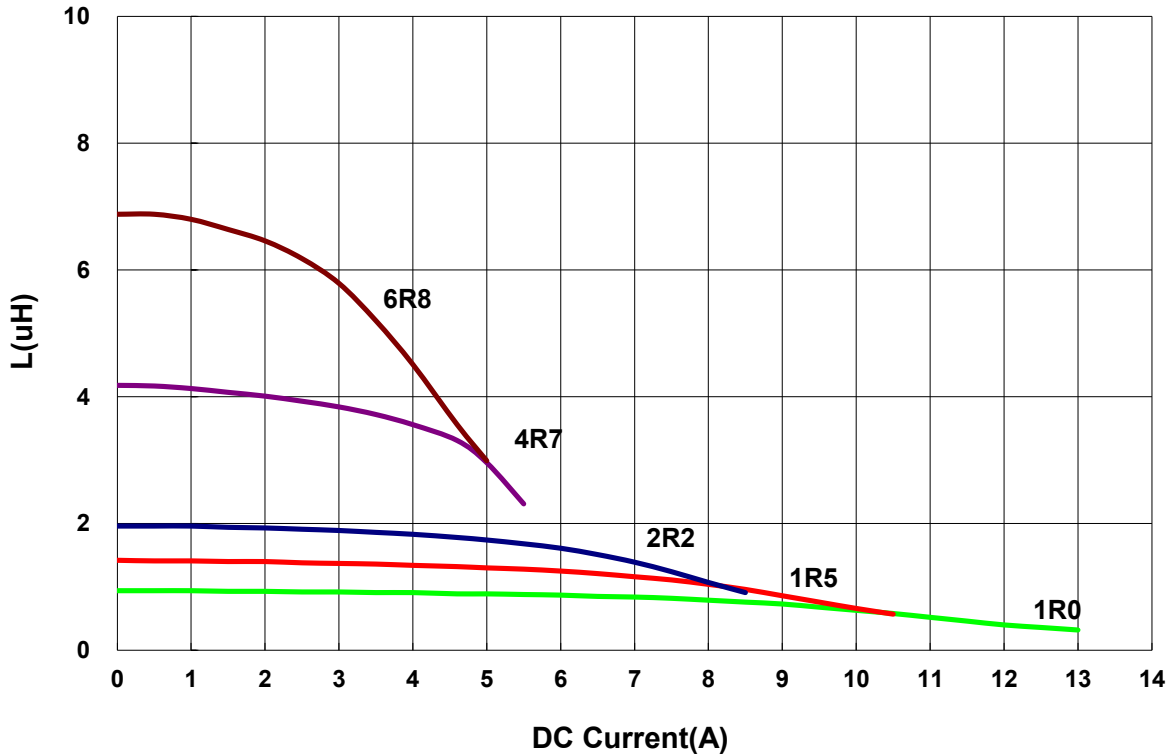
Power Inductor AWVF Series

**Automotive
AEC-Q200**

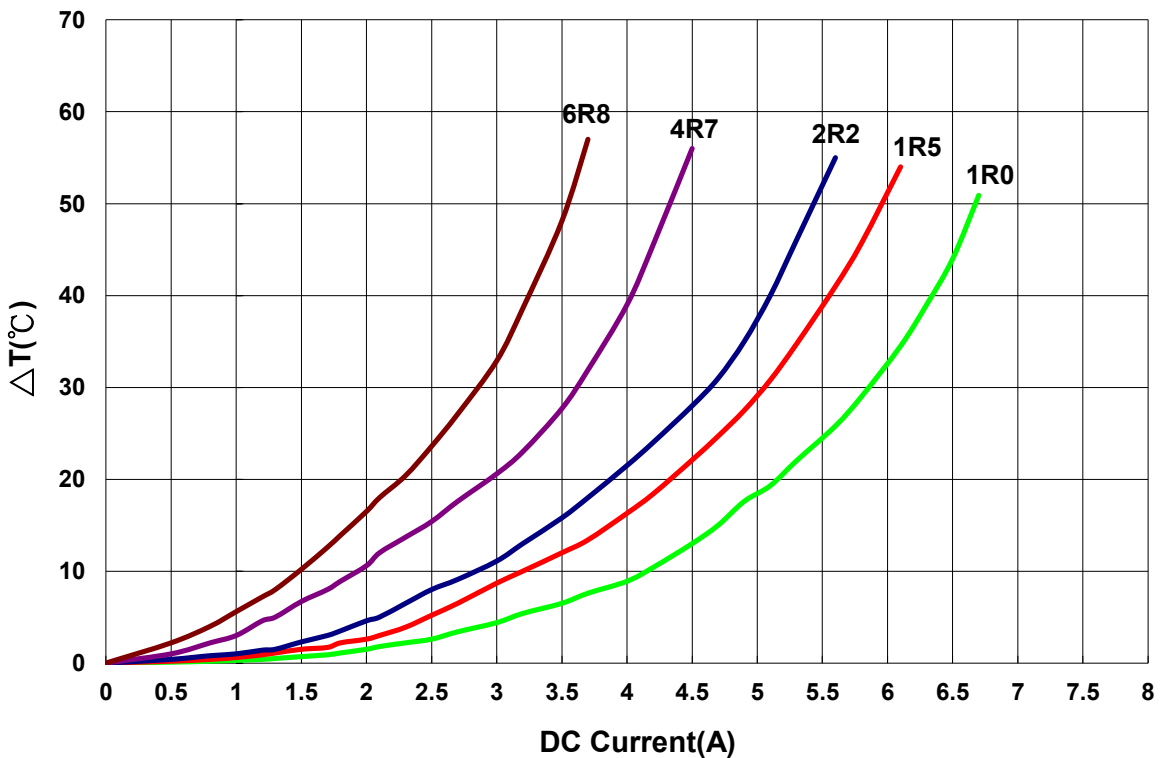
AWVF00606028 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

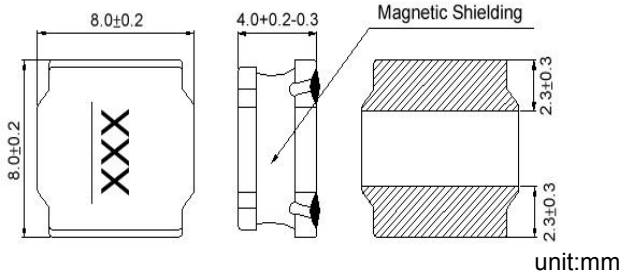


Power Inductor AWVF Series

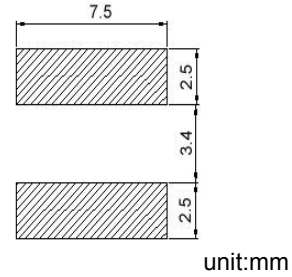
**Automotive
AEC-Q200**

AWVF00808040 Type

■ Dimensions



■ Recommended Land Pattern



■ 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
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:
 - L: Agilent HP4284A+Agilent HP42841A
 - RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 - Isat: Agilent HP4284A
 - I rms: Agilent HP4284A

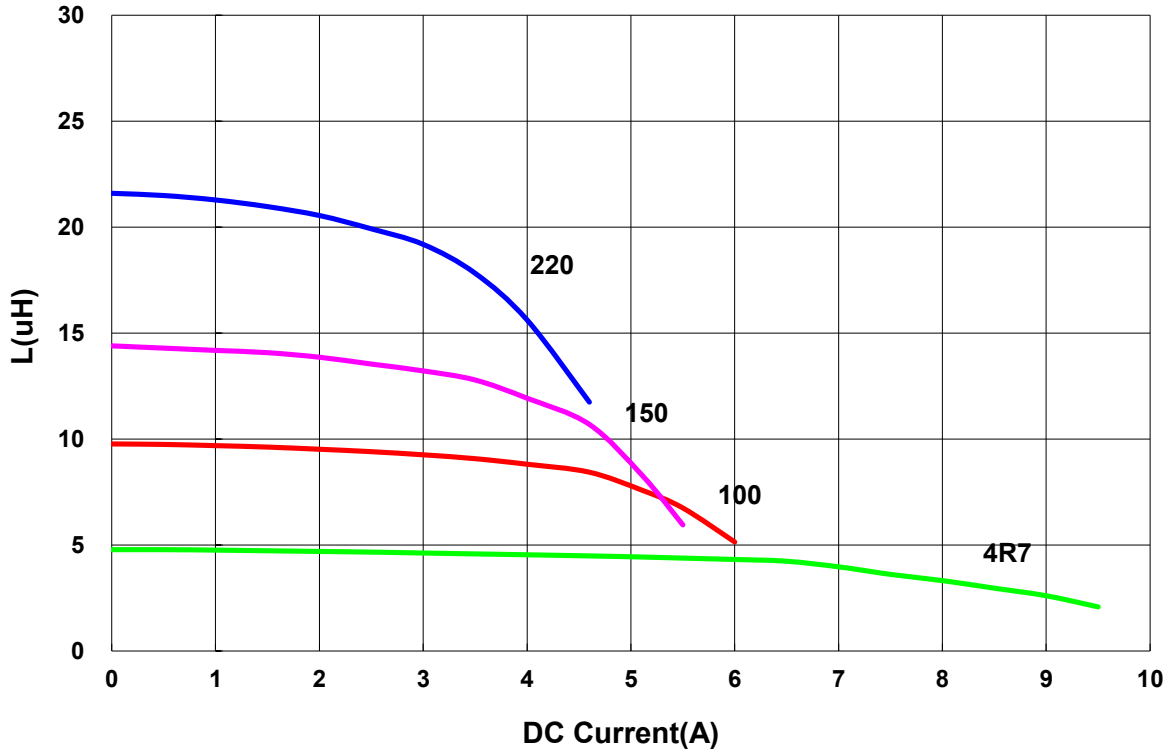
Power Inductor AWVF Series

**Automotive
AEC-Q200**

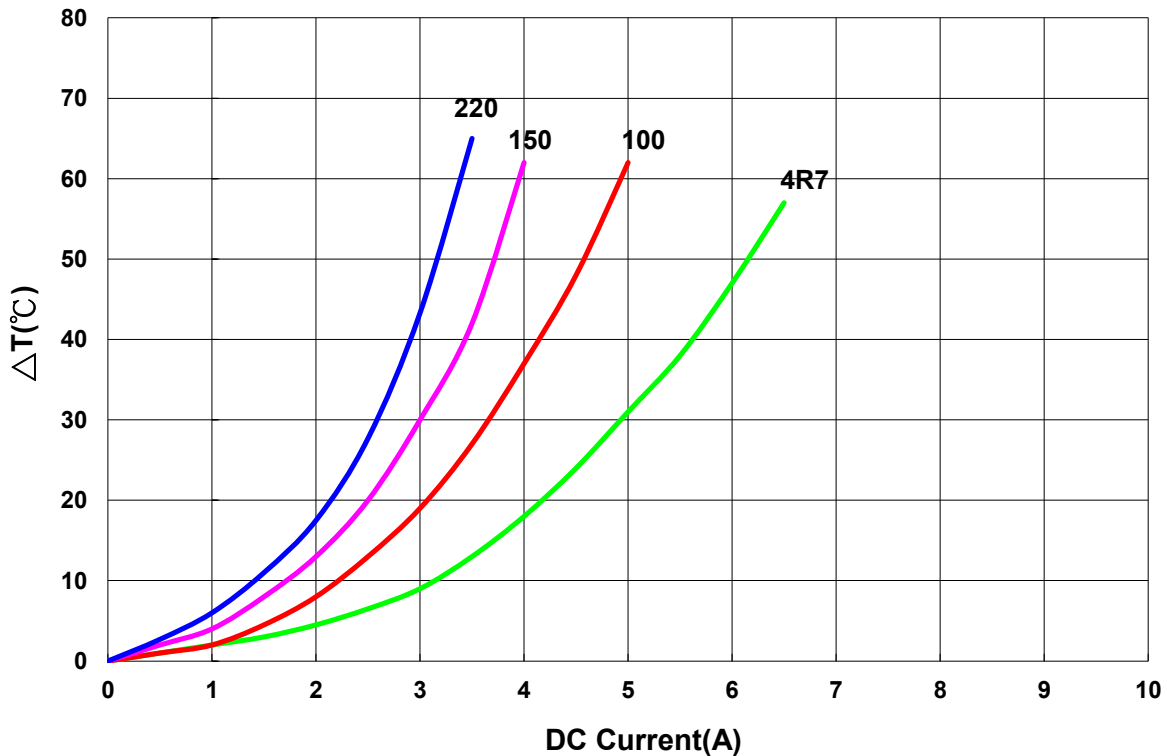
AWVF00808040 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current



Power Inductor AWVF Series

**Automotive
AEC-Q200**

■ Packaging

Tape Dimensions

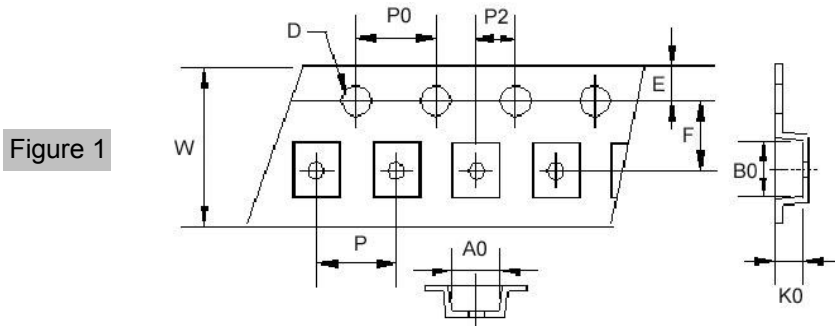


Figure 1

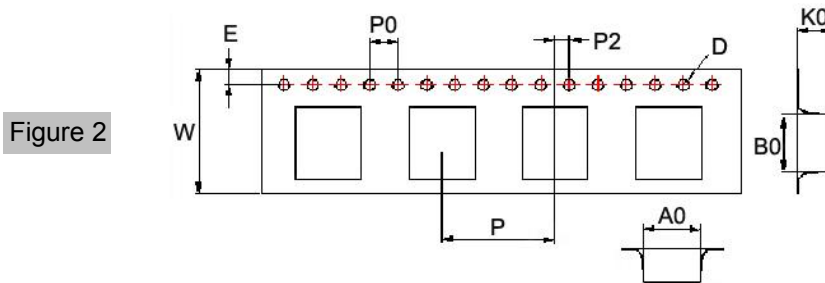


Figure 2

Reel Dimensions

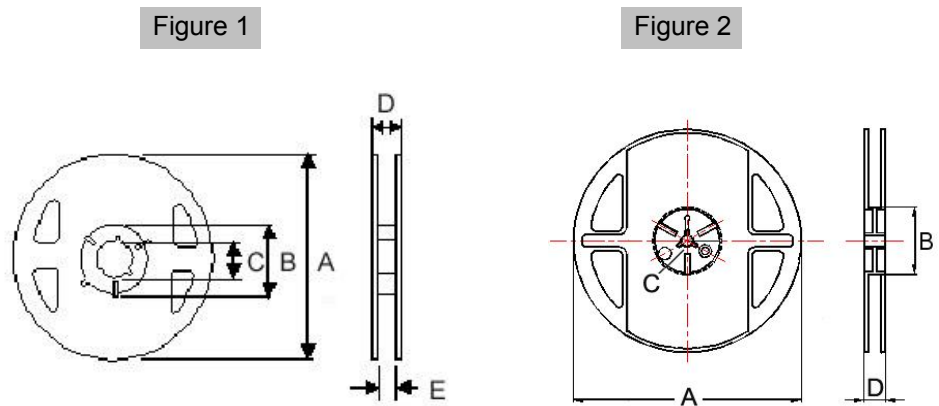


Figure 1

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	7.5	16	12	4	2	330	100	13	16	-	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

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 AWVT Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



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

Part Numbering

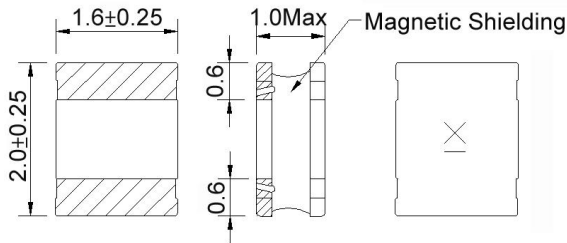
A	WVT	00	252012	1R0	M	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			201610 2.0x1.6x1.0	R47 0.47	M ±20%	
			252010 2.5x2.0x1.02	1R0 1.0	T ±30%	
			252012 2.5x2.0x1.2	101 100		
			303010 3.0x3.0x1.02			
			303012 3.0x3.0x1.2			
			404012 4.0x4.0x1.2			
			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			

Power Inductor AWT Series

**Automotive
AEC-Q200**

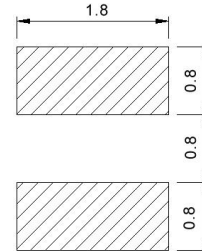
AWVT00201610 Type

■ 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

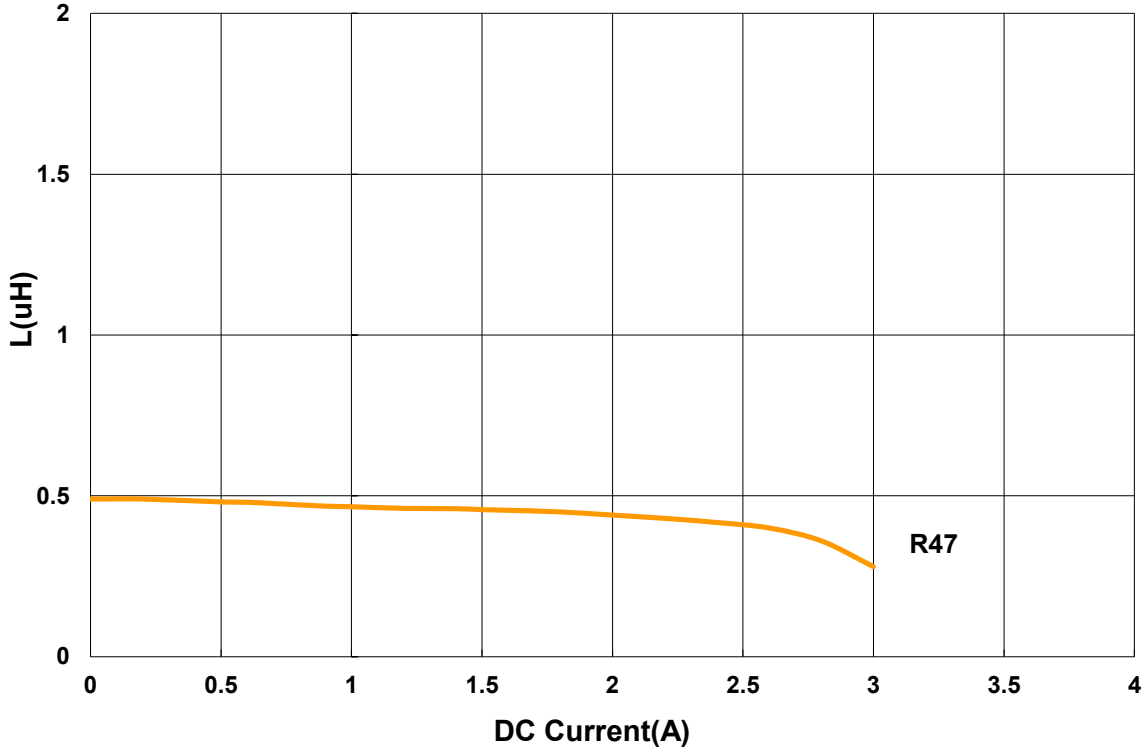
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

- Operating temperature range - 40°C ~ 125°C
- Isat for Inductance drop 30% from its value without current.
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment:
 - L: Agilent HP4287A+Agilent HP16197A
 - RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 - Isat: Agilent HP4284A
 - Irms: Agilent HP4284A

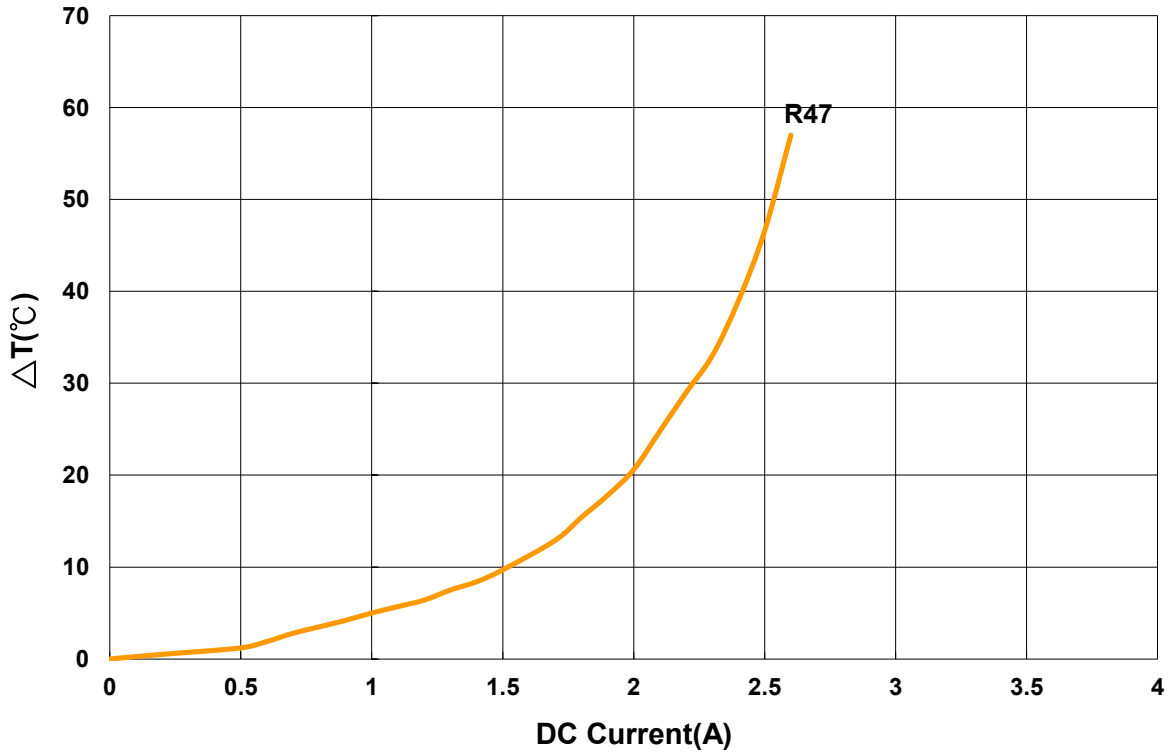
AWVT00201610 Type

■ Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

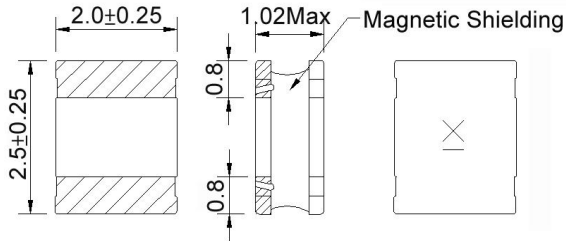


Power Inductor AWVT Series

**Automotive
AEC-Q200**

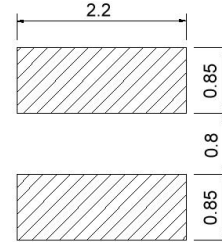
AWVT00252010 Type

■ 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

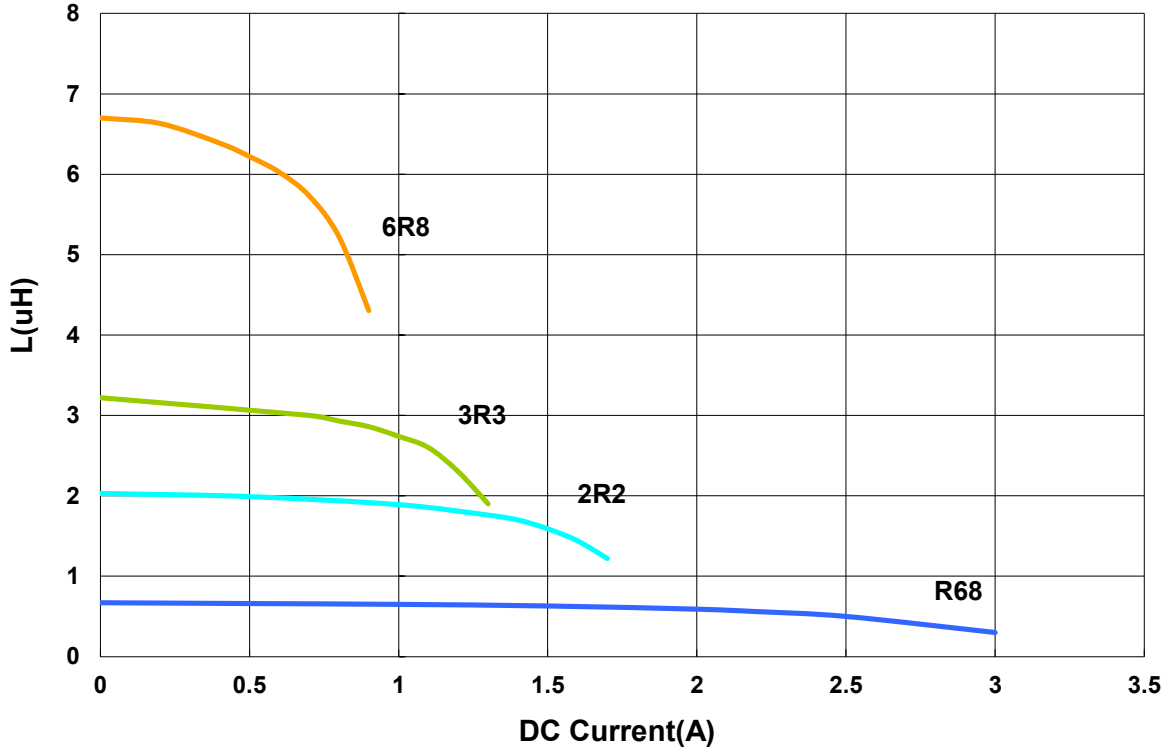
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

1. Operating temperature range - 40°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current.
3. I_{rms} for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:
 - L: Agilent HP4287A+Agilent HP16197A
 - RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 - Isat: Agilent HP4284A
 - I_{rms}: Agilent HP4284A

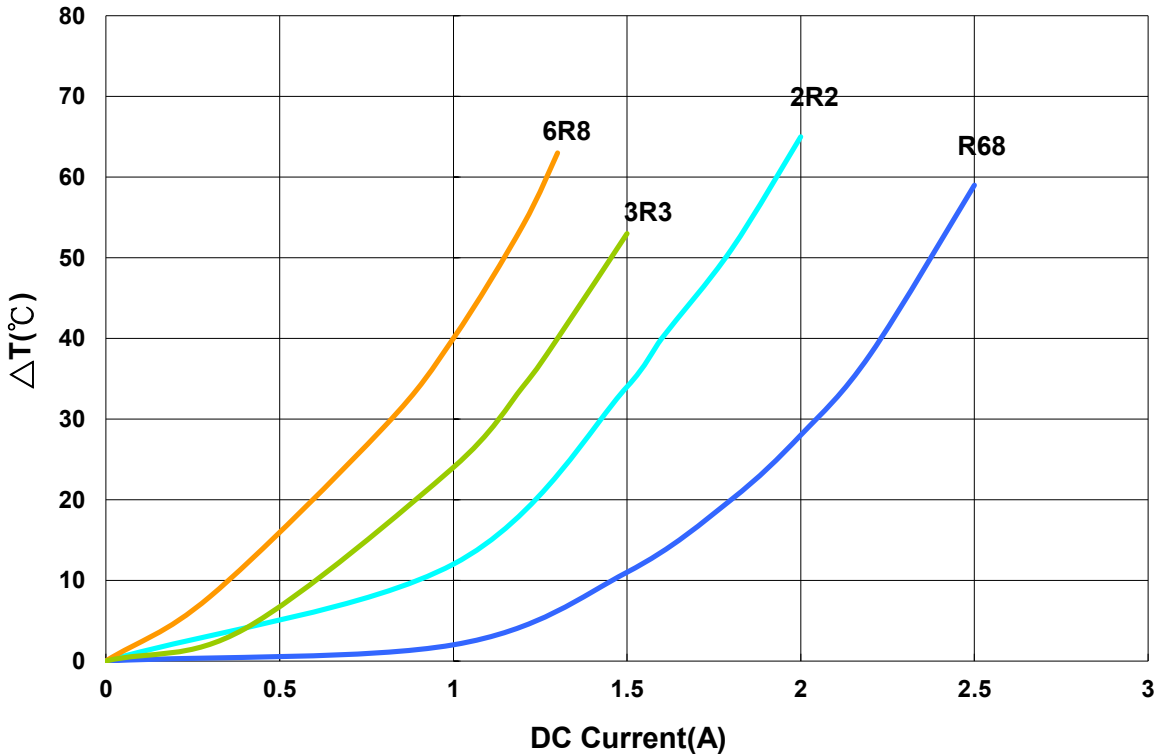
AWVT00252010 Type

■ Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

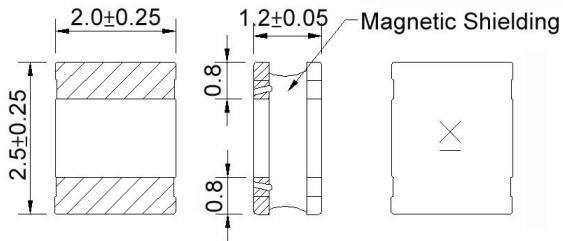


Power Inductor AWT Series

**Automotive
AEC-Q200**

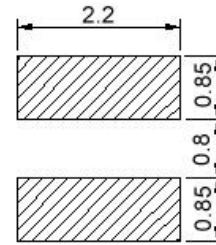
AWVT00252012 Type

■ 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
AWVT00252012R47□00	0.47	1MHz,200mV	0.027	3.70(3.30)	3.10(2.70)	20,30	A

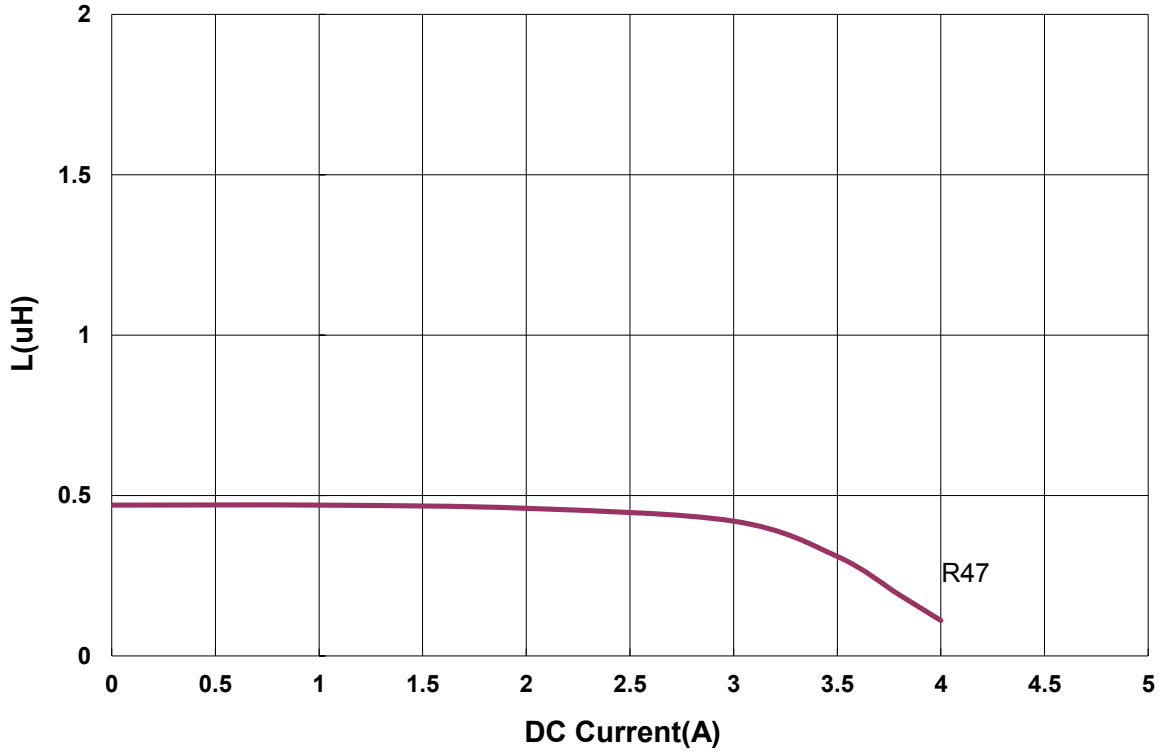
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

1. Operating temperature range - 40°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current.
3. Irms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:
 L: Agilent HP4287A+Agilent HP16197A
 RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 Isat: Agilent HP4284A
 Irms: Agilent HP4284A

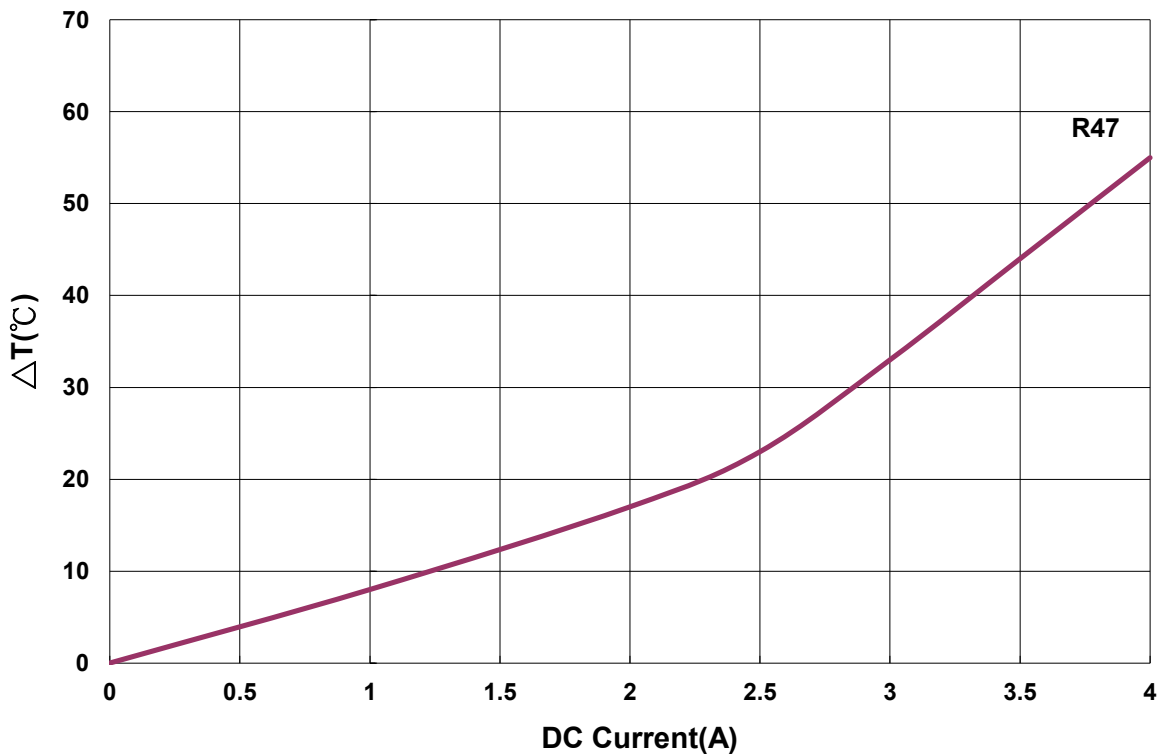
AWVT00252012 Type

■ Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

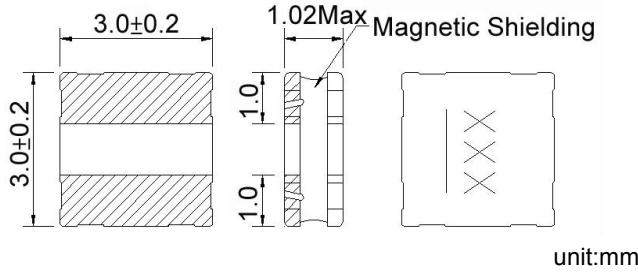


Power Inductor AWT Series

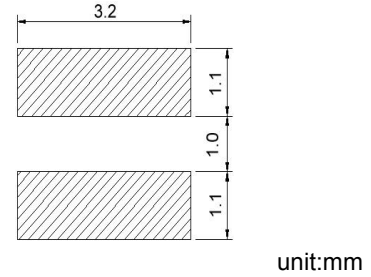
**Automotive
AEC-Q200**

AWVT00303010 Type

■ Dimensions



■ Recommended Land Pattern



■ 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

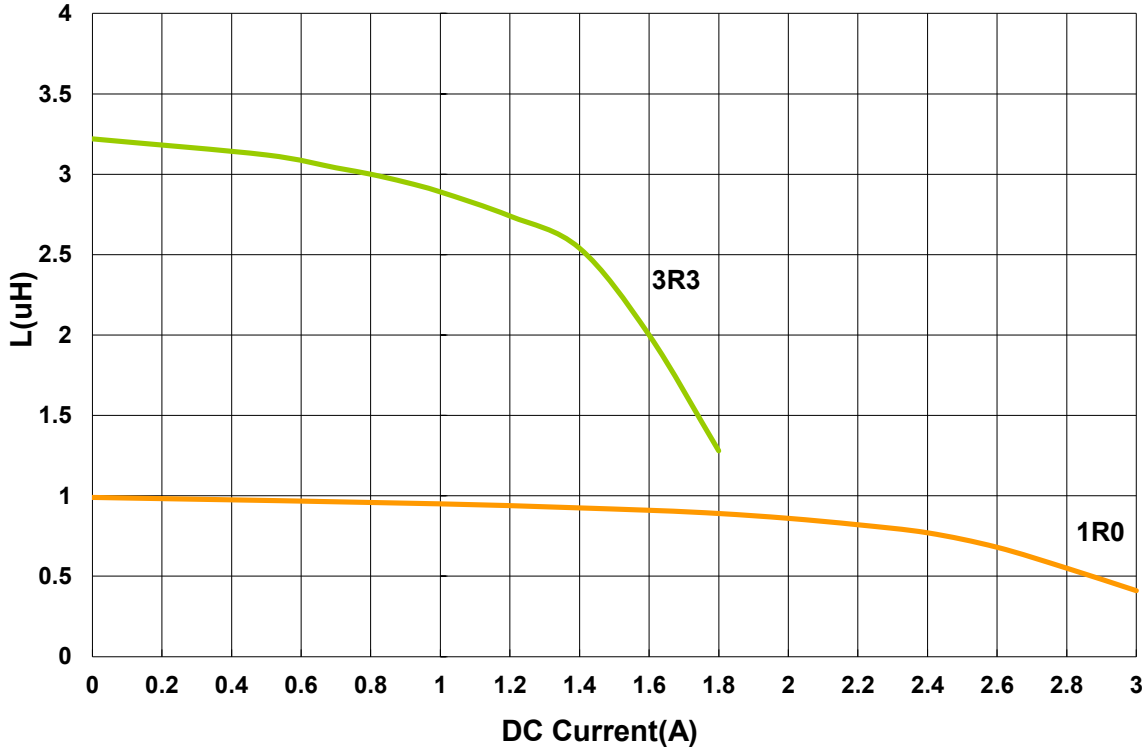
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

1. Operating temperature range - 40°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current.
3. I rms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:
 - L: Agilent HP4287A+Agilent HP16197A
 - RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 - Isat: Agilent HP4284A
 - I rms: Agilent HP4284A

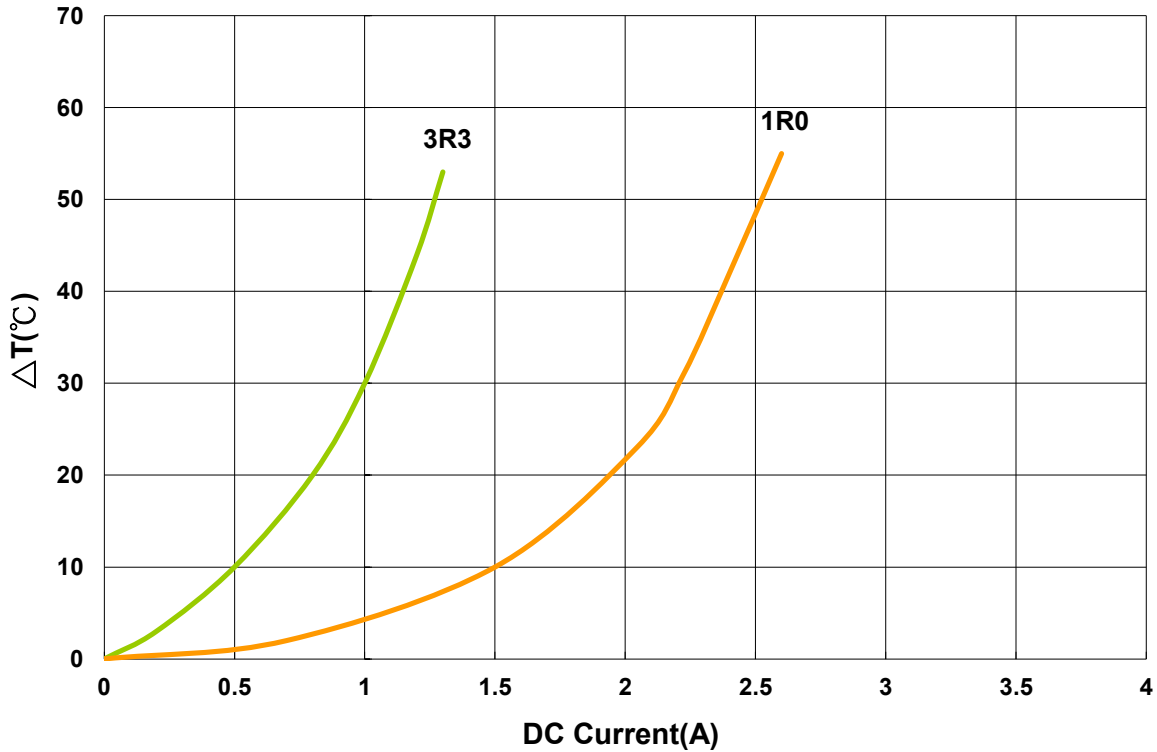
AWVT00303010 Type

■ Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

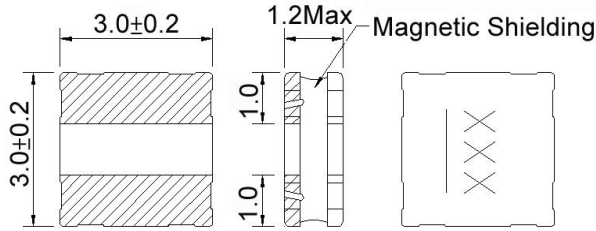


Power Inductor AWT Series

**Automotive
AEC-Q200**

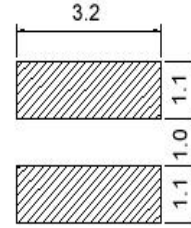
AWVT00303012 Type

■ 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
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

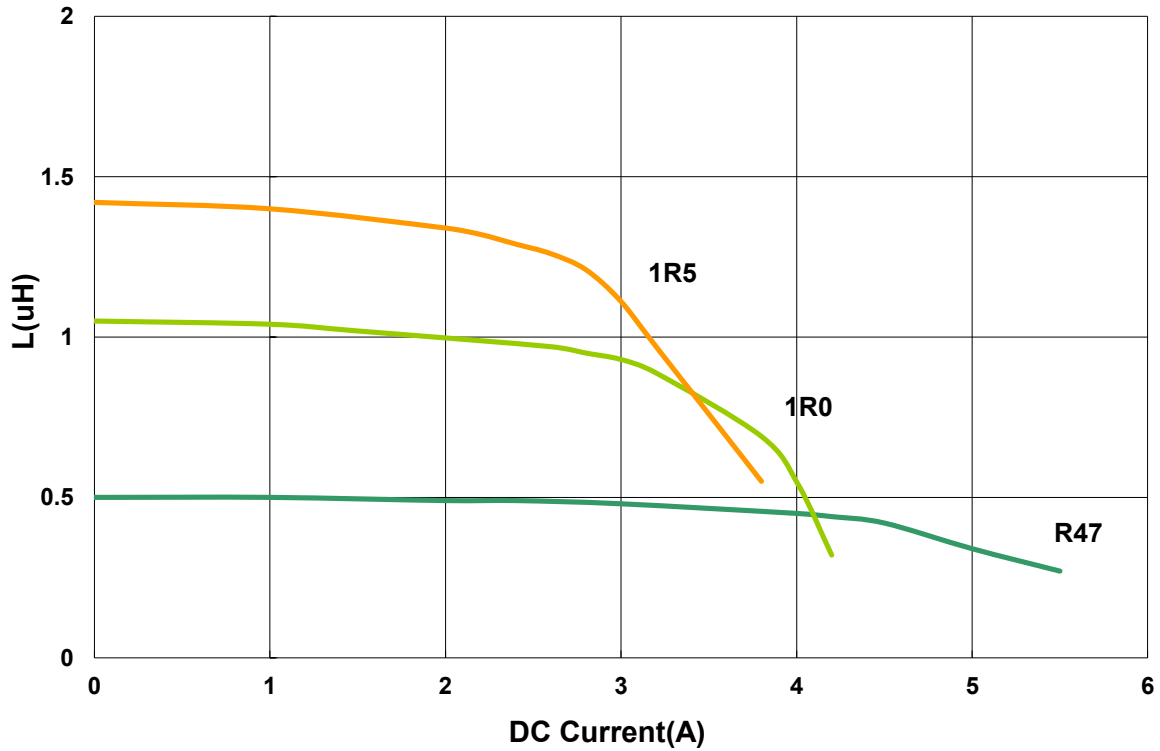
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

1. Operating temperature range - 40°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current.
3. I rms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:
 L: Agilent HP4287A+Agilent HP16197A
 RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 Isat: Agilent HP4284A
 I rms: Agilent HP4284A

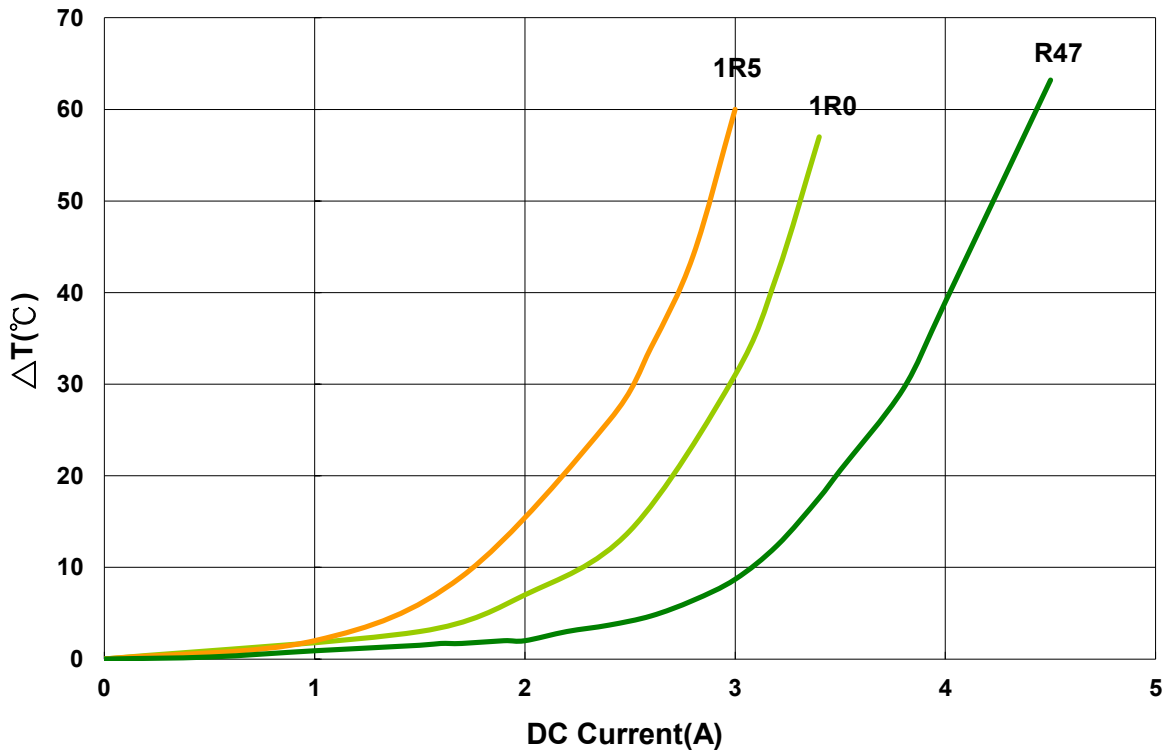
AWVT00303012 Type

■ Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

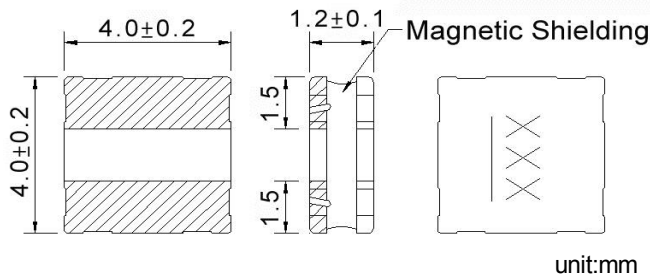


Power Inductor AWVT Series

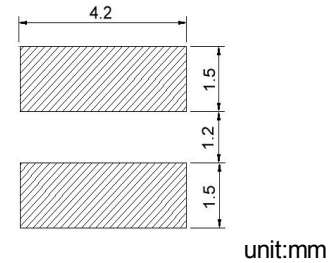
**Automotive
AEC-Q200**

AWVT00404012 Type

Dimensions



Recommended Land Pattern



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%

- Operating temperature range - 40°C ~ 125°C
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment:
 - L: Agilent HP4284A+Agilent HP42841A
 - RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 - Isat: Agilent HP4284A
 - Irms: Agilent HP4284A

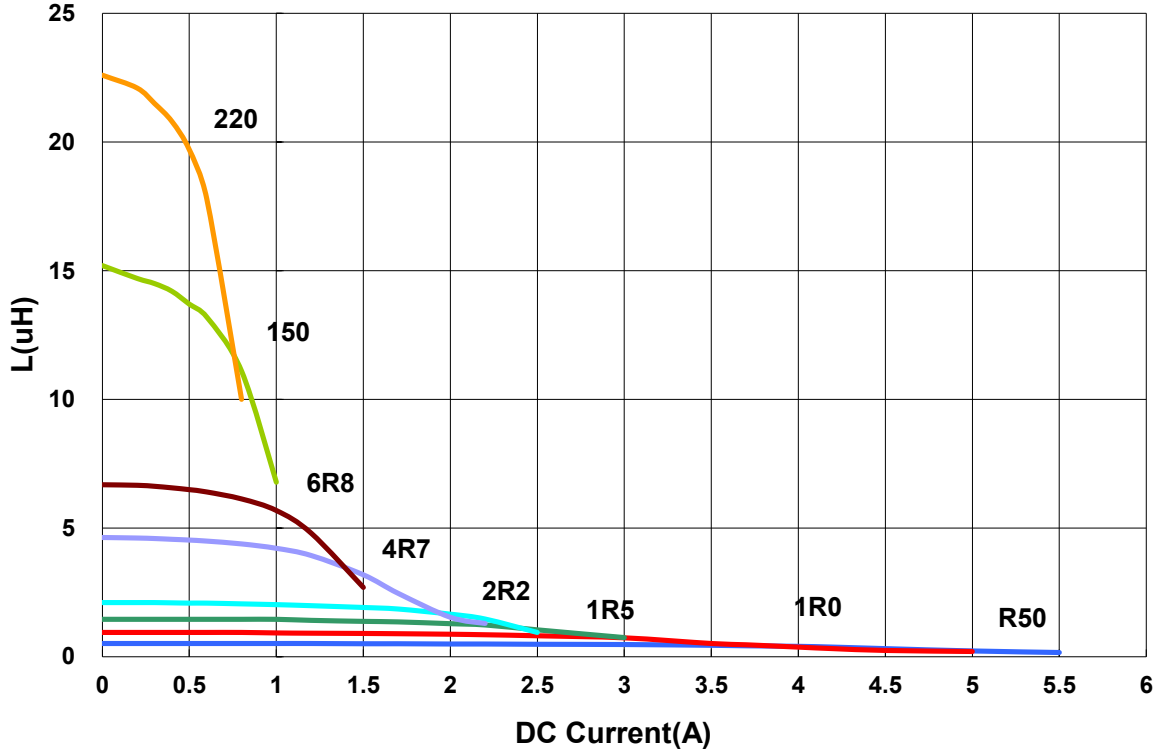
Power Inductor AWT Series

**Automotive
AEC-Q200**

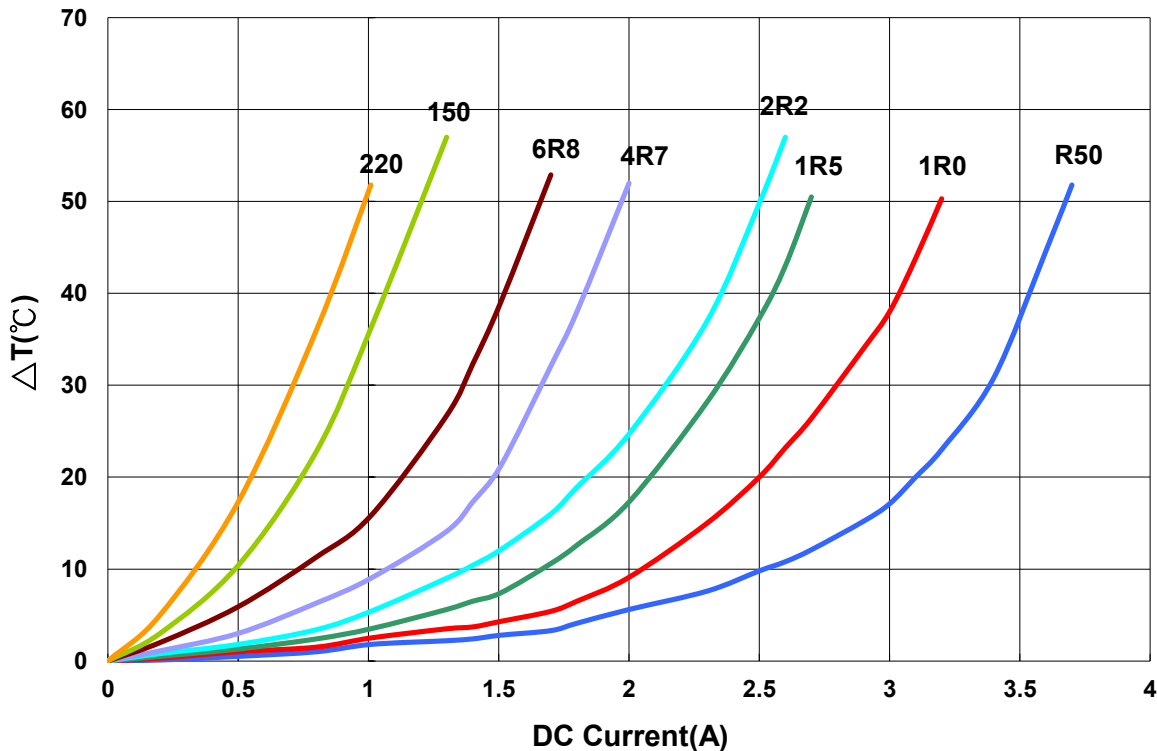
AWT00404012 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

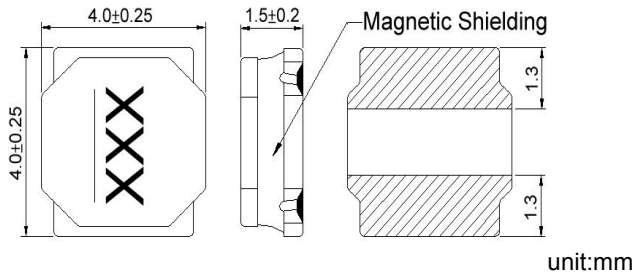


Power Inductor AWVT Series

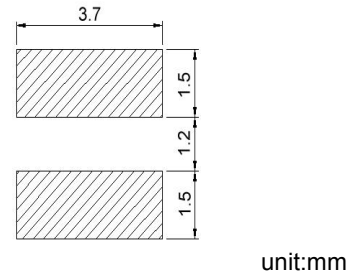
**Automotive
AEC-Q200**

AWVT00404015 Type

■ Dimensions



■ Recommended Land Pattern



■ 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°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40°C temperature rise from 25°C 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

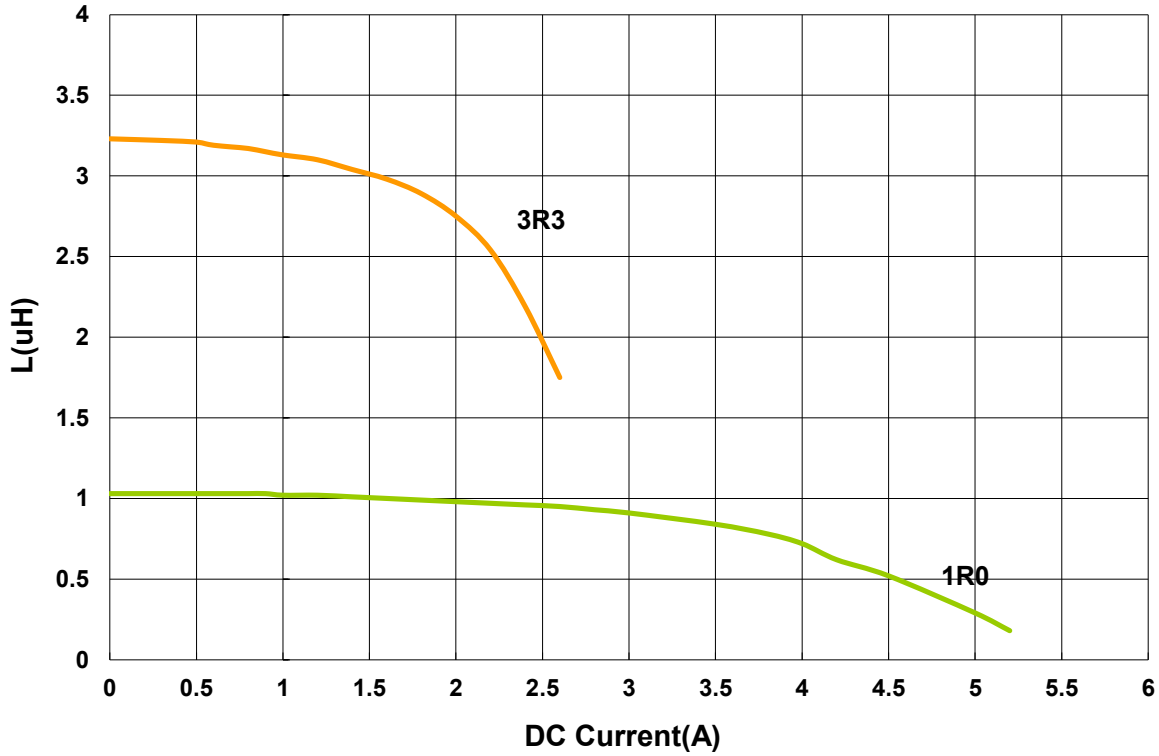
Power Inductor AWVT Series

Automotive
AEC-Q200

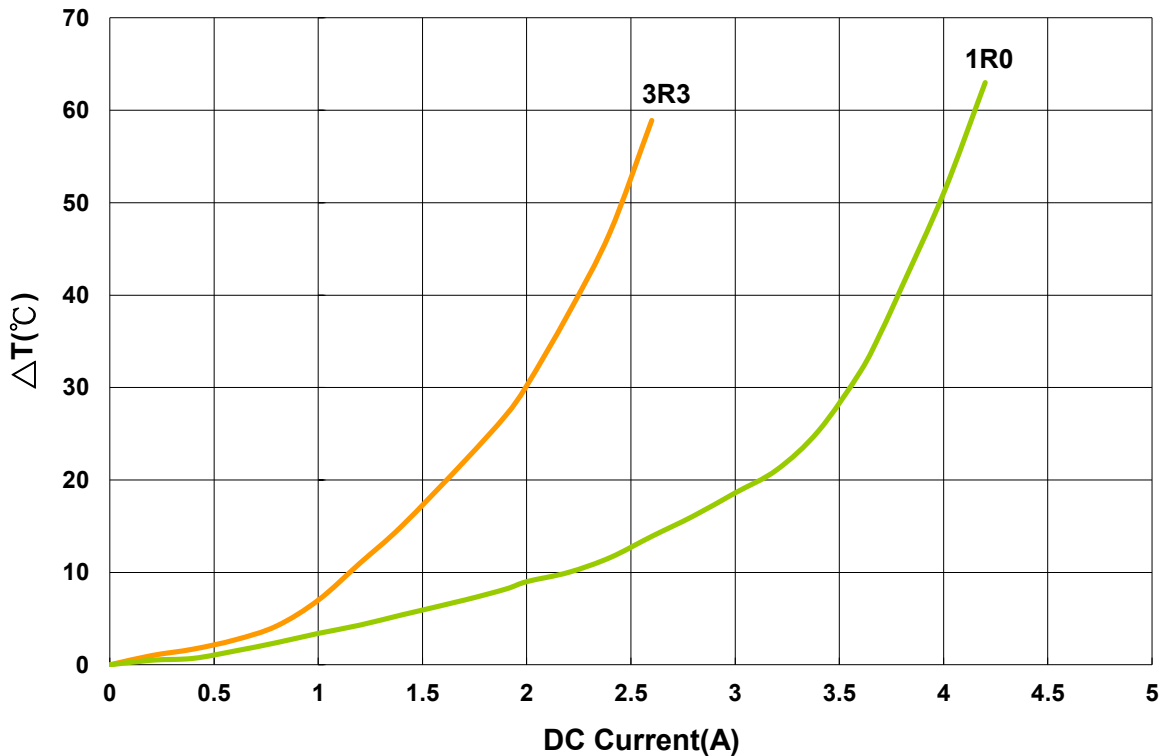
AWVT00404015 Type

■ Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

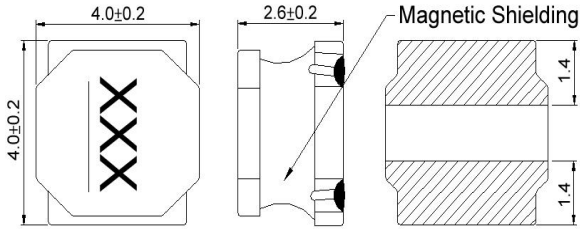


Power Inductor AWVT Series

**Automotive
AEC-Q200**

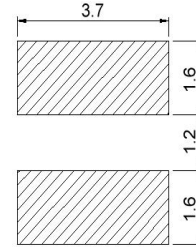
AWVT00404026 Type

■ 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

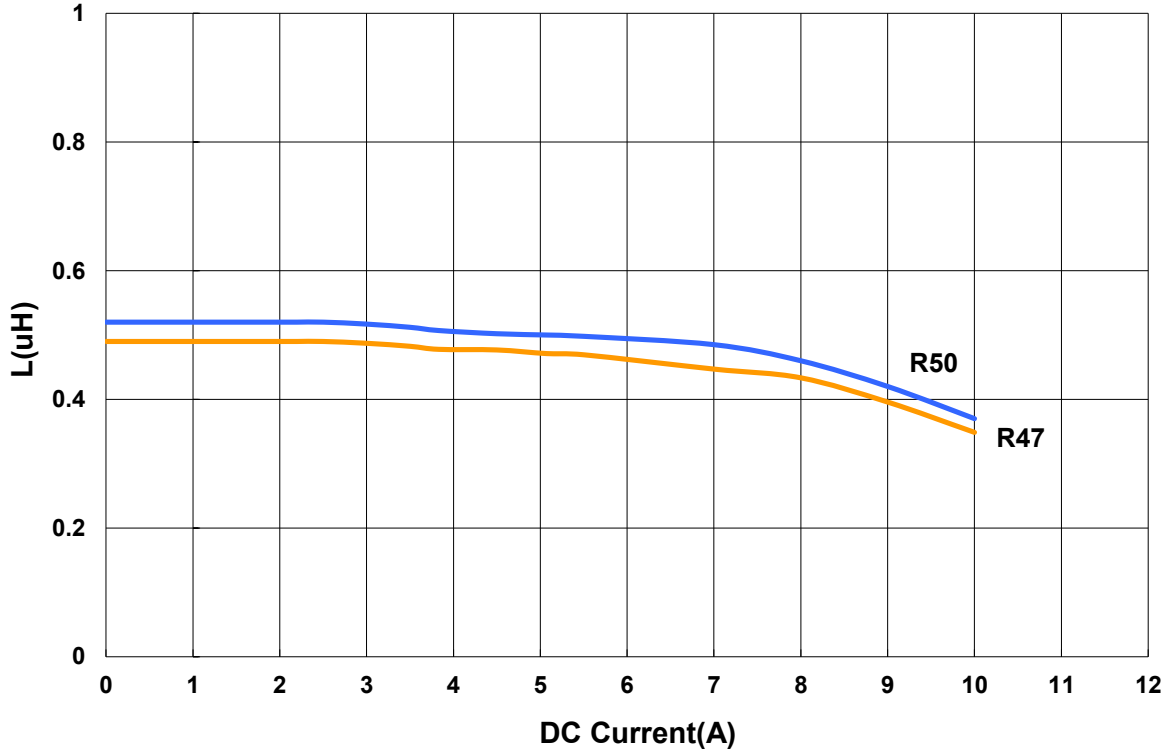
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

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

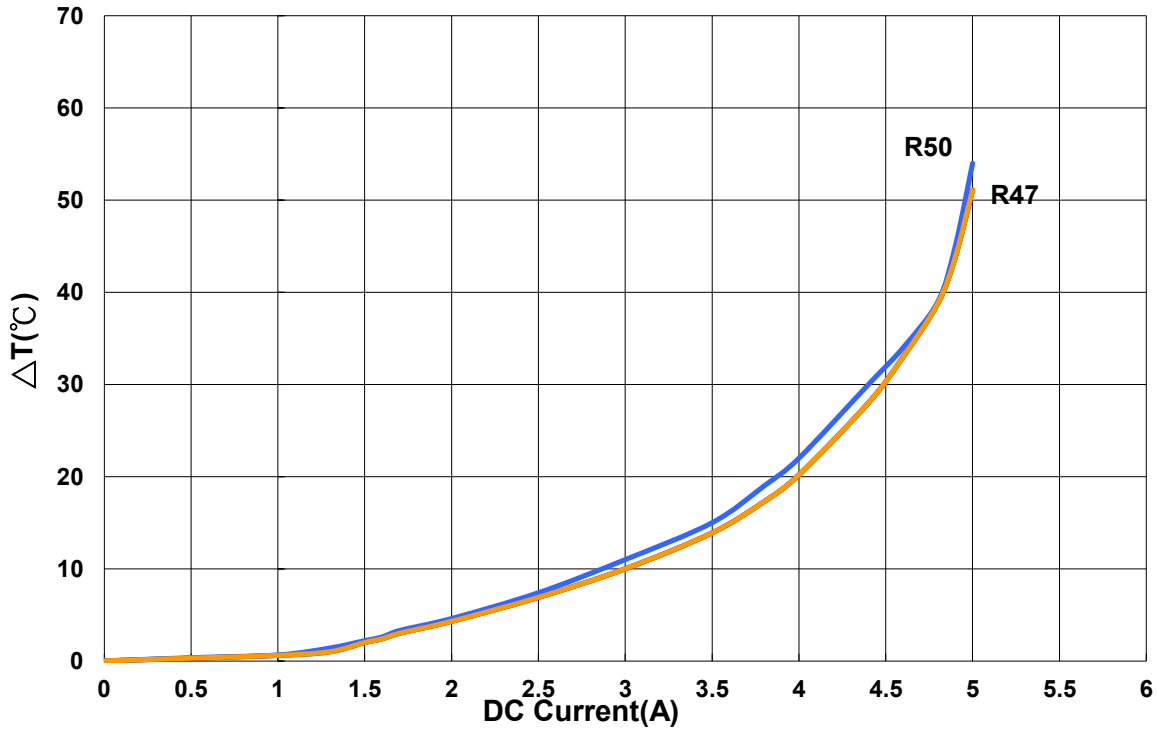
AWVT00404026 Type

■ Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

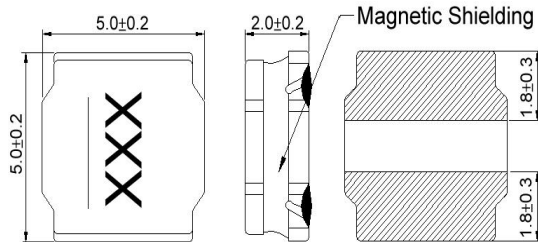


Power Inductor AWVT Series

**Automotive
AEC-Q200**

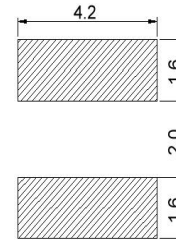
AWVT00505020 Type

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

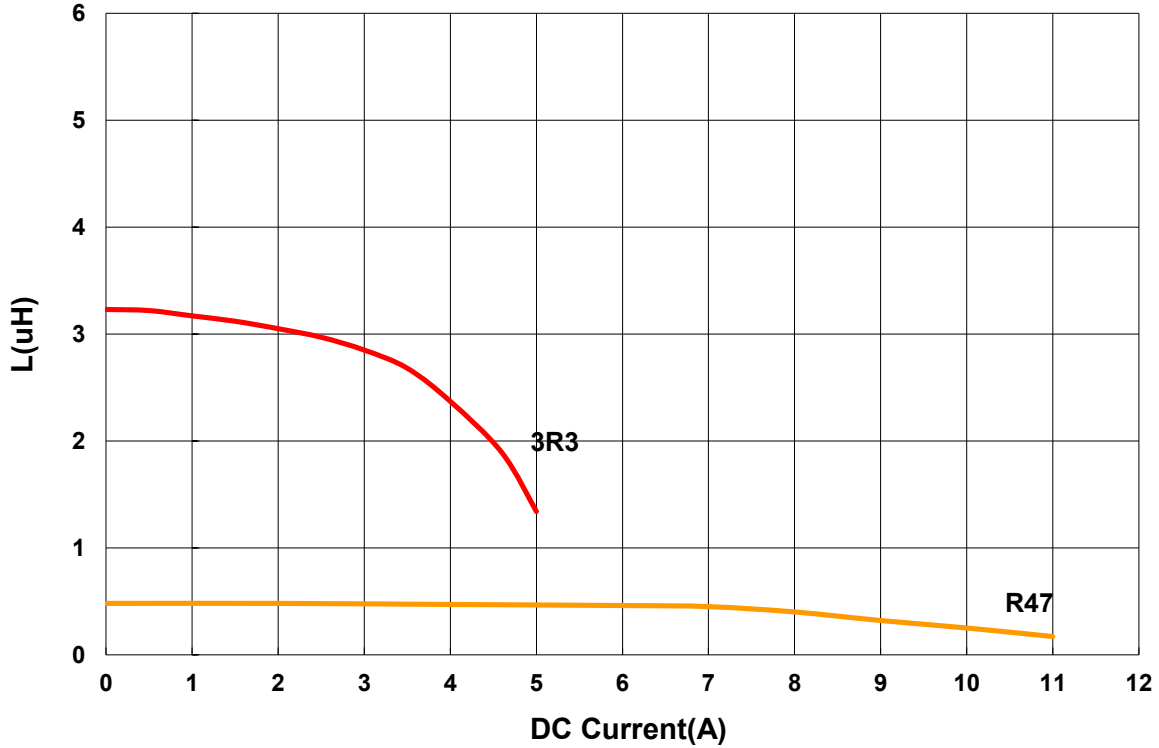
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

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

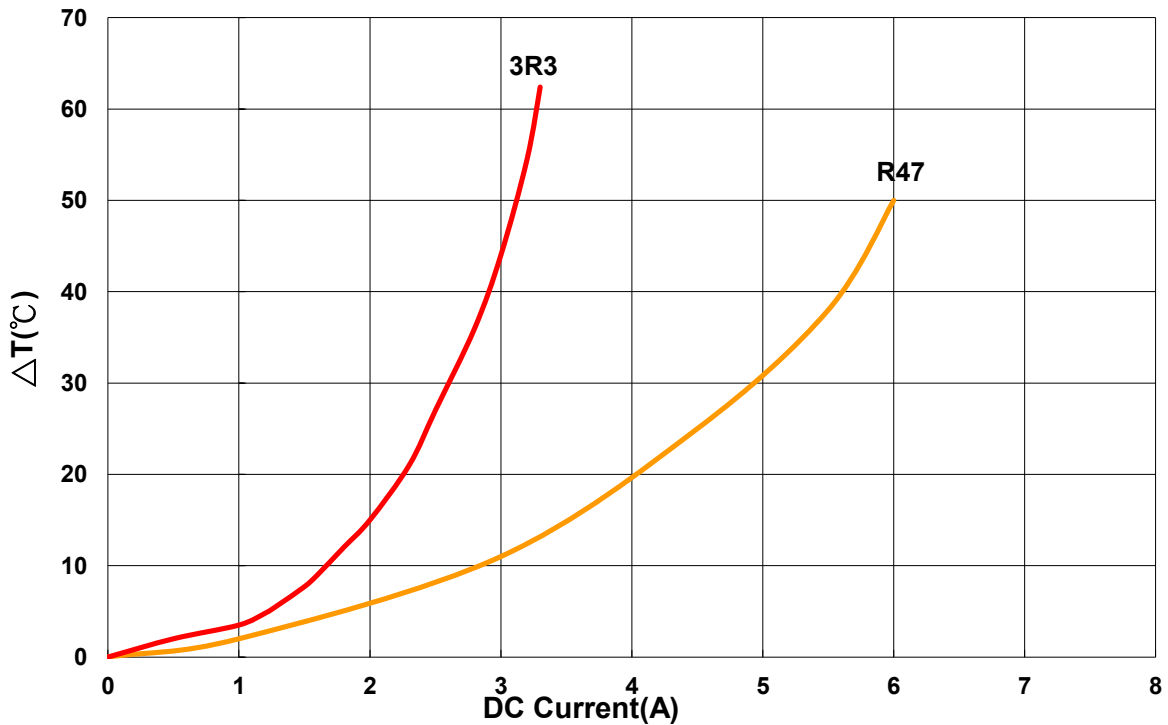
AWVT00505020 Type

■ Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

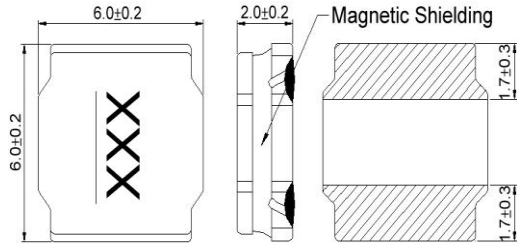


Power Inductor AWT Series

**Automotive
AEC-Q200**

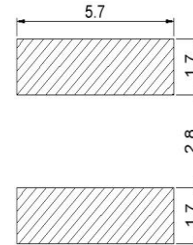
AWVT00606020 Type

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

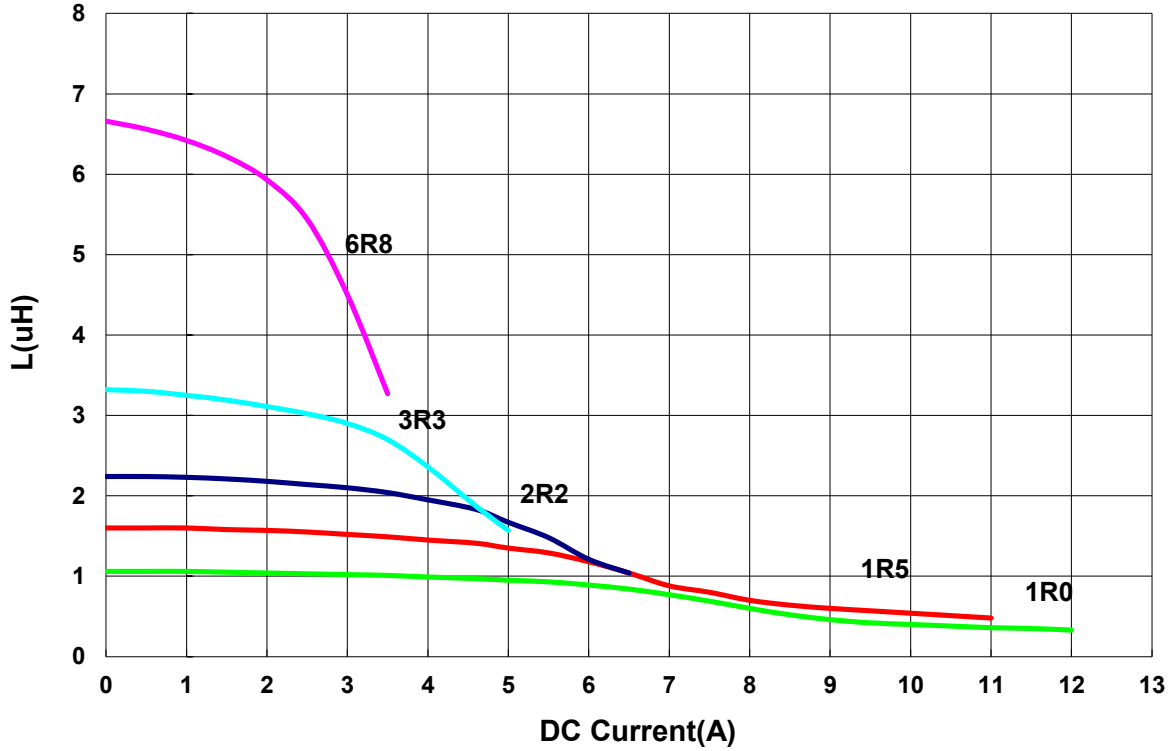
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

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

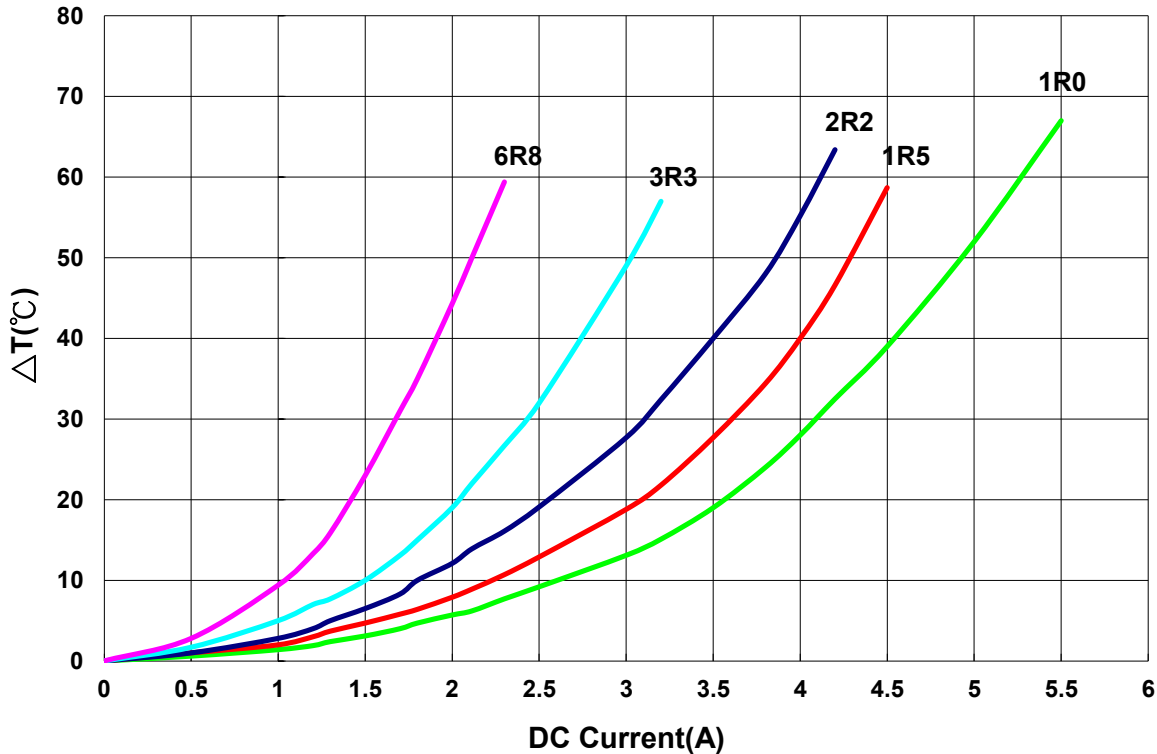
AWVT00606020 Type

■ Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

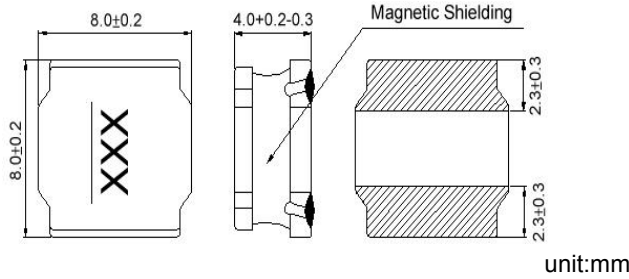


Power Inductor AWT Series

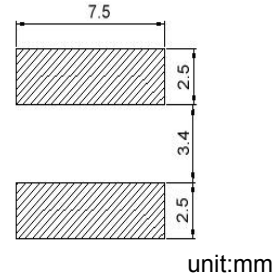
**Automotive
AEC-Q200**

AWVT00808040 Type

■ Dimensions



■ Recommended Land Pattern



■ 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

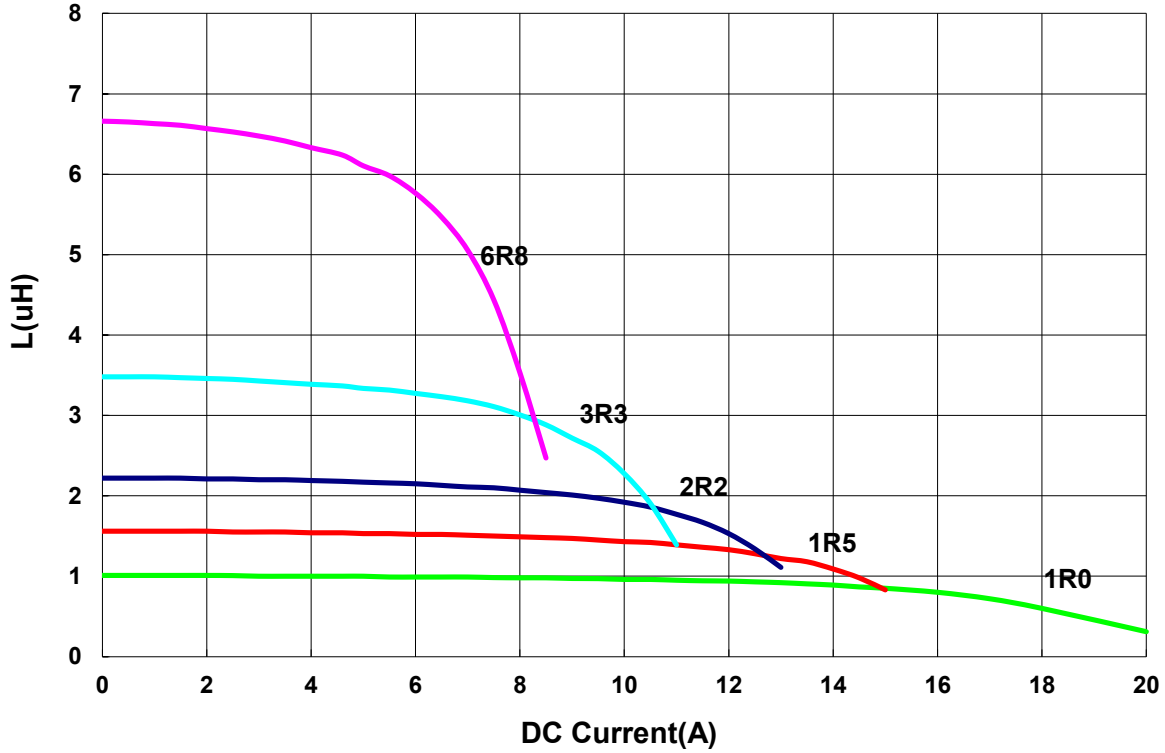
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

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

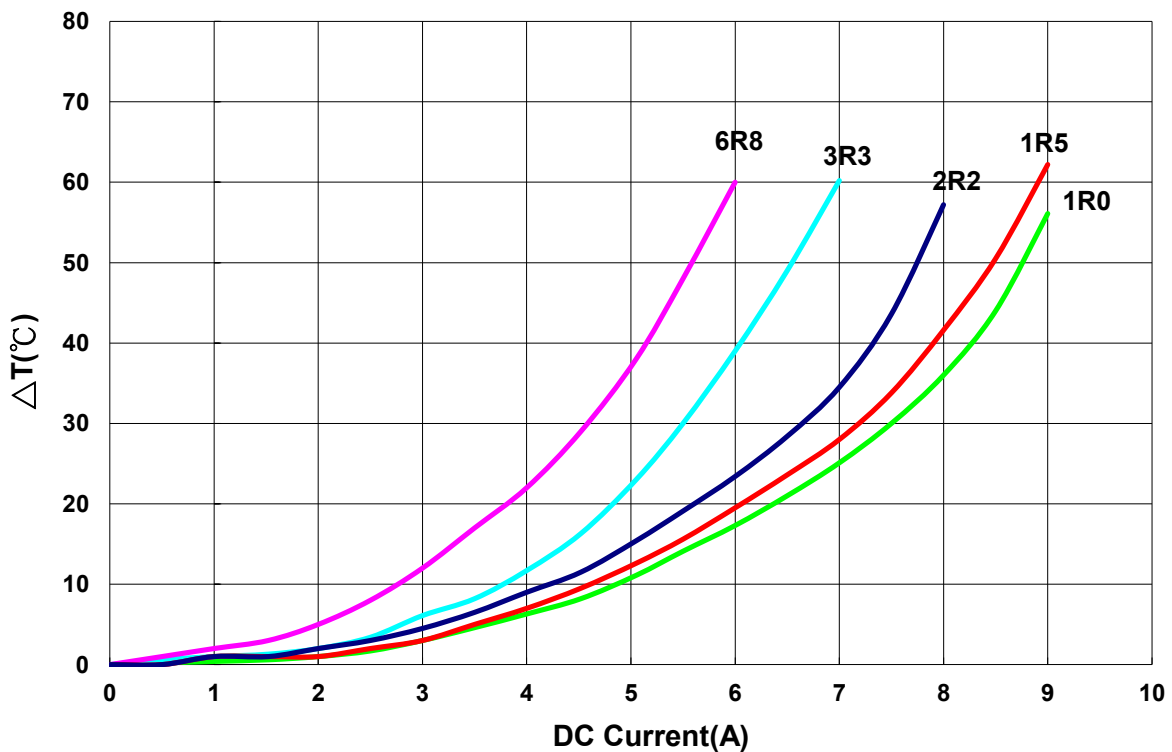
AWVT00808040 Type

■ Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

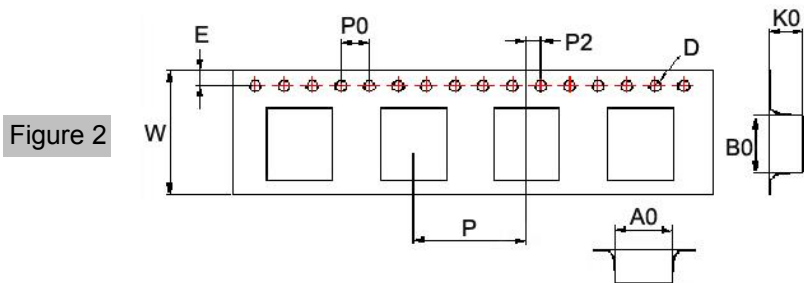
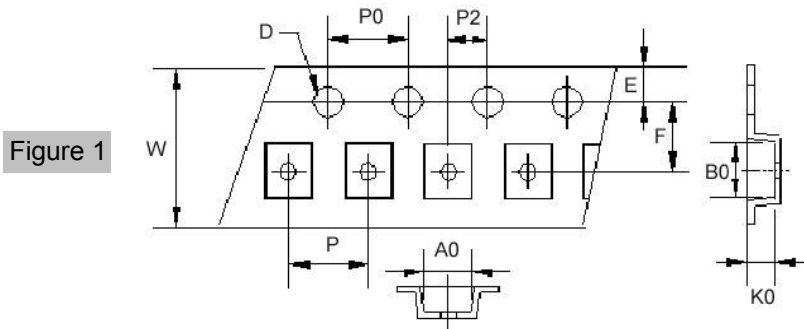


Power Inductor AWVT Series

**Automotive
AEC-Q200**

■ Packaging

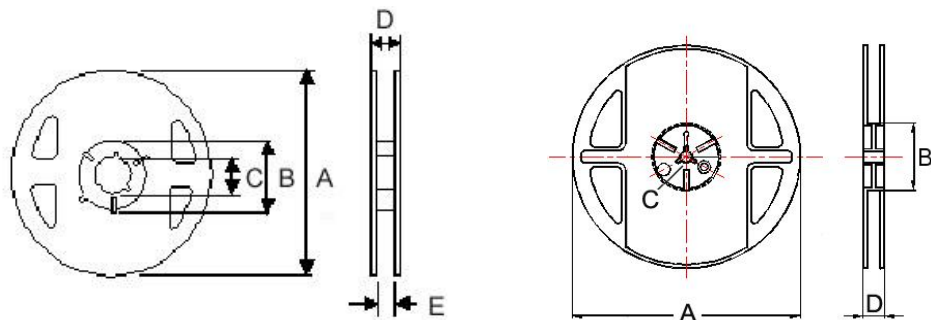
Tape Dimensions



Reel Dimensions

Figure 1

Figure 2



Dimensions in mm

TYPE	Fig	Tape Dimensions										Reel Dimensions					Quantity PCS / Reel
		A0	B0	K0	D	E	F	W	P	P0	P2	A	B	C	D	E	
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	7.5	16	12	4	2	330	100	13	16	-	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

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 AWVC Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



Part Numbering

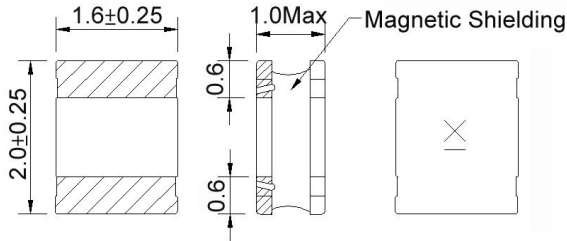
A	WVC	00	252012	1R0	M	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			201610 2.0x1.6x1.0	R47 0.47	M ±20%	
			201612 2.0x1.6x1.2	1R0 1.0	T ±30%	
			252012 2.5x2.0x1.2	101 100		
			404018 4.0x4.0x1.9			
			505040 5.0x5.0x4.0			
			606028 6.0x6.0x2.8			
			606045 6.0x6.0x4.5			

Power Inductor AWVC Series

**Automotive
AEC-Q200**

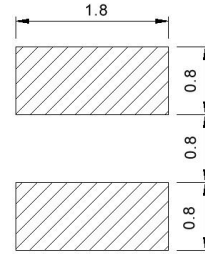
AWVC00201610 Type

■ 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°C ~ 125°C
2. Isat for inductance drop 30% from its value without current
3. I rms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:
 L: Agilent HP4287A+Agilent HP16197A
 RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 Isat: Agilent HP4284A
 I rms: Agilent HP4284A

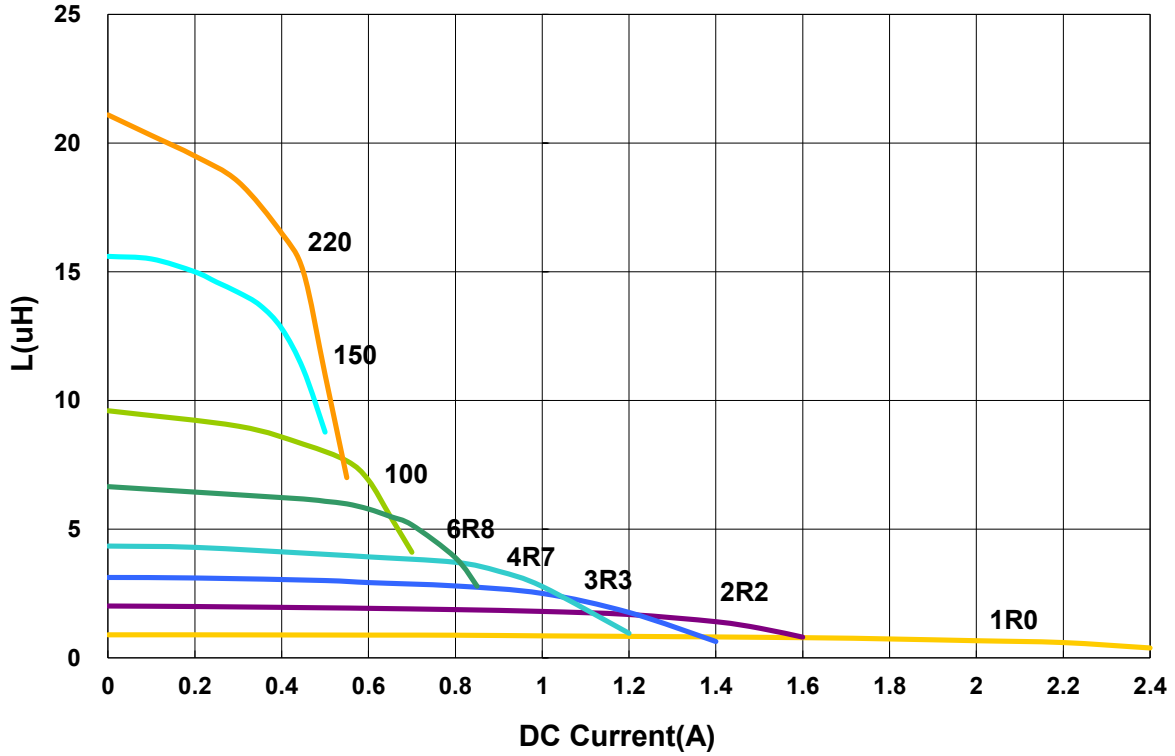
Power Inductor AWVC Series

**Automotive
AEC-Q200**

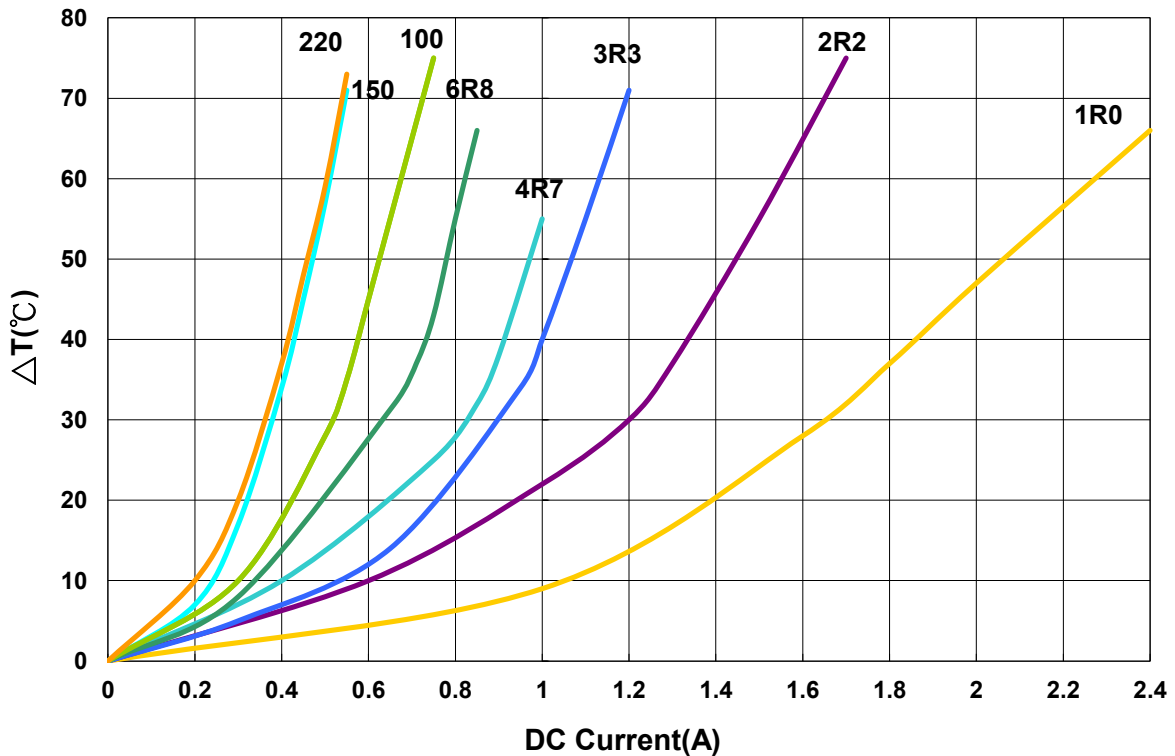
AWVC00201610 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

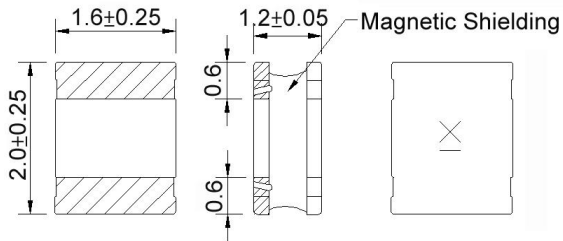


Power Inductor AWVC Series

**Automotive
AEC-Q200**

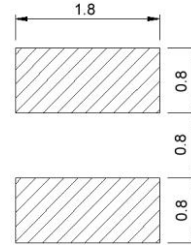
AWVC00201612 Type

■ 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°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:
 L: Agilent HP4287A+Agilent HP16197A
 RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 Isat: Agilent HP4284A
 I rms: Agilent HP4284A

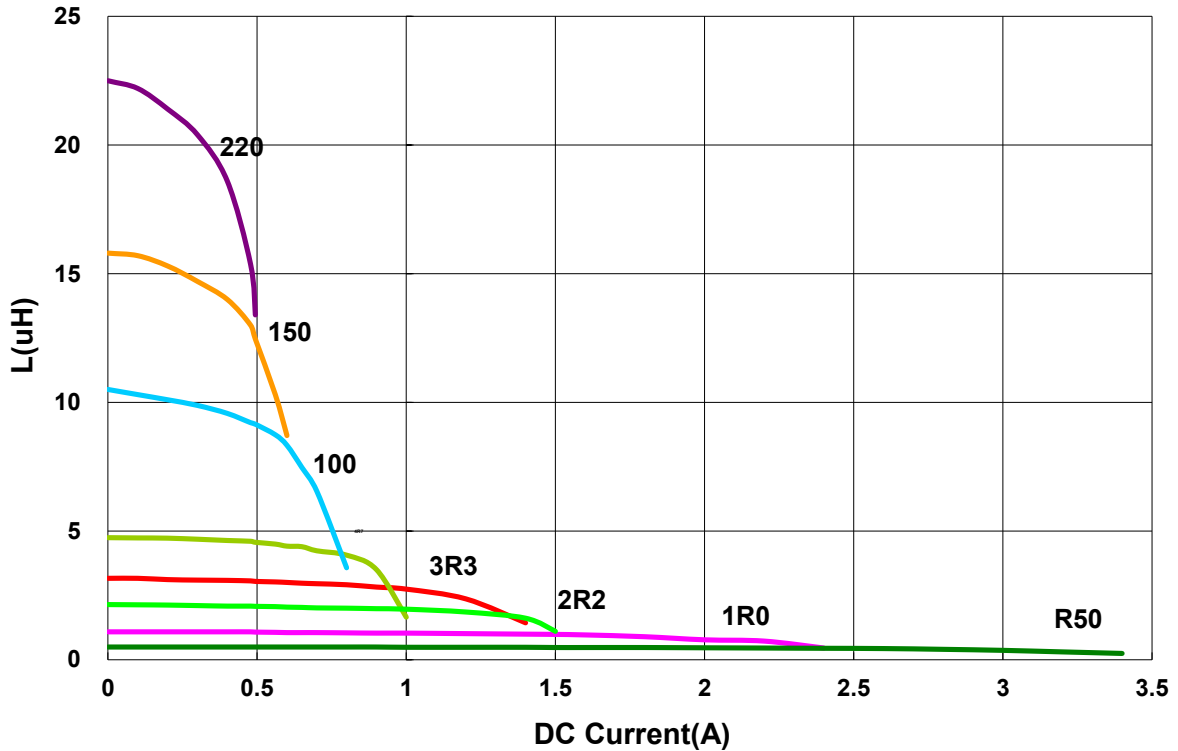
Power Inductor AWVC Series

**Automotive
AEC-Q200**

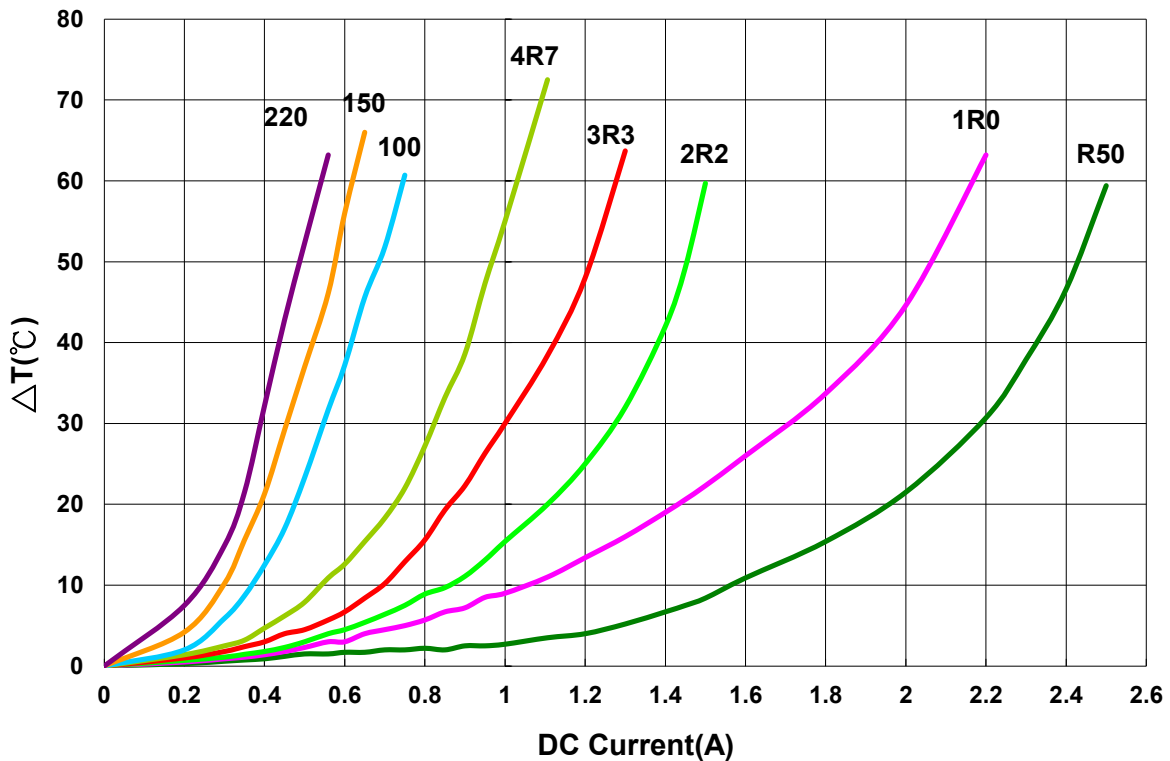
AWVC00201612 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

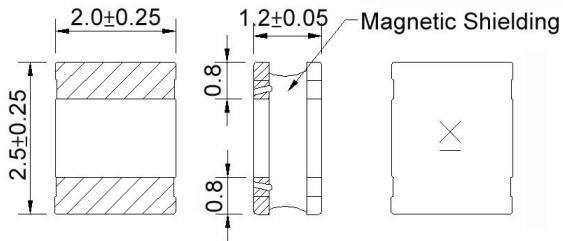


Power Inductor AWVC Series

**Automotive
AEC-Q200**

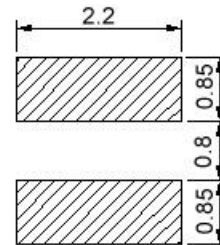
AWVC00252012 Type

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

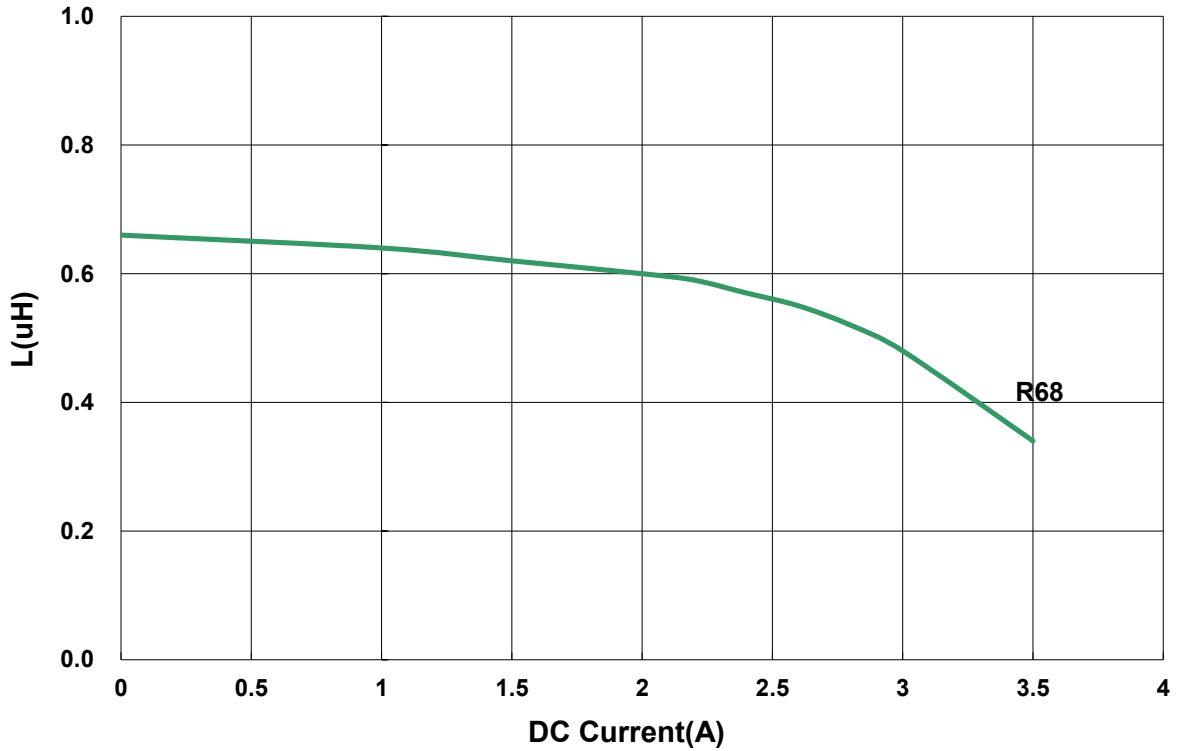
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

- Operating temperature range - 40°C ~ 125°C
- Isat for Inductance drop 30% from its value without current.
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment:
 L: Agilent HP4287A+Agilent .HP16197A
 RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 Isat: Agilent HP4284A
 Irms: Agilent HP4284A

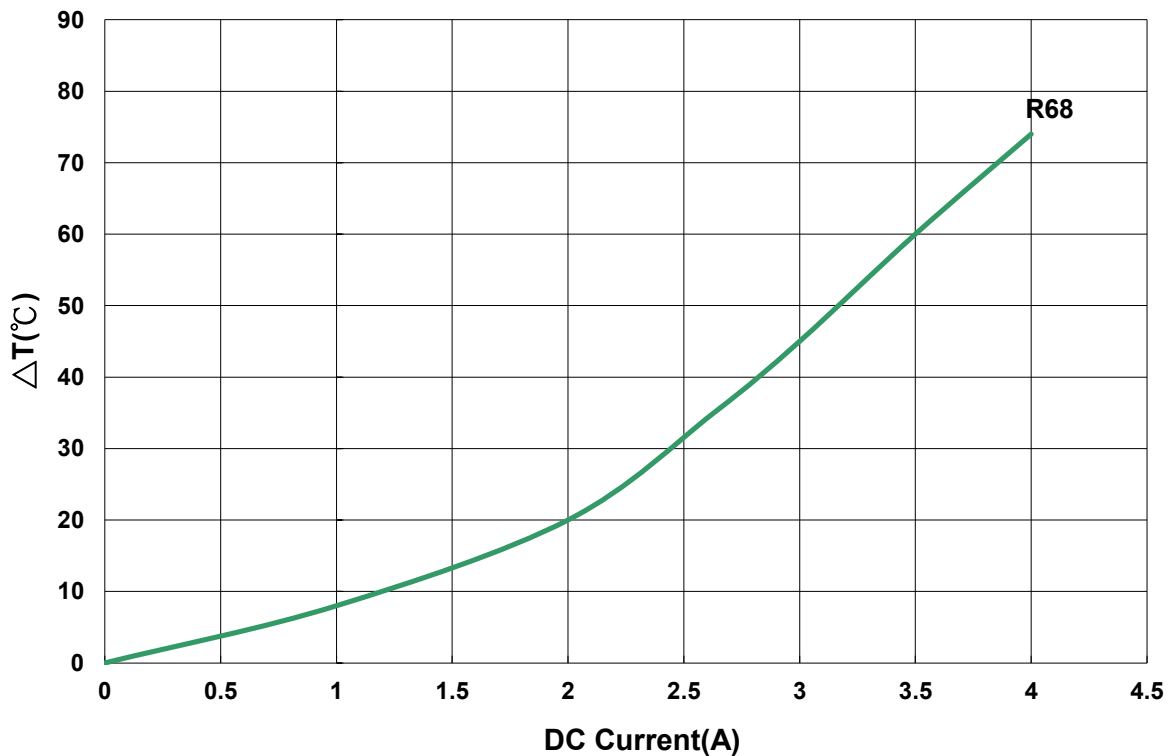
AWVC00252012 Type

■ Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

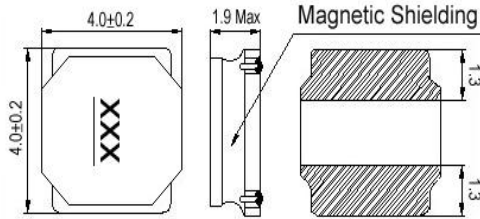


Power Inductor AWVC Series

**Automotive
AEC-Q200**

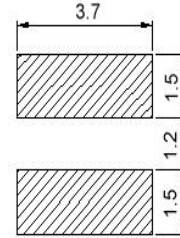
AWVC00404018 Type

■ 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°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:
 L: Agilent HP4284A+Agilent HP42841A
 RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 Isat: Agilent HP4284A
 I rms: Agilent HP4284A

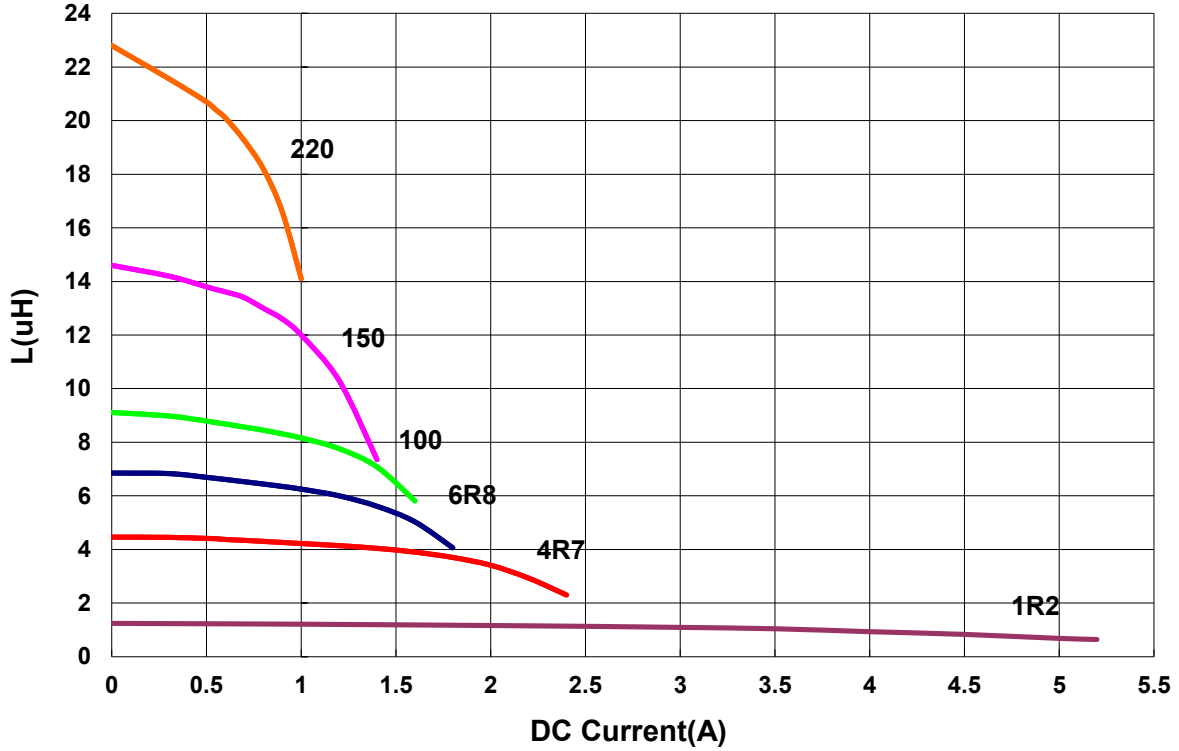
Power Inductor AWVC Series

**Automotive
AEC-Q200**

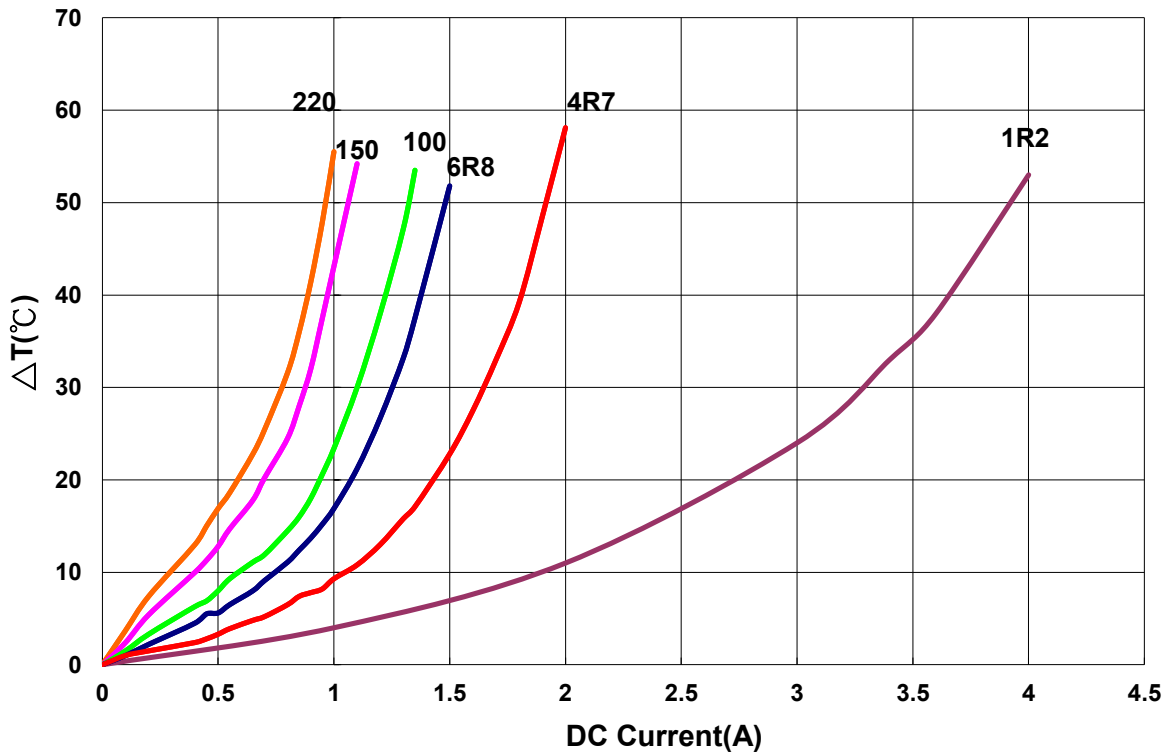
AWVC00404018 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

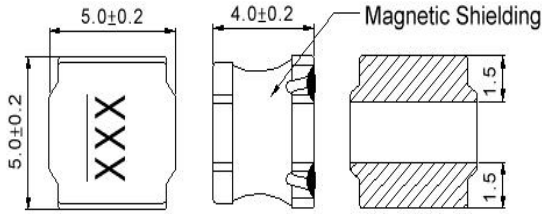


Power Inductor AWVC Series

**Automotive
AEC-Q200**

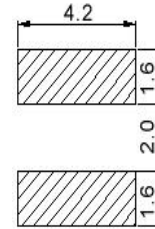
AWVC00505040 Type

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°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:

L: Agilent HP4284A+Agilent HP42841A
RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
Isat: Agilent HP4284A
I rms: Agilent HP4284A

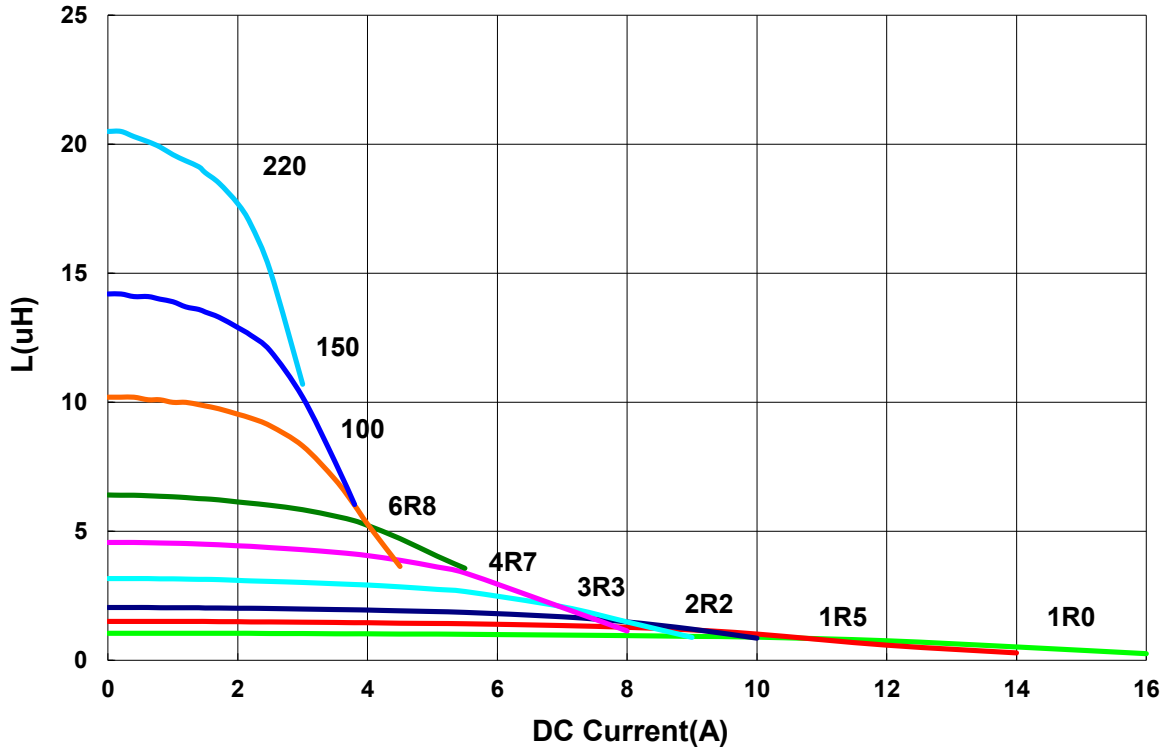
Power Inductor AWVC Series

**Automotive
AEC-Q200**

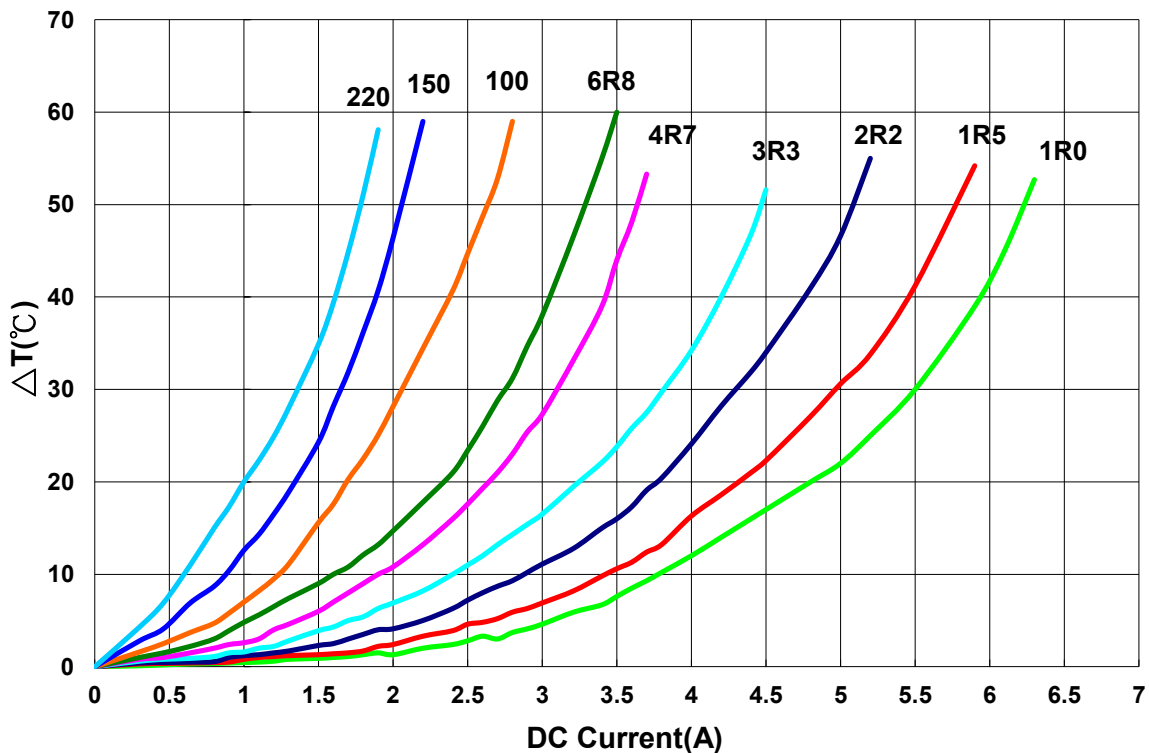
AWVC00505040 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

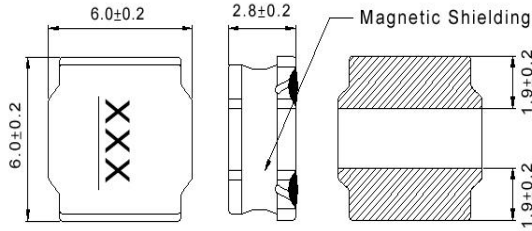


Power Inductor AWVC Series

**Automotive
AEC-Q200**

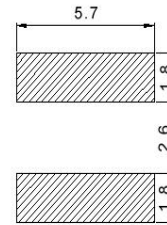
AWVC00606028 Type

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

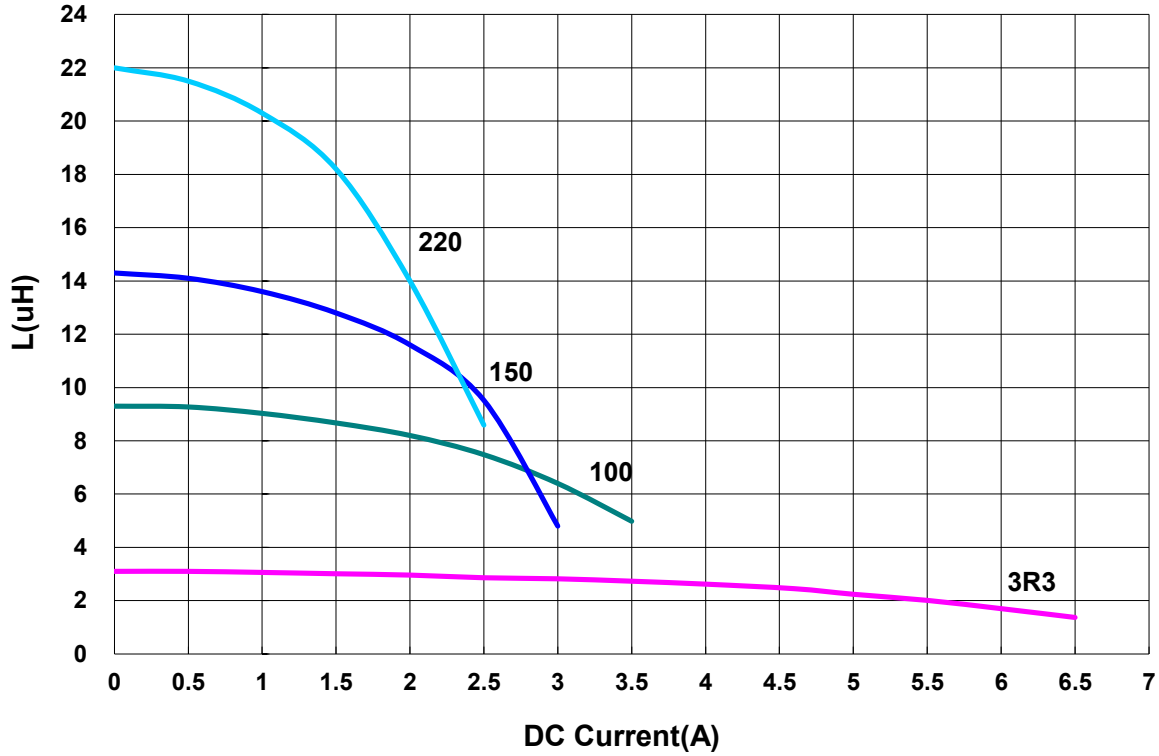
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

1. Operating temperature range - 40°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40°C temperature rise from 25°C 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

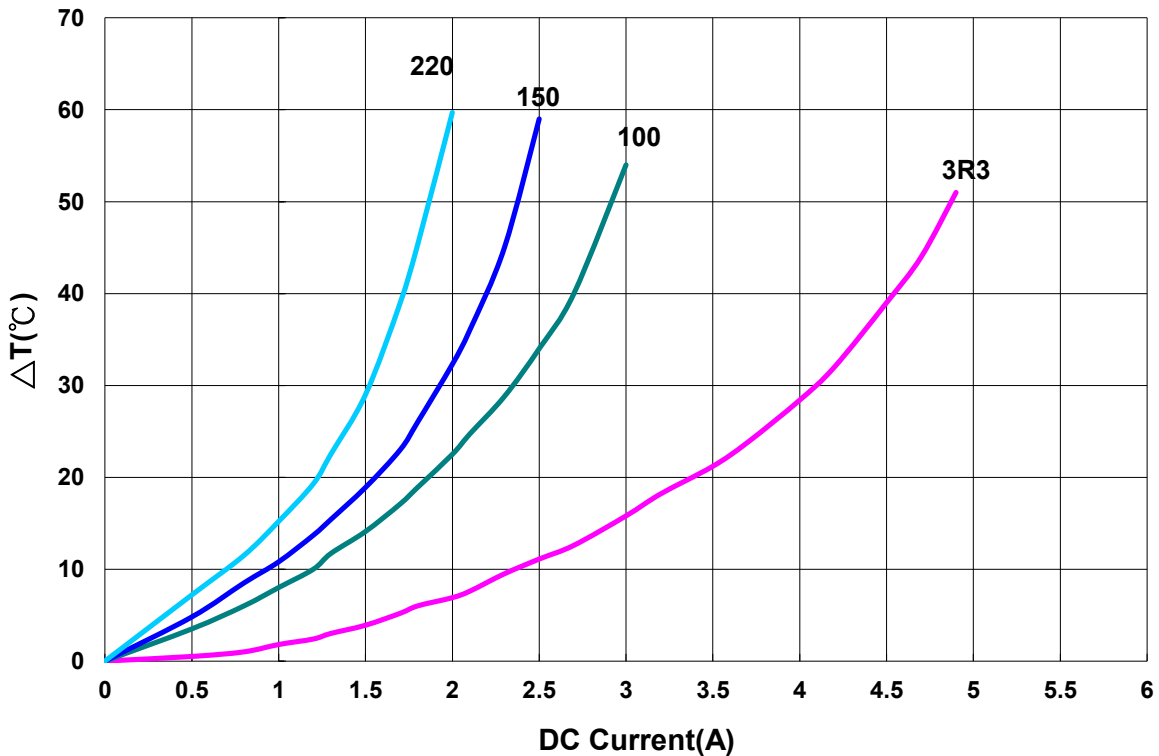
AWVC00606028 Type

■ Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

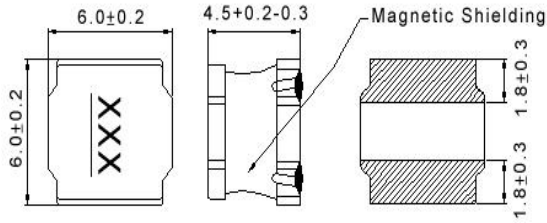


Power Inductor AWVC Series

**Automotive
AEC-Q200**

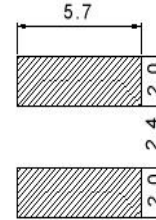
AWVC00606045 Type

■ 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°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40°C temperature rise from 25°C 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

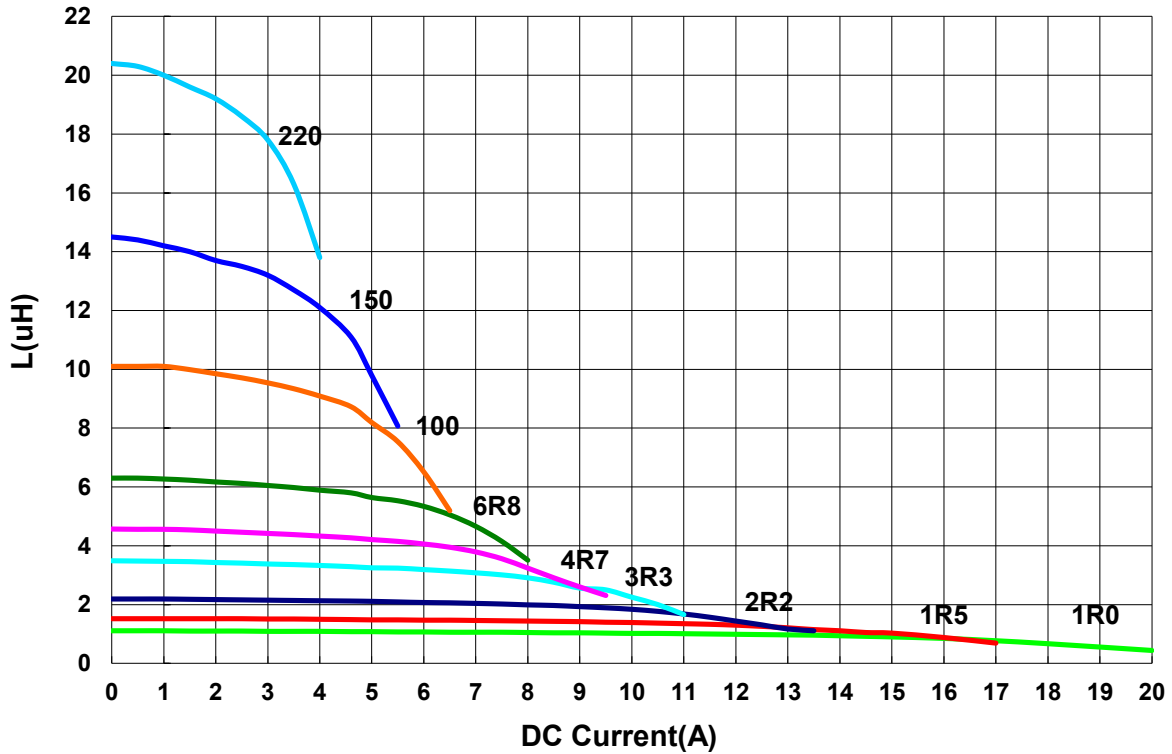
Power Inductor AWVC Series

**Automotive
AEC-Q200**

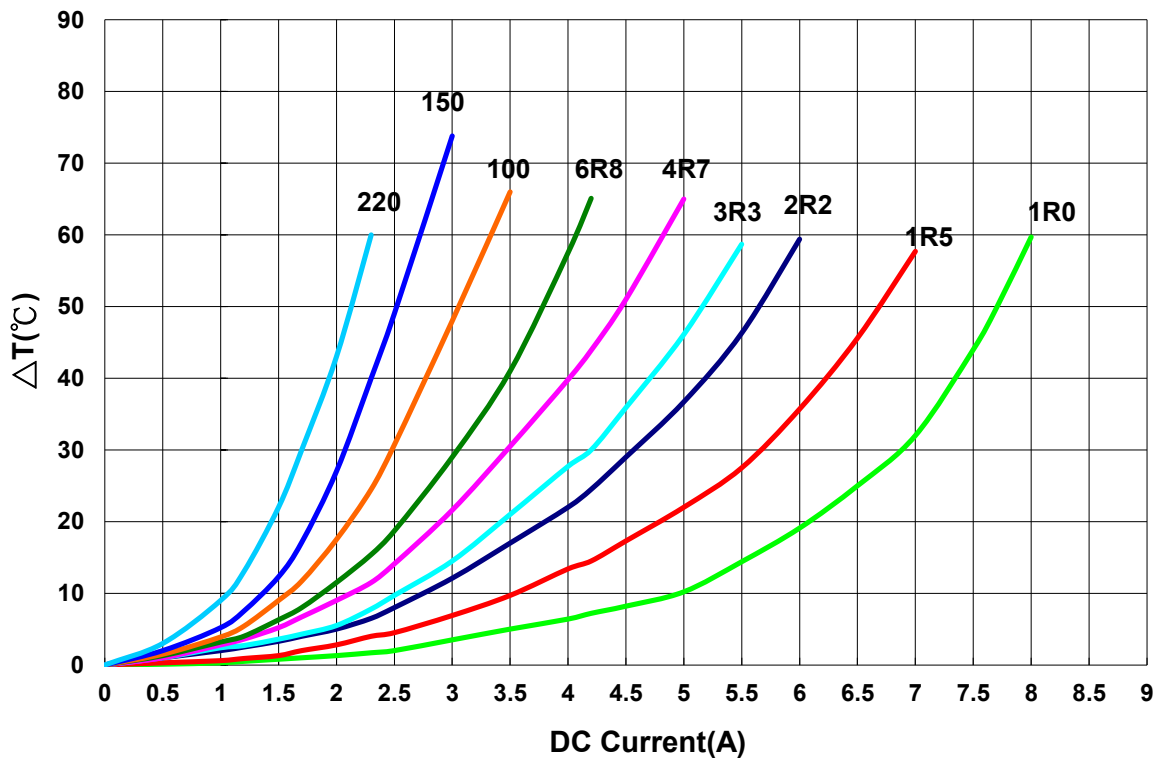
AWVC00606045 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC 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 AWVC Series

**Automotive
AEC-Q200**

■ Packaging

Tape Dimensions

Figure 1

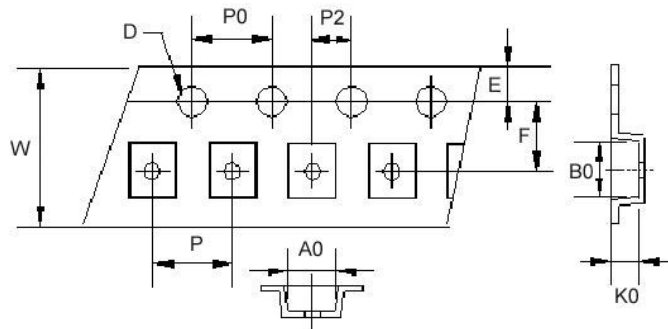
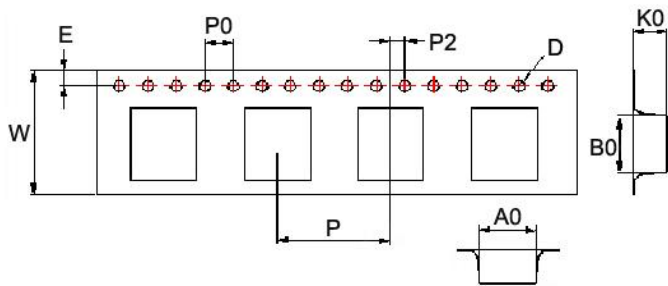


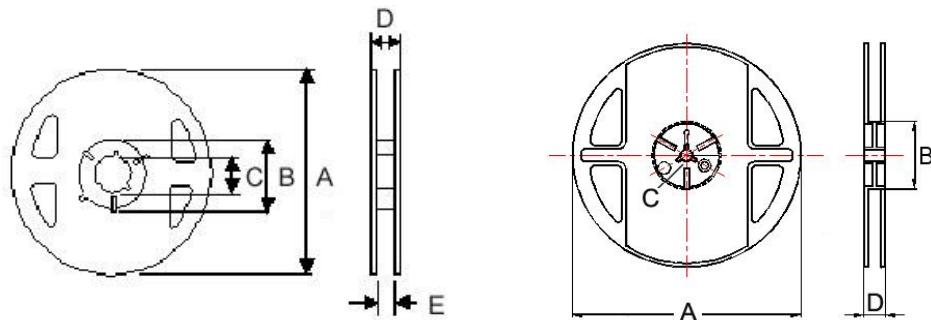
Figure 2



Reel Dimensions

Figure 1

Figure 2



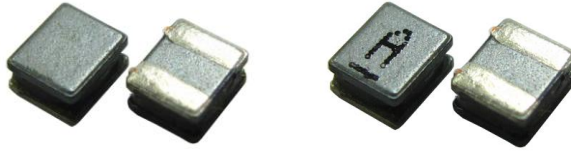
Dimensions in mm

TYPE	Fig	Tape Dimensions										Reel Dimensions					Quantity PCS / Reel
		A0	B0	K0	D	E	F	W	P	P0	P2	A	B	C	D	E	
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	6.25	6.25	4.65	1.55	1.75	7.5	16	12	4	2	330	100	13	16	-	1000

Power Inductor AWWH Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



Part Numbering

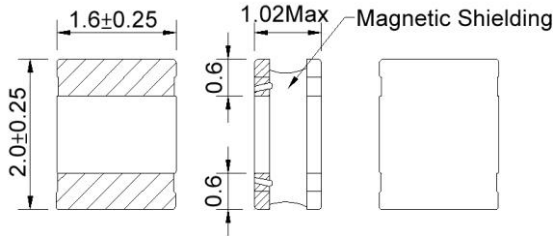
A	WVH	00	252012	1R0	M	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			201610 2.0x1.6x1.02	R47 0.47	M ±20%	00 General
			252010 2.5x2.0x1.0	1R0 1.0	T ±30%	H1 High Current
			252012 2.5x2.0x1.2	101 100		
			404030 4.0x4.0x3.0			

Power Inductor AWWH Series

**Automotive
AEC-Q200**

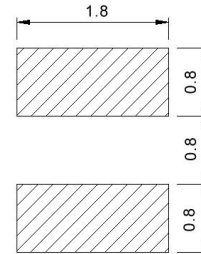
AWVH00201610-H1 Type

■ 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°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:
 L: Agilent HP4287A+Agilent HP16197A
 RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 Isat: Agilent HP4284A
 Irms: Agilent HP4284A

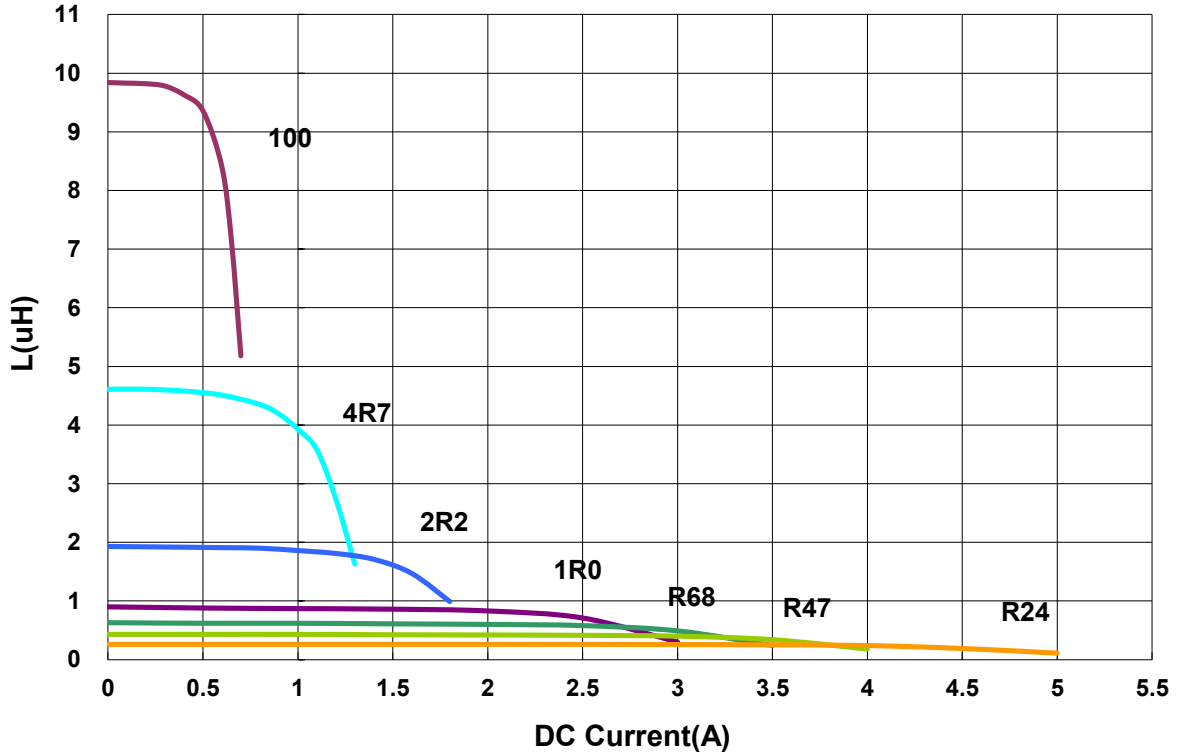
Power Inductor AWHH Series

**Automotive
AEC-Q200**

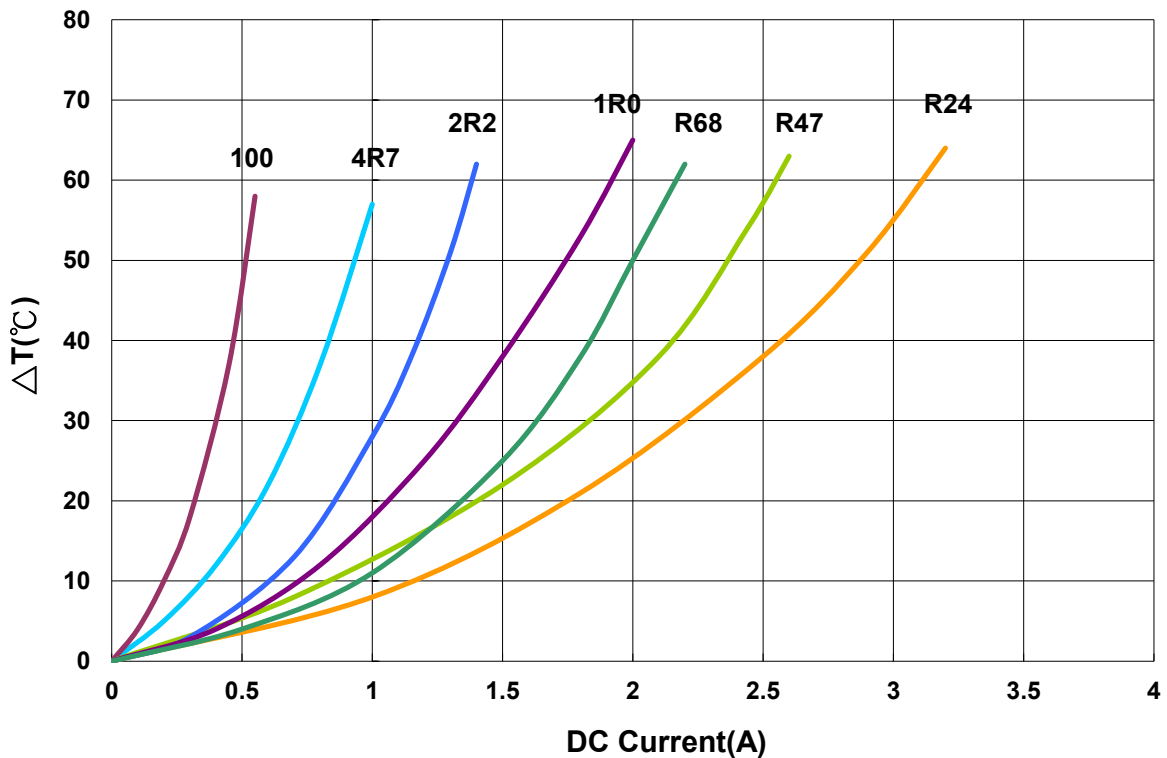
AWVH00201610-H1 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

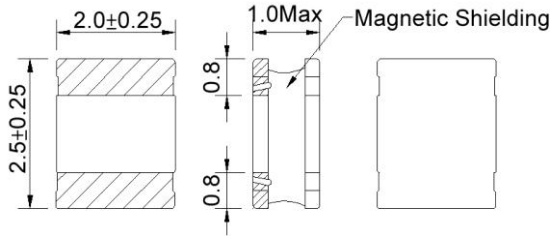


Power Inductor AWWH Series

**Automotive
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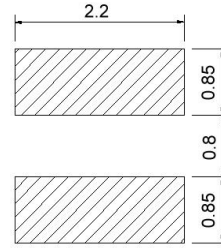
AWVH00252010-H1 Type

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°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:
 L: Agilent HP4287A+Agilent HP16197A
 RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 Isat: Agilent HP4284A
 Irms: Agilent HP4284A

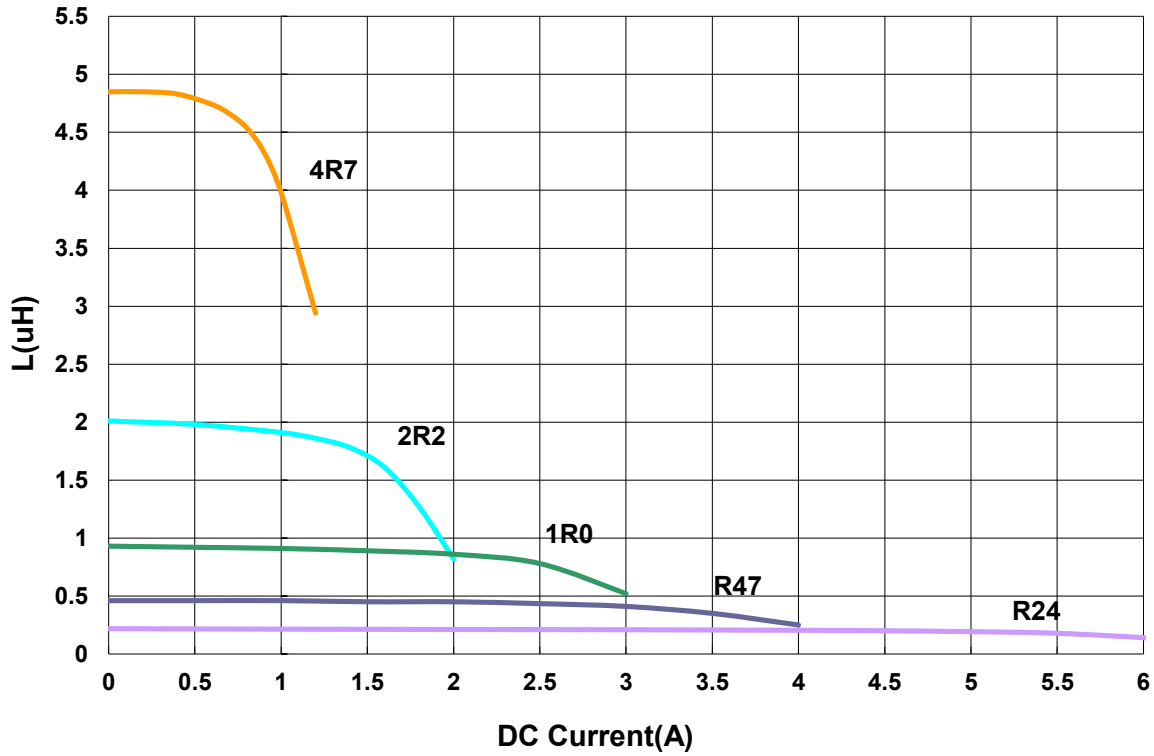
Power Inductor AWHV Series

**Automotive
AEC-Q200**

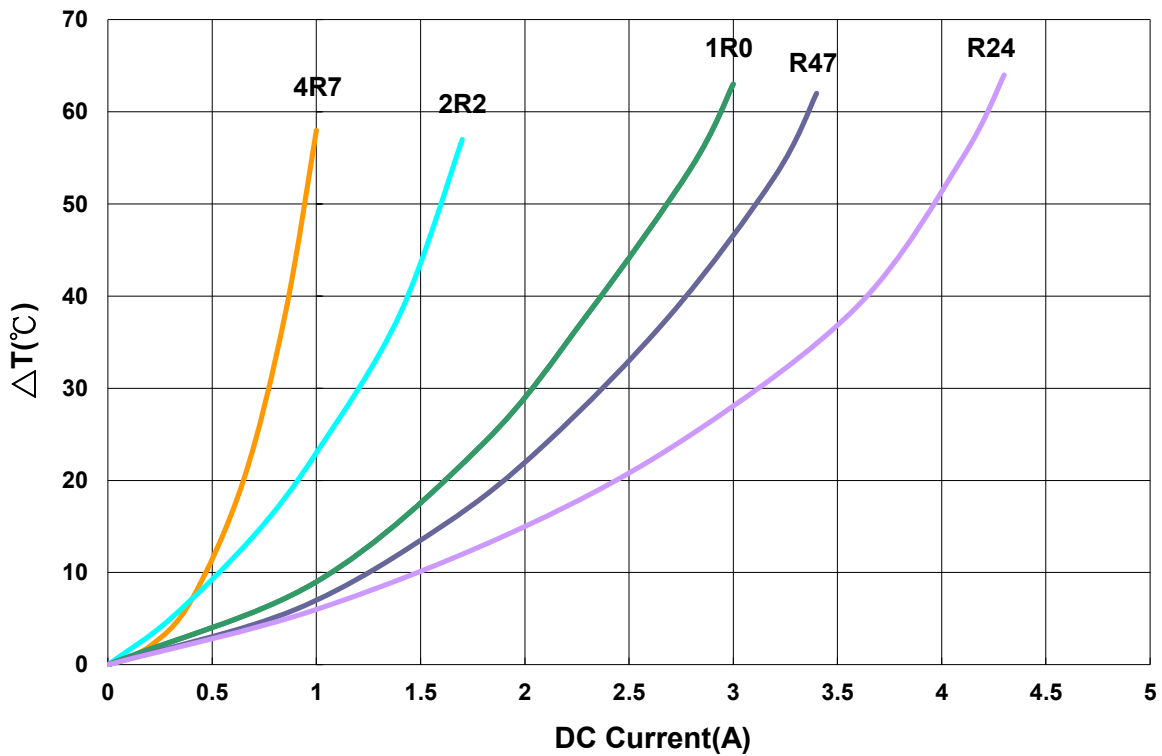
AWVH00252010-H1 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

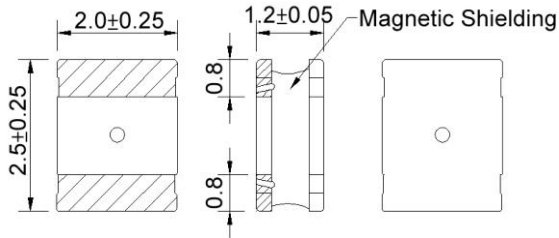


Power Inductor AWWH Series

**Automotive
AEC-Q200**

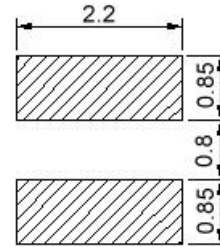
AWVH00252012-H1 Type

■ 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(1.70)	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

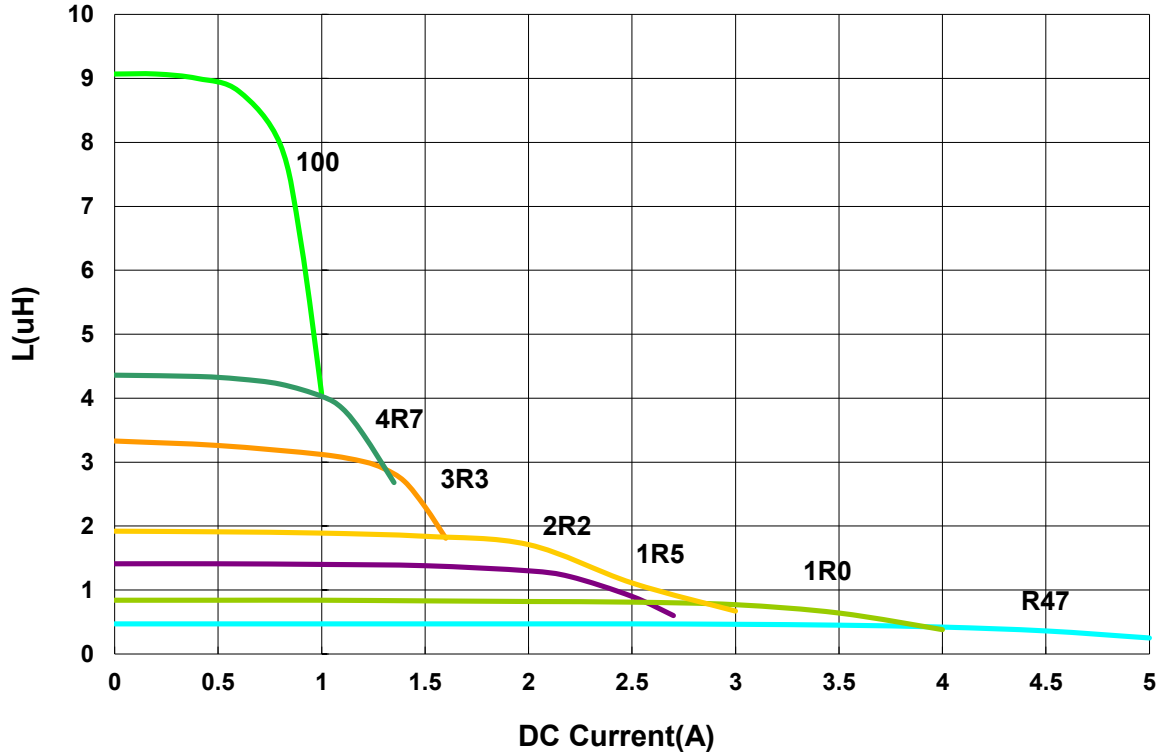
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

1. Operating temperature range - 40°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:
 L: Agilent HP4287A+Agilent HP16197A
 RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 Isat: Agilent HP4284A
 I rms: Agilent HP4284A

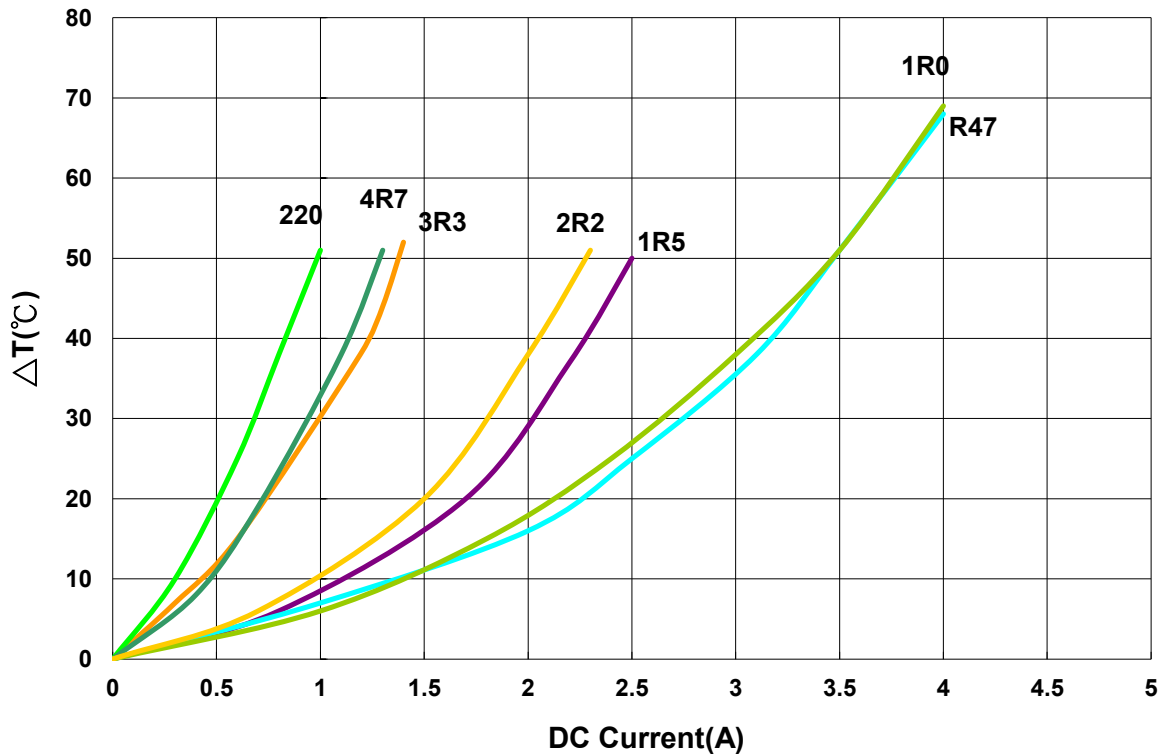
AWVH00252012-H1 Type

■ Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

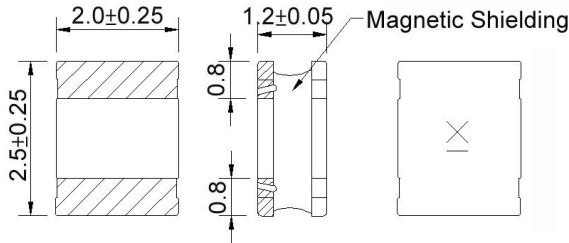


Power Inductor AWWH Series

**Automotive
AEC-Q200**

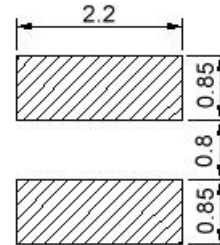
AWVH00252012 Type

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°C ~ 125°C
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:

L: Agilent HP4287A+Agilent HP16197A
 RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 Isat: Agilent HP4284A
 I rms: Agilent HP4284A

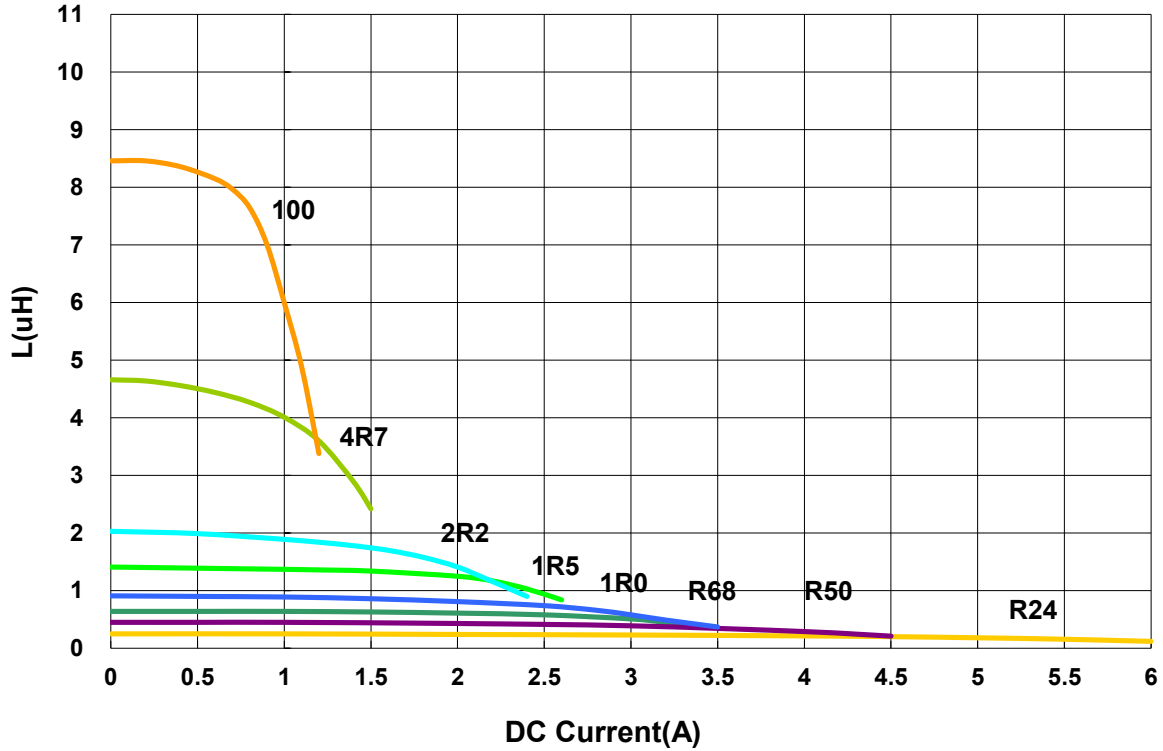
Power Inductor AWHV Series

**Automotive
AEC-Q200**

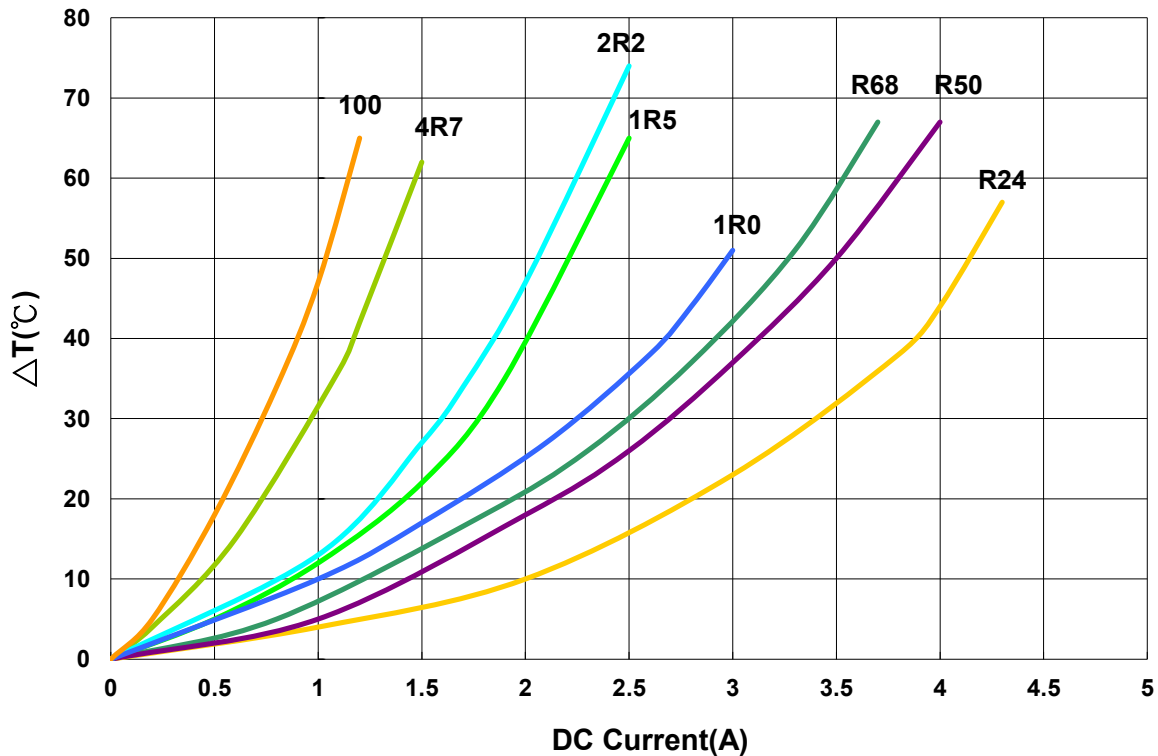
AWVH00252012 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

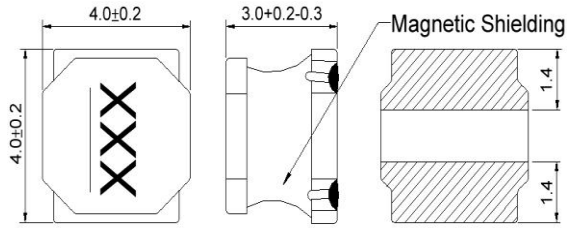


Power Inductor AWH Series

**Automotive
AEC-Q200**

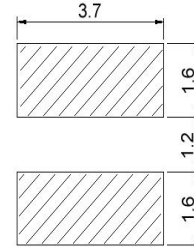
AWVH00404030 Type

■ 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

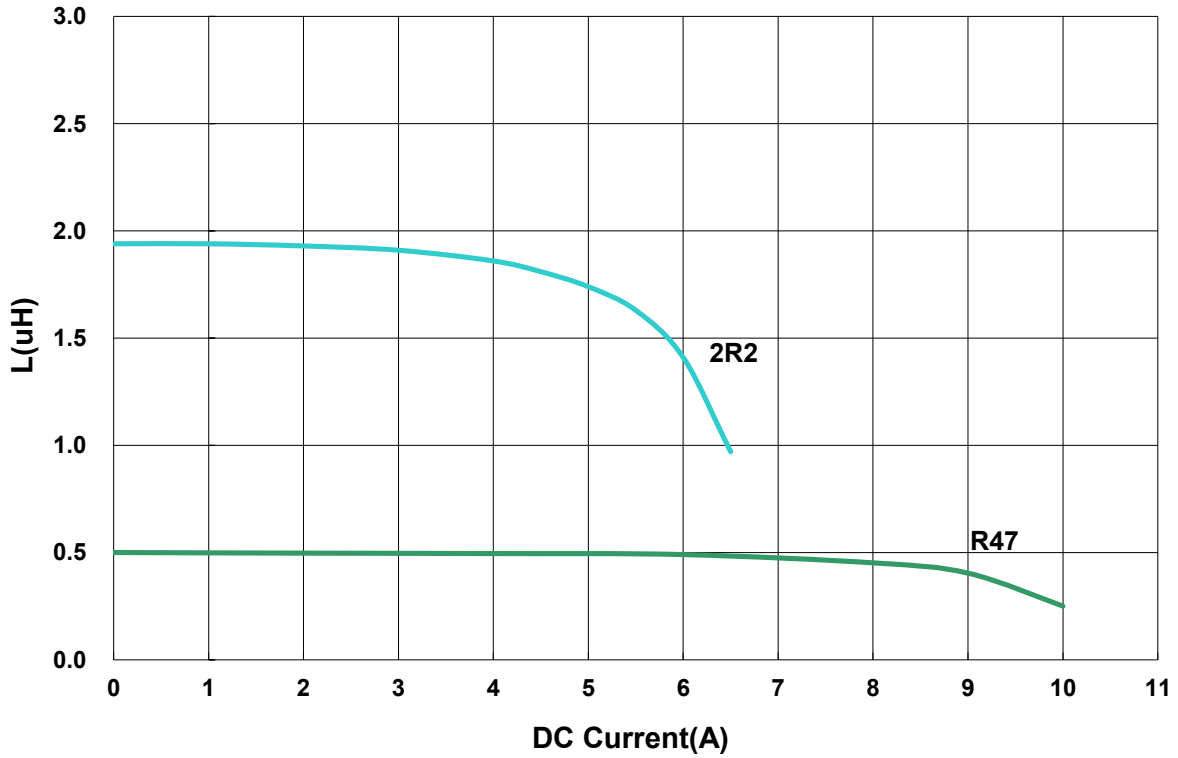
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

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

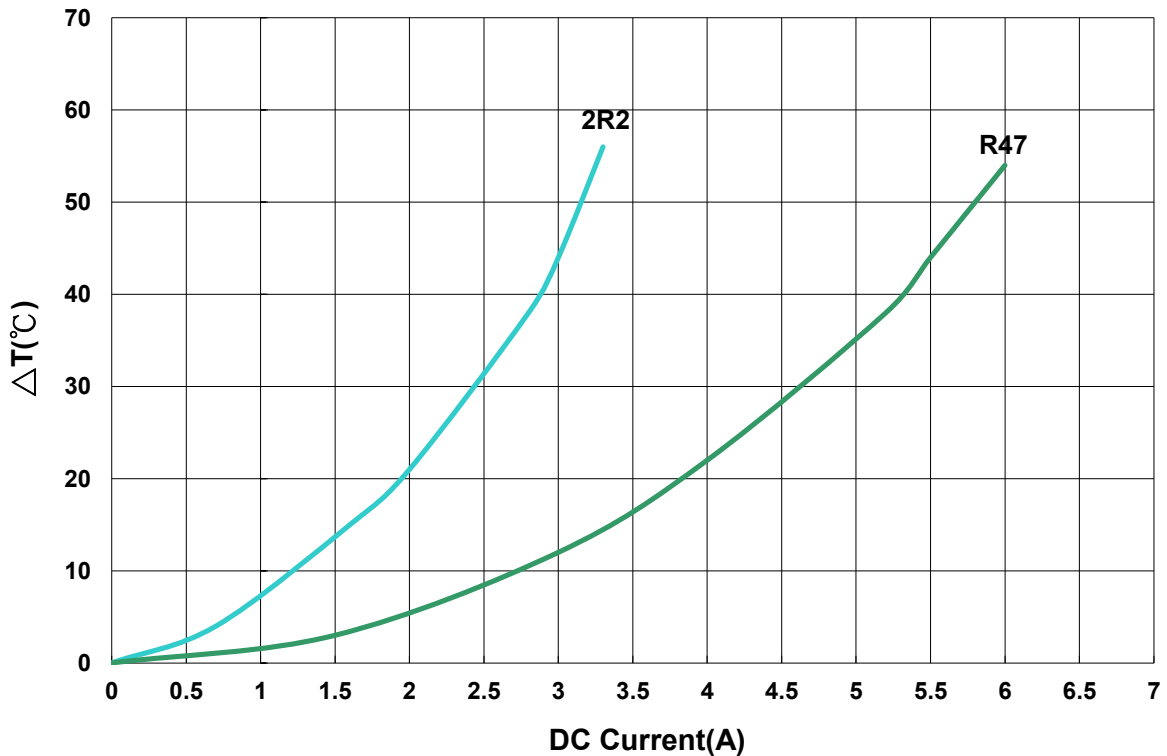
AWVH00404030 Type

■ Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

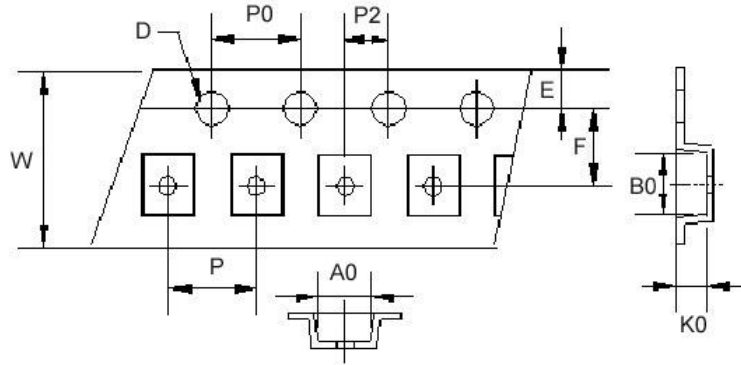


Power Inductor AWWH Series

**Automotive
AEC-Q200**

■ Packaging

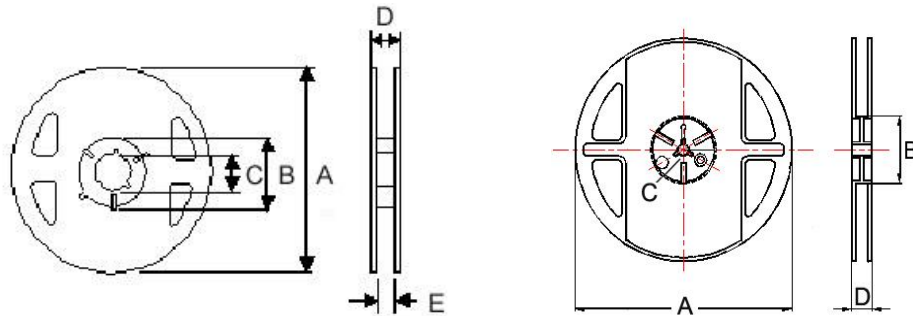
Tape Dimensions



Reel Dimensions

Figure 1

Figure 2



TYPE	Fig	Tape Dimensions										Reel Dimensions					Quantity PCS / Reel
		A0	B0	K0	D	E	F	W	P	P0	P2	A	B	C	D	E	
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

Power Inductor APMI Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



Power Circuit Shield Assembly Ferrite

Part Numbering

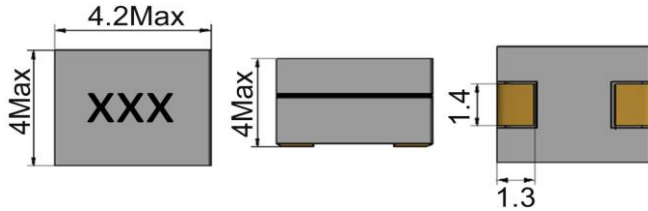
A	PMI	00	040440	1R0	M	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			040440 4.2x4x4	75N 0.075	K ±10%	00
			040440-0H 4x4x4	R10 0.10	L ±15%	0E
			070750 7x7x4.96		M ±20%	0F
			090680 9.4x6.2x8		T ±30%	0H
			100750 10.2x7x4.96			0J
			100868 10.2x7.8x6.8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

Power Inductor APMI Series

**Automotive
AEC-Q200**

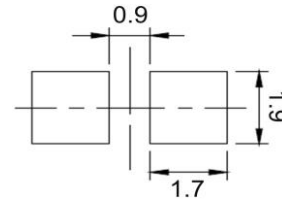
APMI00040440 Type

Dimensions



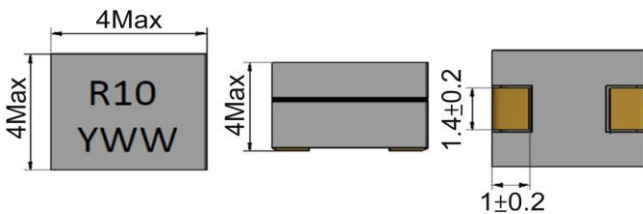
unit:mm

Recommended Land Pattern

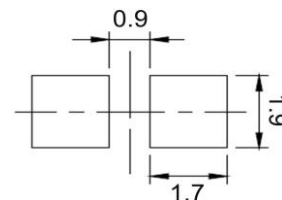


unit:mm

APMI00040440-0H Type



unit:mm



unit:mm

Electrical Characteristics

Part No.	Inductance (μ H)	Test Freq.	RDC (m Ω) \pm 9%	(A)Typ			I _{rms} (A)Typ	Tolerance (\pm %)	Marking
				Isat 1	Isat 2	Isat 3			
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= \pm 15% / M= \pm 20% / T= \pm 30%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat 1 : Based on Inductance change drop (Δ L/Lo : drop 20% Typ.)@ ambient temp. 25°C
- Isat 2 : Based on Inductance change drop (Δ L/Lo : drop 20% Typ.)@ ambient temp. 75°C
- Isat 3 : Based on Inductance change drop (Δ L/Lo : drop 20% Typ.)@ ambient temp. 100°C
- I_{rms} for a 40°C temprature rise from 25°C ambient with current
- Rated DC Current: The less value which is Isat 1 or I_{rms}
- Measure Equipment:
 - L: HP4284A PRECISION LCR METER (or equivalent)
 - RDC: CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
 - Isat:WK3255BQ+ WK3265B (or equivalent)
 - I_{rms}: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APMI Series

**Automotive
AEC-Q200**

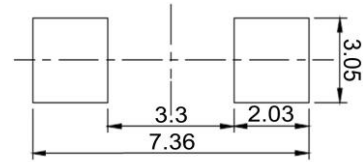
APMI00070750 Type

■ 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%

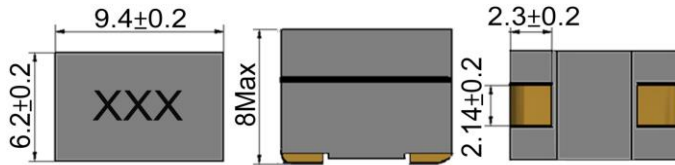
- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat : Based on Inductance change drop ($\Delta L/L_0$: drop 20% Typ.)@ ambient temp. 25°C
- Irms for a 40°C temprature rise from 25°C ambient with current
- Rated DC Current: The less value which is Isat or Irms
- Measure 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)

Power Inductor APMI Series

**Automotive
AEC-Q200**

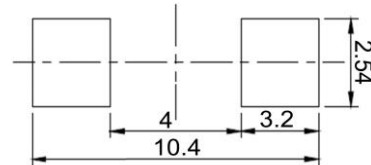
APMI00090680 Type

■ 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%

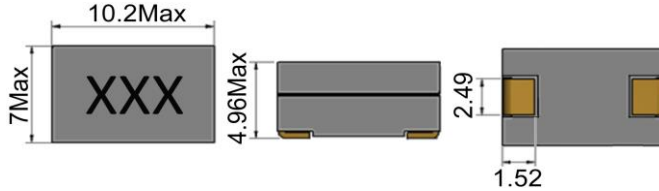
- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat : Based on Inductance change drop ($\Delta L/L_0$: drop 20% Typ.)@ ambient temp. 25°C
- Irms for a 40°C temprature rise from 25°C ambient with current
- Rated DC Current: The less value which is Isat or Irms
- Measure 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)

Power Inductor APMI Series

**Automotive
AEC-Q200**

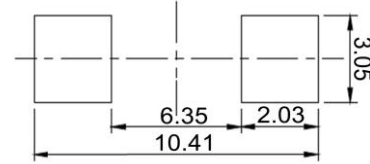
APMI00100750 Type

■ 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%

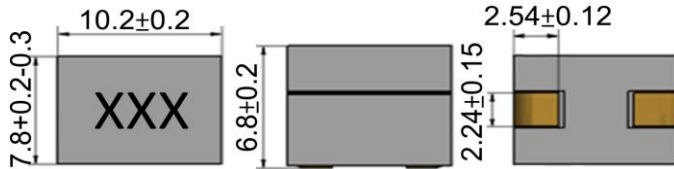
- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat : Based on Inductance change drop ($\Delta L/L_0$: drop 20% Typ.)@ ambient temp. 25°C
- Irms for a 40°C temprature rise from 25°C ambient with current
- Rated DC Current: The less value which is Isat or Irms
- Measure 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)

Power Inductor APMI Series

**Automotive
AEC-Q200**

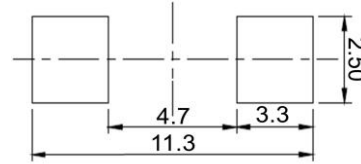
APMI00100868 Type

■ 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%

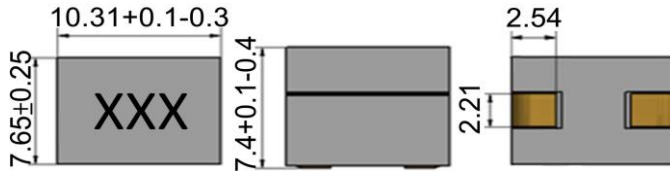
- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat : Based on Inductance change drop ($\Delta L/L_0$: drop 20% Typ.)@ ambient temp. 25°C
- Irms for a 40°C temprature rise from 25°C ambient with current
- Rated DC Current: The less value which is Isat or Irms
- Measure Equipment:
 - L: HP4284A PRECISION LCR METER (or equivalent)
 - RDC: CHROMA MODEL 16502 MILLIOHMETER (or equivalent)
 - Isat:WK3255BQ+ WK3265B (or equivalent)
 - Irms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APMI Series

**Automotive
AEC-Q200**

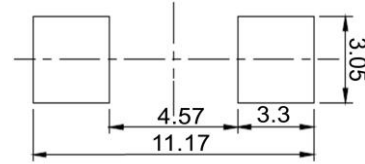
APMI00100874 Type

■ 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%

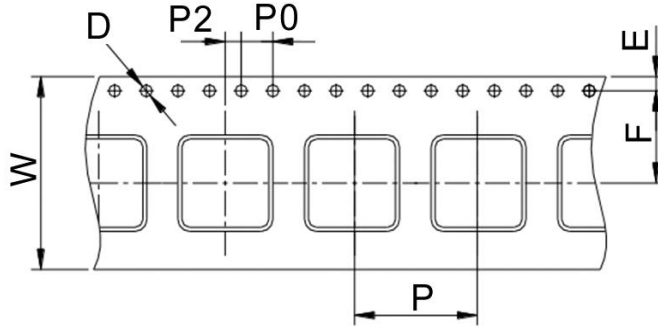
- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat : Based on Inductance change drop ($\Delta L/L_0$: drop 20% Typ.)@ ambient temp. 25°C
- Irms for a 40°C temprature rise from 25°C ambient with current
- Rated DC Current: The less value which is Isat or Irms
- Measure 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)

Power Inductor APMI Series

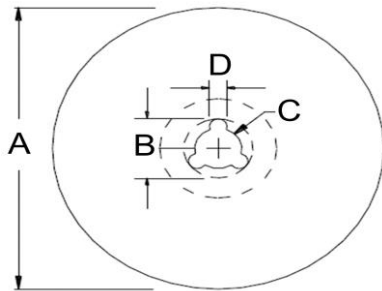
**Automotive
AEC-Q200**

■ Packaging

Tape Dimensions



Reel Dimensions



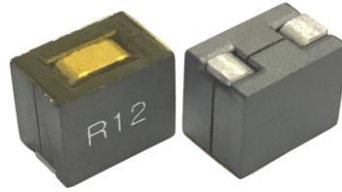
Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity PCS / REEL
	W	D	E	F	P	P0	P2	A	B	C	D	
APMI00040440	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2000
APMI00040440-OH	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

Power Inductor APMV Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



Power
Circuit

Shield

Assembly

Ferrite

Part Numbering

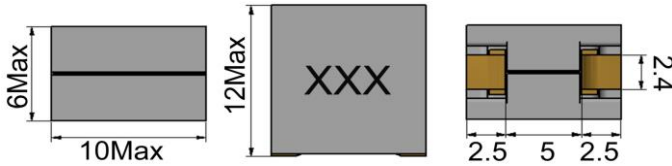
A	PMV	00	100612	1R0	M	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			100612 10x6x12	R10 0.1	K ±10%	0E
			110812 10.7x7.5x12	R18 0.18	L ±15%	
				R32 0.32	M ±20%	

Power Inductor APMV Series

**Automotive
AEC-Q200**

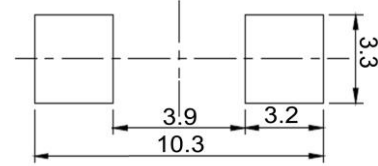
APMV00100612 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)	(A)Typ				Irms (A)Typ	Tolerance (±%)	Marking
				Isat 1	Isat 2	Isat 3	Isat 4			
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%

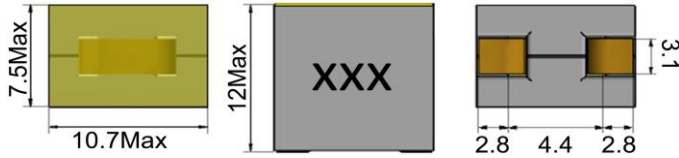
- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat 1 : Based on Inductance change drop ($\Delta L/L_0$: drop 20% Typ.)@ ambient temp. 25°C
- Isat 2 : Based on Inductance change drop ($\Delta L/L_0$: drop 20% Typ.)@ ambient temp. 75°C
- Isat 3 : Based on Inductance change drop ($\Delta L/L_0$: drop 20% Typ.)@ ambient temp. 100°C
- Isat 4 : Based on Inductance change drop ($\Delta L/L_0$: drop 20% Typ.)@ ambient temp. 125°C
- Irms for a 40°C temprature rise from 25°C ambient with current
- Rated DC Current: The less value which is Isat 1 or Irms
- 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)

Power Inductor APMV Series

**Automotive
AEC-Q200**

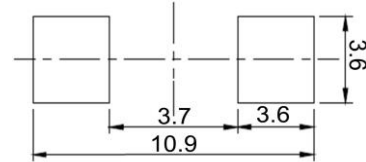
APMV00110812 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)	(A)Typ		I _{rms} (A)Typ	Tolerance (±%)	Marking
				Isat 1	Isat 2			
APMV00110812R15□00	0.15	100kHz,1V	0.15±5%	115	97	75	10,15,20	R15
APMV00110812R18□00	0.18	100kHz,1V	0.15±5%	85	72	75	10,15,20	R18
APMV00110812R22□00	0.22	100kHz,1V	0.15±5%	75	64	75	10,15,20	R22
APMV00110812R25□00	0.25	100kHz,1V	0.15±5%	66	56	75	10,15,20	R25
APMV00110812R27□00	0.27	100kHz,1V	0.15±5%	60	51	75	10,15,20	R27
APMV00110812R30□00	0.30	100kHz,1V	0.15±5%	55	45	75	10,15,20	R30
APMV00110812R32□00	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%

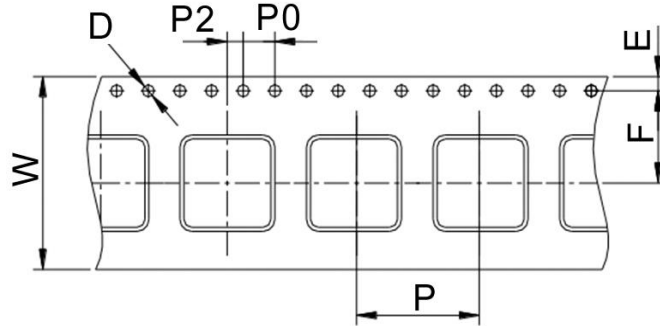
- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat 1 : Based on Inductance change drop ($\Delta L/L_0$: drop 20% Typ.)@ ambient temp. 25°C
- Isat 2 : Based on Inductance change drop ($\Delta L/L_0$: drop 20% Typ.)@ ambient temp. 100°C
- I_{rms} for a 40°C temprature rise from 25°C ambient with current
- Rated DC Current: The less value which is Isat 1 or I_{rms}
- Measure Equipment:
 - L: HP4284A PRECISION LCR METER (or equivalent)
 - RDC: CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
 - Isat:WK3255BQ+ WK3265B (or equivalent)
 - I_{rms}: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APMV Series

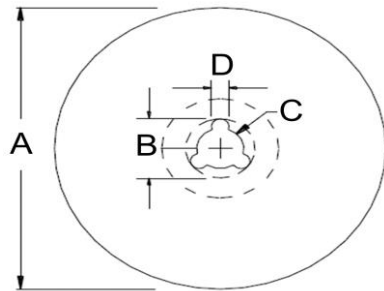
**Automotive
AEC-Q200**

■ Packaging

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity PCS / REEL
	W	D	E	F	P	P0	P2	A	B	C	D	
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

Power Inductor APCK Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



Part Numbering

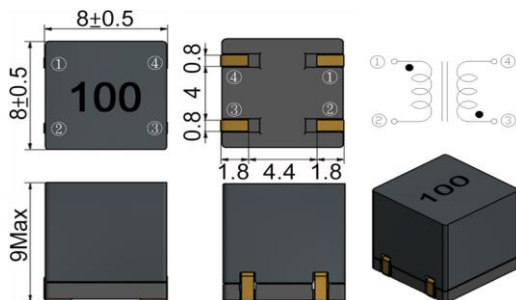
A	PCK	00	080809	100	M	70
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			080809 8x8x9	6R8 6.8	M ±20%	70
			100910 10x9x10	100 10		
			131111 12.8x10.5x10.7			

Power Inductor APCK Series

**Automotive
AEC-Q200**

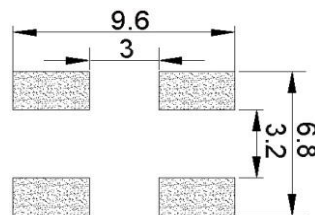
APCK00080809 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)Max	Isat (A)Max	Irms (A)Typ	Tolerance (±%)	Marking
APCK000808096R8M70	6.8	100kHz,0.25V	31	5.2	3.2	20	6R8
APCK00080809100M70	10	100kHz,0.25V	40	4.3	2.7	20	100
APCK00080809220M70	22	100kHz,0.25V	90	3	1.8	20	220

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

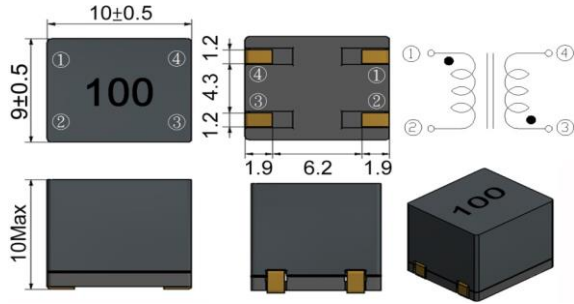
- Operating temperature range - 50°C ~ 150°C(Including self - temperature rise)
- Isat : Based on Inductance change drop ($\Delta L/L_0$: drop 25% Max.)@ ambient temp. 25°C
- Irms : Based on temprature rise (ΔT : 40°C Typ.)
- Temperature rise allowable current : A rise in temperature of core surface is within 40°C
- Rated DC Current : The less value which is Isat or Irms
- 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)

Power Inductor APCK Series

**Automotive
AEC-Q200**

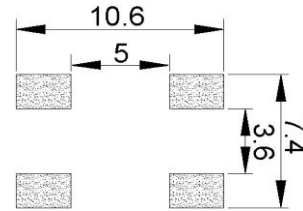
APCK00100910 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)Max	Isat (A)Max	Irms (A)Typ	Tolerance (±%)	Marking
APCK00100910100M70	10	100kHz,0.25V	22	5	3.9	20	100

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

1. Operating temperature range - 50°C ~ 150°C(Including self - temperature rise)
2. Isat : Based on Inductance change drop ($\Delta L/L_0$: drop 25% Max.)@ ambient temp. 25°C
3. Irms : Based on temprature rise (ΔT : 40°C Typ.)
4. Temperature rise allowable current : A rise in temperature of core surface is within 40°C
5. Rated DC Current : The less value which is Isat or Irms
6. Measure Equipment:

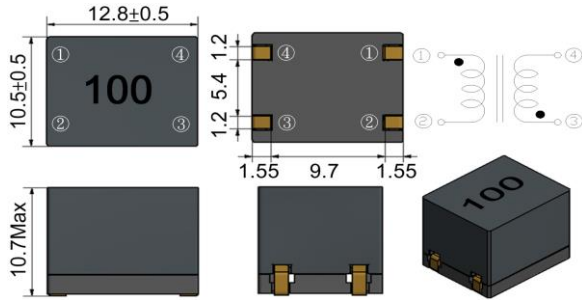
- L: HP4284A PRECISION LCR METER (or equivalent)
- RDC: CHROMA MODEL 16502 MILLIOHMETER (or equivalent)
- Isat: WK3255BQ+ WK3265B (or equivalent)
- Irms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APCK Series

**Automotive
AEC-Q200**

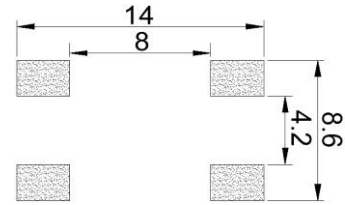
APCK00131111 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)Max	Isat (A)Max	Irms (A)Typ	Tolerance (±%)	Marking
APCK00131111100M70	10	100kHz,0.25V	18	7.1	4.2	20	100

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

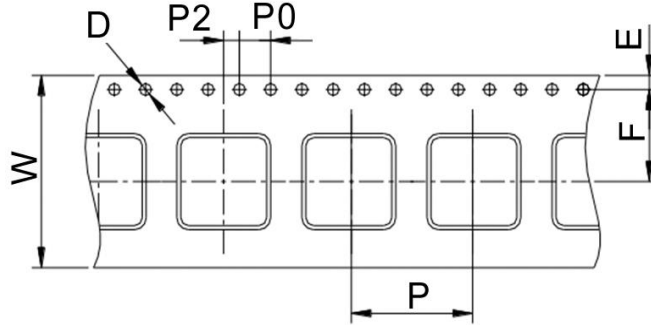
- Operating temperature range - 50°C ~ 150°C(Including self - temperature rise)
- Isat : Based on Inductance change drop ($\Delta L/L_0$: drop 25% Max.)@ ambient temp. 25°C
- Irms : Based on temperature rise (ΔT : 40°C Typ.)
- Temperature rise allowable current : A rise in temperature of core surface is within 40°C
- Rated DC Current : The less value which is Isat or Irms
- 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)

Power Inductor APCK Series

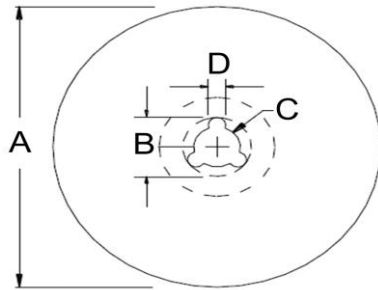
**Automotive
AEC-Q200**

■ Packaging

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity PCS / REEL
	W	D	E	F	P	P0	P2	A	B	C	D	
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	24	4	2	330	20	13	2	200

Power Inductor APSC Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



Part Numbering

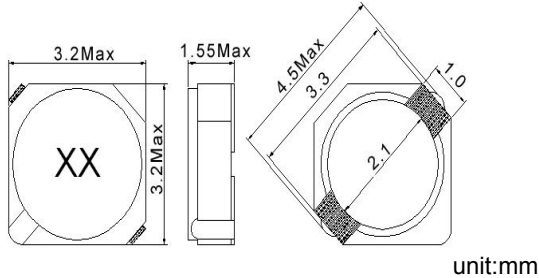
A	PSC	00	131380	100	M	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			030316 3.2x3.2x1.55	R47 0.5	M ±20%	
			040418 4.0x4.0x1.8	2R2 2.2	T ±30%	
			040430 4.0x4.0x3.0	101 100		
			050520 4.7x4.7x2.0			
			050530 4.7x4.7x3.0			
			050540 4.7x4.7x4.0			
			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			

Power Inductor APSC Series

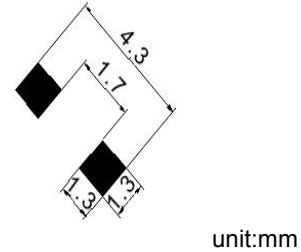
**Automotive
AEC-Q200**

APSC00030316 Type

■ Dimensions



■ Recommended Land Pattern



■ 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

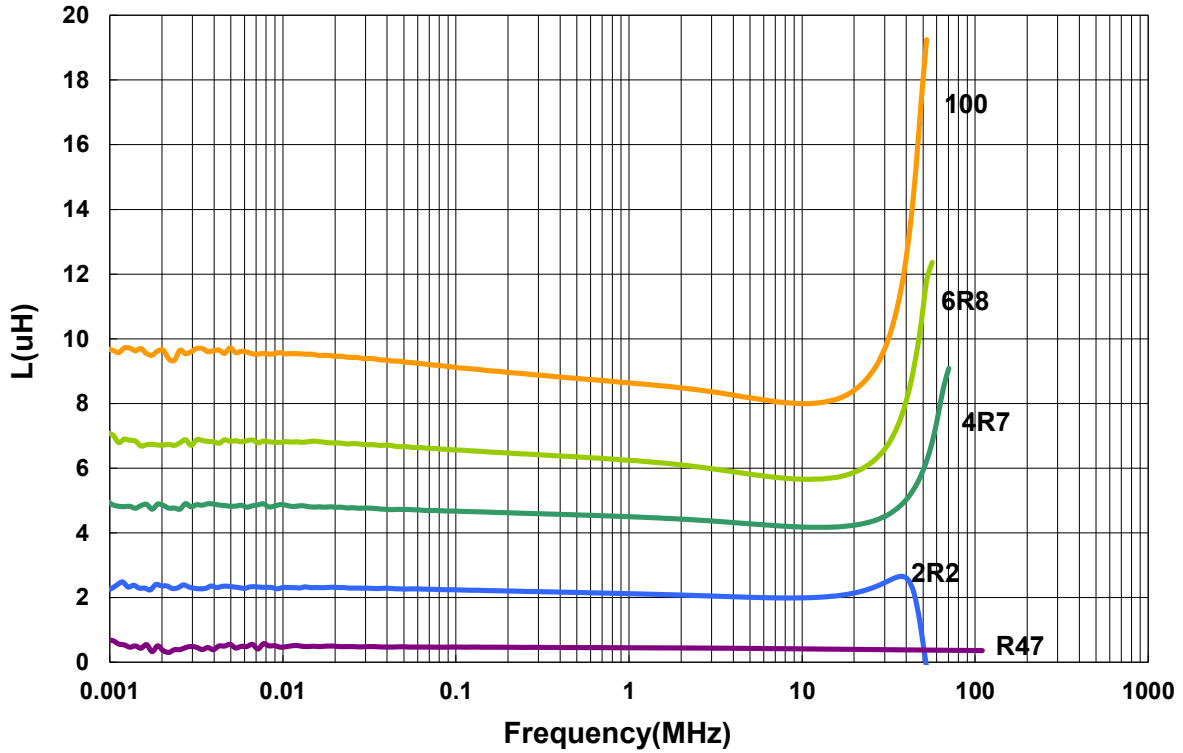
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

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

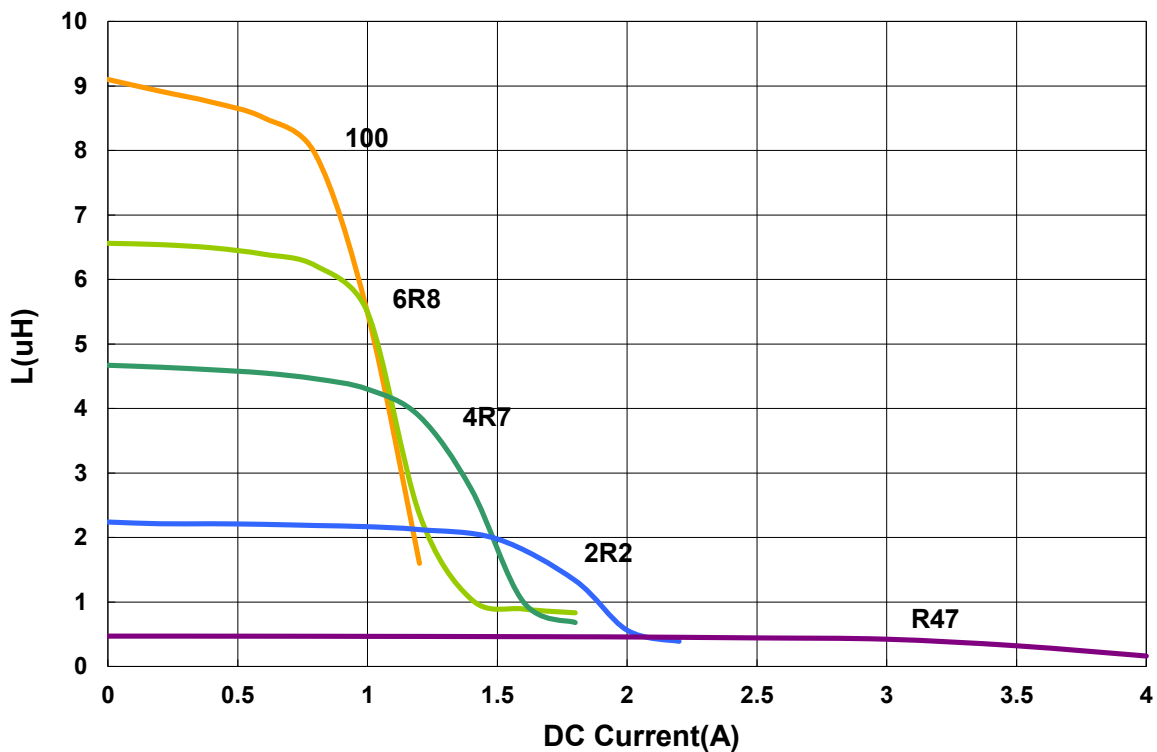
APSC00030316 Type

■ Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current

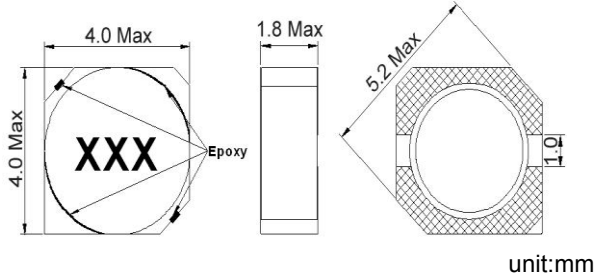


Power Inductor APSC Series

**Automotive
AEC-Q200**

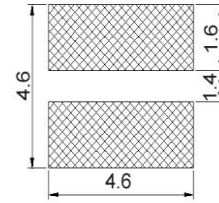
APSC00040418 Type

■ 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
APSC000404181R0□S0	1	100 kHz,0.1 V	0.04	1.35(1.7)	30	1R0
APSC000404181R5□S0	1.5	100 kHz,0.1 V	0.052	1.25(1.6)	30	1R5
APSC000404182R2□S0	2.2	100 kHz,0.1 V	0.072	1.0(1.3)	30	2R2
APSC000404183R3□S0	3.3	100 kHz,0.1 V	0.085	0.88(1.1)	30	3R3
APSC000404183R6□S0	3.6	100 kHz,0.1 V	0.09	0.74(0.93)	30	3R6
APSC000404184R7□S0	4.7	100 kHz,0.1 V	0.105	0.72(0.9)	30	4R7
APSC000404186R8□S0	6.8	100 kHz,0.1 V	0.17	0.61(0.74)	30	6R8
APSC00040418100□S0	10	100 kHz,0.1 V	0.21	0.55(0.6)	20,30	100
APSC00040418150□S0	15	100 kHz,0.1 V	0.295	0.45(0.52)	20,30	150
APSC00040418220□S0	22	100 kHz,0.1 V	0.43	0.32(0.4)	20,30	220
APSC00040418270□S0	27	100 kHz,0.1 V	0.62	0.3(0.37)	30	270
APSC00040418330□S0	33	100 kHz,0.1 V	0.675	0.26(0.32)	30	330
APSC00040418680□S0	68	100 kHz,0.1 V	1.7	0.16(0.21)	30	680

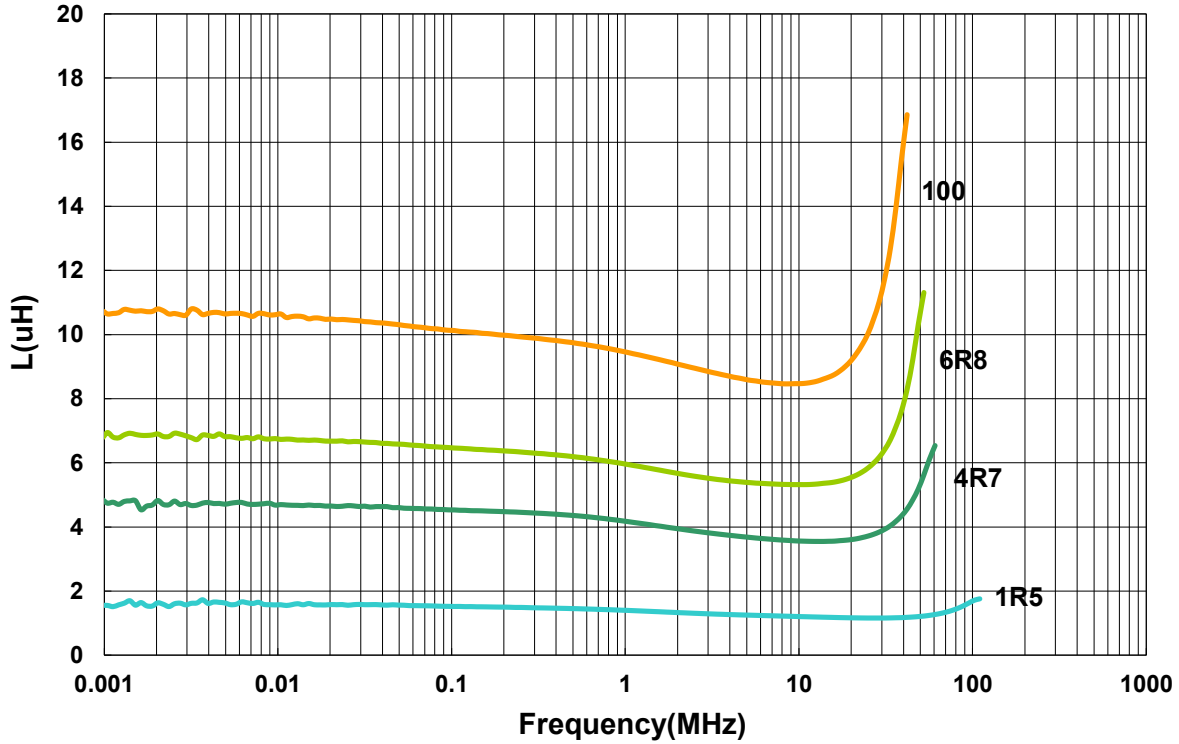
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

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

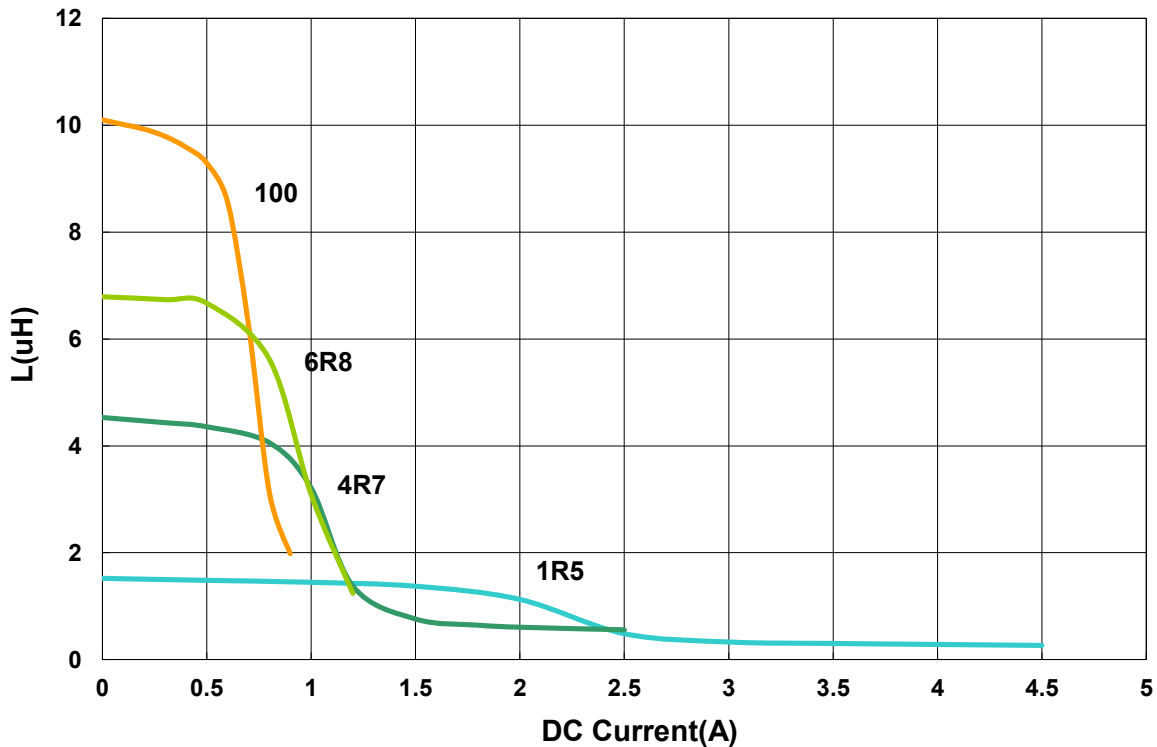
APSC00040418 Type

■ Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

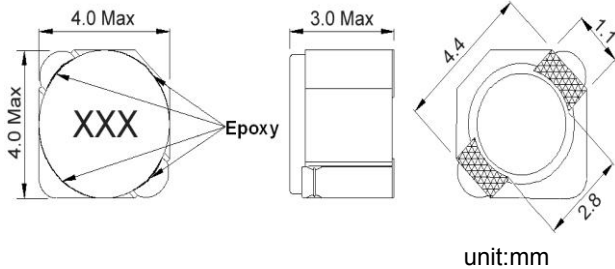


Power Inductor APSC Series

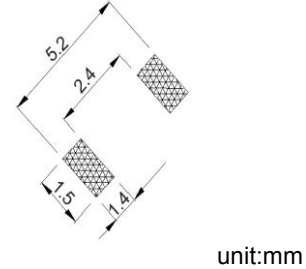
**Automotive
AEC-Q200**

APSC00040430 Type

■ Dimensions



■ Recommended Land Pattern



■ 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

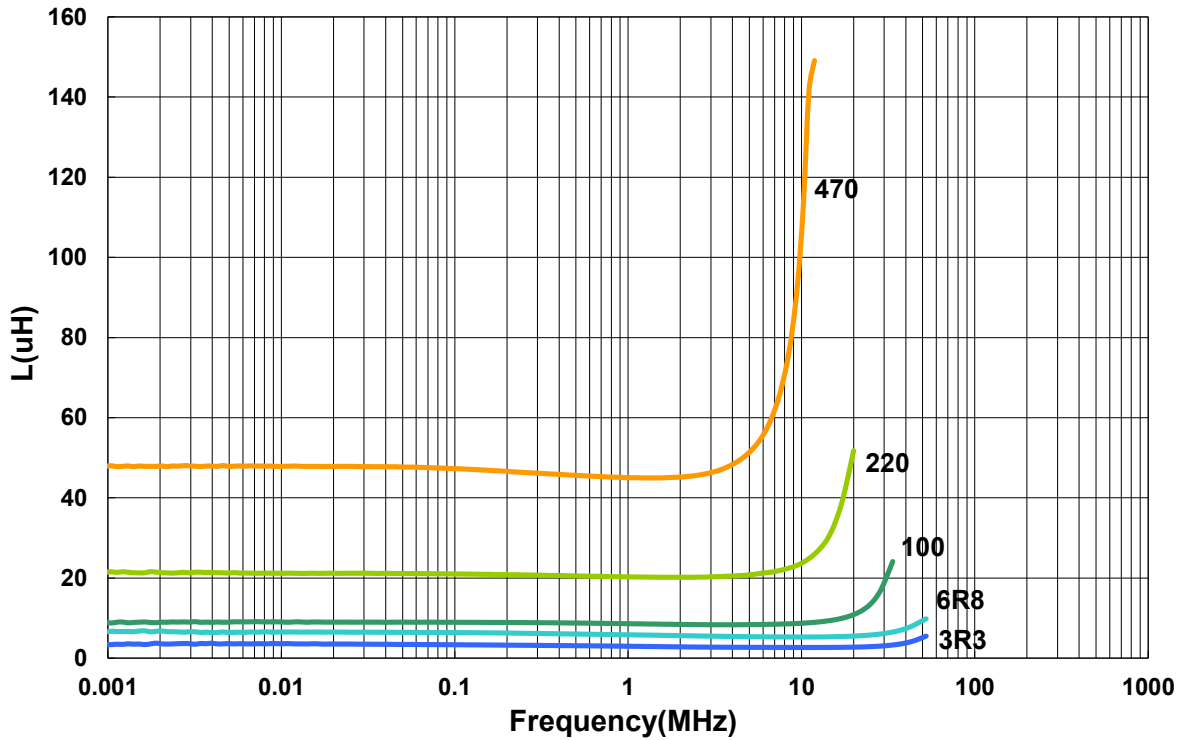
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

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

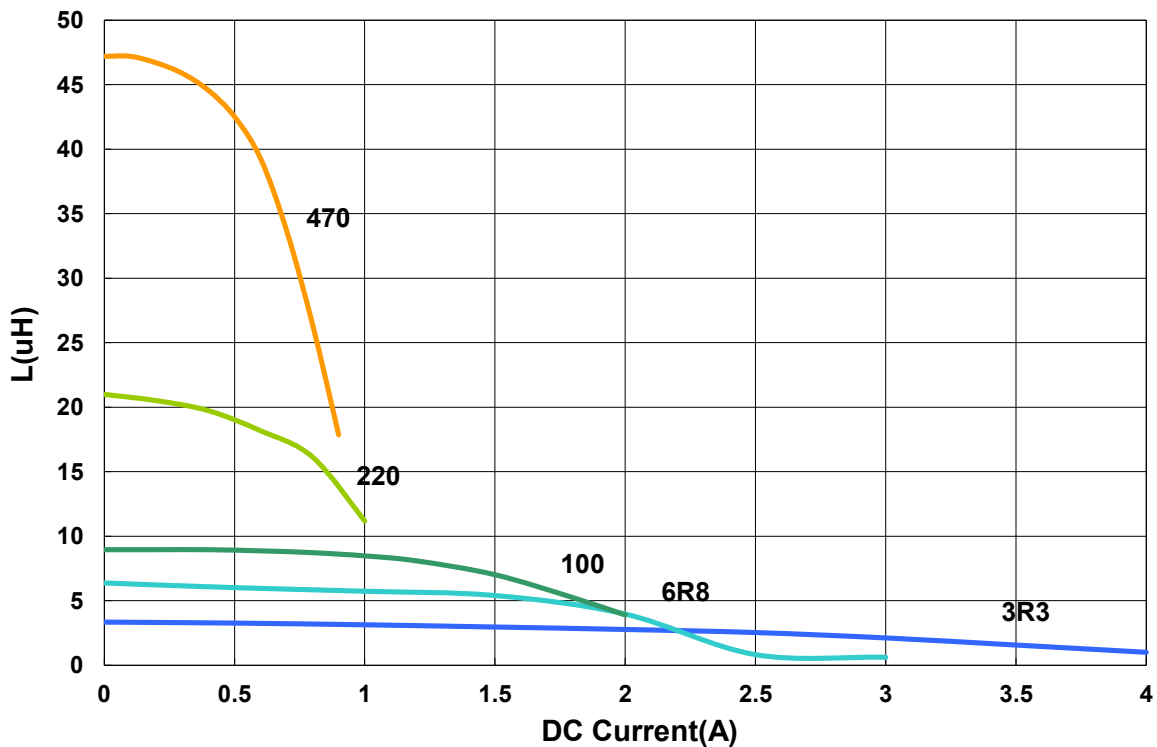
APSC00040430 Type

■ Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current

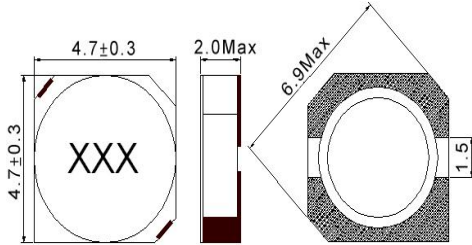


Power Inductor APSC Series

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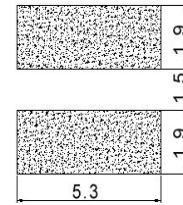
APSC00050520 Type

■ 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)	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 35% from its value without current
3. Measure Equipment:
 L: Agilent E4980 or HP4284A
 RDC: CH502BC
 Rate current: HP4284+42841A or WK3260B+WK3265B

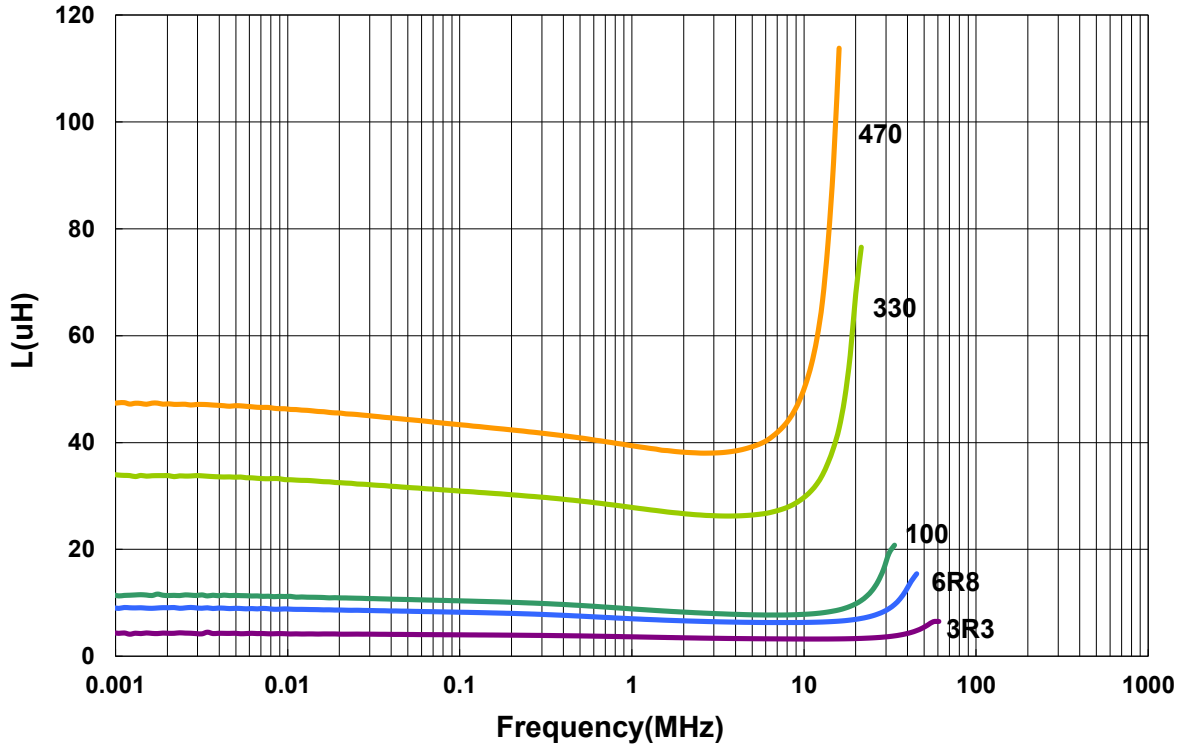
Power Inductor APSC Series

**Automotive
AEC-Q200**

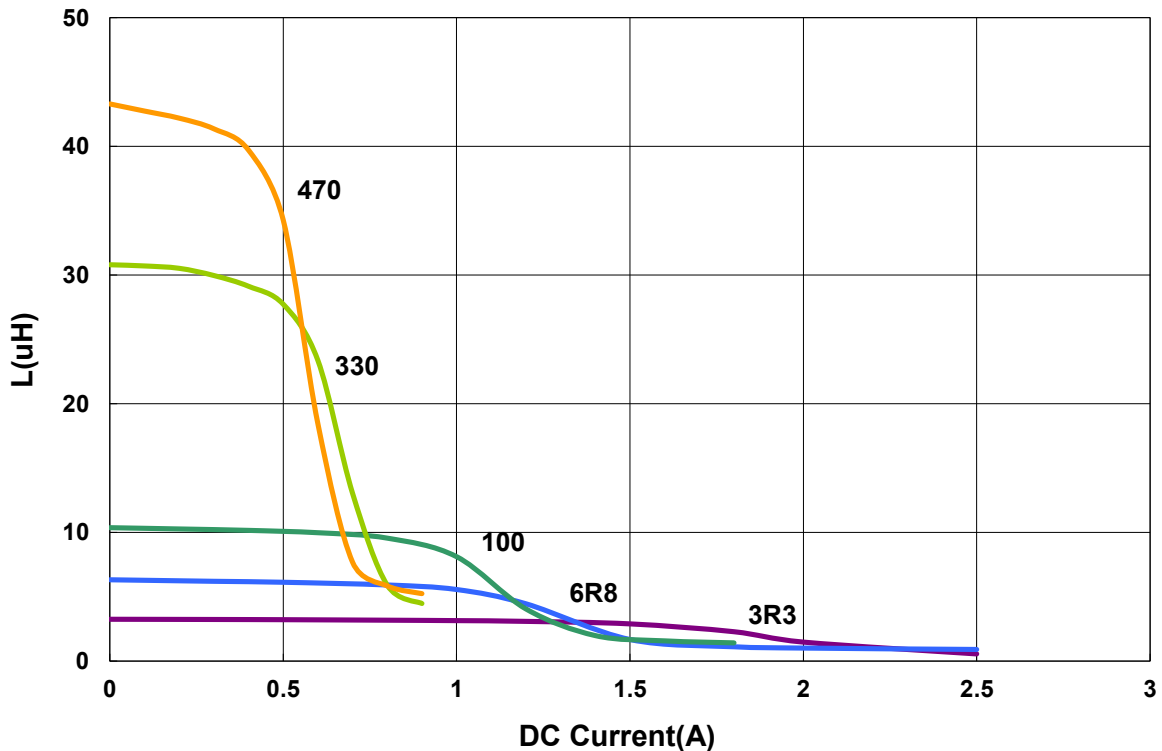
APSC00050520 Type

Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current

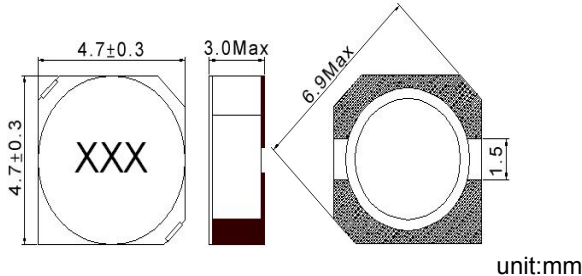


Power Inductor APSC Series

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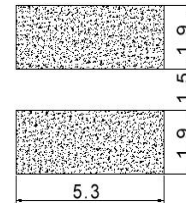
APSC00050530 Type

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)	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°C ~ 125°C(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

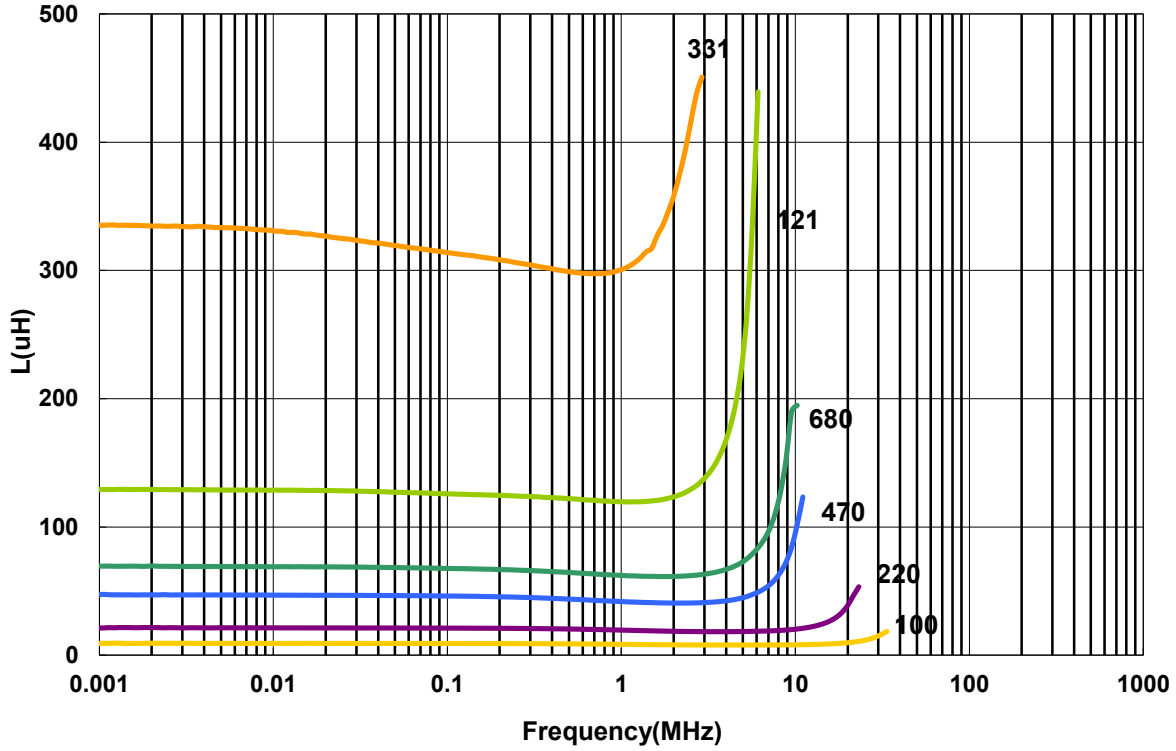
Power Inductor APSC Series

**Automotive
AEC-Q200**

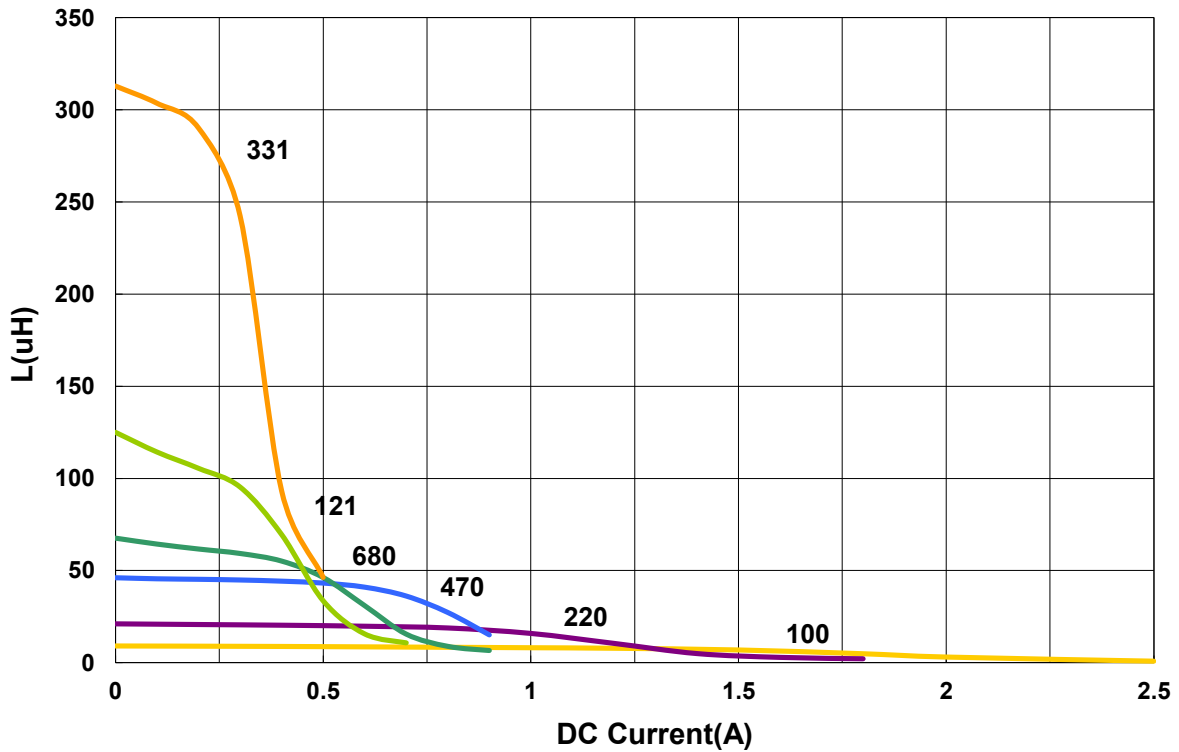
APSC00050530 Type

Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

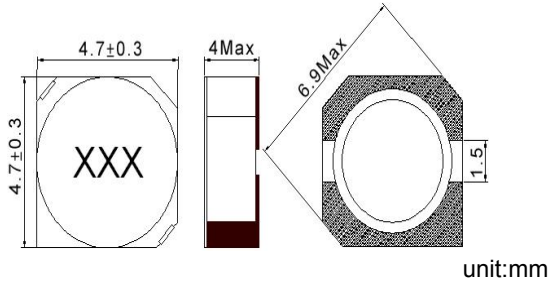


Power Inductor APSC Series

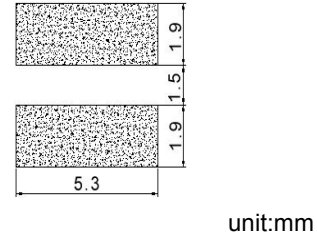
**Automotive
AEC-Q200**

APSC00050540 Type

■ Dimensions



■ Recommended Land Pattern



■ 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

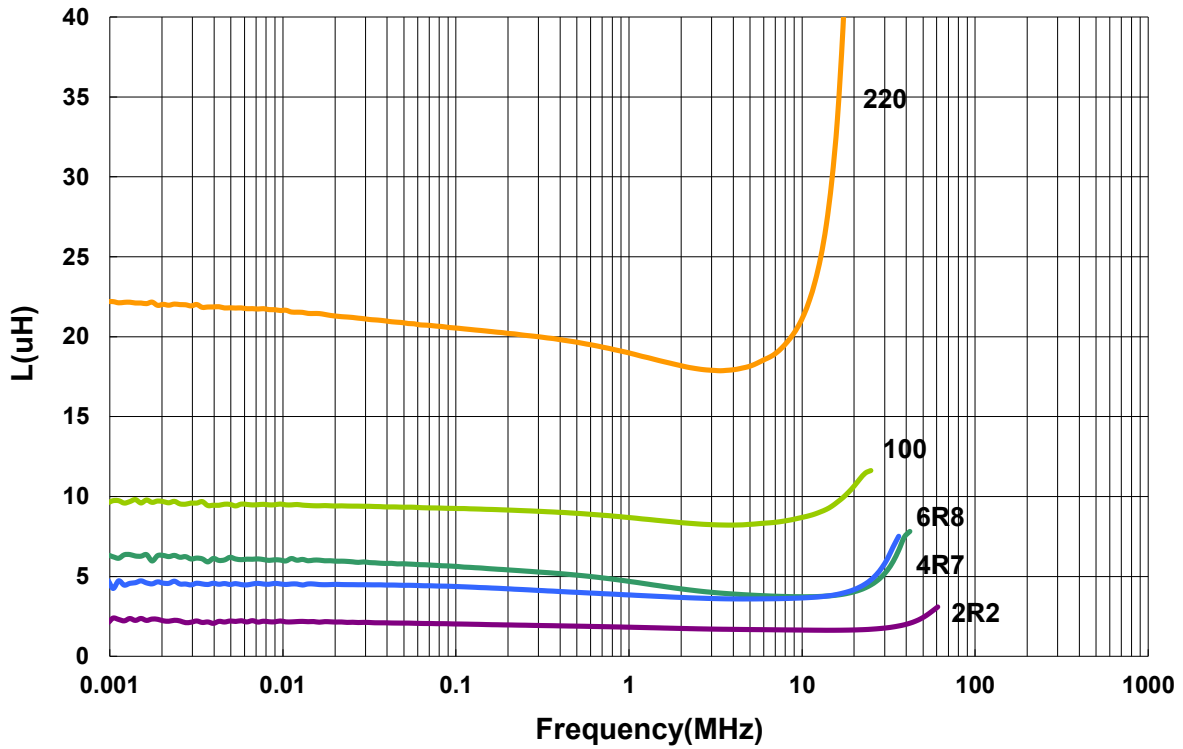
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

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

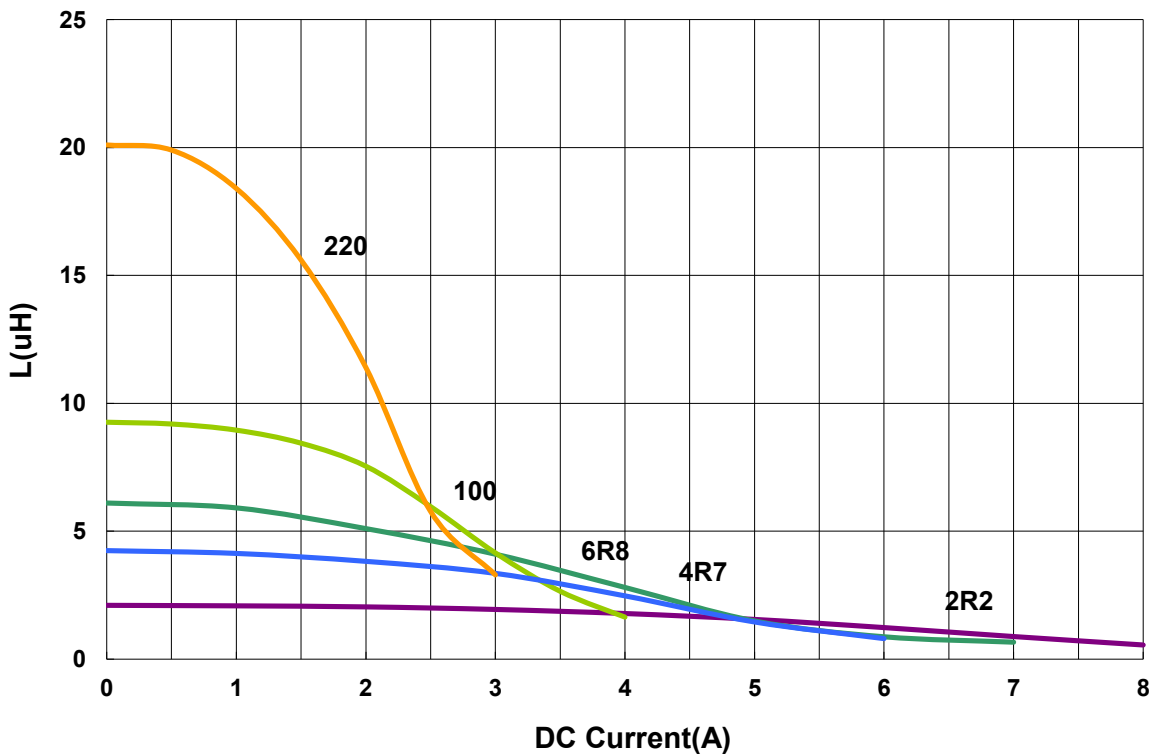
APSC00050540 Type

■ Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

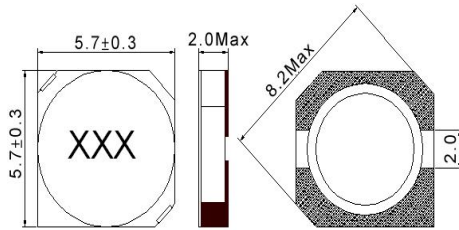


Power Inductor APSC Series

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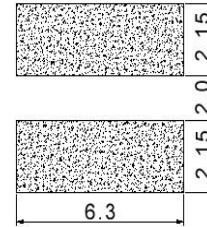
APSC00060620 Type

■ 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

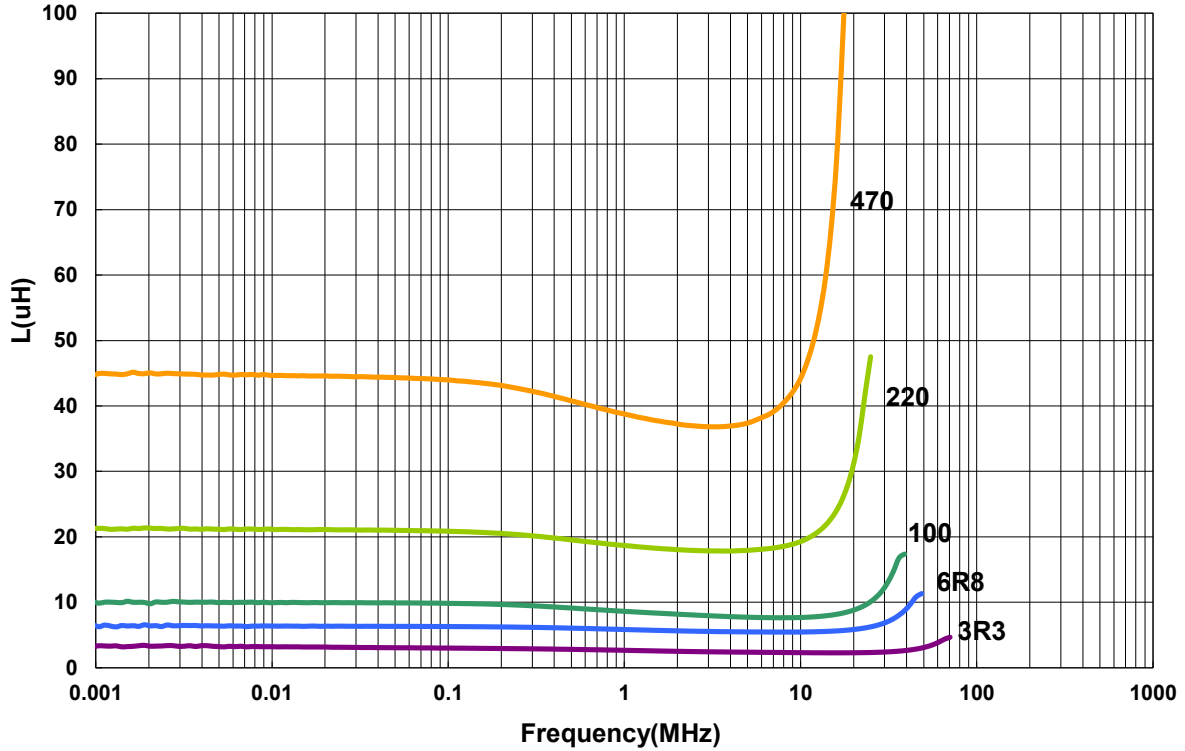
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

1. Operating temperature range - 40°C ~ 125°C(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

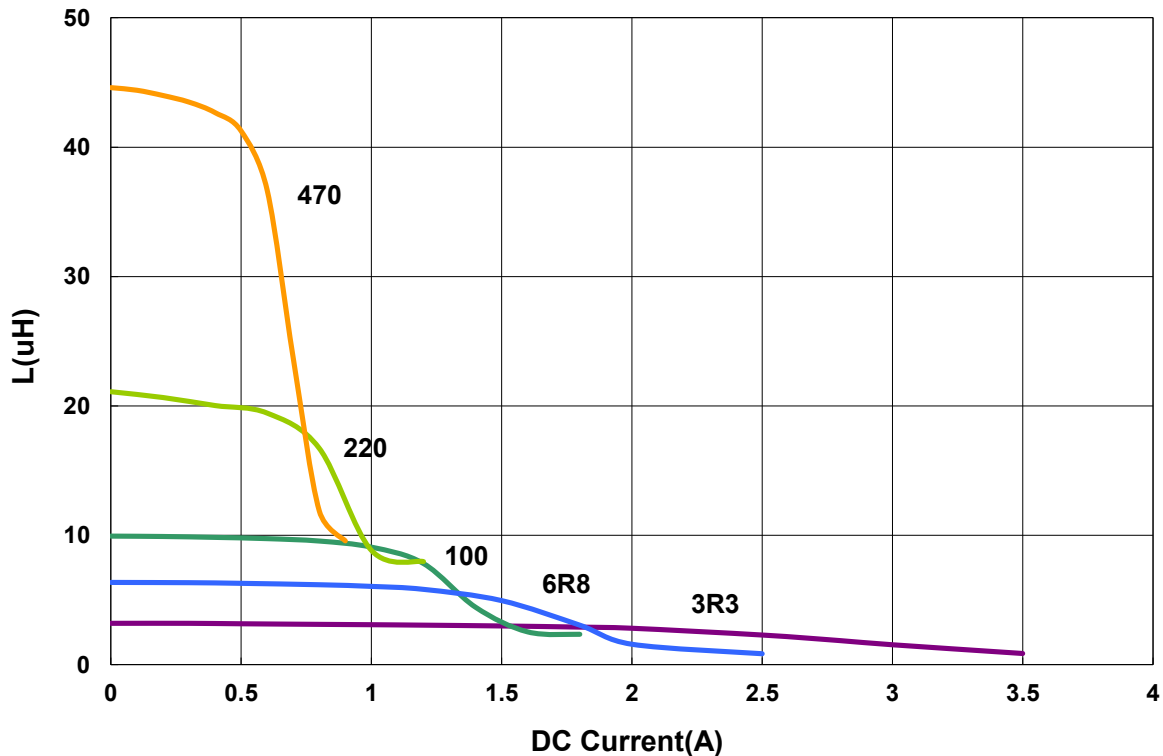
APSC00060620 Type

■ Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current

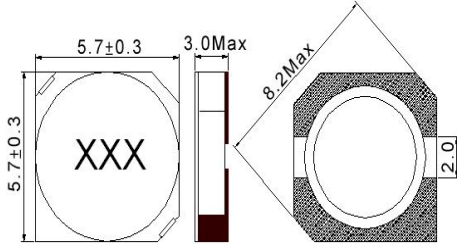


Power Inductor APSC Series

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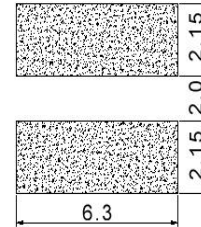
APSC00060630 Type

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%

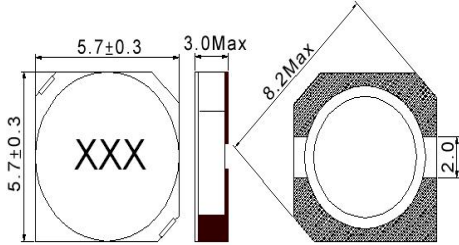
- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Measure Equipment:
L: Agilent E4980 or HP4284A
RDC: CH502BC
Rate current: HP4284+42841A or WK3260B+WK3265B

Power Inductor APSC Series

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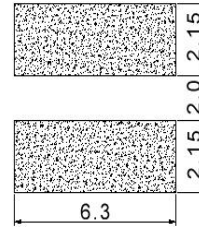
APSC00060630 Type

■ 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

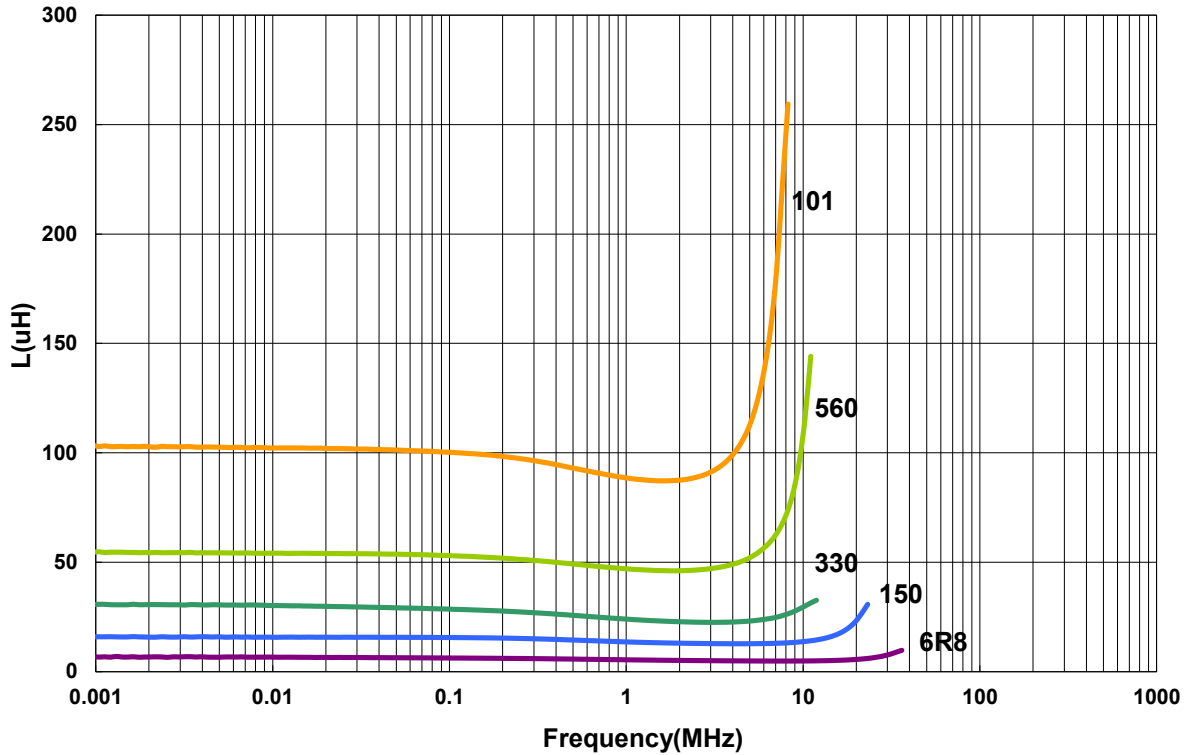
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

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

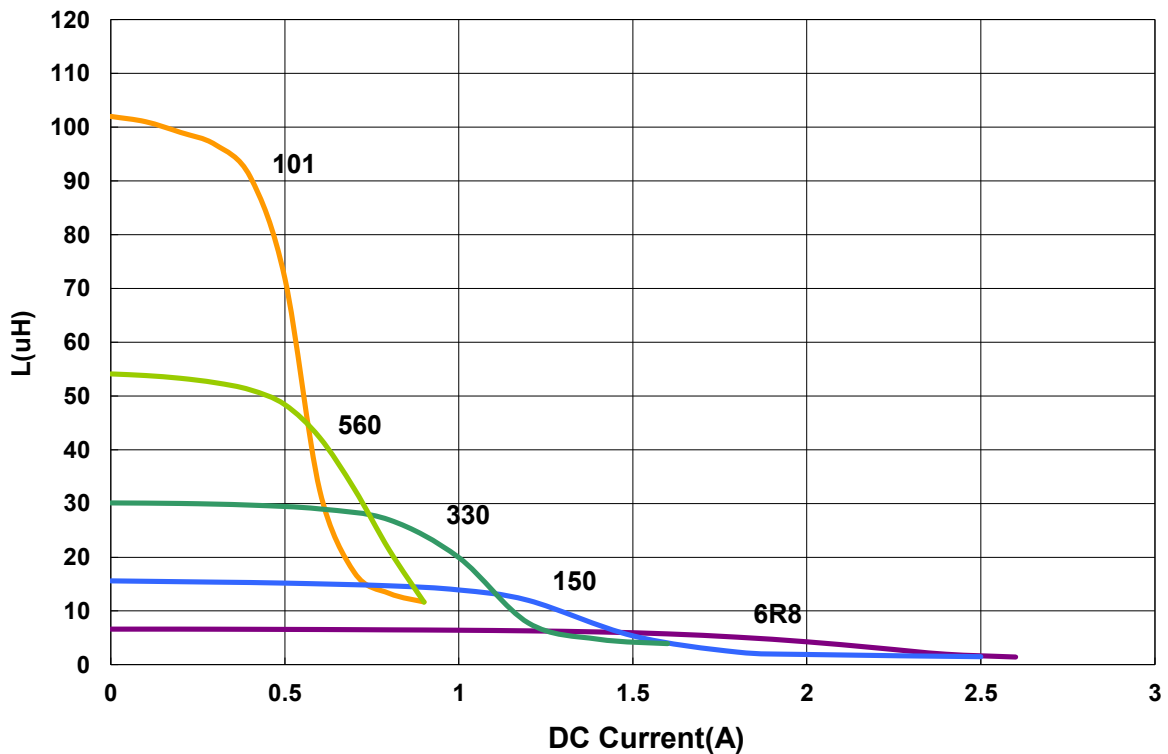
APSC00060630 Type

■ Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current

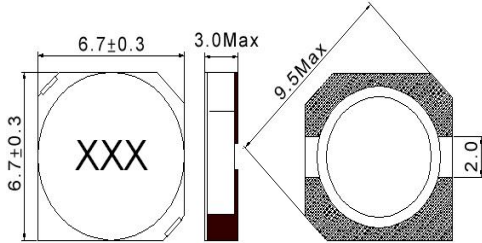


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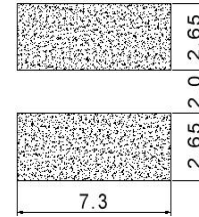
APSC00070730 Type

■ 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%

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

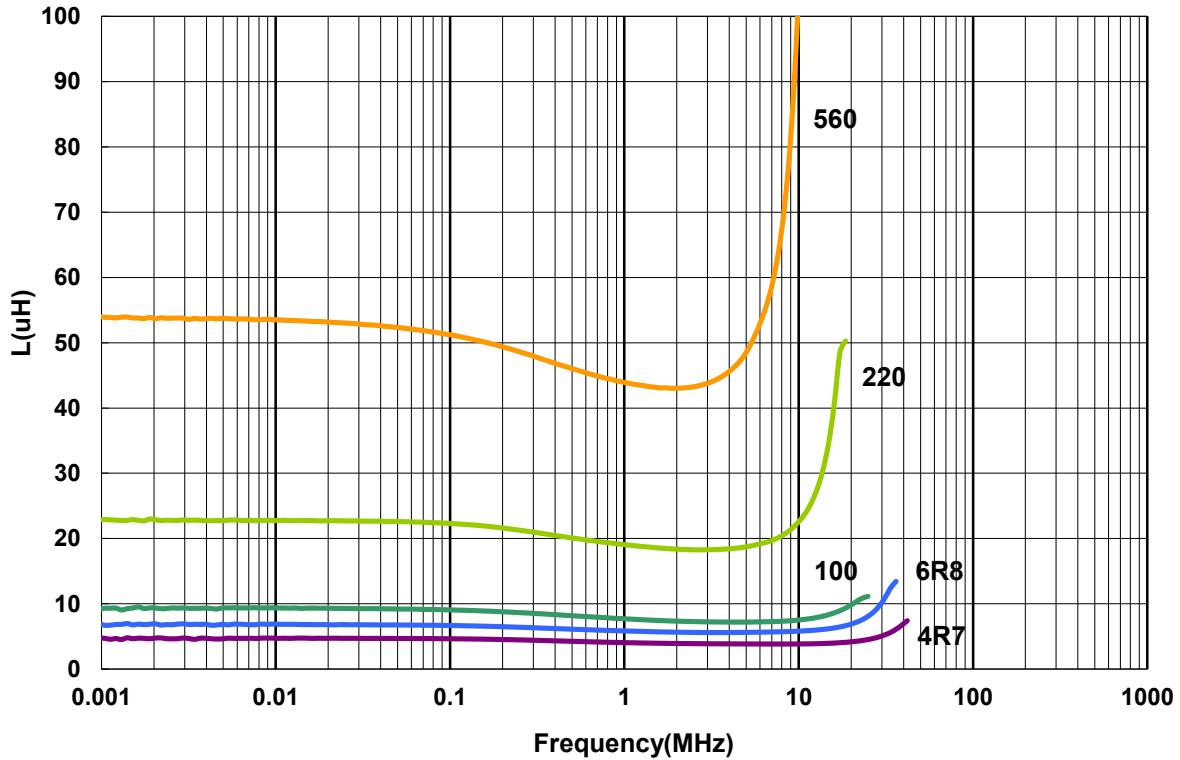
Power Inductor APSC Series

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AEC-Q200**

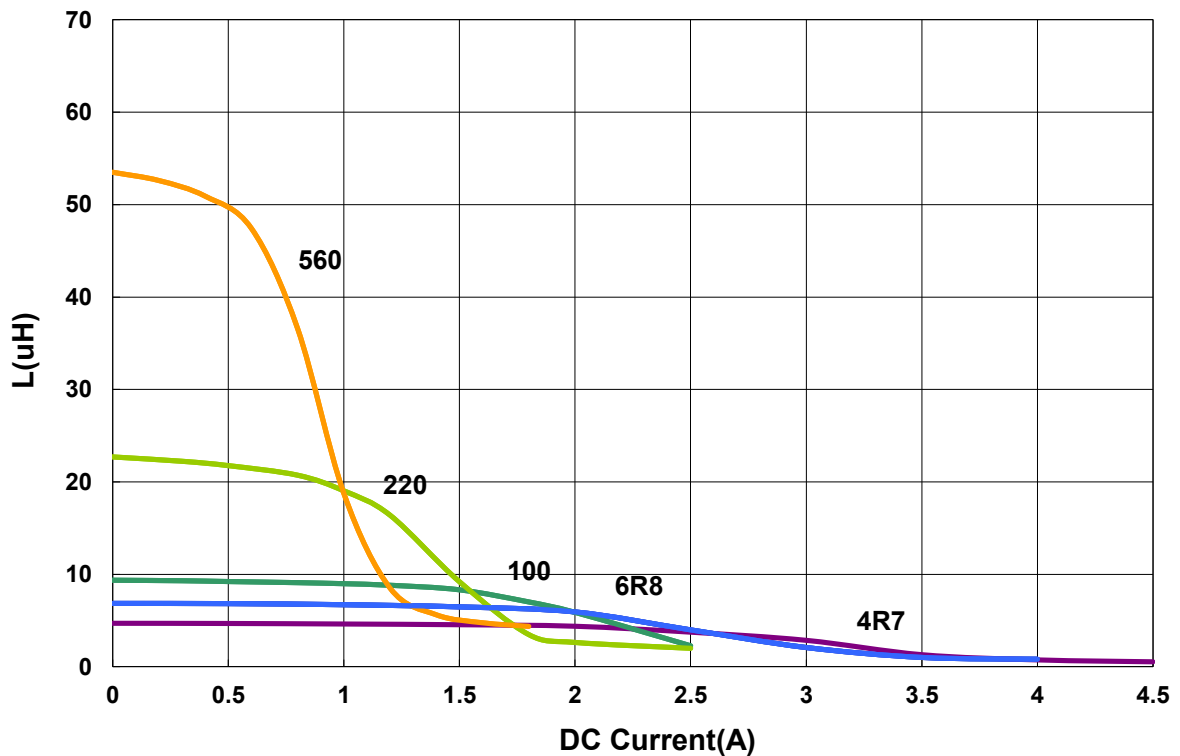
APSC00070730 Type

Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current



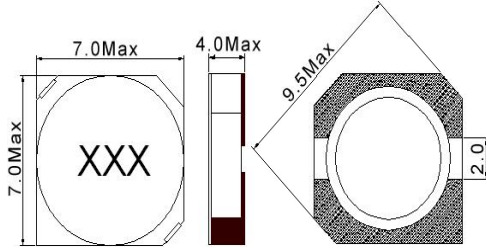
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

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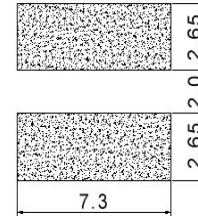
APSC00070740 Type

■ 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	0.020	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	0.75(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

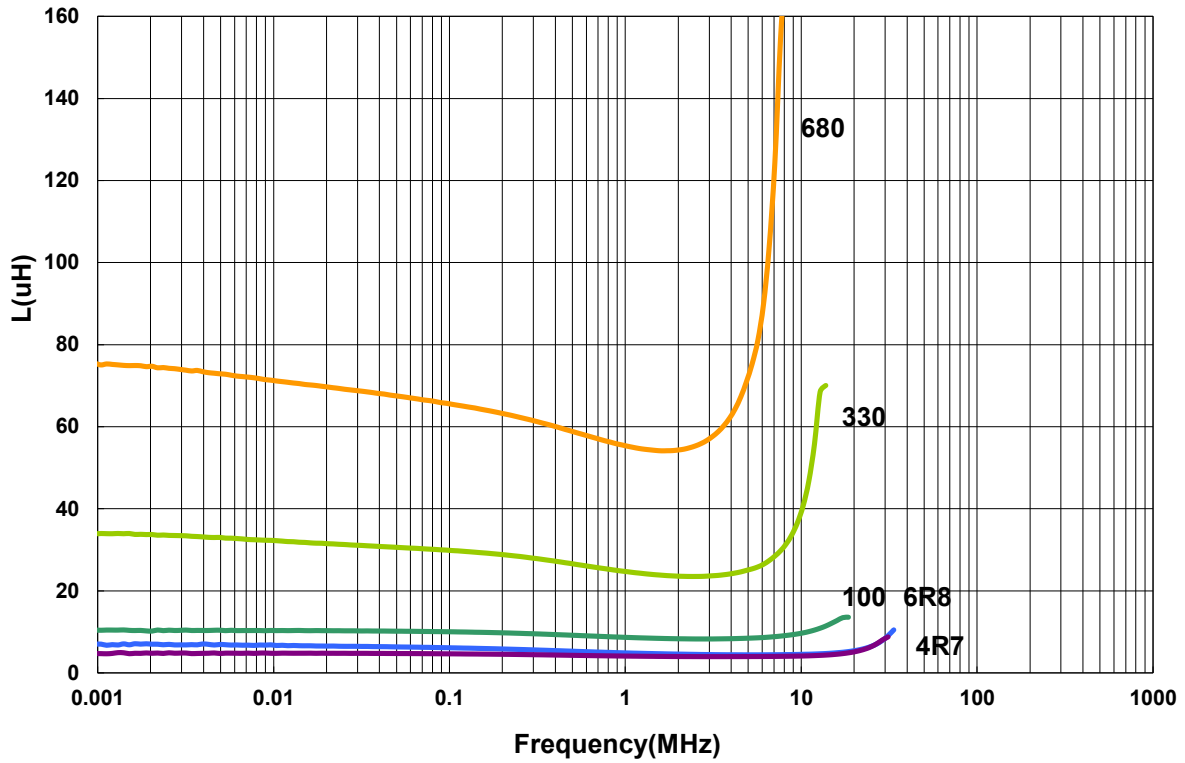
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

1. Operating temperature range - 40°C ~ 125°C(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

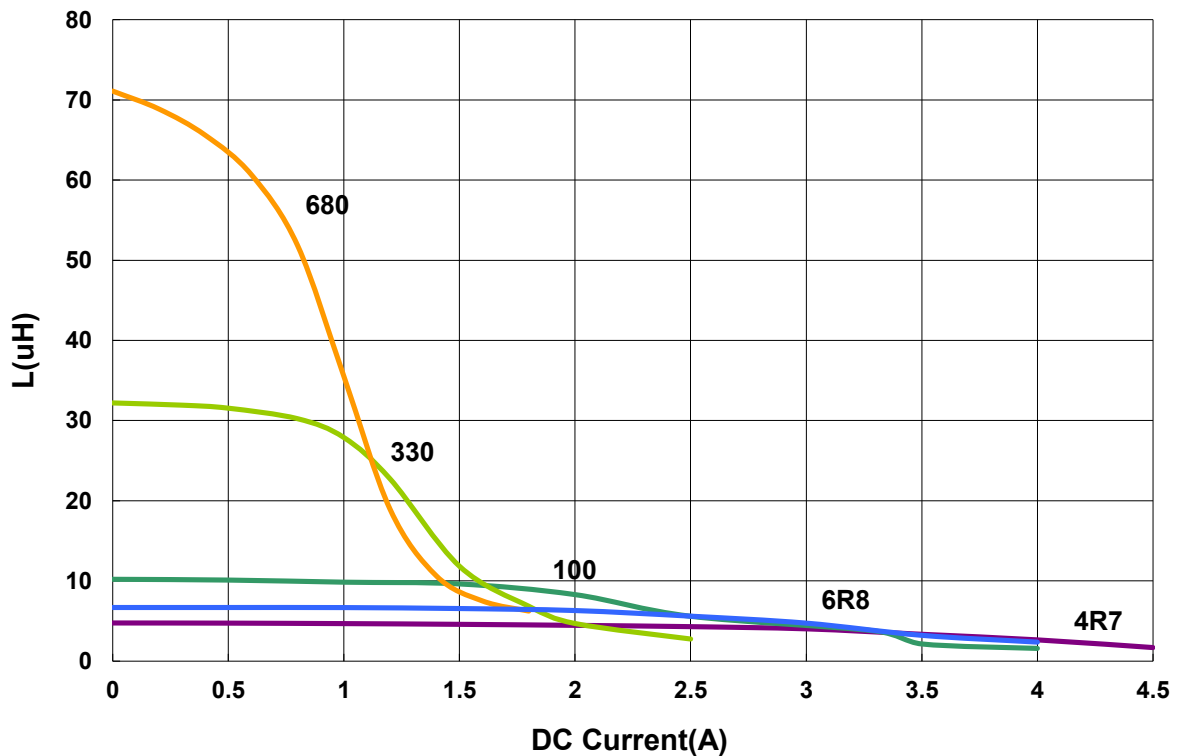
APSC00070740 Type

■ Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

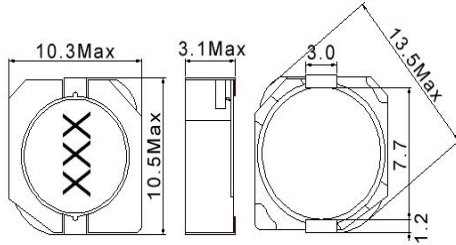


Power Inductor APSC Series

**Automotive
AEC-Q200**

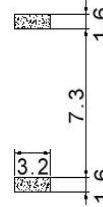
APSC00101131 Type

Dimensions



unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

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

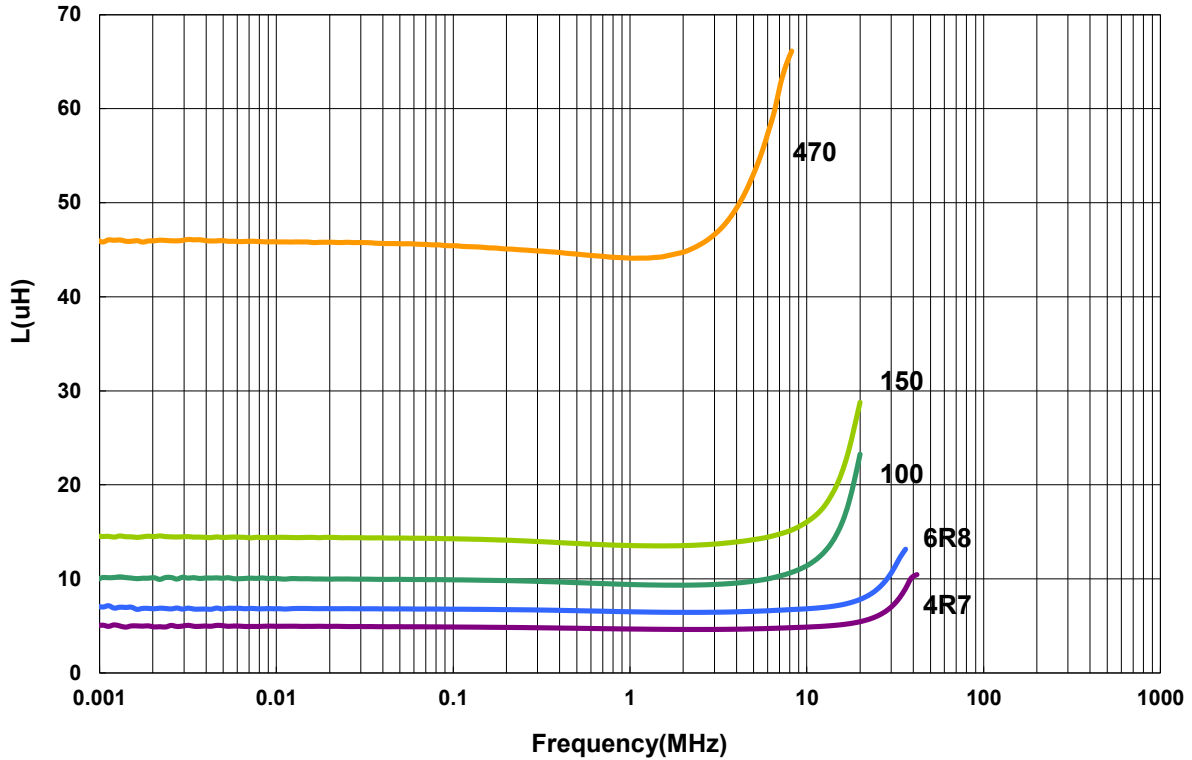
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

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

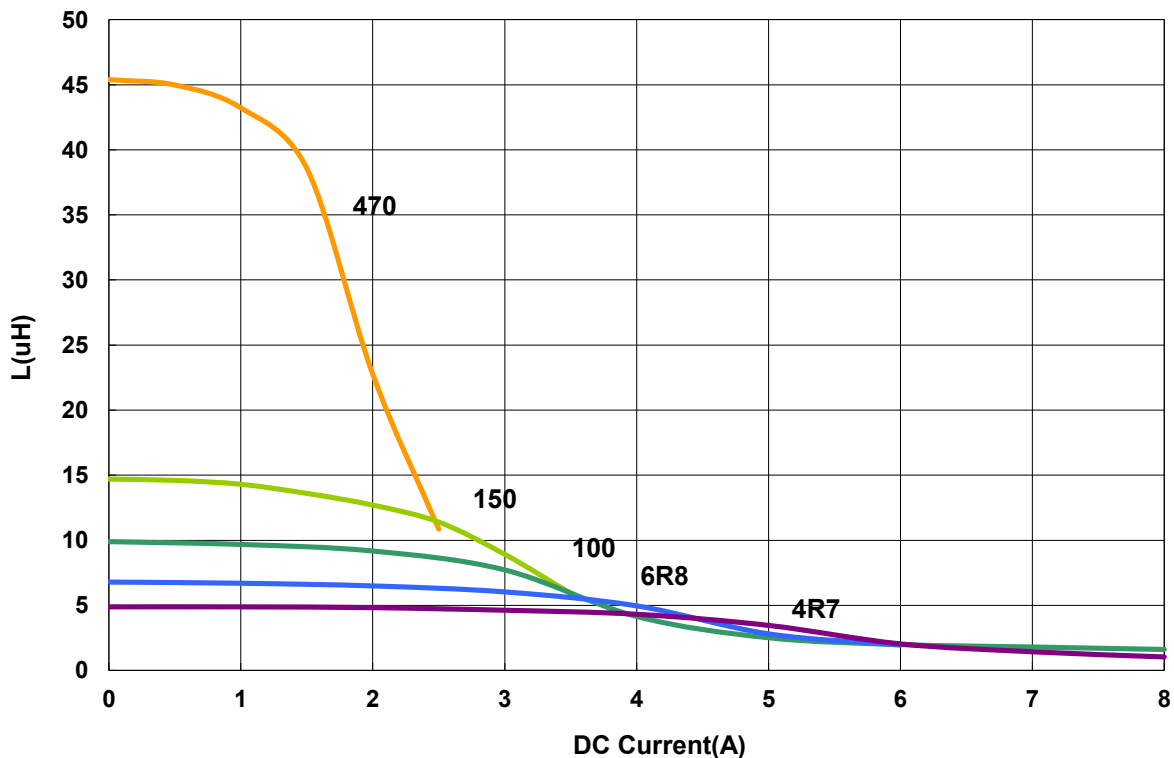
APSC00101131 Type

■ Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current

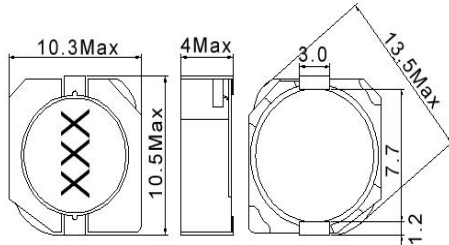


Power Inductor APSC Series

**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)	Tolerance (±%)	Marking
APSC001011403R8□00	3.8	100 kHz,1 V	0.015	6.8(8.5)	30	3R8
APSC001011404R7□00	4.7	100 kHz,1 V	0.02	5.8(7.3)	30	4R7
APSC001011405R2□00	5.2	100 kHz,1 V	0.024	5.8(7.3)	30	5R2
APSC001011405R6□00	5.6	100 kHz,1 V	0.027	5.0(6.5)	30	5R6
APSC001011406R8□00	6.8	100 kHz,1 V	0.031	5.0(6.5)	30	6R8
APSC001011407R0□00	7	100 kHz,1 V	0.031	4.8(5.9)	30	7R0
APSC001011408R2□00	8.2	100 kHz,1 V	0.036	4.5(5.8)	30	8R2
APSC00101140100□00	10	100 kHz,1 V	0.04	4.0(5.0)	20,30	100
APSC00101140150□00	15	100 kHz,1 V	0.055	3.4(4.3)	20,30	150
APSC00101140180□00	18	100 kHz,1 V	0.075	2.9(3.6)	20,30	180
APSC00101140220□00	22	100 kHz,1 V	0.08	2.6(3.3)	20,30	220
APSC00101140270□00	27	100 kHz,1 V	0.096	2.4(3.0)	20,30	270
APSC00101140330□00	33	100 kHz,1 V	0.098	2.3(2.9)	20,30	330
APSC00101140390□00	39	100 kHz,1 V	0.12	2.1(2.7)	20,30	390
APSC00101140470□00	47	100 kHz,1 V	0.144	1.8(2.5)	20,30	470
APSC00101140560□00	56	100 kHz,1 V	0.175	1.6(2.1)	20,30	560
APSC00101140680□00	68	100 kHz,1 V	0.204	1.4(1.9)	20,30	680
APSC00101140820□00	82	100 kHz,1 V	0.25	1.3(1.7)	20,30	820
APSC00101140101□00	100	100 kHz,1 V	0.304	1.0(1.6)	20,30	101
APSC00101140151□00	150	100 kHz,1 V	0.506	0.96(1.3)	20,30	151
APSC00101140221□00	220	100 kHz,1 V	0.69	0.8(1.0)	20,30	221
APSC00101140331□00	330	100 kHz,1 V	1.09	0.68(0.86)	20,30	331
APSC00101140471□00	470	100 kHz,1 V	1.6	0.6(0.75)	20,30	471
APSC00101140561□00	560	100 kHz,1 V	1.68	0.5(0.68)	20,30	561

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 35% from its value without current
3. Measure Equipment:
 L: Agilent E4980 or HP4284A
 RDC: CH502BC
 Isat: HP4284+42841A or WK3260B+WK3265B

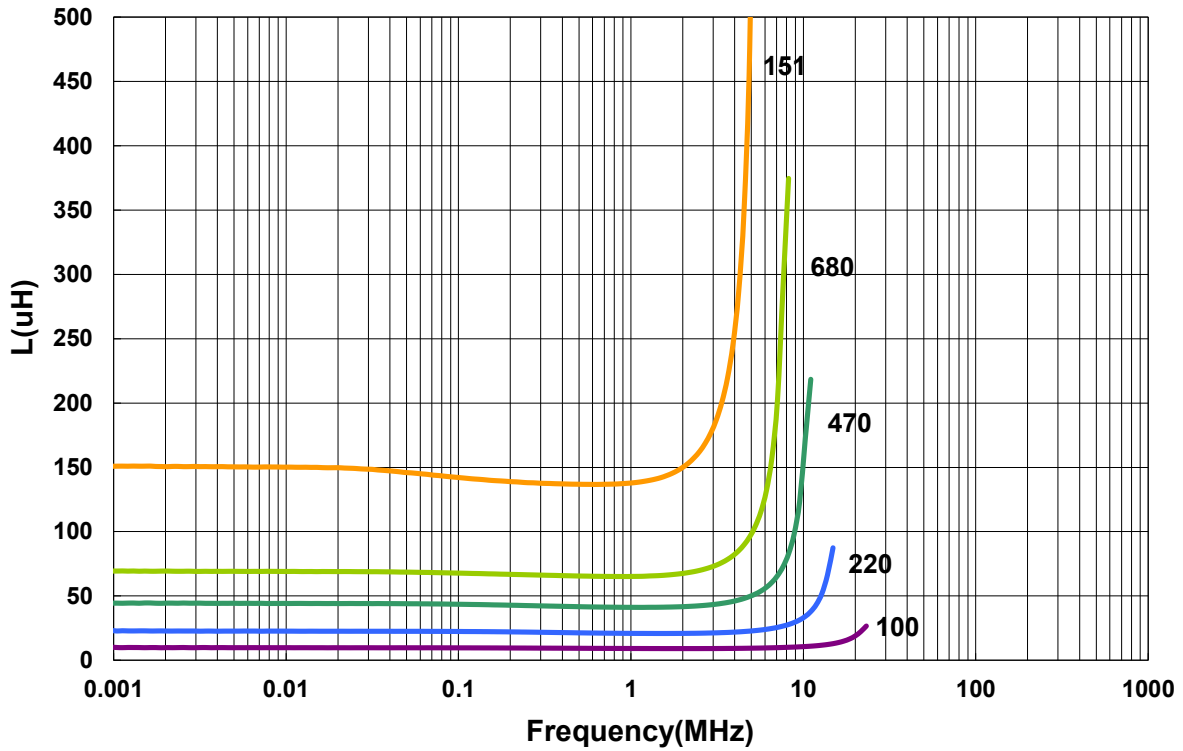
Power Inductor APSC Series

**Automotive
AEC-Q200**

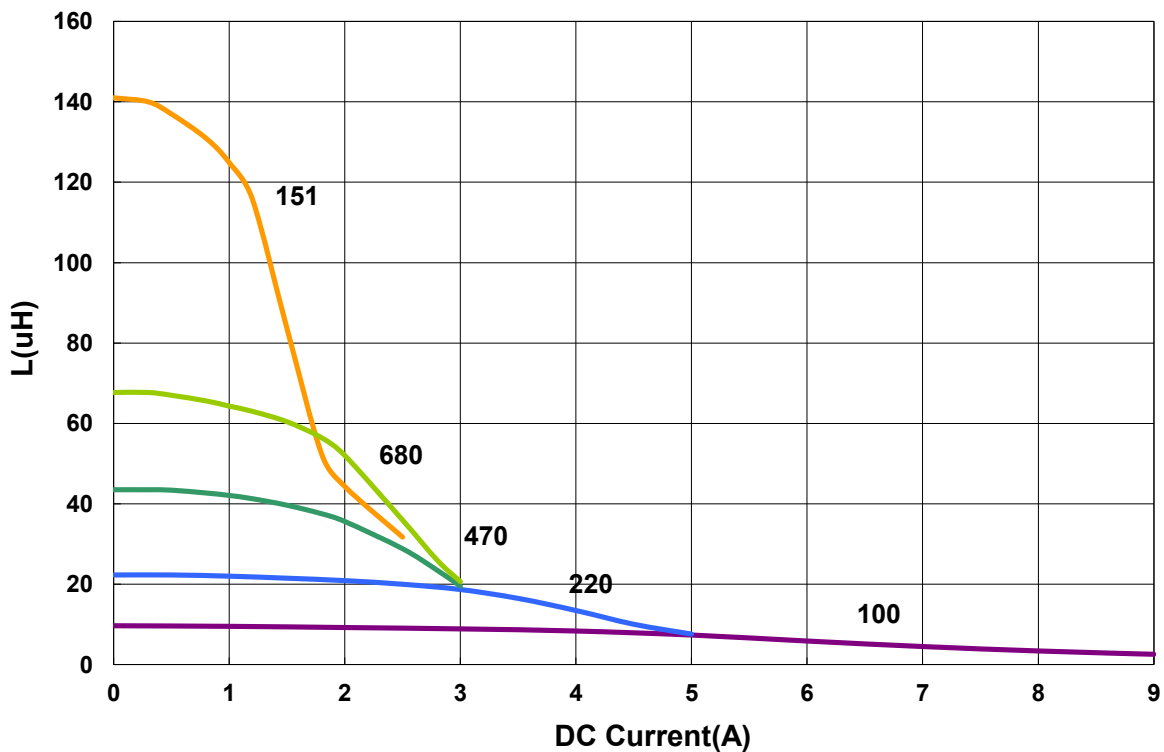
APSC00101140 Type

Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current

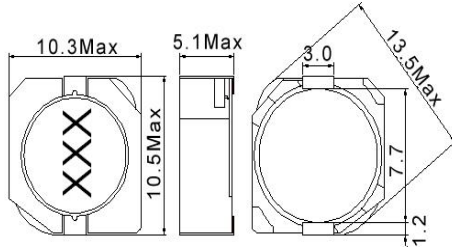


Power Inductor APSC Series

**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)	Tolerance (±%)	Marking
APSC001011514R7□00	4.7	100 kHz,1 V	0.014	5.6(7.8)	30	4R7
APSC001011516R8□00	6.8	100 kHz,1 V	0.024	5.1(6.4)	30	6R8
APSC001011518R2□00	8.2	100 kHz,1 V	0.027	4.7(5.9)	30	8R2
APSC00101151100□00	10	100 kHz,1 V	0.028	4.4(5.6)	20,30	100
APSC00101151120□00	12	100 kHz,1 V	0.036	3.4(5.8)	20,30	120
APSC00101151150□00	15	100 kHz,1 V	0.041	3.2(4.5)	20,30	150
APSC00101151180□00	18	100 kHz,1 V	0.046	3.0(3.8)	20,30	180
APSC00101151220□00	22	100 kHz,1 V	0.061	2.8(3.6)	20,30	220
APSC00101151270□00	27	100 kHz,1 V	0.069	2.1(3.2)	20,30	270
APSC00101151330□00	33	100 kHz,1 V	0.084	2.0(2.9)	20,30	330
APSC00101151390□00	39	100 kHz,1 V	0.106	1.9(2.6)	20,30	390
APSC00101151470□00	47	100 kHz,1 V	0.13	1.7(2.3)	20,30	470
APSC00101151560□00	56	100 kHz,1 V	0.149	1.6(2.2)	20,30	560
APSC00101151680□00	68	100 kHz,1 V	0.201	1.5(2.0)	20,30	680
APSC00101151820□00	82	100 kHz,1 V	0.227	1.3(1.8)	20,30	820
APSC00101151101□00	100	100 kHz,1 V	0.253	1.2(1.7)	20,30	101
APSC00101151121□00	120	100 kHz,1 V	0.303	1.1(1.5)	20,30	121
APSC00101151151□00	150	100 kHz,1 V	0.42	1.0(1.3)	20,30	151
APSC00101151181□00	180	100 kHz,1 V	0.45	0.9(1.2)	20,30	181
APSC00101151221□00	220	100 kHz,1 V	0.54	0.8(1.1)	20,30	221
APSC00101151271□00	270	100 kHz,1 V	0.672	0.75(0.99)	20,30	271
APSC00101151331□00	330	100 kHz,1 V	0.812	0.74(0.92)	20,30	331
APSC00101151391□00	390	100 kHz,1 V	0.953	0.62(0.83)	20,30	391
APSC00101151471□00	470	100 kHz,1 V	1.29	0.6(0.77)	20,30	471
APSC00101151561□00	560	100 kHz,1 V	1.43	0.47(0.71)	20,30	561
APSC00101151681□00	680	100 kHz,1 V	1.6	0.46(0.65)	20,30	681
APSC00101151821□00	820	100 kHz,1 V	1.77	0.42(0.57)	20,30	821
APSC00101151102□00	1000	100 kHz,1 V	2.2	0.4(0.54)	20,30	102

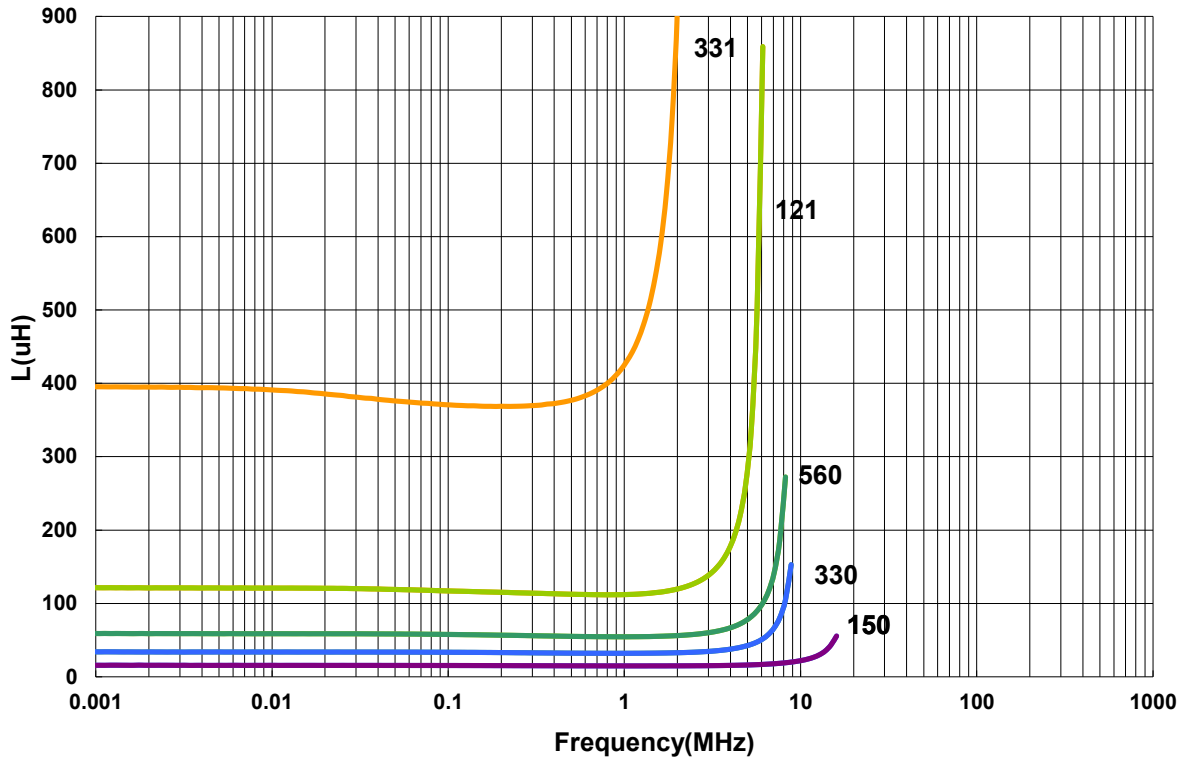
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

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

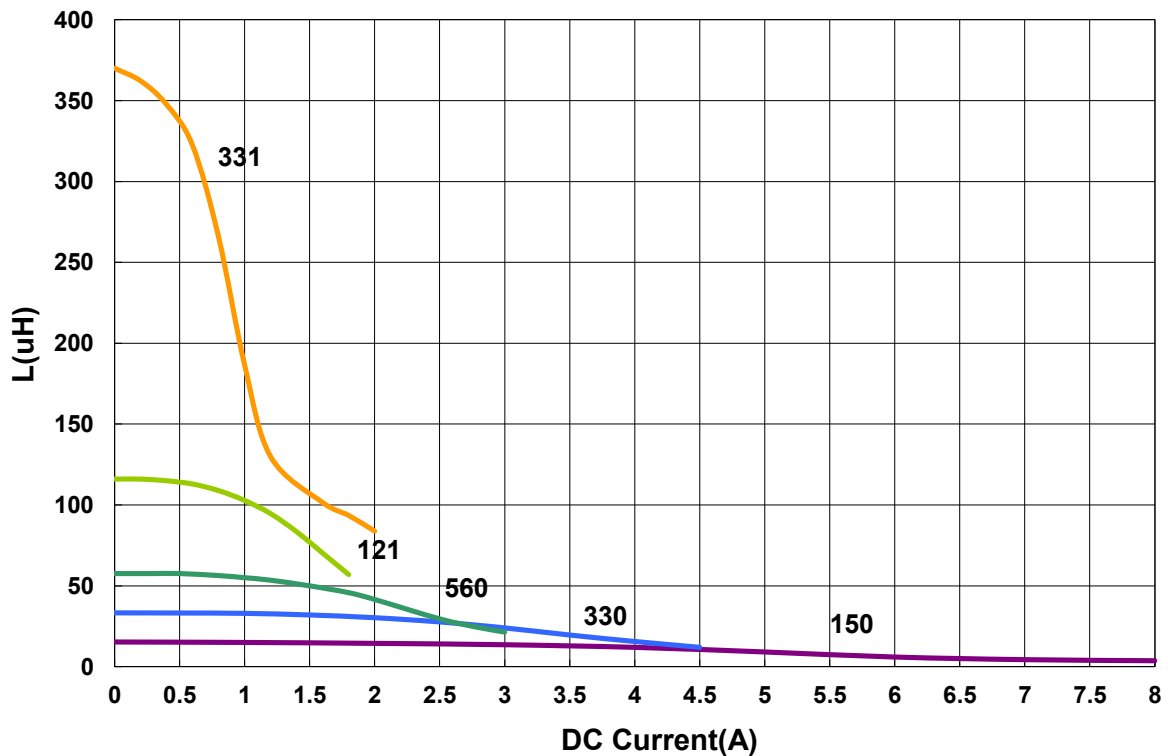
APSC00101151 Type

■ Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current

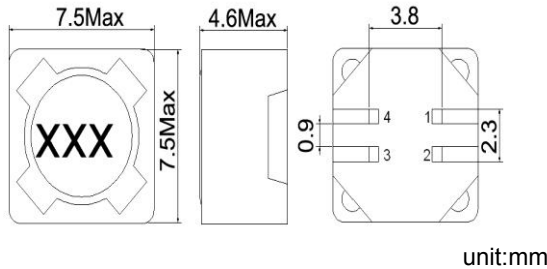


Power Inductor APSC Series

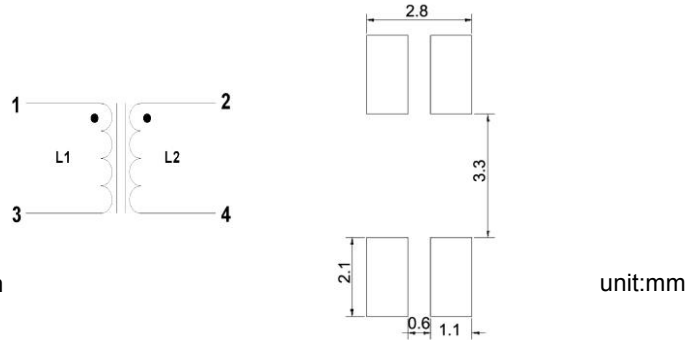
**Automotive
AEC-Q200**

APSC00080846 Type

Dimensions



Recommended Land Pattern



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

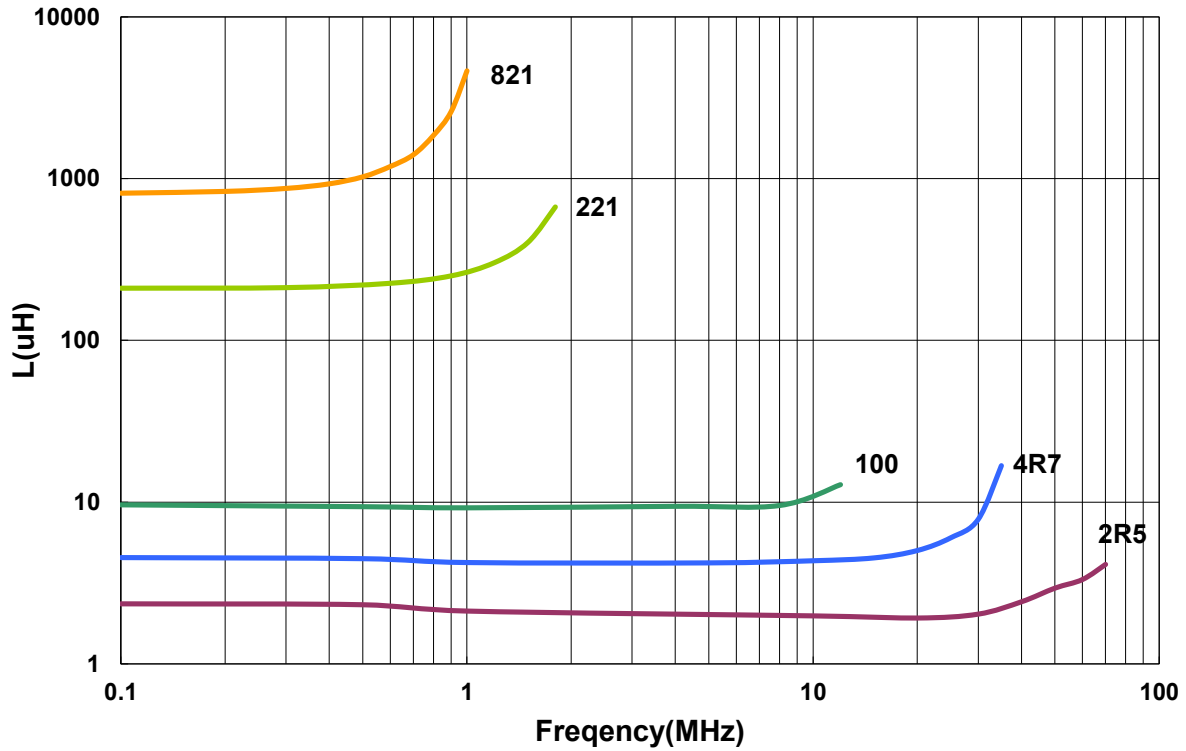
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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

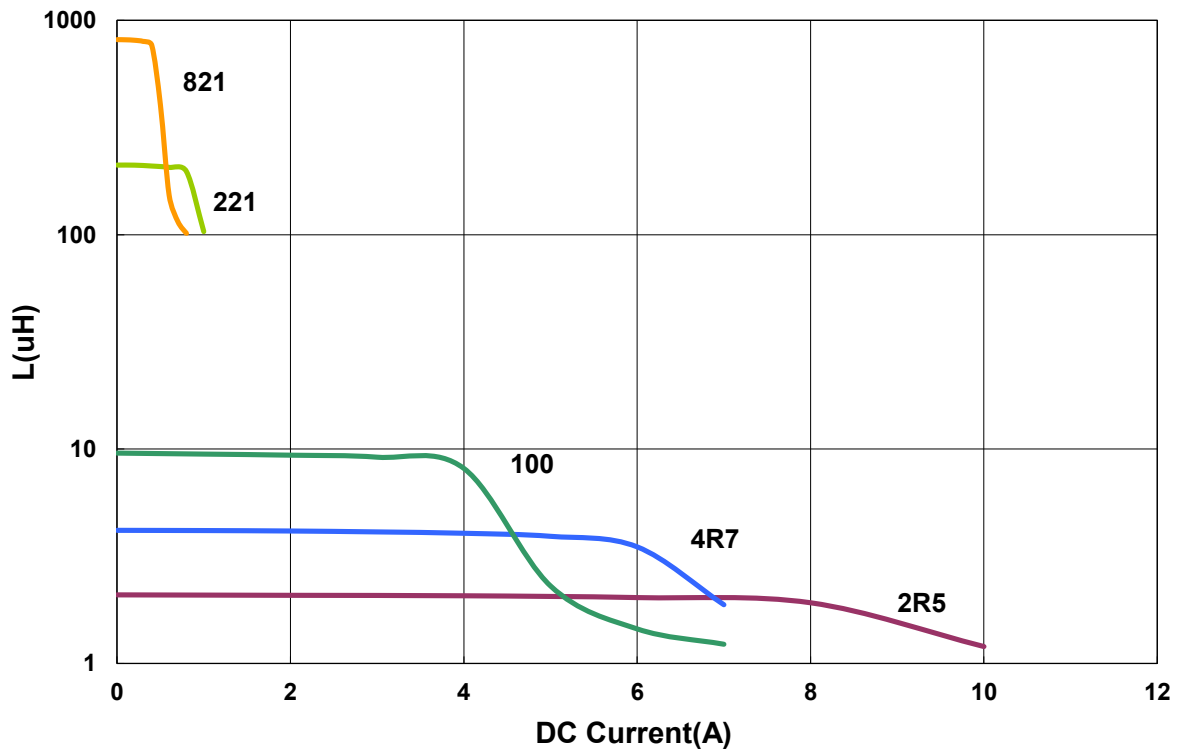
APSC00080846 Type

Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

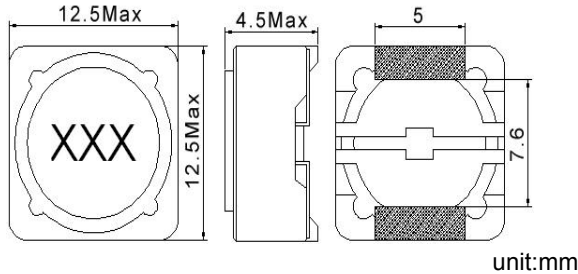


Power Inductor APSC Series

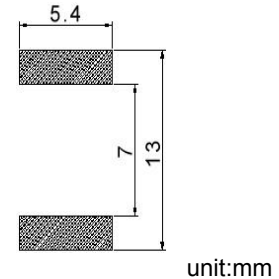
**Automotive
AEC-Q200**

APSC00131345 Type

■ Dimensions



■ Recommended Land Pattern



■ 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

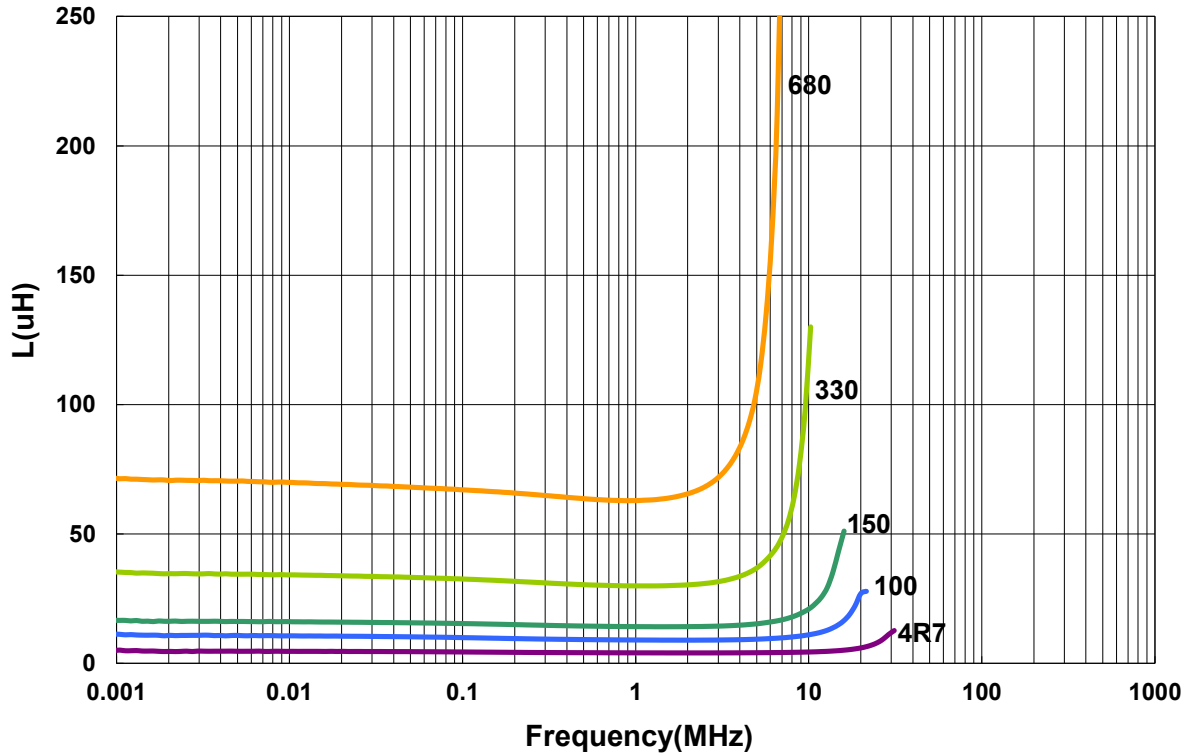
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

1. Operating temperature range - 40°C ~ 125°C(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

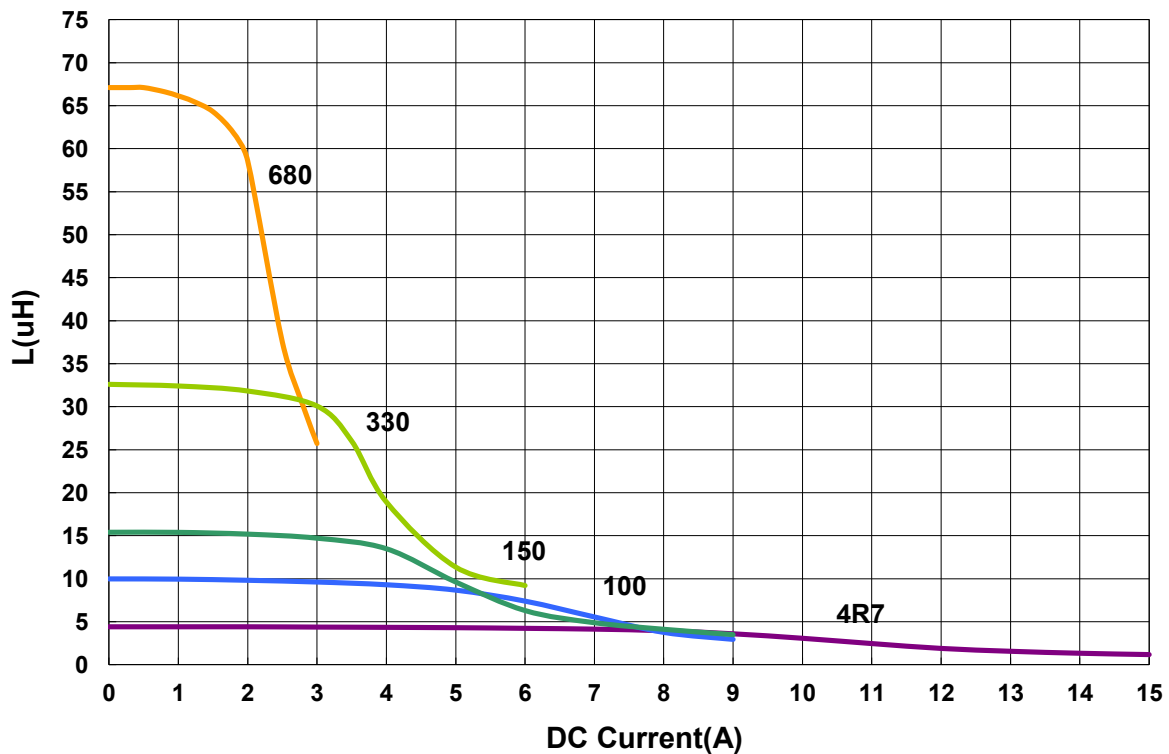
APSC00131345 Type

■ Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current

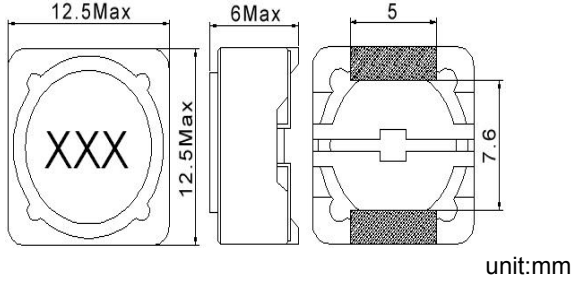


Power Inductor APSC Series

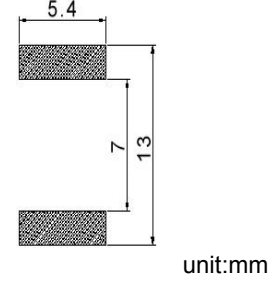
**Automotive
AEC-Q200**

APSC00131360 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

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

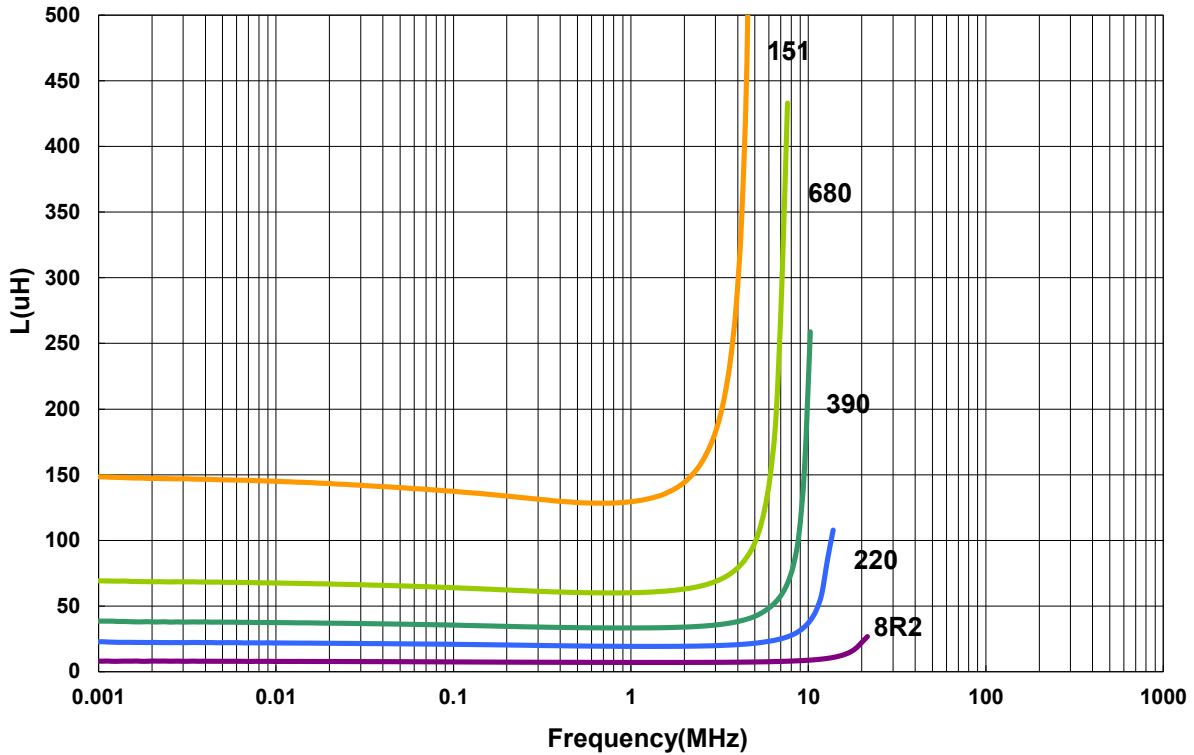
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

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

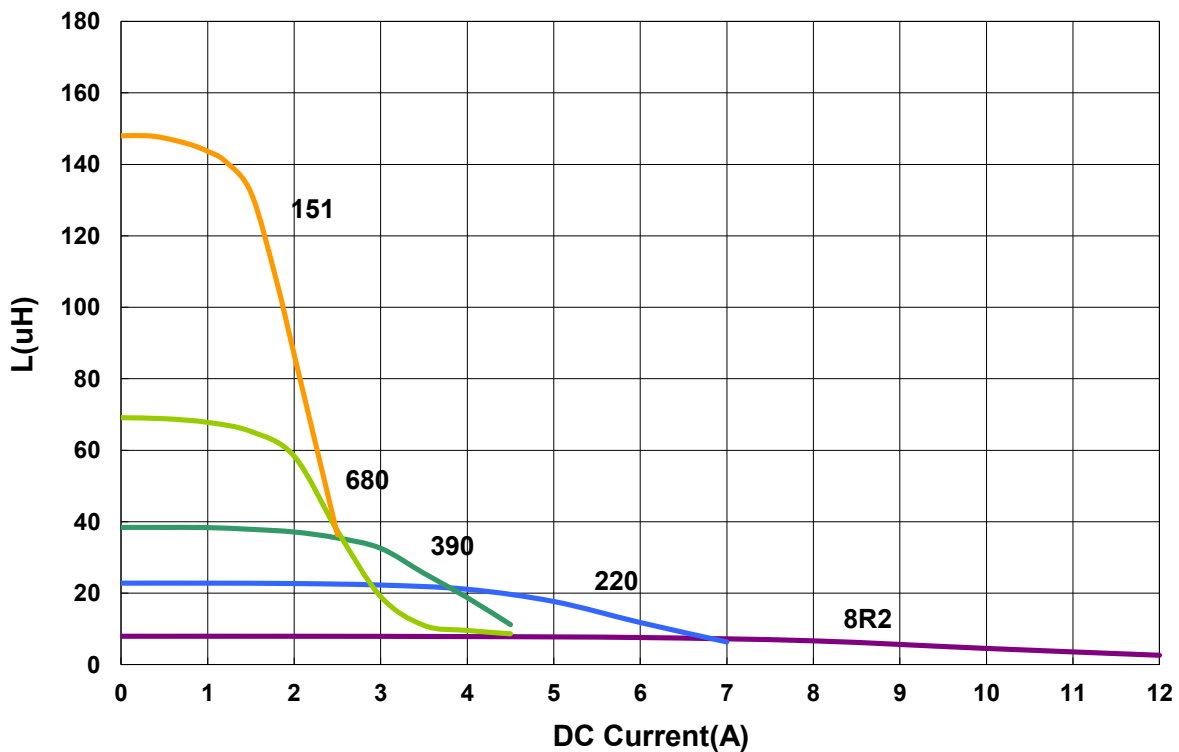
APSC00131360 Type

■ Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current

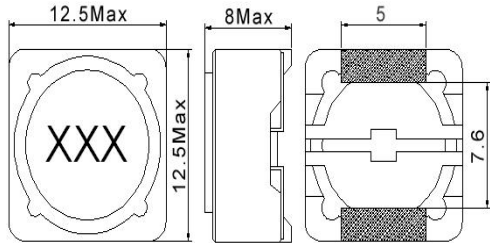


Power Inductor APSC Series

**Automotive
AEC-Q200**

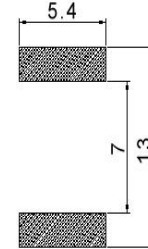
APSC00131380 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

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

Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30% / N=+40₋₂₀%

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

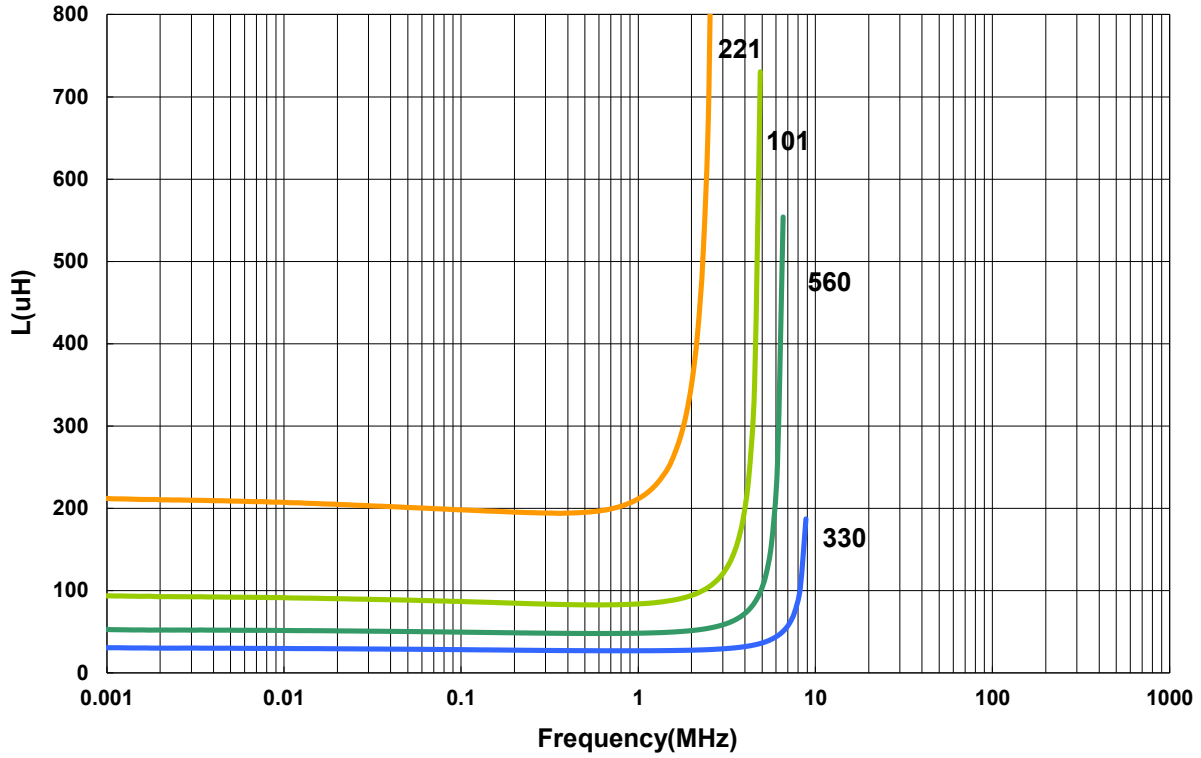
Power Inductor APSC Series

**Automotive
AEC-Q200**

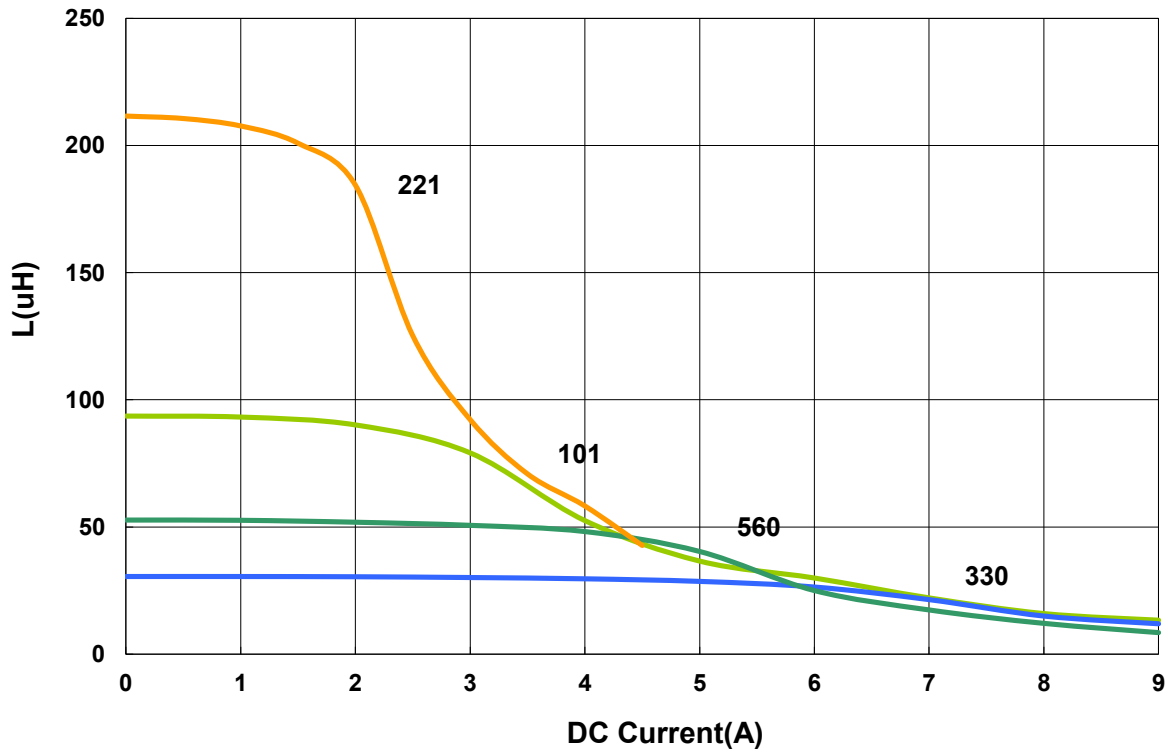
APSC00131380 Type

Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current



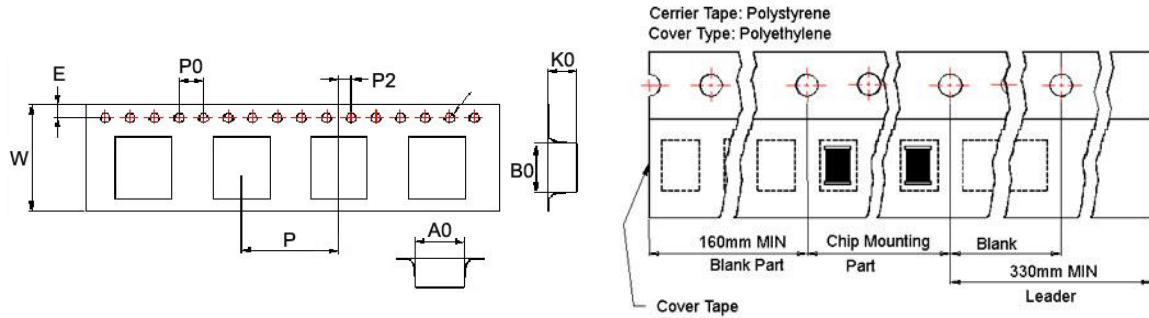
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

Power Inductor APSC Series

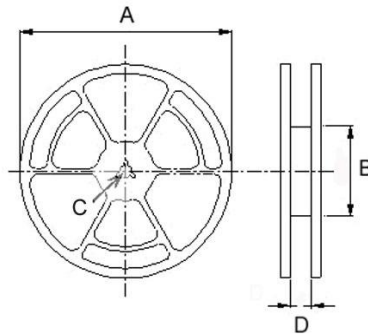
**Automotive
AEC-Q200**

■ Packaging

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity PCS / REEL
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	
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

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Power Inductor APCI Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



Power
Circuit

Shield

Wire
Wound

Ferrite

Part Numbering

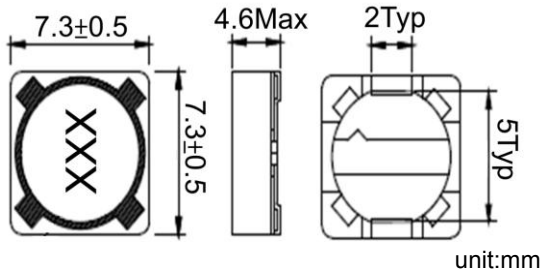
A	PCI	00	101040	1R0	M	80
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			070746 7.3x7.3x4.6	1R0 1	K ±10%	80
			101040 10.3x10.3x4	100 10	M ±20%	Y0
			121250 12x12x5	101 100	T ±30%	
			121260 12x12x6	102 1000		
			121280 12x12x8	103 10000		
			121210 12x12x10			

Power Inductor APCI Series

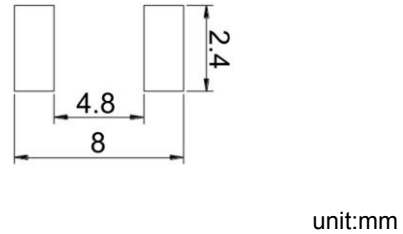
**Automotive
AEC-Q200**

APCI00070746 - 80 Type

■ Dimensions



■ Recommended Land Pattern



■ 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%

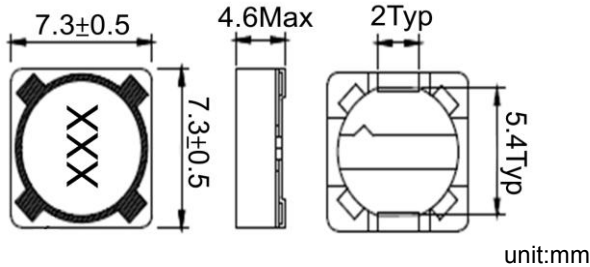
1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temprature rise from 25°C ambient with current
4. Rated DC Current: The less value which is Isat or I rms
5. Measure Equipment:
 L: HP4284A PRECISION LCR METER (or equivalent)
 RDC: CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
 Isat:WK3255BQ+ WK3265B (or equivalent)
 I rms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APCI Series

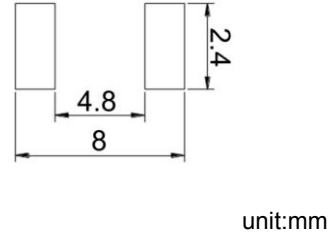
**Automotive
AEC-Q200**

APCI00070746 - Y0 Type

■ Dimensions



■ Recommended Land Pattern



■ 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%

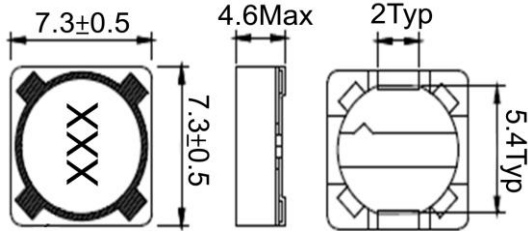
- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Rated DC Current: Based on inductance change ($\Delta L/L_0$: drop 25% Max.) @ambient temperature 25°C and Based on temperature rise (ΔT : 40°C Typ.)
- Measure Equipment:
 L: HP4284A PRECISION LCR METER (or equivalent)
 RDC: CHROMA MODEL 16502 MILLIOHMETER (or equivalent)
 Isat:WK3255BQ+ WK3265B (or equivalent)
 Irms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APCI Series

**Automotive
AEC-Q200**

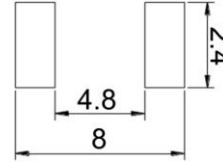
APCI00070746 - Y0 Type

■ 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%

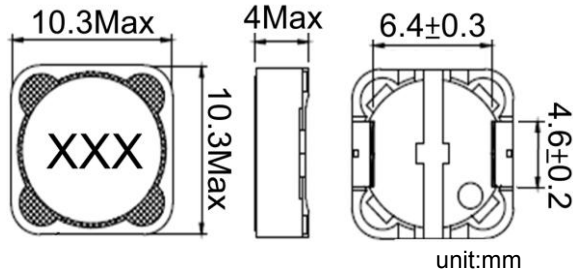
- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Rated DC Current: Based on inductance change ($\Delta L/L_0$: drop 25% Max.) @ambient temperature 25°C and Based on temperature rise (ΔT : 40°C Typ.)
- Measure Equipment:
 L: HP4284A PRECISION LCR METER (or equivalent)
 RDC: CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
 Isat:WK3255BQ+ WK3265B (or equivalent)
 I rms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APCI Series

**Automotive
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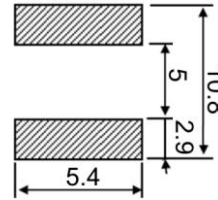
APCI00101040 - Y0 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max (Ω)Typ		Isat (A)Max	Irms (A)Typ	Tolerance (±%)	Marking
APCI001010401R0□Y0	1.5	100kHz,0.1V	0.0115	0.0085	12	12	30	1R0
APCI001010401R5□Y0	1.5	100kHz,0.1V	0.0162	0.012	11	10.8	30	1R5
APCI001010401R8□Y0	1.8	100kHz,0.1V	0.0191	0.0141	10.2	10	30	1R8
APCI001010402R5□Y0	2.5	100kHz,0.1V	0.0257	0.019	8.5	8.3	30	2R5
APCI001010403R3□Y0	3.3	100kHz,0.1V	0.0365	0.027	7.6	7	30	3R3
APCI001010404R7□Y0	4.7	100kHz,0.1V	0.0392	0.029	7	6.2	20,30	4R7
APCI001010405R2□Y0	5.2	100kHz,0.1V	0.0446	0.033	6.5	6	20,30	5R2
APCI001010406R2□Y0	6.2	100kHz,0.1V	0.0513	0.038	5.6	5	20,30	6R2
APCI001010407R3□Y0	7.3	100kHz,0.1V	0.0608	0.045	4.8	4.5	20,30	7R3
APCI00101040100□Y0	10	100kHz,0.1V	0.077	0.057	4.4	3.9	20,30	100
APCI00101040150□Y0	15	100kHz,0.1V	0.117	0.087	3.6	3.3	20,30	150
APCI00101040220□Y0	22	100kHz,0.1V	0.159	0.122	3.2	2.5	20,30	220
APCI00101040330□Y0	33	100kHz,0.1V	0.242	0.186	2.5	2	20,30	330
APCI00101040470□Y0	47	100kHz,0.1V	0.358	0.275	2.1	1.65	20,30	470
APCI00101040560□Y0	56	100kHz,0.1V	0.408	0.314	1.9	1.4	20,30	560
APCI001010406Y0□Y0	68	100kHz,0.1V	0.477	0.367	1.8	1.3	20,30	680
APCI00101040101□Y0	100	100kHz,0.1V	0.698	0.537	1.45	1.1	20,30	101
APCI00101040151□Y0	150	100kHz,0.1V	1.09	0.845	1.25	0.9	20,30	151
APCI00101040221□Y0	220	100kHz,0.1V	1.586	1.22	0.9	0.8	20,30	221
APCI00101040331□Y0	330	100kHz,0.1V	2.3	1.77	0.8	0.6	20,30	331

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

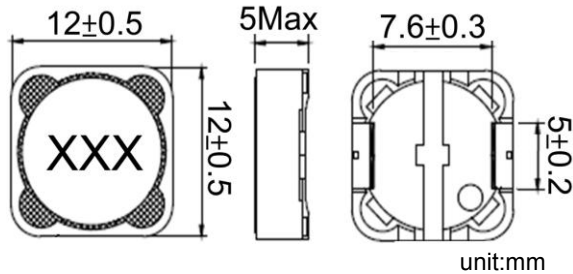
1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 35% from its value without current
3. I rms for a 40°C temprature rise from 25°C ambient with current
4. Rated DC Current: The less value which is Isat or I rms
5. Measure Equipment:
 - L: HP4284A PRECISION LCR METER (or equivalent)
 - RDC: CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
 - Isat:WK3255BQ+ WK3265B (or equivalent)
 - I rms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APCI Series

**Automotive
AEC-Q200**

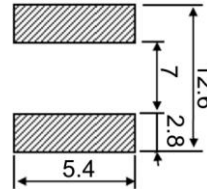
APCI00121250 - 80 Type

■ 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°C ~ 125°C(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:

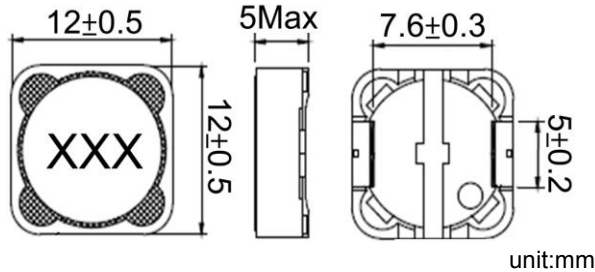
- L: HP4284A PRECISION LCR METER (or equivalent)
- RDC: CHROMA MODEL 16502 MILLIOHMETER (or equivalent)
- Isat:WK3255BQ+ WK3265B (or equivalent)
- Irms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APCI Series

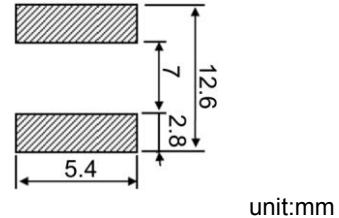
**Automotive
AEC-Q200**

APCI00121250 - Y0 Type

Dimensions



Recommended Land Pattern



Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max	Rated Current (A)Max	Tolerance (±%)	Marking
APCI001212503R0□Y0	3.0	100kHz,0.25V	0.015	7	20,30	3R0
APCI001212503R3□Y0	3.3	100kHz,0.25V	0.015	7	30	3R3
APCI001212503R9□Y0	3.9	100kHz,0.25V	0.015	6.5	30	3R9
APCI001212504R2□Y0	4.2	100kHz,0.25V	0.016	6.5	30	4R2
APCI001212504R7□Y0	4.7	100kHz,0.25V	0.018	5.7	20,30	4R7
APCI001212506R8□Y0	6.8	100kHz,0.25V	0.023	4.9	20,30	6R8
APCI001212508R2□Y0	8.2	100kHz,0.25V	0.026	4.6	30	8R2
APCI00121250100□Y0	10	100kHz,0.25V	0.028	4.5	20,30	100
APCI00121250120□Y0	12	100kHz,0.25V	0.038	4	20,30	120
APCI00121250150□Y0	15	100kHz,0.25V	0.05	3.2	20,30	150
APCI00121250180□Y0	18	100kHz,0.25V	0.057	3.1	20,30	180
APCI00121250220□Y0	22	100kHz,0.25V	0.066	2.9	20,30	220
APCI00121250270□Y0	27	100kHz,0.25V	0.08	2.8	20,30	270
APCI00121250330□Y0	33	100kHz,0.25V	0.097	2.7	20,30	330
APCI00121250390□Y0	39	100kHz,0.25V	0.132	2.1	20,30	390
APCI00121250470□Y0	47	100kHz,0.25V	0.15	1.9	20,30	470
APCI00121250560□Y0	56	100kHz,0.25V	0.19	1.8	20,30	560
APCI00121250680□Y0	68	100kHz,0.25V	0.22	1.5	20,30	680
APCI00121250820□Y0	82	100kHz,0.25V	0.26	1.3	20,30	820
APCI00121250101□Y0	100	100kHz,0.25V	0.308	1.2	20,30	101
APCI00121250121□Y0	120	100kHz,0.25V	0.38	1.1	20,30	121
APCI00121250151□Y0	150	100kHz,0.25V	0.53	0.95	20,30	151
APCI00121250181□Y0	180	100kHz,0.25V	0.62	0.85	20,30	181
APCI00121250221□Y0	220	100kHz,0.25V	0.7	0.8	20,30	221
APCI00121250271□Y0	270	100kHz,0.25V	0.87	0.6	20,30	271
APCI00121250331□Y0	330	100kHz,0.25V	0.99	0.5	20,30	331

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

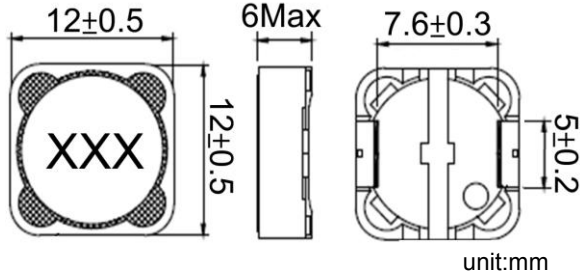
- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Rated DC Current: Based on inductance change ($\Delta L/L_0$: drop 10% Max.) @ambient temperature 25°C and Based on temperature rise (ΔT : 40°C Typ.)
- Measure Equipment:
 - L: HP4284A PRECISION LCR METER (or equivalent)
 - RDC: CHROMA MODEL 16502 MILLIOHMETER (or equivalent)
 - Isat:WK3255BQ+ WK3265B (or equivalent)
 - Irms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APCI Series

**Automotive
AEC-Q200**

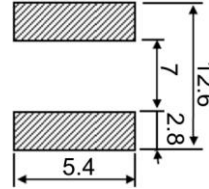
APCI00121260 - 80 Type

■ 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°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current
3. I rms for a 40°C temprature rise from 25°C ambient with current
4. Rated DC Current: The less value which is Isat or I rms
5. Measure Equipment:

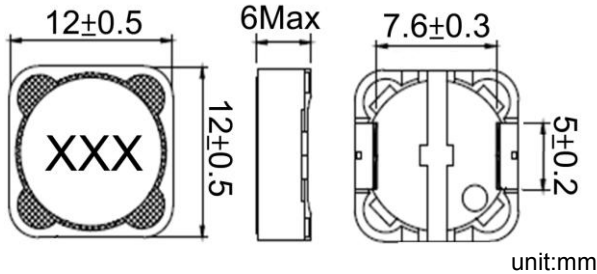
- L: HP4284A PRECISION LCR METER (or equivalent)
- RDC: CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
- Isat:WK3255BQ+ WK3265B (or equivalent)
- I rms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APCI Series

**Automotive
AEC-Q200**

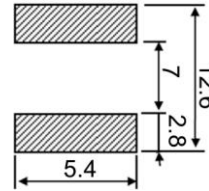
APCI00121260 - Y0 Type

■ 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
APCI001212602R4□Y0	2.4	100kHz,0.25V	0.015	6.5	30	2R4
APCI001212602R7□Y0	2.7	100kHz,0.25V	0.015	6.5	30	2R7
APCI001212603R3□Y0	3.3	100kHz,0.25V	0.017	6	20,30	3R3
APCI001212603R9□Y0	3.9	100kHz,0.25V	0.018	5.7	30	3R9
APCI001212604R7□Y0	4.7	100kHz,0.25V	0.02	5	20,30	4R7
APCI001212606R8□Y0	6.8	100kHz,0.25V	0.023	4.3	20,30	6R8
APCI001212608R2□Y0	8.2	100kHz,0.25V	0.024	4.2	20,30	8R2
APCI00121260100□Y0	10	100kHz,0.25V	0.025	4	20,30	100
APCI00121260120□Y0	12	100kHz,0.25V	0.027	3.5	20,30	120
APCI00121260150□Y0	15	100kHz,0.25V	0.03	3.3	20,30	150
APCI00121260180□Y0	18	100kHz,0.25V	0.034	3	20,30	180
APCI00121260220□Y0	22	100kHz,0.25V	0.036	2.8	20,30	220
APCI00121260270□Y0	27	100kHz,0.25V	0.051	2.3	20,30	270
APCI00121260330□Y0	33	100kHz,0.25V	0.057	2.1	20,30	330
APCI00121260390□Y0	39	100kHz,0.25V	0.068	2	20,30	390
APCI00121260470□Y0	47	100kHz,0.25V	0.075	1.8	20,30	470
APCI00121260560□Y0	56	100kHz,0.25V	0.11	1.7	20,30	560
APCI00121260680□Y0	68	100kHz,0.25V	0.12	1.5	20,30	680
APCI00121260820□Y0	82	100kHz,0.25V	0.14	1.4	20,30	820
APCI00121260101□Y0	100	100kHz,0.25V	0.16	1.3	10,20	101
APCI00121260121□Y0	120	100kHz,0.25V	0.17	1.1	10,20	121
APCI00121260151□Y0	150	100kHz,0.25V	0.23	1	10,20	151
APCI00121260181□Y0	180	100kHz,0.25V	0.29	0.9	10,20	181
APCI00121260221□Y0	220	100kHz,0.25V	0.4	0.8	10,20	221
APCI00121260271□Y0	270	100kHz,0.25V	0.46	0.75	10,20	271
APCI00121260331□Y0	330	100kHz,0.25V	0.51	0.68	10,20	331
APCI00121260391□Y0	390	100kHz,0.25V	0.69	0.65	10,20	391
APCI00121260471□Y0	470	100kHz,0.25V	0.77	0.58	10,20	471
APCI00121260561□Y0	560	100kHz,0.25V	0.86	0.54	10,20	561
APCI00121260681□Y0	680	100kHz,0.25V	1.2	0.48	10,20	681
APCI00121260821□Y0	820	100kHz,0.25V	1.34	0.43	10,20	821
APCI00121260102□Y0	1000	100kHz,0.25V	1.53	0.4	10,20	102

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

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Rated DC Current: Based on inductance change (ΔL/L₀ : drop 10% Max.) @ambient temperature 25°C and Based on temperature rise (ΔT : 40°C Typ.)
- 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)

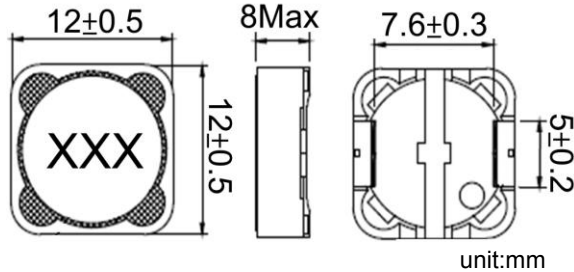
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

Power Inductor APCI Series

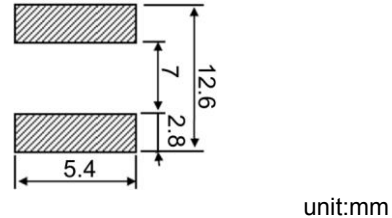
**Automotive
AEC-Q200**

APCI00121280 - 80 Type

Dimensions



Recommended Land Pattern



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°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current
3. I rms for a 40°C temprature rise from 25°C ambient with current
4. Rated DC Current: The less value which is Isat or I rms
5. Measure Equipment:

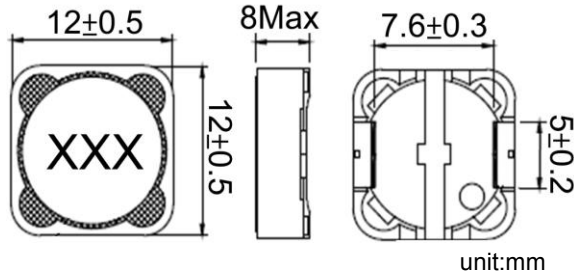
L: HP4284A PRECISION LCR METER (or equivalent)
 RDC: CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
 Isat:WK3255BQ+ WK3265B (or equivalent)
 I rms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APCI Series

**Automotive
AEC-Q200**

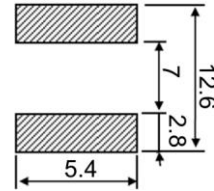
APCI00121280 - 80 Type

■ 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%

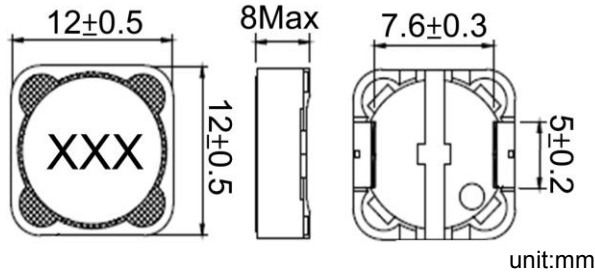
1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current
3. I rms for a 40°C temprature rise from 25°C ambient with current
4. Rated DC Current: The less value which is Isat or I rms
5. Measure Equipment:
 L: HP4284A PRECISION LCR METER (or equivalent)
 RDC: CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
 Isat:WK3255BQ+ WK3265B (or equivalent)
 I rms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APCI Series

**Automotive
AEC-Q200**

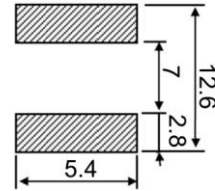
APCI00121280 - Y0 Type

■ 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
APCI001212801R0□Y0	1.0	100kHz,0.25V	0.007	9.8	30	1R0
APCI001212801R2□Y0	1.2	100kHz,0.25V	0.007	9.8	30	1R2
APCI001212802R2□Y0	2.2	100kHz,0.25V	0.0115	8	20,30	2R2
APCI001212802R4□Y0	2.4	100kHz,0.25V	0.0115	8	30	2R4
APCI001212802R5□Y0	2.5	100kHz,0.25V	0.0115	8	30	2R5
APCI001212803R3□Y0	3.3	100kHz,0.25V	0.0135	7.5	20,30	3R3
APCI001212803R5□Y0	3.5	100kHz,0.25V	0.0135	7.5	30	3R5
APCI001212804R6□Y0	4.6	100kHz,0.25V	0.0158	6.8	30	4R6
APCI001212804R7□Y0	4.7	100kHz,0.25V	0.0158	6.8	30	4R7
APCI001212805R6□Y0	5.6	100kHz,0.25V	0.0176	6.6	20,30	5R6
APCI001212806R1□Y0	6.1	100kHz,0.25V	0.0176	6.6	30	6R1
APCI001212806R4□Y0	6.4	100kHz,0.25V	0.019	6.3	30	6R4
APCI001212806R8□Y0	6.8	100kHz,0.25V	0.019	6.3	30	6R8
APCI001212807R6□Y0	7.6	100kHz,0.25V	0.02	5.9	30	7R6
APCI00121280100□Y0	10	100kHz,0.25V	0.0216	5.4	20,30	100
APCI00121280120□Y0	12	100kHz,0.25V	0.0243	4.9	20,30	120
APCI00121280150□Y0	15	100kHz,0.25V	0.027	4.5	20,30	150
APCI00121280180□Y0	18	100kHz,0.25V	0.0392	3.9	20,30	180
APCI00121280220□Y0	22	100kHz,0.25V	0.0432	3.6	20,30	220
APCI00121280270□Y0	27	100kHz,0.25V	0.0459	3.4	20,30	270
APCI00121280330□Y0	33	100kHz,0.25V	0.0648	3	20,30	330
APCI00121280390□Y0	39	100kHz,0.25V	0.0729	2.75	20,30	390
APCI00121280470□Y0	47	100kHz,0.25V	0.1	2.5	20,30	470
APCI00121280560□Y0	56	100kHz,0.25V	0.11	2.35	20,30	560
APCI00121280680□Y0	68	100kHz,0.25V	0.14	2.1	20,30	680
APCI00121280750□Y0	75	100kHz,0.25V	0.15	2	20,30	750
APCI00121280820□Y0	82	100kHz,0.25V	0.16	1.95	20,30	820

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

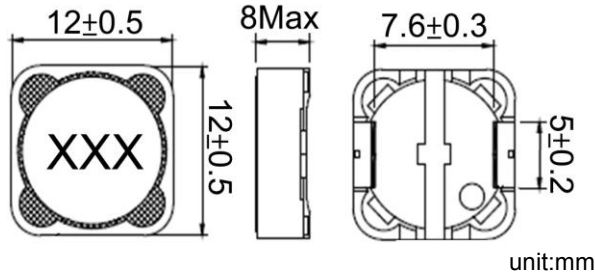
- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Rated DC Current: Based on inductance change ($\Delta L/L_0$: drop 10% Max.) @ambient temperature 25°C and Based on temperature rise (ΔT : 40°C Typ.)
- Measure Equipment:
 - L: HP4284A PRECISION LCR METER (or equivalent)
 - RDC: CHROMA MODEL 16502 MILLIOHM METER (or equivalent)
 - Isat:WK3255BQ+ WK3265B (or equivalent)
 - Irms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APCI Series

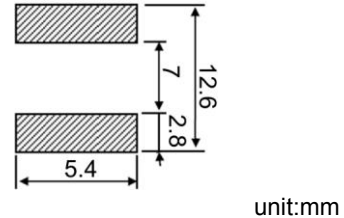
**Automotive
AEC-Q200**

APCI00121280 - Y0 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max	Rated Current (A)Max	Tolerance (±%)	Marking
APCI00121280101□Y0	100	100kHz,0.25V	0.22	1.7	10,20	101
APCI00121280121□Y0	120	100kHz,0.25V	0.25	1.6	10,20	121
APCI00121280151□Y0	150	100kHz,0.25V	0.28	1.42	10,20	151
APCI00121280181□Y0	180	100kHz,0.25V	0.35	1.3	10,20	181
APCI00121280201□Y0	200	100kHz,0.25V	0.39	1.16	20	201
APCI00121280221□Y0	220	100kHz,0.25V	0.39	1.16	10,20	221
APCI00121280271□Y0	270	100kHz,0.25V	0.56	1.06	10,20	271
APCI00121280331□Y0	330	100kHz,0.25V	0.64	0.95	10,20	331
APCI00121280391□Y0	390	100kHz,0.25V	0.7	0.88	10,20	391
APCI00121280471□Y0	470	100kHz,0.25V	0.98	0.79	10,20	471
APCI00121280561□Y0	560	100kHz,0.25V	1.07	0.73	10,20	561
APCI00121280681□Y0	680	100kHz,0.25V	1.46	0.67	10,20	681
APCI00121280821□Y0	820	100kHz,0.25V	1.64	0.6	10,20	821
APCI00121280102□Y0	1000	100kHz,0.25V	1.82	0.55	10,20	102
APCI00121280152□Y0	1500	10kHz,0.25V	2.48	0.45	10,20	152
APCI00121280202□Y0	2000	10kHz,0.25V	3	0.42	10,20	202
APCI00121280242□Y0	2400	10kHz,0.25V	3.5	0.4	10,20	242
APCI00121280252□Y0	2500	10kHz,0.25V	3.5	0.4	10,20	252
APCI00121280332□Y0	3300	10kHz,0.25V	5.2	0.35	10,20	332
APCI00121280472□Y0	4700	10kHz,0.25V	5.7	0.3	10,20	472
APCI00121280103□Y0	10000	10kHz,0.25V	19.2	0.2	10	103

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

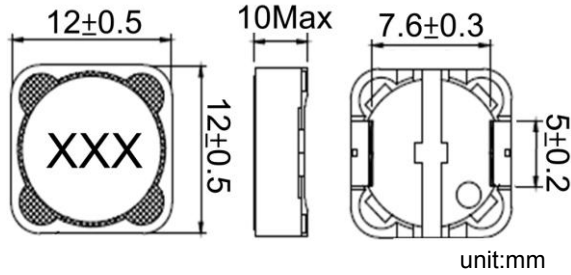
- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Rated DC Current: Based on inductance change ($\Delta L/L_0$: drop 10% Max.) @ambient temperature 25°C and Based on temperature rise (ΔT : 40°C Typ.)
- Measure Equipment:
 - L: HP4284A PRECISION LCR METER (or equivalent)
 - RDC: CHROMA MODEL 16502 MILLIOHMETER (or equivalent)
 - Isat:WK3255BQ+ WK3265B (or equivalent)
 - Irms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APCI Series

**Automotive
AEC-Q200**

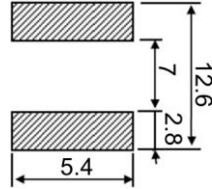
APCI00121210 - 80 Type

■ 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%

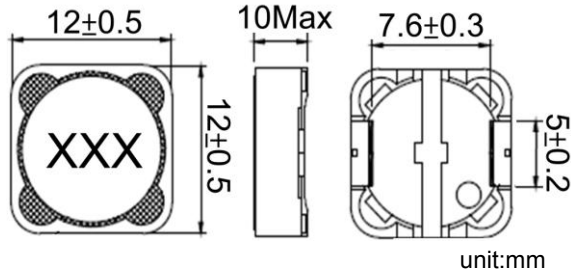
1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temprature rise from 25°C ambient with current
4. Rated DC Current: The less value which is Isat or I rms
5. Measure Equipment:
 L: HP4284A PRECISION LCR METER (or equivalent)
 RDC: CHROMA MODEL 16502 MILLIOHMETER (or equivalent)
 Isat:WK3255BQ+ WK3265B (or equivalent)
 I rms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APCI Series

**Automotive
AEC-Q200**

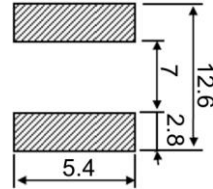
APCI00121210 - Y0 Type

■ 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°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 25% from its value without current
3. I rms for a 40°C temprature rise from 25°C ambient with current
4. Rated DC Current: The less value which is Isat or I rms
5. Measure Equipment:

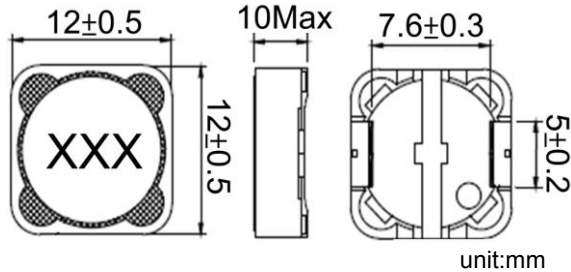
- L: HP4284A PRECISION LCR METER (or equivalent)
- RDC: CHROMA MODEL 16502 MILLIOHMETER (or equivalent)
- Isat:WK3255BQ+ WK3265B (or equivalent)
- I rms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APCI Series

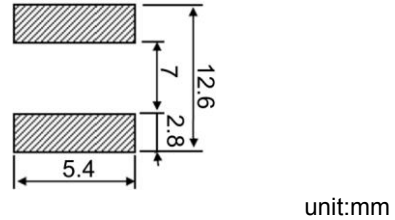
**Automotive
AEC-Q200**

APCI00121210 - Y0 Type

■ Dimensions



■ Recommended Land Pattern



■ 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%

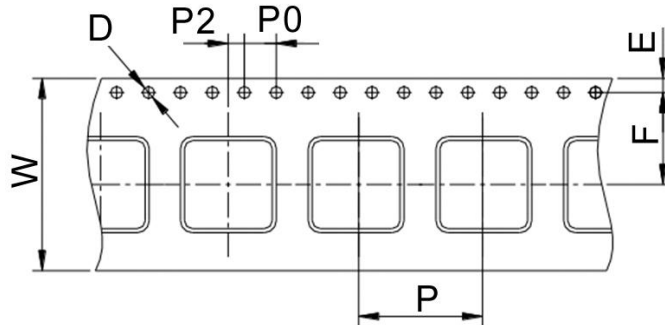
1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 25% from its value without current
3. Irms for a 40°C temprature rise from 25°C ambient with current
4. Rated DC Current: The less value which is Isat or Irms
5. Measure Equipment:
 - L: HP4284A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

Power Inductor APCI Series

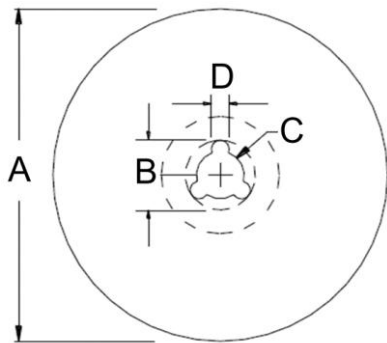
**Automotive
AEC-Q200**

■ Packaging

Tape Dimensions



Reel Dimensions



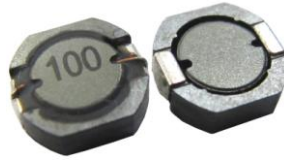
Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity PCS / REEL
	W	D	E	F	P	P0	P2	A	B	C	D	
APCI00070746	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
APCI00101040	16	1.5	1.75	7.5	12	4	2	330	20	13	2	900
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

Power Inductor APSR Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



Power
Circuit

Shield

Wire
Wound

Ferrite

Part Numbering

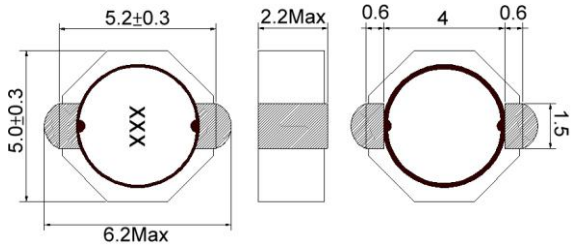
A	PSR	00	080725	1R0	M	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			050522 5.2x5.0x2.2	R47 0.47	M ±20%	
			080725 7.5x7.4x2.5	1R0 1.0	T ±30%	
			080740 7.5x7.4x4.0	101 100		

Power Inductor APSR Series

**Automotive
AEC-Q200**

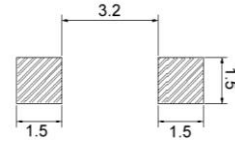
APSR00050522 Type

■ 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

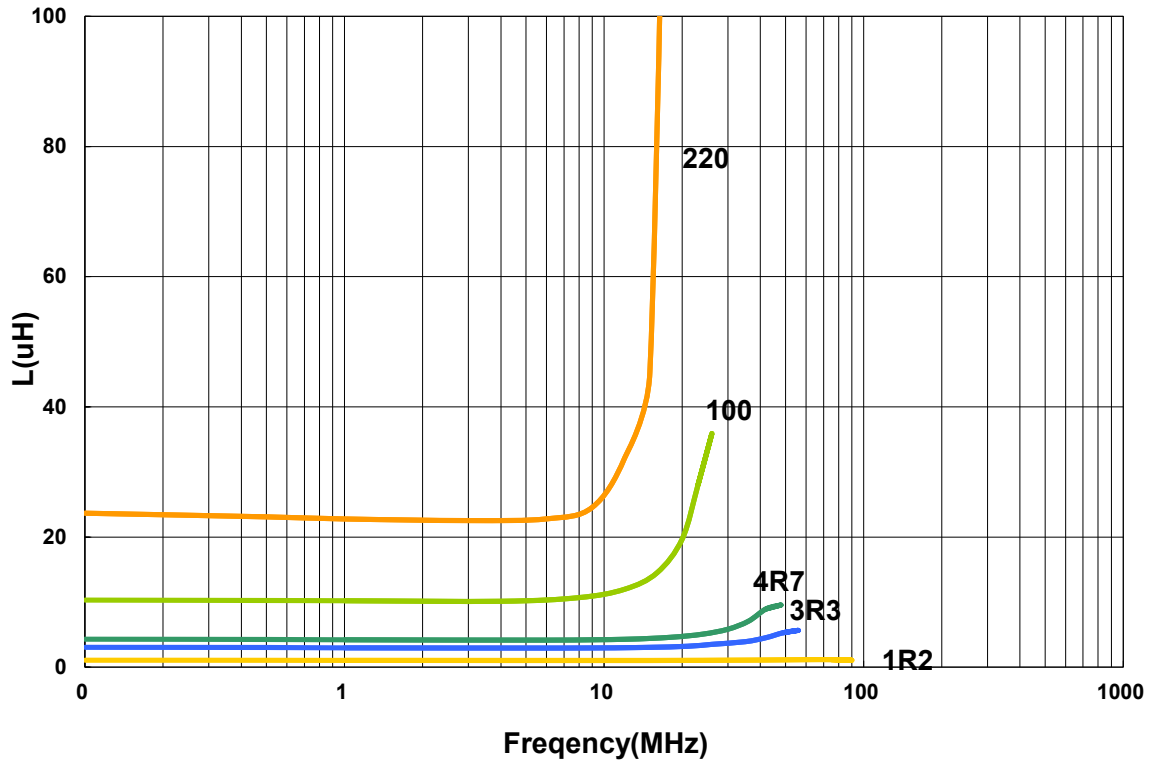
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

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

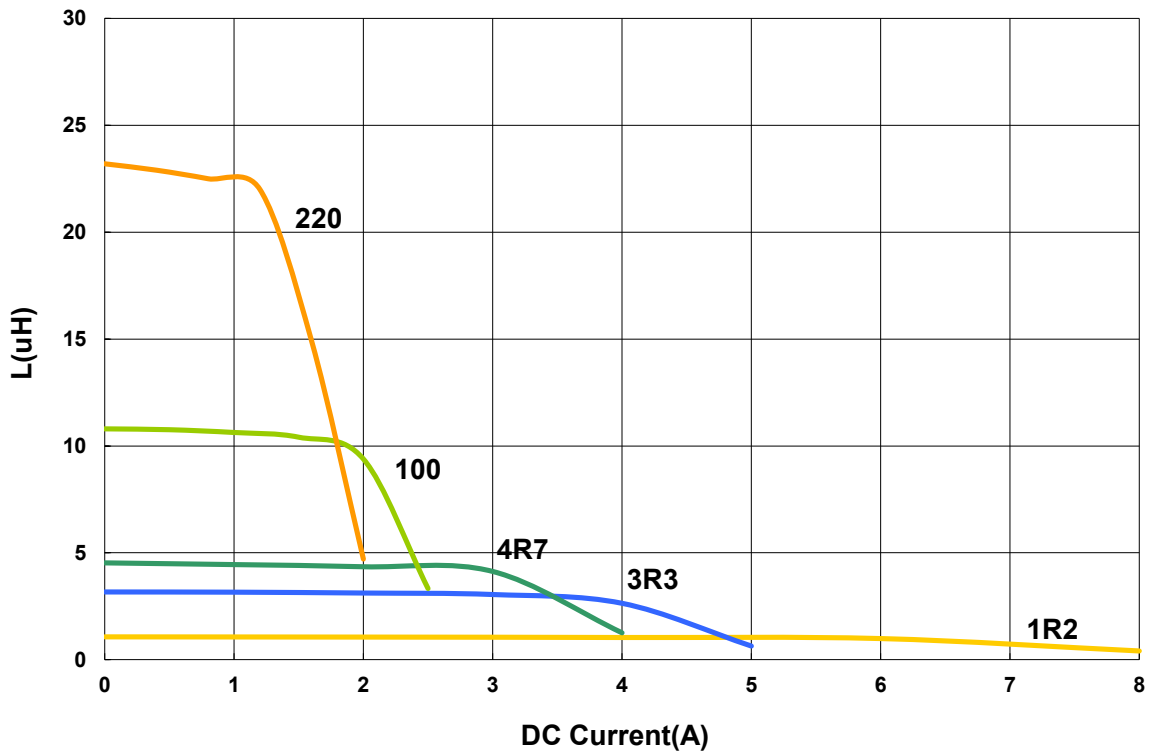
APSR00050522 Type

■ Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

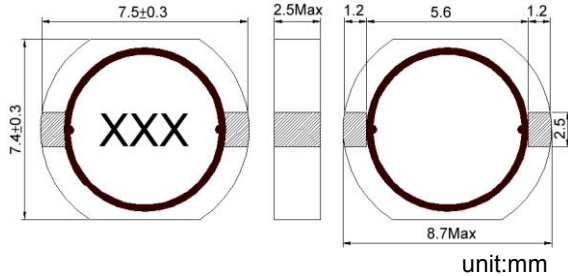


Power Inductor APSR Series

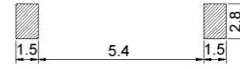
**Automotive
AEC-Q200**

APSR00080725 Type

■ Dimensions



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

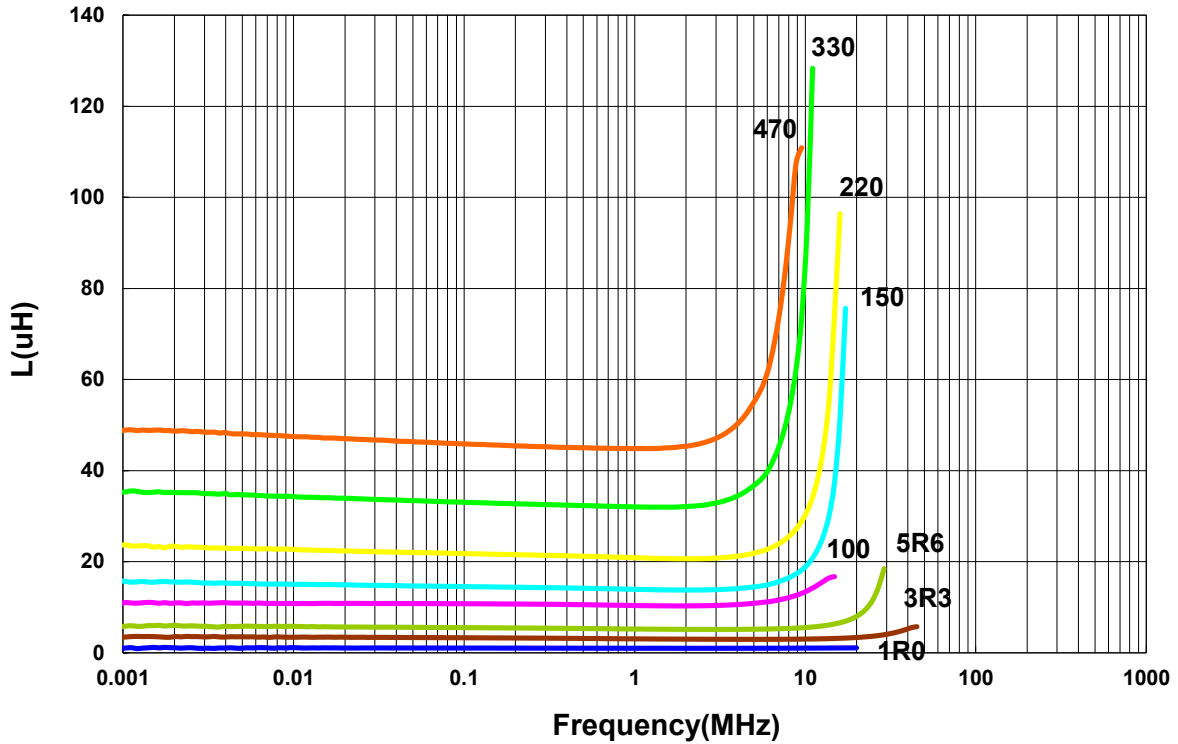
Power Inductor APSR Series

**Automotive
AEC-Q200**

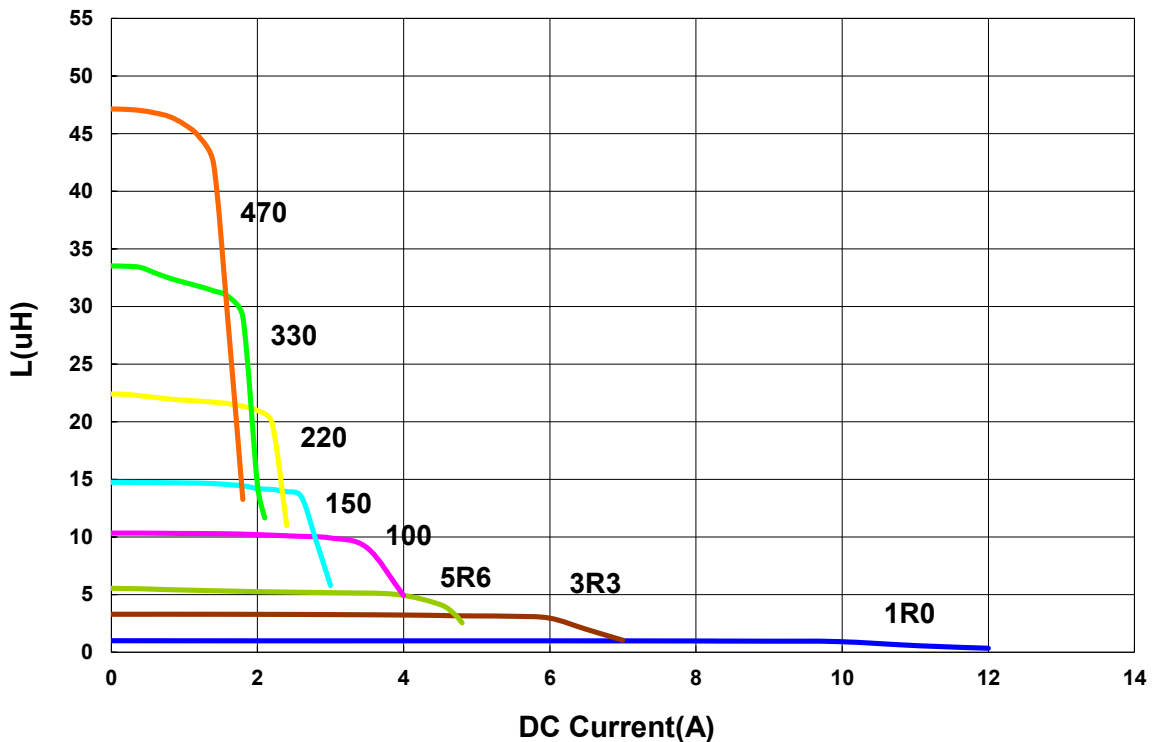
APSR00080725 Type

Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

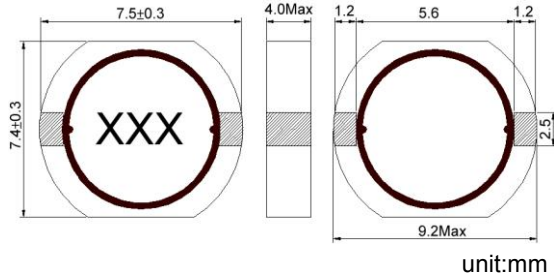


Power Inductor APSR Series

**Automotive
AEC-Q200**

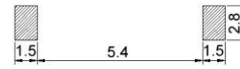
APSR00080740 Type

■ 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	0.65(0.92)	0.82	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 35% from its value without current
3. I rms for a 40°C temprature rise from 25°C ambient with current
4. Measure Equipment:
 L: Agilent E4980 or HP4284A
 RDC: Chroma 16502
 Isat: HP4284A+HP42841A or WK3260B+WK3265B
 I rms: Agilent 6641 SYSTEM DC POWER SUPPLY

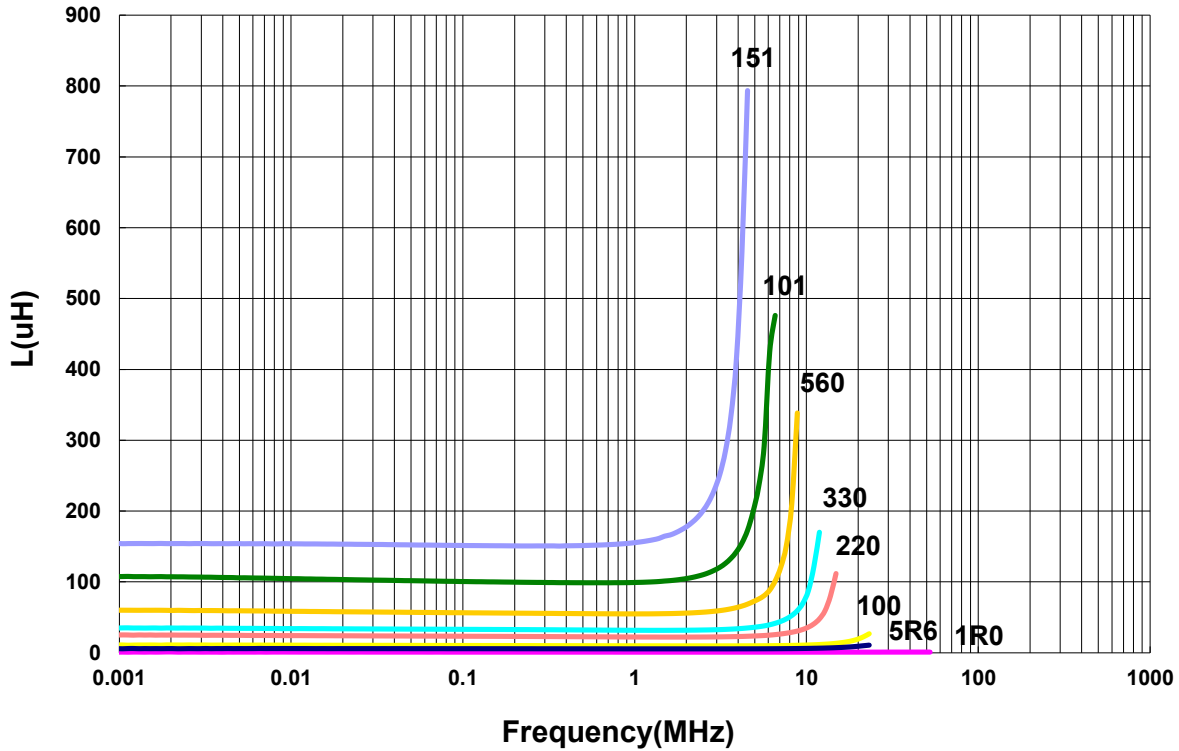
Power Inductor APSR Series

**Automotive
AEC-Q200**

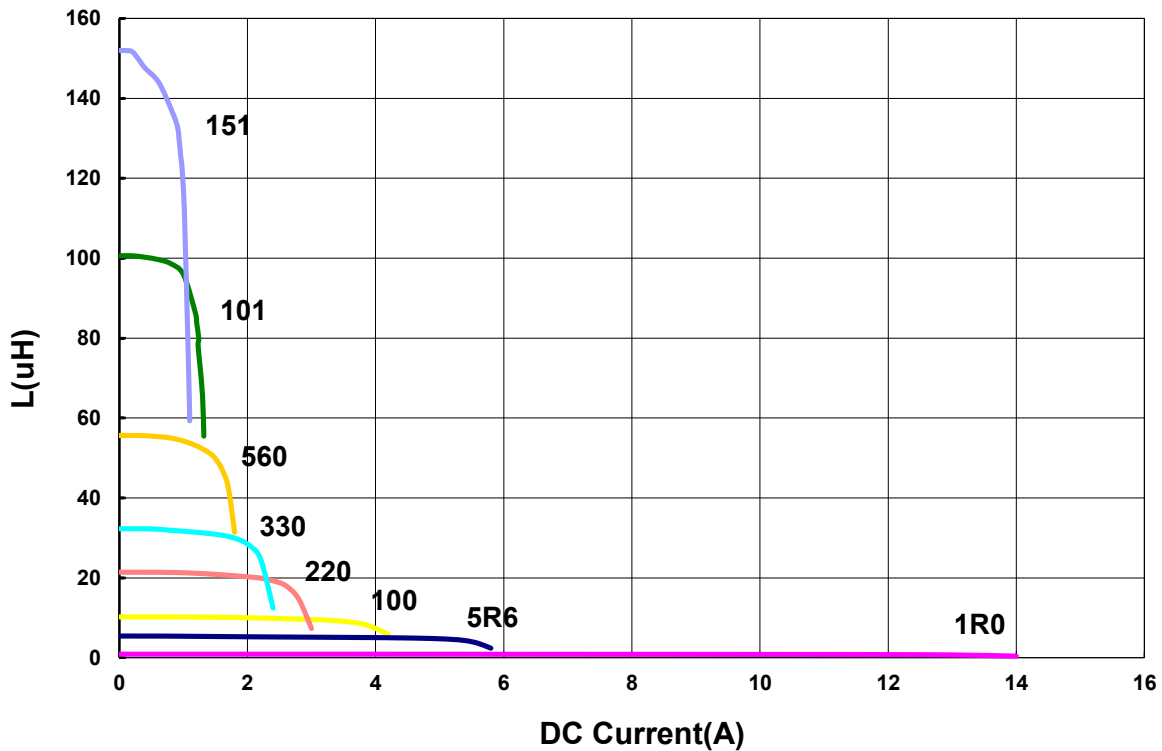
APSR00080740 Type

Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

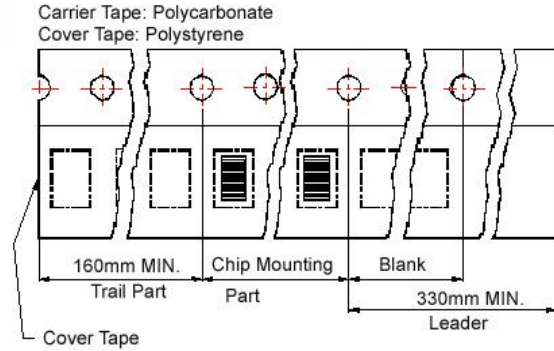
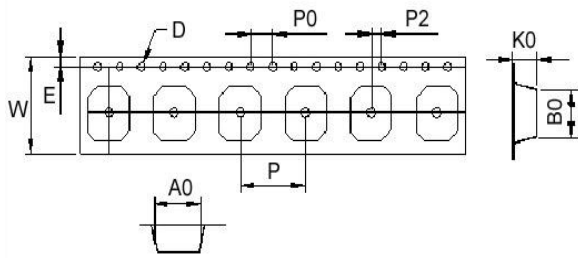


Power Inductor APSR Series

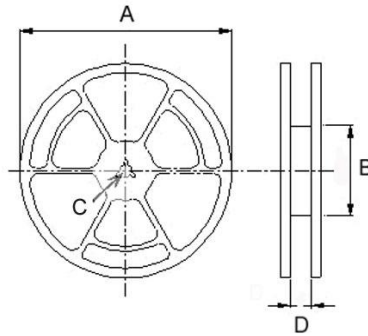
**Automotive
AEC-Q200**

■ 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

Power Inductor APAS Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



Power
Circuit

Shield

Wire
Wound

Ferrite

Part Numbering

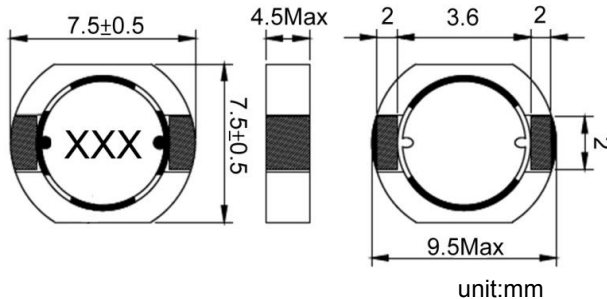
A	PAS	00	080845	1R0	M	Y0
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			080845 7.5x7.5x4.5	1R0 1	M ±20%	Y0
				100 10	T ±30%	Z0
				101 100		

Power Inductor APAS Series

**Automotive
AEC-Q200**

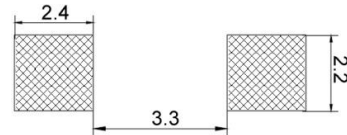
APAS00080845 - Y0 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APAS000808451R0□Y0	1.0	100kHz,0.1V	9±30%	8.5	11	30	1R0
APAS000808451R5□Y0	1.5	100kHz,0.1V	10±30%	6.3	8.6	30	1R5
APAS000808452R2□Y0	2.2	100kHz,0.1V	13±30%	6.2	6.3	30	2R2
APAS000808453R3□Y0	3.3	100kHz,0.1V	16±30%	4.7	6.0	30	3R3
APAS000808454R7□Y0	4.7	100kHz,0.1V	18±30%	4.1	4.8	30	4R7
APAS000808456R8□Y0	6.8	100kHz,0.1V	22±30%	3.1	4.1	30	6R8
APAS00080845100□Y0	10	100kHz,0.1V	33±20%	3.0	3.4	20,30	100
APAS00080845150□Y0	15	100kHz,0.1V	55±20%	2.3	2.8	20,30	150
APAS00080845220□Y0	22	100kHz,0.1V	69±20%	1.7	2.4	20,30	220
APAS00080845270□Y0	27	100kHz,0.1V	83±20%	1.65	2.1	20,30	270
APAS00080845330□Y0	33	100kHz,0.1V	97±20%	1.6	1.9	20,30	330
APAS00080845470□Y0	47	100kHz,0.1V	130±20%	1.26	1.6	20,30	470
APAS00080845680□Y0	68	100kHz,0.1V	170±20%	1.08	1.3	20,30	680
APAS00080845101□Y0	100	100kHz,0.1V	260±20%	0.81	1.1	20,30	101

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

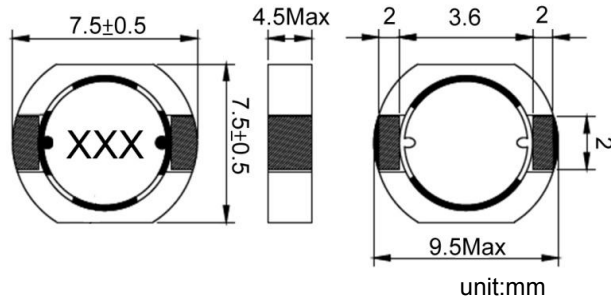
- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temprature rise from 25°C ambient with current
- Rated DC Current: The less value which is Isat or Irms
- Measure Equipment:
 L: HP4284A PRECISION LCR METER (or equivalent)
 RDC: CHROMA MODEL 16502 MILLIOHMETER (or equivalent)
 Isat:WK3255BQ+ WK3265B (or equivalent)
 Irms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APAS Series

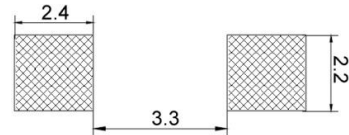
**Automotive
AEC-Q200**

APAS00080845 - Z0 Type

■ Dimensions



■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APAS000808451R0□Z0	1.0	100kHz,0.1V	9±30%	8.5	11	30	1R0
APAS000808451R5□Z0	1.5	100kHz,0.1V	10±30%	6.3	8.6	30	1R5
APAS000808452R2□Z0	2.2	100kHz,0.1V	13±30%	6.2	6.3	30	2R2
APAS000808453R3□Z0	3.3	100kHz,0.1V	16±30%	4.7	6	30	3R3
APAS000808454R7□Z0	4.7	100kHz,0.1V	18±30%	4.1	4.8	30	4R7
APAS000808456R8□Z0	6.8	100kHz,0.1V	22±30%	3.1	4.1	30	6R8
APAS00080845100□Z0	10	100kHz,0.1V	33±20%	3	3.4	20,30	100
APAS00080845150□Z0	15	100kHz,0.1V	55±20%	2.3	2.8	20,30	150
APAS00080845220□Z0	22	100kHz,0.1V	69±20%	1.7	2.4	20,30	220
APAS00080845270□Z0	27	100kHz,0.1V	83±20%	1.65	2.1	20,30	270
APAS00080845330□Z0	33	100kHz,0.1V	97±20%	1.6	1.9	20,30	330
APAS00080845470□Z0	47	100kHz,0.1V	130±20%	1.26	1.6	20,30	470
APAS00080845680□Z0	68	100kHz,0.1V	170±20%	1.08	1.3	20,30	680
APAS00080845101□Z0	100	100kHz,0.1V	260±20%	0.81	1.1	20,30	101

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

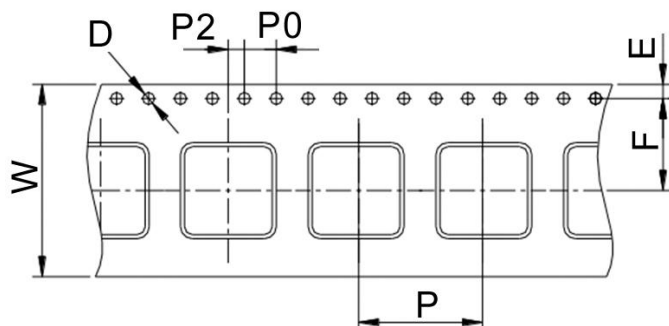
- Operating temperature range - 50°C ~ 150°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temprature rise from 25°C ambient with current
- Rated DC Current: The less value which is Isat or Irms
- Measure Equipment:
 L: HP4284A PRECISION LCR METER (or equivalent)
 RDC: CHROMA MODEL 16502 MILLIOHMETER (or equivalent)
 Isat:WK3255BQ+ WK3265B (or equivalent)
 Irms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APAS Series

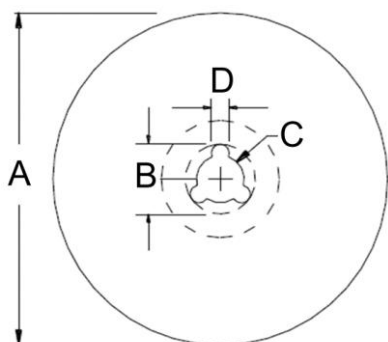
**Automotive
AEC-Q200**

■ Packaging

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity PCS / REEL
	W	D	E	F	P	P0	P2	A	B	C	D	
APAS00080845	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000

Power Inductor APAL Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



Power
Circuit

Shield

Wire
Wound

Ferrite

Part Numbering

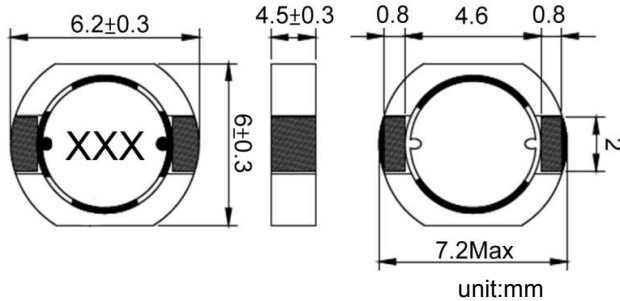
A	PAL	00	080845	1R0	M	70
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			060645 6.2x6x4.5	1R0 1	M ±20%	70
			080845 7.5x7.5x4.5	100 10	T ±30%	80
				101 100		

Power Inductor APAL Series

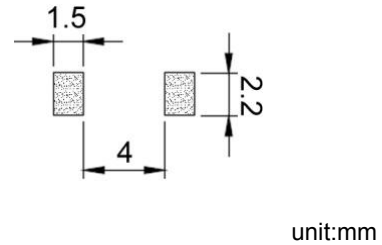
**Automotive
AEC-Q200**

APAL00060645 - 70 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APAL000606451R0□70	1.0	100kHz,0.1V	11±30%	6.7	4.8	30	1R0
APAL000606451R5□70	1.5	100kHz,0.1V	13±30%	5.5	4.5	30	1R5
APAL000606452R2□70	2.2	100kHz,0.1V	15±30%	4.2	4.1	30	2R2
APAL000606453R3□70	3.3	100kHz,0.1V	19±30%	3.5	3.7	30	3R3
APAL000606454R7□70	4.7	100kHz,0.1V	23±30%	3.1	3.3	30	4R7
APAL000606456R8□70	6.8	100kHz,0.1V	27±30%	2.5	3.1	30	6R8
APAL00060645100□70	10	100kHz,0.1V	35±20%	2.1	2.6	20,30	100
APAL00060645150□70	15	100kHz,0.1V	60±20%	1.7	2.0	20,30	150
APAL00060645220□70	22	100kHz,0.1V	75±20%	1.4	1.8	20,30	220
APAL00060645330□70	33	100kHz,0.1V	100±20%	1.1	1.6	20,30	330
APAL00060645470□70	47	100kHz,0.1V	130±20%	0.97	1.4	20,30	470
APAL00060645680□70	68	100kHz,0.1V	200±20%	0.81	1.1	20,30	680
APAL00060645101□70	100	100kHz,0.1V	320±20%	0.61	0.86	20,30	101

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

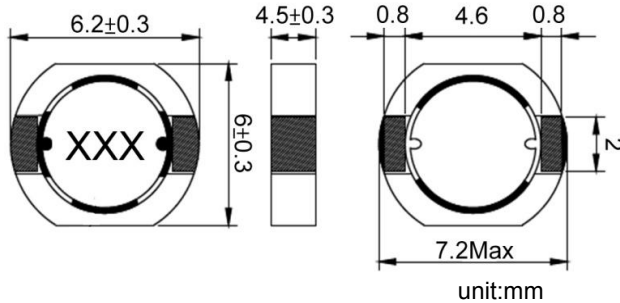
1. Operating temperature range - 50°C ~ 150°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Iirms for a 40°C temprature rise from 25°C ambient with current
4. Rated DC Current: The less value which is Isat or Iirms
5. Measure Equipment:
 L: HP4284A PRECISION LCR METER (or equivalent)
 RDC: CHROMA MODEL 16502 MILLIOHMETER (or equivalent)
 Isat:WK3255BQ+ WK3265B (or equivalent)
 Iirms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APAL Series

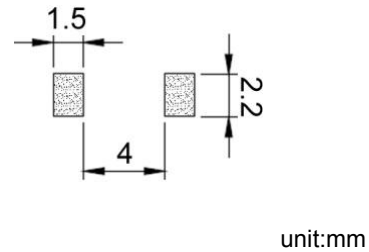
**Automotive
AEC-Q200**

APAL00060645 - 80 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APAL000606451R0□80	1.0	100kHz,0.1V	11±30%	6.7	4.8	30	1R0
APAL000606451R5□80	1.5	100kHz,0.1V	13±30%	5.5	4.5	30	1R5
APAL000606452R2□80	2.2	100kHz,0.1V	15±30%	4.2	4.1	30	2R2
APAL000606453R3□80	3.3	100kHz,0.1V	19±30%	3.5	3.7	30	3R3
APAL000606454R7□80	4.7	100kHz,0.1V	23±30%	3.1	3.3	30	4R7
APAL000606456R8□80	6.8	100kHz,0.1V	27±30%	2.5	3.1	30	6R8
APAL00060645100□80	10	100kHz,0.1V	35±20%	2.1	2.6	20,30	100
APAL00060645150□80	15	100kHz,0.1V	60±20%	1.7	2.0	20,30	150
APAL00060645220□80	22	100kHz,0.1V	75±20%	1.4	1.8	20,30	220
APAL00060645330□80	33	100kHz,0.1V	100±20%	1.1	1.6	20,30	330
APAL00060645470□80	47	100kHz,0.1V	130±20%	0.97	1.4	20,30	470
APAL00060645680□80	68	100kHz,0.1V	200±20%	0.81	1.1	20,30	680
APAL00060645101□80	100	100kHz,0.1V	320±20%	0.61	0.86	20,30	101

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

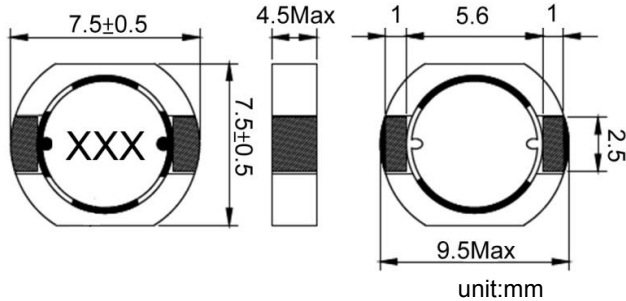
- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temprature rise from 25°C ambient with current
- Rated DC Current: The less value which is Isat or Irms
- Measure Equipment:
 L: HP4284A PRECISION LCR METER (or equivalent)
 RDC: CHROMA MODEL 16502 MILLIOHMETER (or equivalent)
 Isat:WK3255BQ+ WK3265B (or equivalent)
 Irms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APAL Series

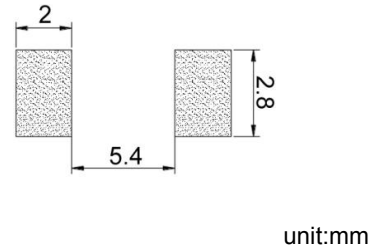
**Automotive
AEC-Q200**

APAL00080845 - 70 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APAL000808451R0□70	1.0	100kHz,0.1V	9±30%	8.5	11	30	1R0
APAL000808451R5□70	1.5	100kHz,0.1V	10±30%	6.3	8.6	30	1R5
APAL000808452R2□70	2.2	100kHz,0.1V	13±30%	6.2	6.3	30	2R2
APAL000808453R3□70	3.3	100kHz,0.1V	16±30%	4.7	6	30	3R3
APAL000808454R7□70	4.7	100kHz,0.1V	18±30%	4.1	4.8	30	4R7
APAL000808456R8□70	6.8	100kHz,0.1V	22±30%	3.1	4.1	30	6R8
APAL00080845100□70	10	100kHz,0.1V	33±20%	3	3.4	20,30	100
APAL00080845150□70	15	100kHz,0.1V	55±20%	2.3	2.8	20,30	150
APAL00080845220□70	22	100kHz,0.1V	69±20%	1.7	2.4	20,30	220
APAL00080845270□70	27	100kHz,0.1V	83±20%	1.65	2.1	20,30	270
APAL00080845330□70	33	100kHz,0.1V	97±20%	1.6	1.9	20,30	330
APAL00080845470□70	47	100kHz,0.1V	130±20%	1.26	1.6	20,30	470
APAL00080845680□70	68	100kHz,0.1V	170±20%	1.08	1.3	20,30	680
APAL00080845101□70	100	100kHz,0.1V	260±20%	0.81	1.1	20,30	101

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

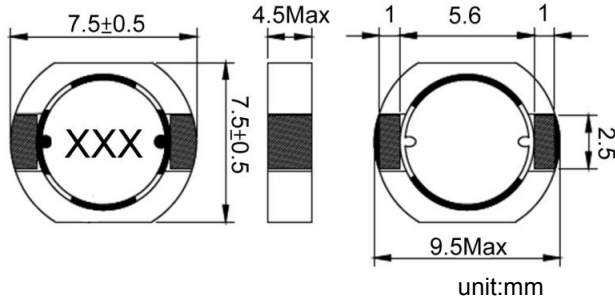
- Operating temperature range - 50°C ~ 150°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temprature rise from 25°C ambient with current
- Rated DC Current: The less value which is Isat or Irms
- Measure Equipment:
 L: HP4284A PRECISION LCR METER (or equivalent)
 RDC: CHROMA MODEL 16502 MILLIOHMETER (or equivalent)
 Isat:WK3255BQ+ WK3265B (or equivalent)
 Irms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APAL Series

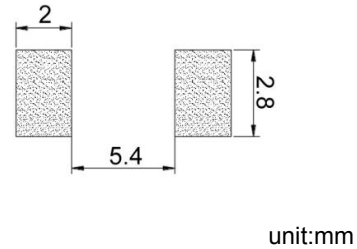
**Automotive
AEC-Q200**

APAL00080845 - 80 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APAL000808451R0□80	1.0	100kHz,0.1V	9±30%	8.5	11	30	1R0
APAL000808451R5□80	1.5	100kHz,0.1V	10±30%	6.3	8.6	30	1R5
APAL000808452R2□80	2.2	100kHz,0.1V	13±30%	6.2	6.3	30	2R2
APAL000808453R3□80	3.3	100kHz,0.1V	16±30%	4.7	6	30	3R3
APAL000808454R7□80	4.7	100kHz,0.1V	18±30%	4.1	4.8	30	4R7
APAL000808456R8□80	6.8	100kHz,0.1V	22±30%	3.1	4.1	30	6R8
APAL00080845100□80	10	100kHz,0.1V	33±20%	3	3.4	20,30	100
APAL00080845150□80	15	100kHz,0.1V	55±20%	2.3	2.8	20,30	150
APAL00080845220□80	22	100kHz,0.1V	69±20%	1.7	2.4	20,30	220
APAL00080845270□80	27	100kHz,0.1V	83±20%	1.65	2.1	20,30	270
APAL00080845330□80	33	100kHz,0.1V	97±20%	1.6	1.9	20,30	330
APAL00080845470□80	47	100kHz,0.1V	130±20%	1.26	1.6	20,30	470
APAL00080845680□80	68	100kHz,0.1V	170±20%	1.08	1.3	20,30	680
APAL00080845101□80	100	100kHz,0.1V	260±20%	0.81	1.1	20,30	101

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

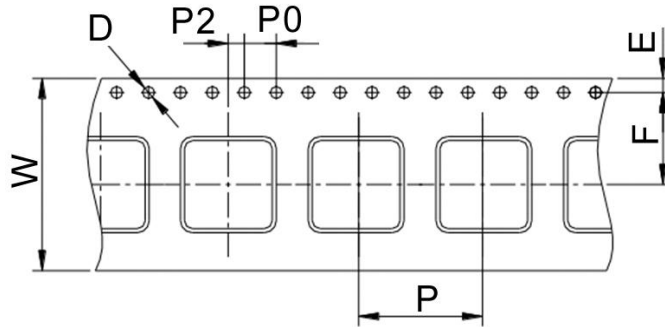
- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temprature rise from 25°C ambient with current
- Rated DC Current: The less value which is Isat or Irms
- Measure Equipment:
 L: HP4284A PRECISION LCR METER (or equivalent)
 RDC: CHROMA MODEL 16502 MILLIOHMETER (or equivalent)
 Isat:WK3255BQ+ WK3265B (or equivalent)
 Irms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APAL Series

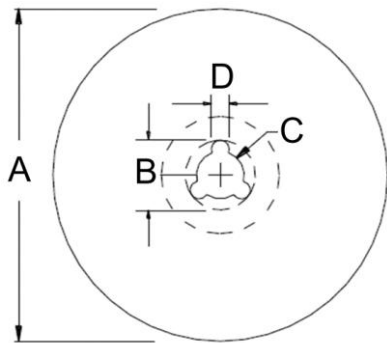
**Automotive
AEC-Q200**

■ Packaging

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity PCS / REEL
	W	D	E	F	P	P0	P2	A	B	C	D	
APAL00060645	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
APAL00080845	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000

Power Inductor APCT Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



Power
Circuit

Shield

Wire
Wound

Ferrite

Part Numbering

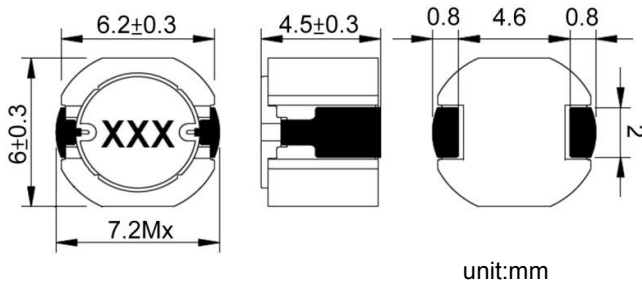
A	PCT	00	060645	1R0	M	70
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			060645 6.2x6x4.5	1R0 1	M ±20%	70
			080845 7.5x7.5x4.5	100 10	T ±30%	80
			101065 10.3x10x6.5	101 100		Y0
			131285 12.5x12.3x8.5			Z0

Power Inductor APCT Series

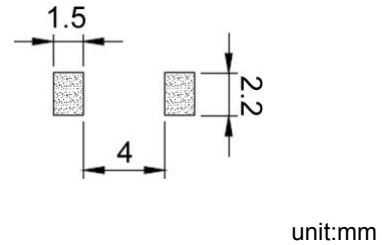
**Automotive
AEC-Q200**

APCT00060645 - 70 Type

Dimensions



Recommended Land Pattern



Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APCT000606451R0□70	1.0	100kHz,0.25V	11±30%	6.7	4.8	30	1R0
APCT000606451R5□70	1.5	100kHz,0.25V	13±30%	5.5	4.5	30	1R5
APCT000606452R2□70	2.2	100kHz,0.25V	15±30%	4.2	4.1	30	2R2
APCT000606453R3□70	3.3	100kHz,0.25V	19±30%	3.5	3.7	30	3R3
APCT000606454R7□70	4.7	100kHz,0.25V	23±30%	3.1	3.3	30	4R7
APCT000606456R8□70	6.8	100kHz,0.25V	27±30%	2.5	3.1	30	6R8
APCT00060645100□70	10	100kHz,0.25V	35±20%	2.1	2.6	20,30	100

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

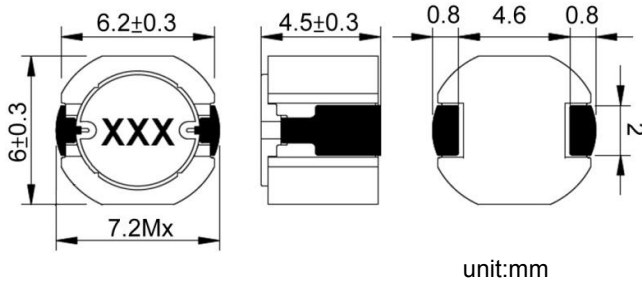
- Operating temperature range - 55°C ~ 150°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temprature rise from 25°C ambient with current
- Rated DC Current: The less value which is Isat or Irms
- Measure Equipment:
 - L: HP4284A PRECISION LCR METER (or equivalent)
 - RDC: CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
 - Isat:WK3255BQ+ WK3265B (or equivalent)
 - Irms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APCT Series

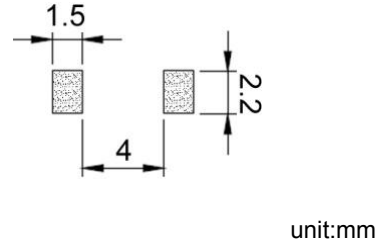
**Automotive
AEC-Q200**

APCT00060645 - 80 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APCT000606451R0□80	1.0	100kHz,0.25V	11±30%	6.7	4.8	30	1R0
APCT000606451R5□80	1.5	100kHz,0.25V	13±30%	5.5	4.5	30	1R5
APCT000606452R2□80	2.2	100kHz,0.25V	15±30%	4.2	4.1	30	2R2
APCT000606453R3□80	3.3	100kHz,0.25V	19±30%	3.5	3.7	30	3R3
APCT000606454R7□80	4.7	100kHz,0.25V	23±30%	3.1	3.3	30	4R7
APCT000606456R8□80	6.8	100kHz,0.25V	27±30%	2.5	3.1	30	6R8
APCT00060645100□80	10	100kHz,0.25V	35±20%	2.1	2.6	20,30	100

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

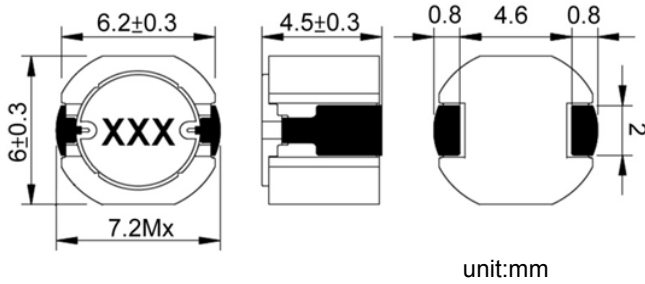
- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temprature rise from 25°C ambient with current
- Rated DC Current: The less value which is Isat or Irms
- Measure Equipment:
 L: HP4284A PRECISION LCR METER (or equivalent)
 RDC: CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
 Isat:WK3255BQ+ WK3265B (or equivalent)
 Irms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APCT Series

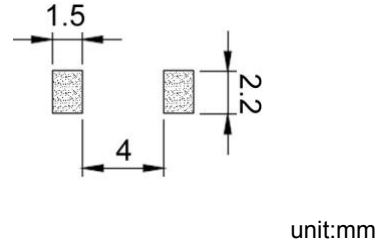
**Automotive
AEC-Q200**

APCT00060645 - Y0 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat (A)	Irms (A)	Tolerance ($\pm\%$)	Marking
APCT000606451R0□Y0	1.0	100kHz,0.25V	0.0154	6.7	4.8	30	1R0
APCT00060645100□Y0	10	100kHz,0.25V	0.0837	2.1	2.1	20,30	100
APCT00060645150□Y0	15	100kHz,0.25V	0.15	1.7	1.7	20,30	150
APCT00060645220□Y0	22	100kHz,0.25V	0.19	1.4	1.4	20,30	220
APCT00060645101□Y0	100	100kHz,0.25V	0.68	0.61	0.61	20,30	101
APCT00060645221□Y0	220	100kHz,0.25V	1.6	0.47	0.47	20,30	221
APCT00060645471□Y0	470	100kHz,0.25V	3.34	0.28	0.28	20,30	471

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

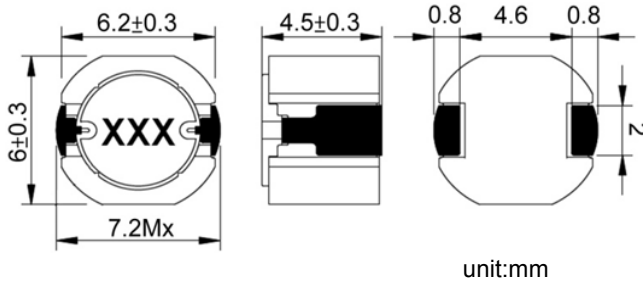
- Operating temperature range - 40°C ~ 125°C (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temprature rise from 25°C ambient with current
- Rated DC Current: The less value which is Isat or Irms
- Measure Equipment:
 - L: HP4284A PRECISION LCR METER (or equivalent)
 - RDC: CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
 - Isat:WK3255BQ+ WK3265B (or equivalent)
 - Irms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APCT Series

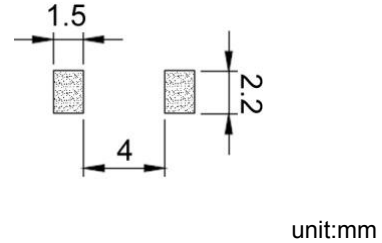
**Automotive
AEC-Q200**

APCT00060645 - Z0 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APCT000606451R0□Z0	1.0	100kHz,0.25V	0.0154	6.7	4.8	30	1R0
APCT00060645100□Z0	10	100kHz,0.25V	0.0837	2.1	2.1	20,30	100
APCT00060645150□Z0	15	100kHz,0.25V	0.15	1.7	1.7	20,30	150
APCT00060645220□Z0	22	100kHz,0.25V	0.19	1.4	1.4	20,30	220
APCT00060645101□Z0	100	100kHz,0.25V	0.68	0.61	0.61	20,30	101
APCT00060645221□Z0	220	100kHz,0.25V	1.6	0.47	0.47	20,30	221
APCT00060645471□Z0	470	100kHz,0.25V	3.34	0.28	0.28	20,30	471

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

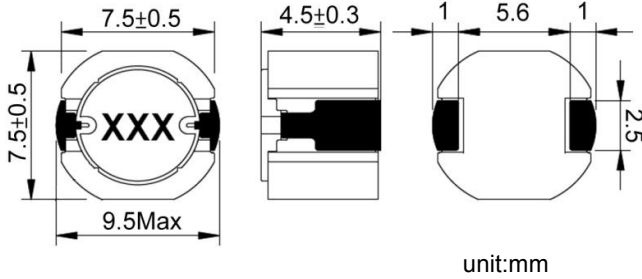
- Operating temperature range - 50°C ~ 150°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temprature rise from 25°C ambient with current
- Rated DC Current: The less value which is Isat or Irms
- Measure Equipment:
 - L: HP4284A PRECISION LCR METER (or equivalent)
 - RDC: CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
 - Isat:WK3255BQ+ WK3265B (or equivalent)
 - Irms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APCT Series

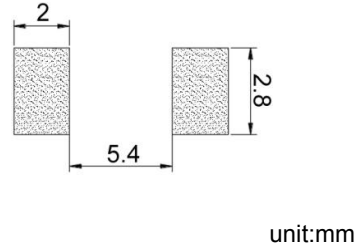
**Automotive
AEC-Q200**

APCT00080845 - 70 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APCT000808451R0□70	1.0	100kHz,0.25V	9±30%	8.5	6.5	30	1R0
APCT000808451R5□70	1.5	100kHz,0.25V	10±30%	6.3	5.4	30	1R5
APCT000808452R2□70	2.2	100kHz,0.25V	13±30%	6.2	5.1	30	2R2
APCT000808453R3□70	3.3	100kHz,0.25V	16±30%	4.7	4.8	30	3R3
APCT000808454R7□70	4.7	100kHz,0.25V	18±30%	4.1	4.1	30	4R7
APCT000808456R8□70	6.8	100kHz,0.25V	22±30%	3.1	3.9	30	6R8
APCT00080845100□70	10	100kHz,0.25V	33±30%	3	3.1	20,30	100

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

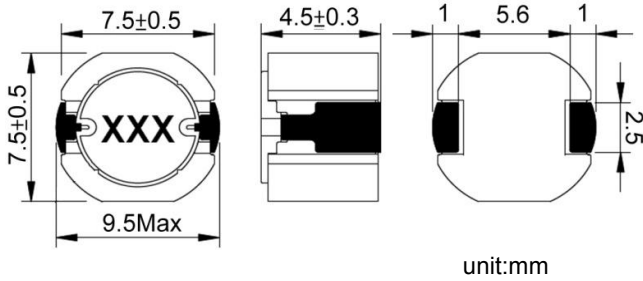
1. Operating temperature range - 55°C ~ 150°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temprature rise from 25°C ambient with current
4. Rated DC Current: The less value which is Isat or I rms
5. Measure Equipment:
 - L: HP4284A PRECISION LCR METER (or equivalent)
 - RDC: CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
 - Isat:WK3255BQ+ WK3265B (or equivalent)
 - I rms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APCT Series

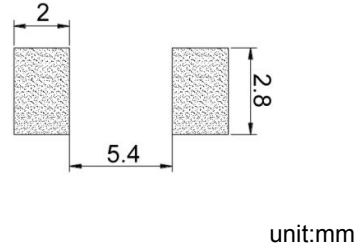
**Automotive
AEC-Q200**

APCT00080845 - 80 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APCT000808451R0□80	1.0	100kHz,0.25V	9±30%	8.5	6.5	30	1R0
APCT000808451R5□80	1.5	100kHz,0.25V	10±30%	6.3	5.4	30	1R5
APCT000808452R2□80	2.2	100kHz,0.25V	13±30%	6.2	5.1	30	2R2
APCT000808453R3□80	3.3	100kHz,0.25V	16±30%	4.7	4.8	30	3R3
APCT000808454R7□80	4.7	100kHz,0.25V	18±30%	4.1	4.1	30	4R7
APCT000808456R8□80	6.8	100kHz,0.25V	22±30%	3.1	3.9	30	6R8
APCT00080845100□80	10	100kHz,0.25V	33±30%	3	3.1	20,30	100

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

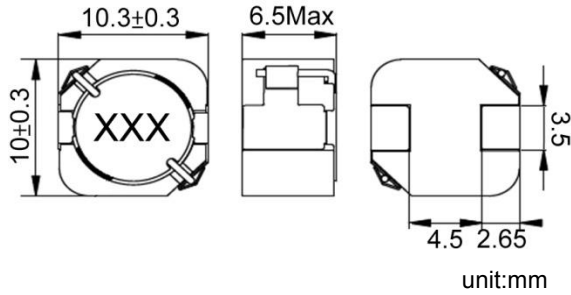
1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temprature rise from 25°C ambient with current
4. Rated DC Current: The less value which is Isat or I rms
5. Measure Equipment:
 - L: HP4284A PRECISION LCR METER (or equivalent)
 - RDC: CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
 - Isat:WK3255BQ+ WK3265B (or equivalent)
 - I rms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APCT Series

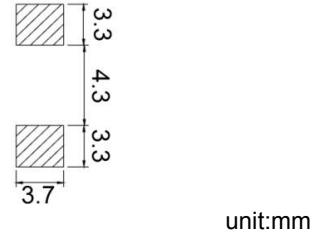
**Automotive
AEC-Q200**

APCT00101065 - 70 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)Typ.	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APCT001010651R0□70	1.0	100kHz,0.25V	5.4	11.5	10.5	30	1R0
APCT001010651R5□70	1.5	100kHz,0.25V	6.2	11	9.3	30	1R5
APCT001010652R2□70	2.2	100kHz,0.25V	7.1	9	8.5	30	2R2
APCT001010653R3□70	3.3	100kHz,0.25V	8.5	5.8	8.1	30	3R3
APCT001010654R7□70	4.7	100kHz,0.25V	11	5.7	7	30	4R7
APCT001010656R8□70	6.8	100kHz,0.25V	13	4.25	6.6	30	6R8
APCT00101065100□70	10	100kHz,0.25V	17	3.6	5.8	20,30	100
APCT00101065220□70	22	100kHz,0.25V	43	2.65	3.3	20,30	220
APCT00101065330□70	33	100kHz,0.25V	61	2.15	2.9	20,30	330
APCT00101065470□70	47	100kHz,0.25V	74	2	2.6	20,30	470
APCT00101065101□70	100	100kHz,0.25V	150	1.35	1.9	20,30	101
APCT00101065221□70	220	100kHz,0.25V	350	0.85	1.2	20,30	221
APCT00101065471□70	470	100kHz,0.25V	600	0.6	0.9	20,30	471

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

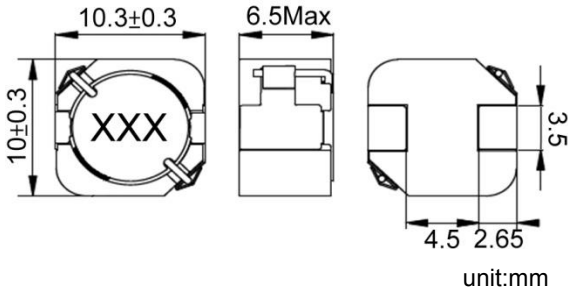
- Operating temperature range - 55°C ~ 150°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temprature rise from 25°C ambient with current
- Rated DC Current: The less value which is Isat or Irms
- Measure Equipment:
 L: HP4284A PRECISION LCR METER (or equivalent)
 RDC: CHROMA MODEL 16502 MILLIOHMETER (or equivalent)
 Isat:WK3255BQ+ WK3265B (or equivalent)
 Irms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APCT Series

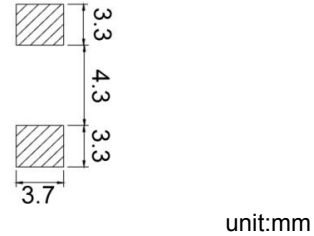
**Automotive
AEC-Q200**

APCT00101065 - 80 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)Typ.	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APCT001010651R0□80	1.0	100kHz,0.25V	5.4	11.5	10.5	30	1R0
APCT001010651R5□80	1.5	100kHz,0.25V	6.2	11	9.3	30	1R5
APCT001010652R2□80	2.2	100kHz,0.25V	7.1	9	8.5	30	2R2
APCT001010653R3□80	3.3	100kHz,0.25V	8.5	5.8	8.1	30	3R3
APCT001010654R7□80	4.7	100kHz,0.25V	11	5.7	7	30	4R7
APCT001010656R8□80	6.8	100kHz,0.25V	13	4.25	6.6	30	6R8
APCT00101065100□80	10	100kHz,0.25V	17	3.6	5.8	20,30	100
APCT00101065220□80	22	100kHz,0.25V	43	2.65	3.3	20,30	220
APCT00101065330□80	33	100kHz,0.25V	61	2.15	2.9	20,30	330
APCT00101065470□80	47	100kHz,0.25V	74	2	2.6	20,30	470
APCT00101065101□80	100	100kHz,0.25V	150	1.35	1.9	20,30	101
APCT00151065151□80	150	100kHz,0.25V	240	1.05	1.5	20,30	151
APCT00101065221□80	220	100kHz,0.25V	350	0.85	1.2	20,30	221
APCT00101065471□80	470	100kHz,0.25V	600	0.6	0.9	20,30	471

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

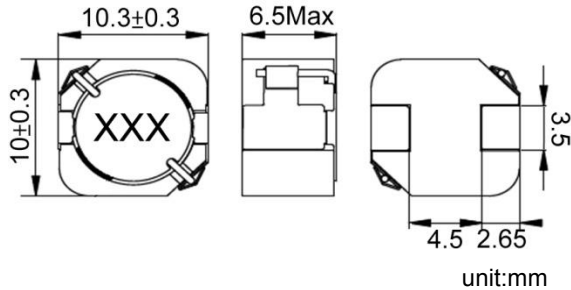
- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temprature rise from 25°C ambient with current
- Rated DC Current: The less value which is Isat or Irms
- Measure Equipment:
 L: HP4284A PRECISION LCR METER (or equivalent)
 RDC: CHROMA MODEL 16502 MILLIOHMETER (or equivalent)
 Isat:WK3255BQ+ WK3265B (or equivalent)
 Irms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APCT Series

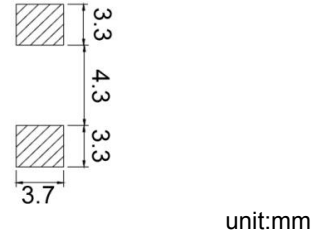
**Automotive
AEC-Q200**

APCT00101065 - Y0 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APCT001010652R2□Y0	2.2	100kHz,0.25V	0.012	9	8.3	30	2R2
APCT00101065100□Y0	10	100kHz,0.25V	0.033	3.4	5.5	20,30	100
APCT00101065150□Y0	15	100kHz,0.25V	0.04	3.3	4.1	20,30	150
APCT00101065220□Y0	22	100kHz,0.25V	0.059	2.45	3	20,30	220
APCT00101065330□Y0	33	100kHz,0.25V	0.085	2.15	2.9	20,30	330
APCT00101065470□Y0	47	100kHz,0.25V	0.104	1.8	2.3	20,30	470
APCT00101065680□Y0	68	100kHz,0.25V	0.145	1.45	2.1	20,30	680
APCT00101065101□Y0	100	100kHz,0.25V	0.215	1.15	1.6	20,30	101
APCT00101065221□Y0	220	100kHz,0.25V	0.554	0.65	0.9	20,30	221
APCT00101065471□Y0	470	100kHz,0.25V	1.12	0.4	0.6	20,30	471

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

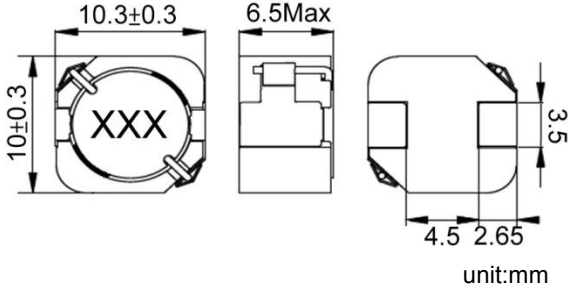
1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40°C temprature rise from 25°C ambient with current
4. Rated DC Current: The less value which is Isat or Irms
5. Measure Equipment:
 - L: HP4284A PRECISION LCR METER (or equivalent)
 - RDC: CHROMA MODEL 16502 MILLIOHMETER (or equivalent)
 - Isat:WK3255BQ+ WK3265B (or equivalent)
 - Irms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APCT Series

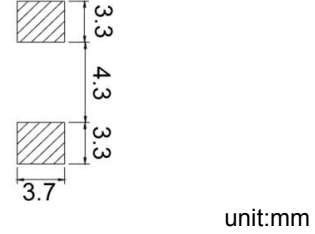
**Automotive
AEC-Q200**

APCT00101065 - Z0 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APCT001010652R2□Z0	2.2	100kHz,0.25V	0.012	9	8.3	30	2R2
APCT00101065100□Z0	10	100kHz,0.25V	0.033	3.4	5.5	20,30	100
APCT00101065150□Z0	15	100kHz,0.25V	0.04	3.3	4.1	20,30	150
APCT00101065220□Z0	22	100kHz,0.25V	0.059	2.45	3	20,30	220
APCT00101065330□Z0	33	100kHz,0.25V	0.085	2.15	2.9	20,30	330
APCT00101065470□Z0	47	100kHz,0.25V	0.104	1.8	2.3	20,30	470
APCT00101065680□Z0	68	100kHz,0.25V	0.145	1.45	2.1	20,30	680
APCT00101065101□Z0	100	100kHz,0.25V	0.215	1.15	1.6	20,30	101
APCT00101065221□Z0	220	100kHz,0.25V	0.554	0.65	0.9	20,30	221
APCT00101065471□Z0	470	100kHz,0.25V	1.12	0.4	0.6	20,30	471

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

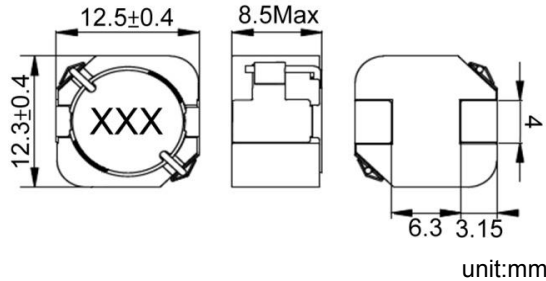
1. Operating temperature range - 50°C ~ 150°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40°C temprature rise from 25°C ambient with current
4. Rated DC Current: The less value which is Isat or Irms
5. Measure Equipment:
 - L: HP4284A PRECISION LCR METER (or equivalent)
 - RDC: CHROMA MODEL 16502 MILLIOHMETER (or equivalent)
 - Isat:WK3255BQ+ WK3265B (or equivalent)
 - Irms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APCT Series

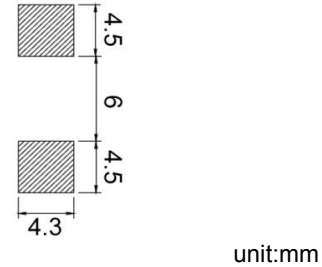
**Automotive
AEC-Q200**

APCT00131285 - 70 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)Typ.	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APCT001312856R8□70	6.8	100kHz,0.25V	10	7.3	8.5	30	6R8
APCT00131285100□70	10	100kHz,0.25V	12	6.4	7.7	20,30	100
APCT00131285150□70	15	100kHz,0.25V	24	5.85	5.1	20,30	150
APCT00131285220□70	22	100kHz,0.25V	27	4.3	4.5	20,30	220
APCT00131285330□70	33	100kHz,0.25V	52	3.65	3.6	20,30	330
APCT00131285470□70	47	100kHz,0.25V	66	3.1	3.2	20,30	470
APCT00131285680□70	68	100kHz,0.25V	90	2.65	2.7	20,30	680
APCT00131285101□70	100	100kHz,0.25V	110	2.1	2.6	20,30	101
APCT00131285151□70	150	100kHz,0.25V	170	1.8	2.1	20,30	151
APCT00131285221□70	220	100kHz,0.25V	280	1.55	1.6	20,30	221
APCT00131285331□70	330	100kHz,0.25V	410	1.2	1.25	20,30	331
APCT00131285471□70	470	100kHz,0.25V	590	1	1.1	20,30	471

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

1. Operating temperature range - 55°C ~ 150°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. Rated DC Current: The less value which is Isat or Irms
5. Measure Equipment:

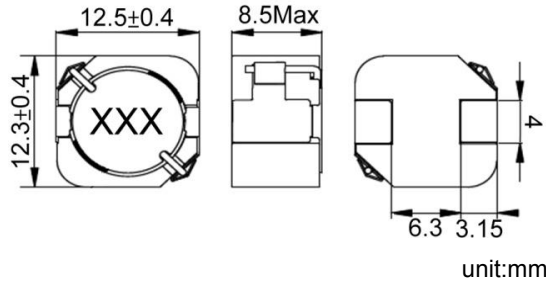
- L: HP4284A PRECISION LCR METER (or equivalent)
- RDC: CHROMA MODEL 16502 MILLIOHMETER (or equivalent)
- Isat:WK3255BQ+ WK3265B (or equivalent)
- Irms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APCT Series

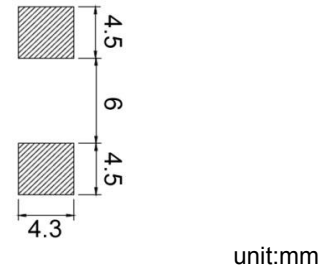
**Automotive
AEC-Q200**

APCT00131285 - 80 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)Typ.	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APCT001312856R8□80	6.8	100kHz,0.25V	10	7.3	8.5	30	6R8
APCT00131285100□80	10	100kHz,0.25V	12	6.4	7.7	20,30	100
APCT00131285150□80	15	100kHz,0.25V	24	5.85	5.1	20,30	150
APCT00131285220□80	22	100kHz,0.25V	27	4.3	4.5	20,30	220
APCT00131285330□80	33	100kHz,0.25V	52	3.65	3.6	20,30	330
APCT00131285470□80	47	100kHz,0.25V	66	3.1	3.2	20,30	470
APCT00131285680□80	68	100kHz,0.25V	90	2.65	2.7	20,30	680
APCT00131285101□80	100	100kHz,0.25V	110	2.1	2.6	20,30	101
APCT00131285151□80	150	100kHz,0.25V	170	1.8	2.1	20,30	151
APCT00131285221□80	220	100kHz,0.25V	280	1.55	1.6	20,30	221
APCT00131285331□80	330	100kHz,0.25V	410	1.2	1.25	20,30	331
APCT00131285471□80	470	100kHz,0.25V	590	1	1.1	20,30	471

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. Iirms for a 40°C temprature rise from 25°C ambient with current
4. Rated DC Current: The less value which is Isat or Iirms
5. Measure Equipment:

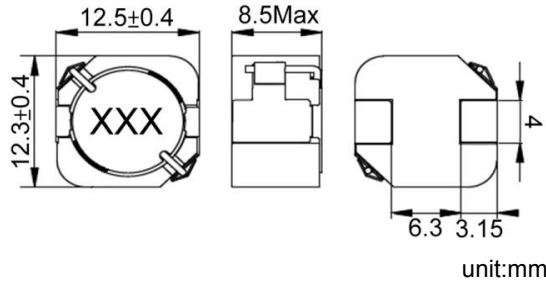
- L: HP4284A PRECISION LCR METER (or equivalent)
- RDC: CHROMA MODEL 16502 MILLIOHMETER (or equivalent)
- Isat:WK3255BQ+ WK3265B (or equivalent)
- Iirms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APCT Series

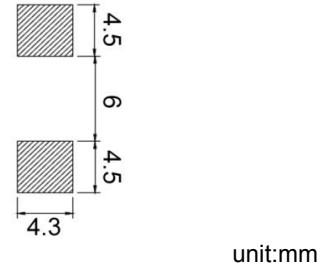
**Automotive
AEC-Q200**

APCT00131285 - Y0 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)Max.	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APCT00131285100□Y0	10	100kHz,0.25V	20	6.4	6	20,30	100
APCT00131285150□Y0	15	100kHz,0.25V	34	5.8	5	20,30	150
APCT00131285220□Y0	22	100kHz,0.25V	37	4.3	4.4	20,30	220
APCT00131285330□Y0	33	100kHz,0.25V	68	3.6	3.5	20,30	330
APCT00131285470□Y0	47	100kHz,0.25V	82	3.1	3.1	20,30	470
APCT00131285680□Y0	68	100kHz,0.25V	100	2.65	2.7	20,30	680
APCT00131285101□Y0	100	100kHz,0.25V	133	2.1	2.5	20,30	101
APCT00131285151□Y0	150	100kHz,0.25V	220	1.8	2	20,30	151
APCT00131285221□Y0	220	100kHz,0.25V	330	1.5	1.5	20,30	221
APCT00131285331□Y0	330	100kHz,0.25V	533	1.2	1.15	20,30	331
APCT00131285471□Y0	470	100kHz,0.25V	755	1	1	20,30	471

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

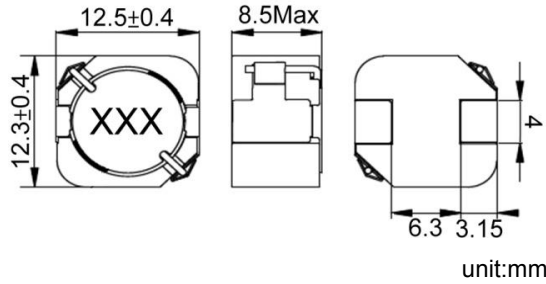
1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for inductance drop 30% from its value without current
3. Iirms for a 40°C temperature rise from 25°C ambient with current
4. Rated DC Current: The less value which is Isat or Iirms
5. Measure Equipment:
 L: HP4284A PRECISION LCR METER (or equivalent)
 RDC: CHROMA MODEL 16502 MILLIOHMETER (or equivalent)
 Isat:WK3255BQ+ WK3265B (or equivalent)
 Iirms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APCT Series

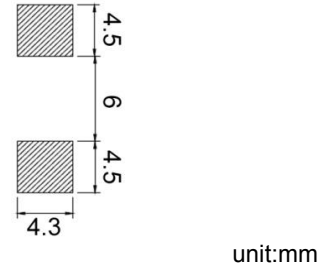
**Automotive
AEC-Q200**

APCT00131285 - Z0 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)Max.	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APCT00131285100□Z0	10	100kHz,0.25V	20	6.4	6	20,30	100
APCT00131285150□Z0	15	100kHz,0.25V	34	5.8	5	20,30	150
APCT00131285220□Z0	22	100kHz,0.25V	37	4.3	4.4	20,30	220
APCT00131285330□Z0	33	100kHz,0.25V	68	3.6	3.5	20,30	330
APCT00131285470□Z0	47	100kHz,0.25V	82	3.1	3.1	20,30	470
APCT00131285680□Z0	68	100kHz,0.25V	100	2.65	2.7	20,30	680
APCT00131285101□Z0	100	100kHz,0.25V	133	2.1	2.5	20,30	101
APCT00131285151□Z0	150	100kHz,0.25V	220	1.8	2	20,30	151
APCT00131285221□Z0	220	100kHz,0.25V	330	1.5	1.5	20,30	221
APCT00131285331□Z0	330	100kHz,0.25V	533	1.2	1.15	20,30	331
APCT00131285471□Z0	470	100kHz,0.25V	755	1	1	20,30	471

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

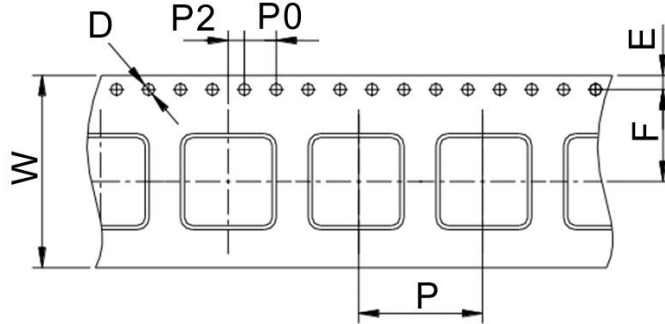
1. Operating temperature range - 50°C ~ 150°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Iirms for a 40°C temprature rise from 25°C ambient with current
4. Rated DC Current: The less value which is Isat or Iirms
5. Measure Equipment:
 L: HP4284A PRECISION LCR METER (or equivalent)
 RDC: CHROMA MODEL 16502 MILLIOHMETER (or equivalent)
 Isat:WK3255BQ+ WK3265B (or equivalent)
 Iirms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APCT Series

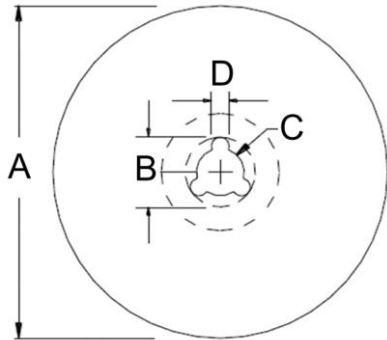
**Automotive
AEC-Q200**

■ 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
APCT00060645	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
APCT00080845	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
APCT00101065	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500
APCT00131285	24	1.5	1.75	11.5	16	4	2	330	20	13	2	400

Power Inductor APCA Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



- Power Circuit
- Shield
- Wire Wound
- Ferrite

Part Numbering

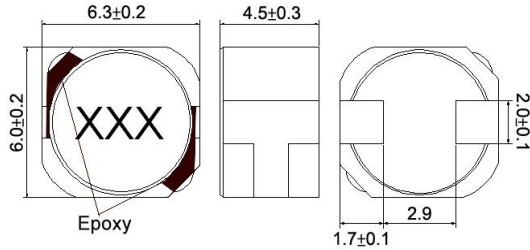
A	PCA	00	060645	1R0	T	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			060645 6.0x6.3x4.5	1R0 1.0	M ±20%	
			070745 7.0x7.4x4.5	100 10	T ±30%	
				101 100		

Power Inductor APCA Series

**Automotive
AEC-Q200**

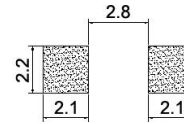
APCA00060645 Type

■ 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°C ~ 125°C(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. I rms for a 40°C temprature rise from 25°C ambient.
5. Measure Equipment:
L: HP4284+42841A
RDC: Chroma 16502
Isat: HP4284+42841A

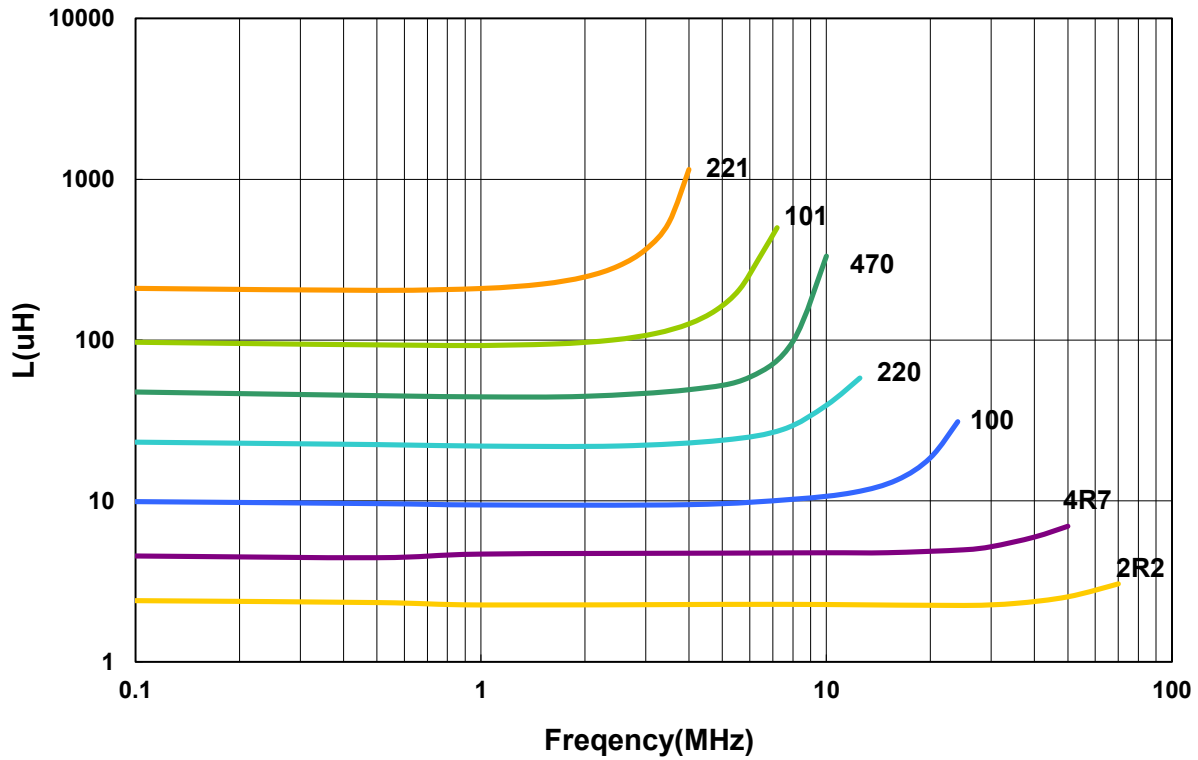
Power Inductor APCA Series

**Automotive
AEC-Q200**

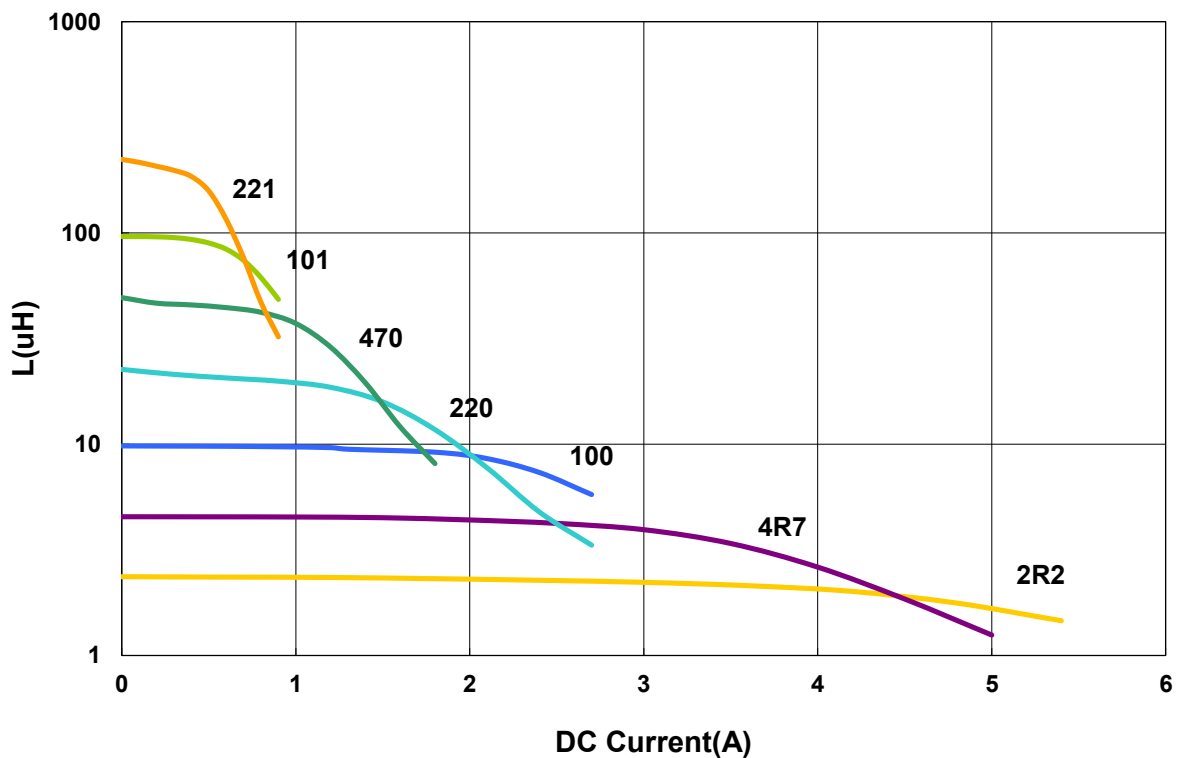
APCA00060645 Type

Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current



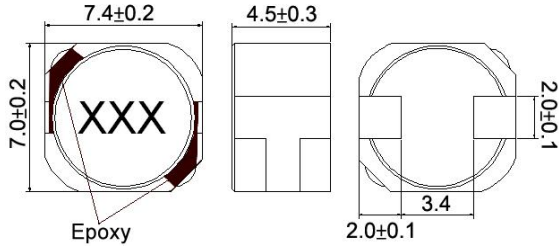
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

Power Inductor APCA Series

**Automotive
AEC-Q200**

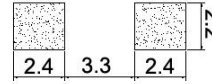
APCA00070745 Type

■ 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

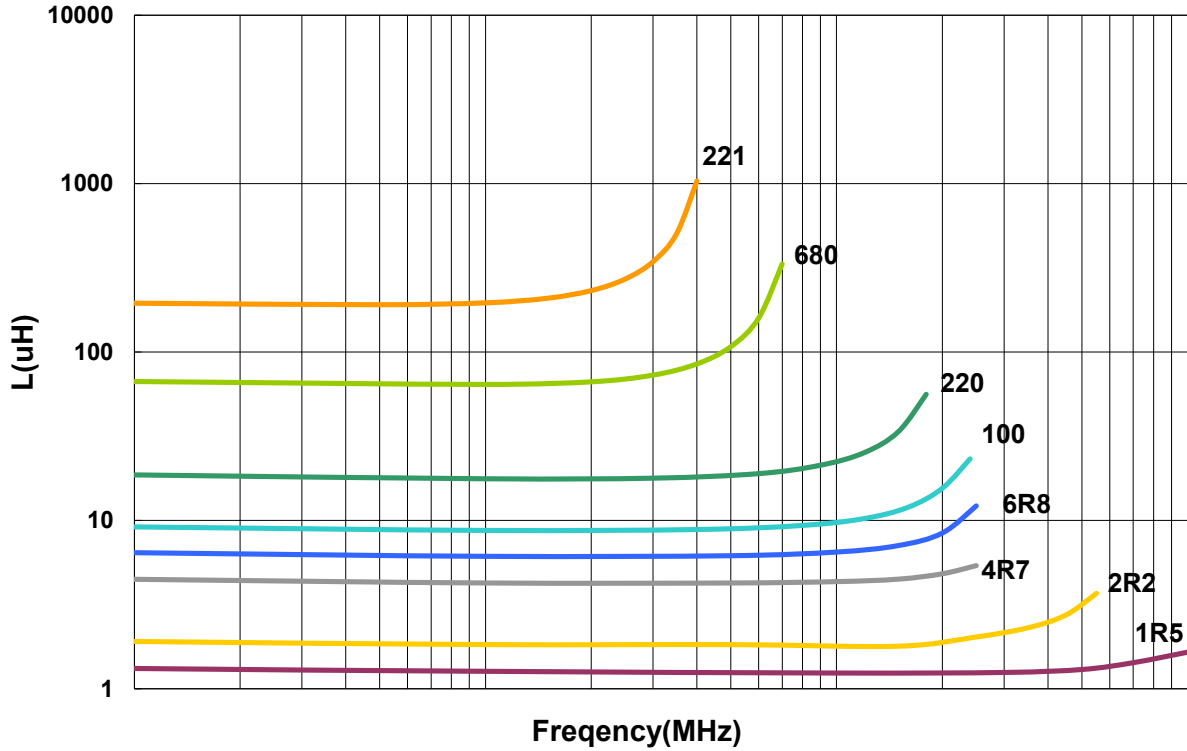
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

1. Operating temperature range - 40°C ~ 125°C(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. I rms for a 40°C temprature rise from 25°C ambient.
5. Measure Equipment:
L: HP4284+42841A
RDC: Chroma 16502
Isat: HP4284+42841A

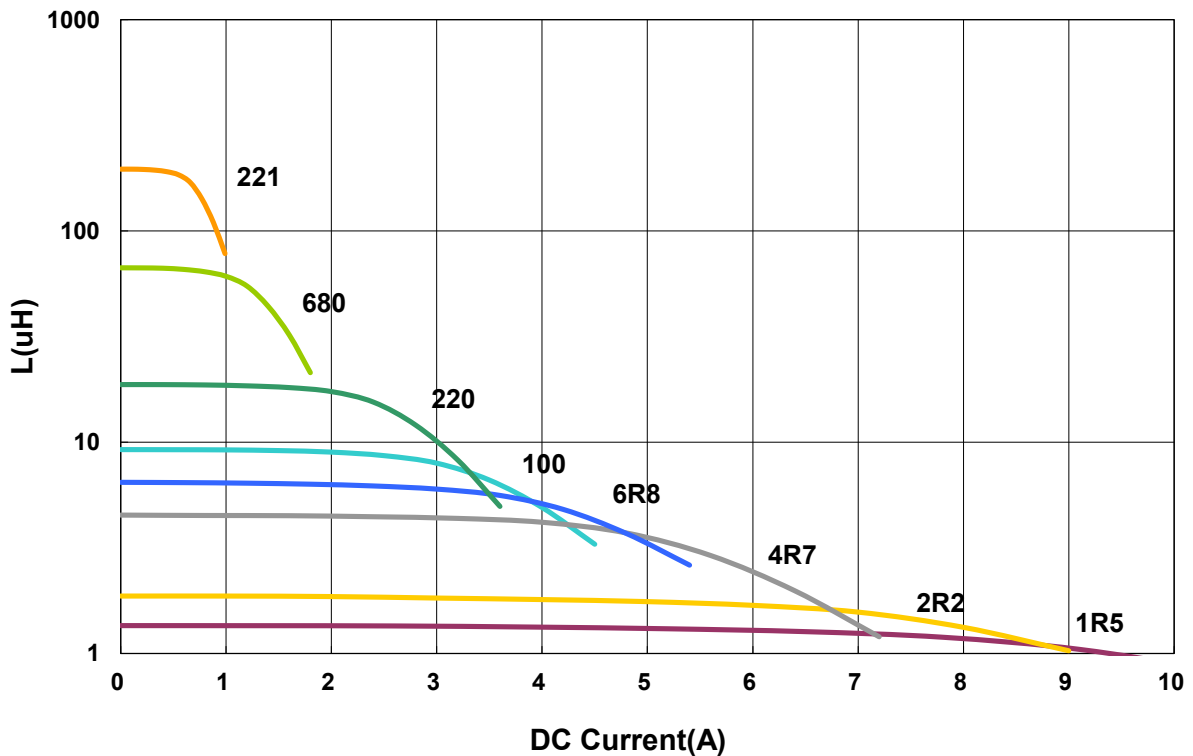
APCA00070745 Type

■ Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

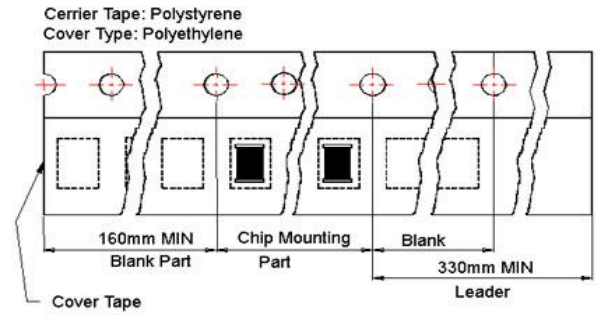
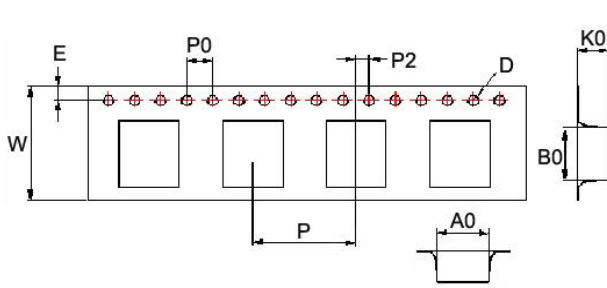


Power Inductor APCA Series

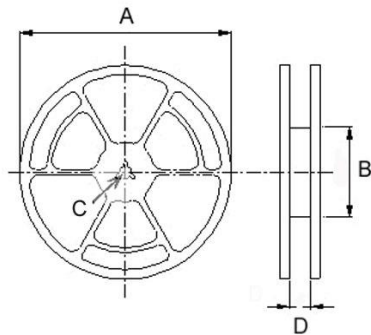
**Automotive
AEC-Q200**

■ 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
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

Power Inductor Apcf Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



Power
Circuit

Shield

Wire
Wound

Ferrite

Part Numbering

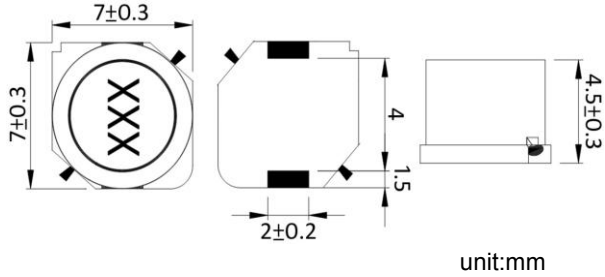
A	PCF	00	070745	1R0	M	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			070745 7x7x4.5	1R0 1	M ±20%	
			131375 12.5x12.5x7.5	100 10	T ±30%	
				101 100		

Power Inductor APCF Series

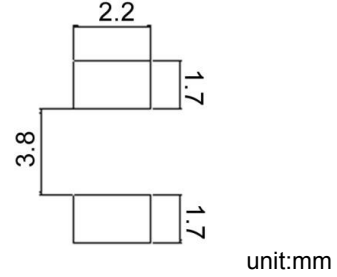
**Automotive
AEC-Q200**

APCF00070745 Type

■ Dimensions



■ Recommended Land Pattern



■ 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%

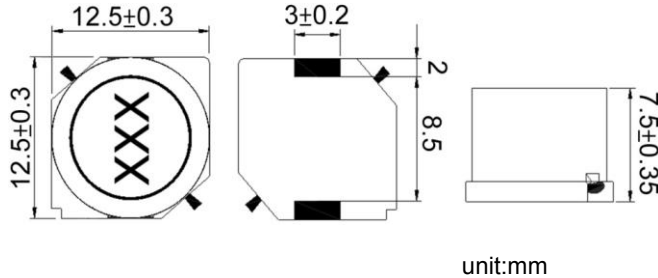
- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 15% from its value without current
- Irms for a 25°C temprature rise from 25°C ambient with current
- Rated DC Current: The less value which is Isat or Irms
- Measure Equipment:
 - L: HP4284A PRECISION LCR METER (or equivalent)
 - RDC: CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
 - Isat:WK3255BQ+ WK3265B (or equivalent)
 - Irms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor Apcf Series

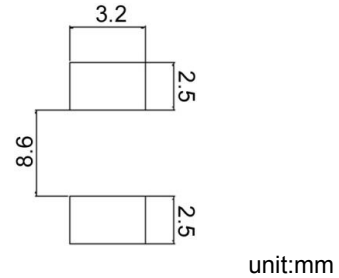
**Automotive
AEC-Q200**

APCF00131375 Type

■ Dimensions



■ Recommended Land Pattern



■ 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%

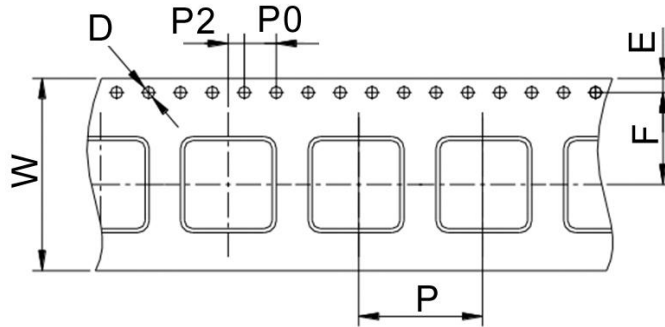
1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current
3. Irms for a 40°C temprature rise from 25°C ambient with current
4. Rated DC Current: The less value which is Isat or Irms
5. Measure Equipment:
 L: HP4284A PRECISION LCR METER (or equivalent)
 RDC: CHROMA MODEL 16502 MILLIOHMETER (or equivalent)
 Isat:WK3255BQ+ WK3265B (or equivalent)
 Irms: WK3255BQ+ WK3265B (or equivalent)

Power Inductor APCF Series

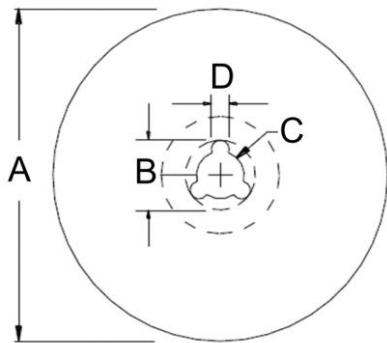
**Automotive
AEC-Q200**

■ Packaging

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity PCS / REEL
	W	D	E	F	P	P0	P2	A	B	C	D	
APCF00070745	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
APCF00131375	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500

Power Inductor APSA Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



Power
Circuit

Shield

Wire
Wound

Ferrite

Part Numbering

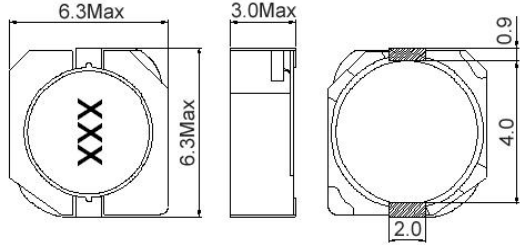
A	PSA	00	131358	100	M	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			060630 6.3x6.3x3.0	6R0 6.0	M ±20%	
			070748 7.3x7.3x4.8	100 10	T ±30%	
			070758 7.3x7.3x5.8	101 100		
			131358 12.5x12.5x5.8			

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

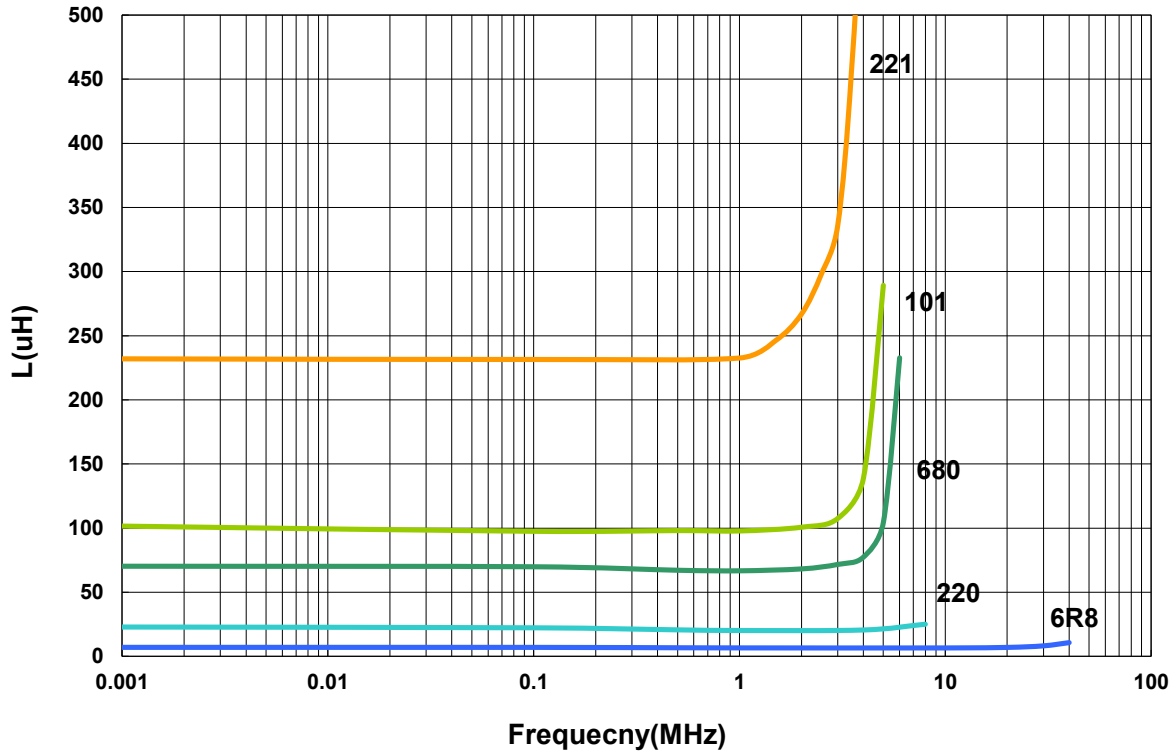
Power Inductor APSA Series

**Automotive
AEC-Q200**

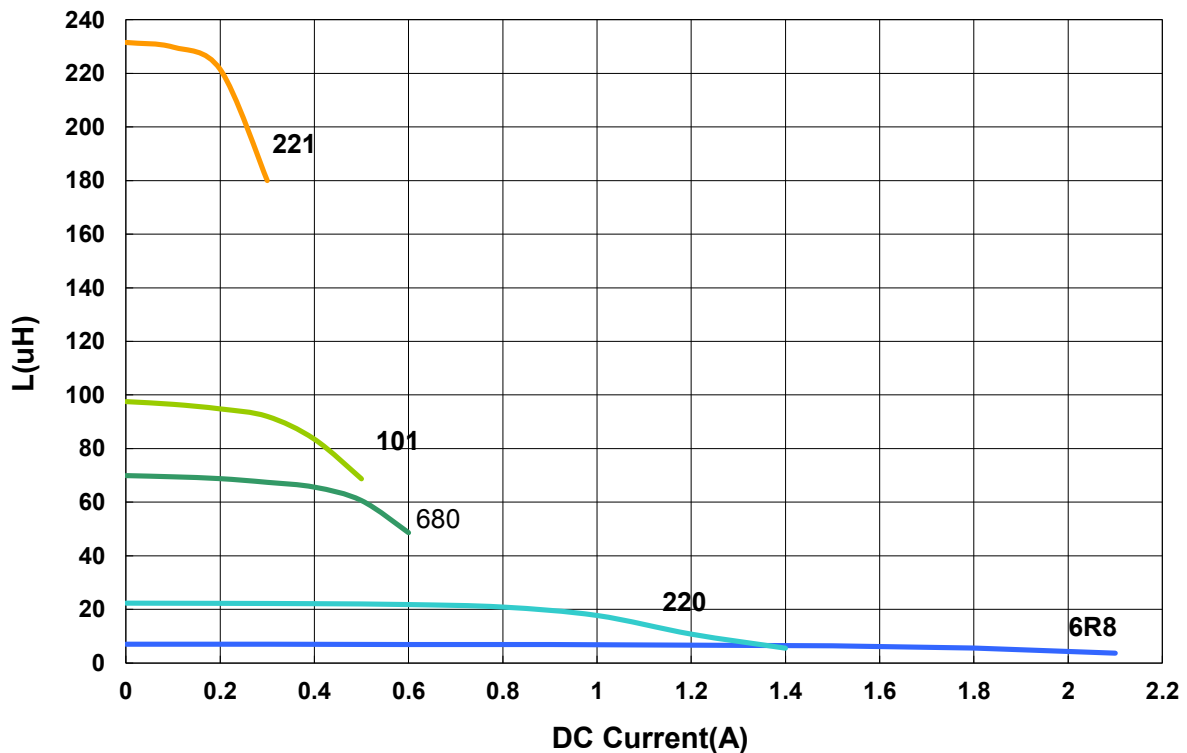
APSA00060630 Type

Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

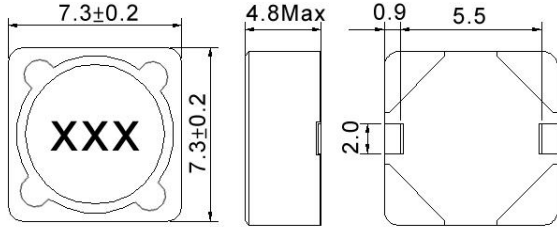


Power Inductor APSA Series

**Automotive
AEC-Q200**

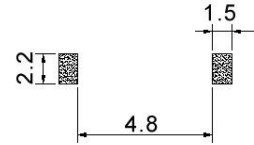
APSA00070748 Type

■ 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°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current.
3. I rms for a 20°C temprature rise from 25°C ambient.

4. Measure Equipment:

L: WK6500B+WK6565

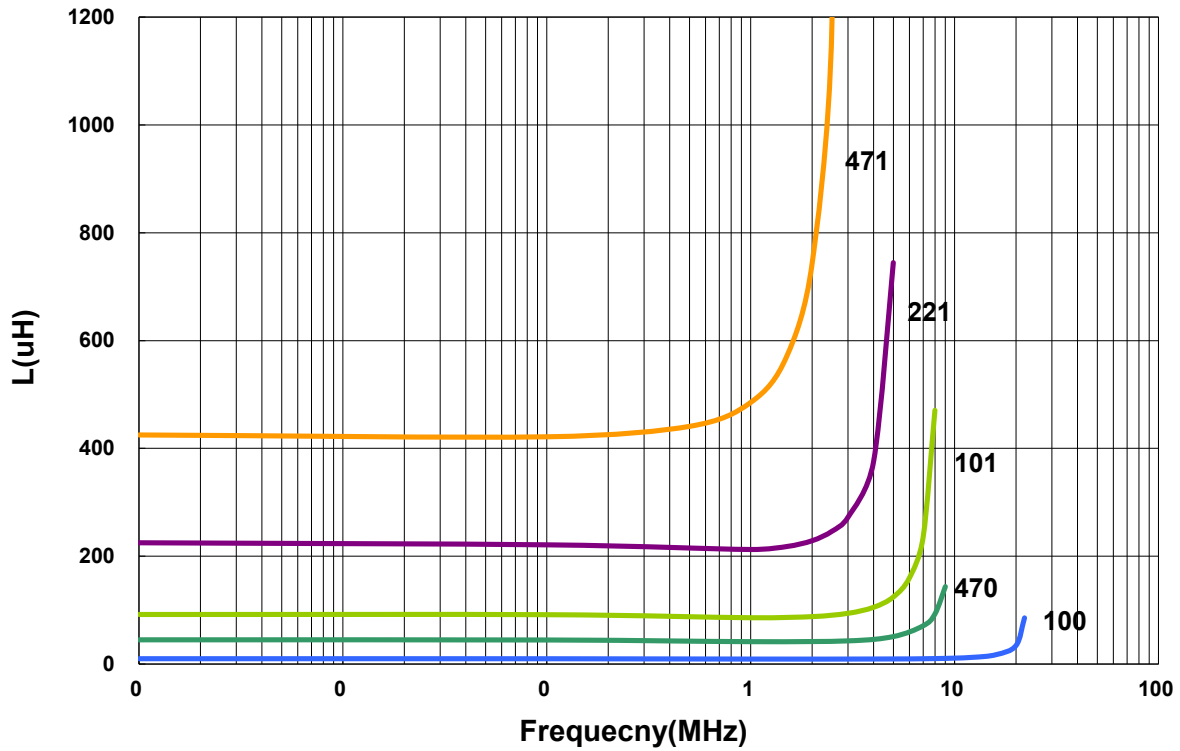
RDC: Chroma 16502

Isat: WK3260B+WK3265B

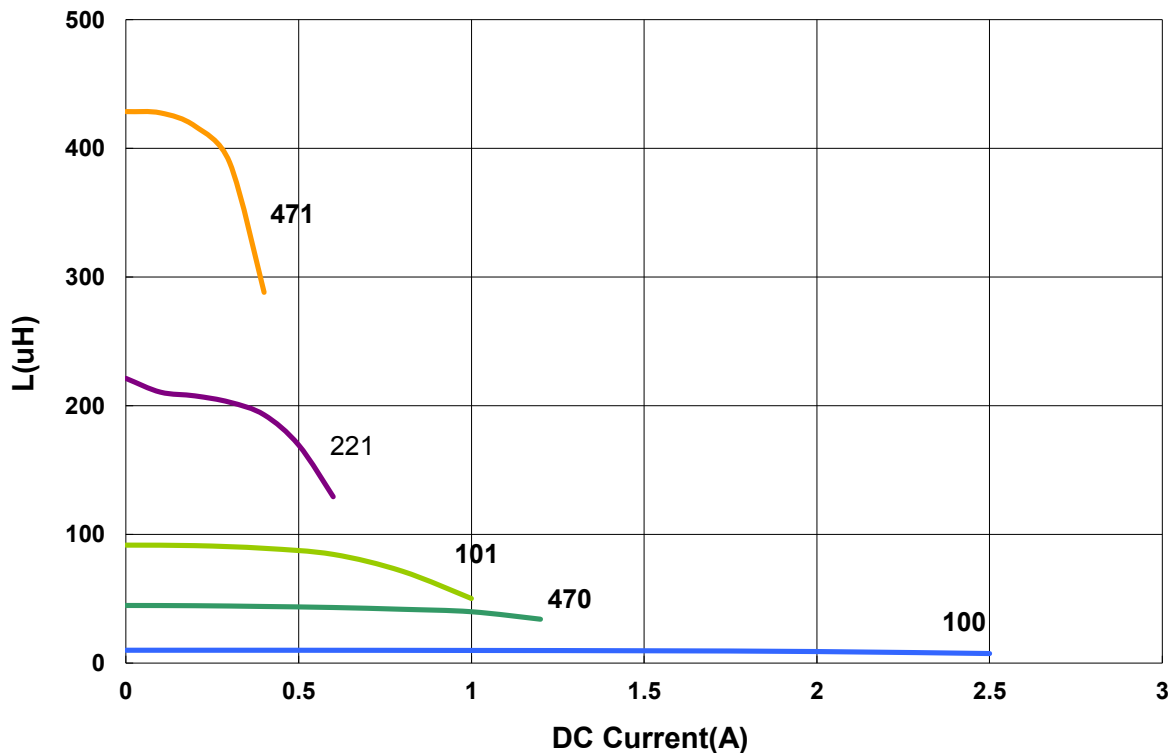
APSA00070748 Type

■ Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current

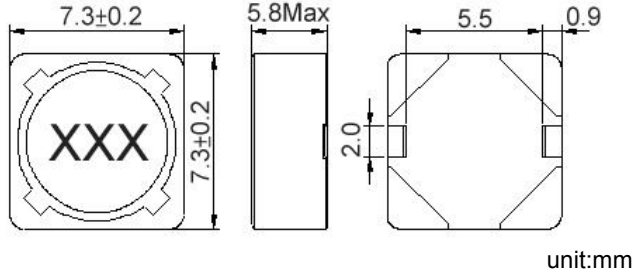


Power Inductor APSA Series

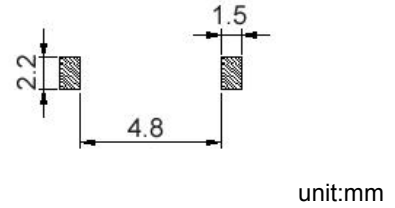
**Automotive
AEC-Q200**

APSA00070758 Type

■ Dimensions



■ Recommended Land Pattern



■ 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

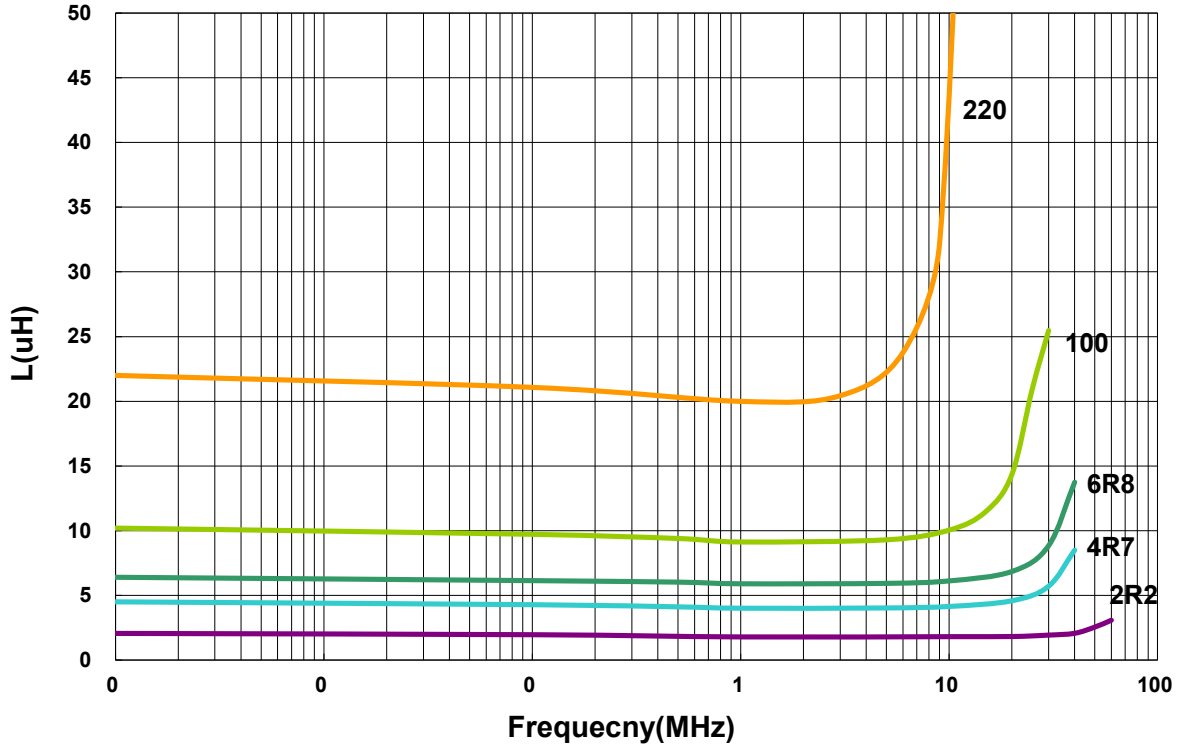
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

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

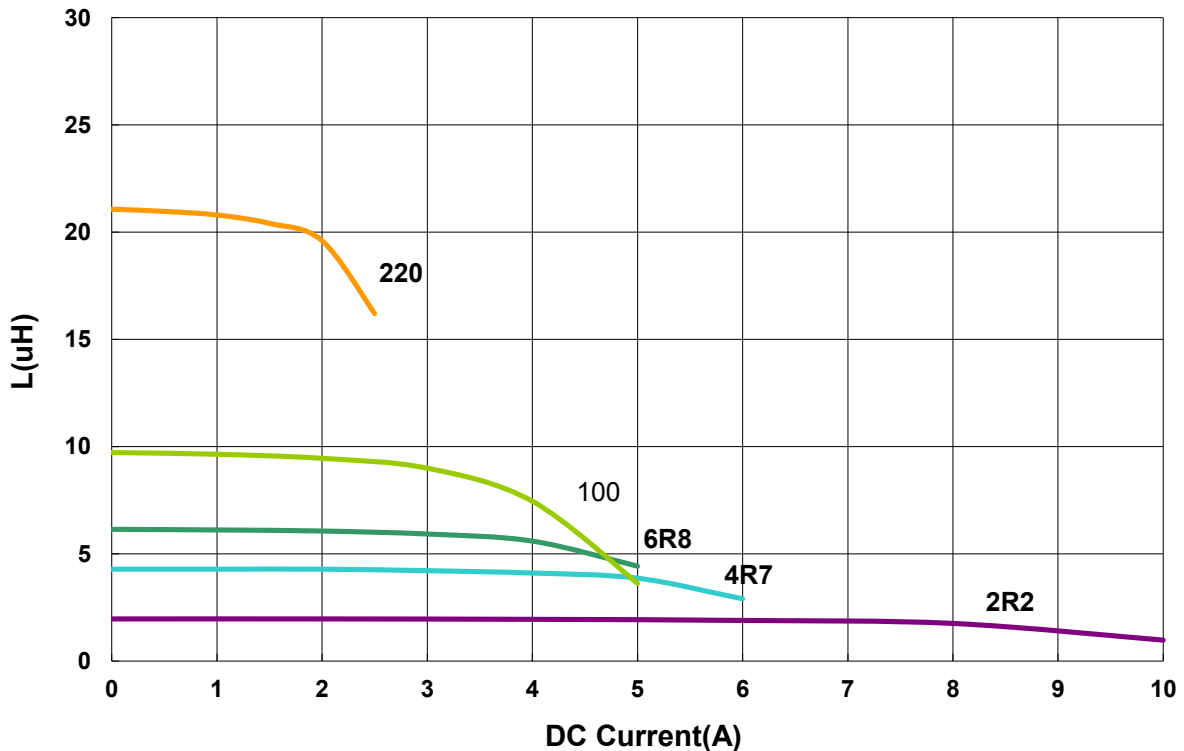
APSA00070758 Type

■ Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current

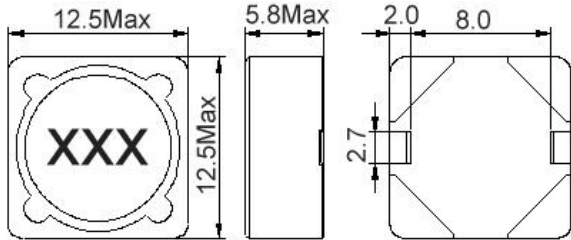


Power Inductor APSA Series

**Automotive
AEC-Q200**

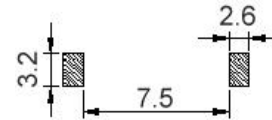
APSA00131358 Type

■ 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°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current.
3. I rms for a 30°C temprature rise from 25°C ambient.

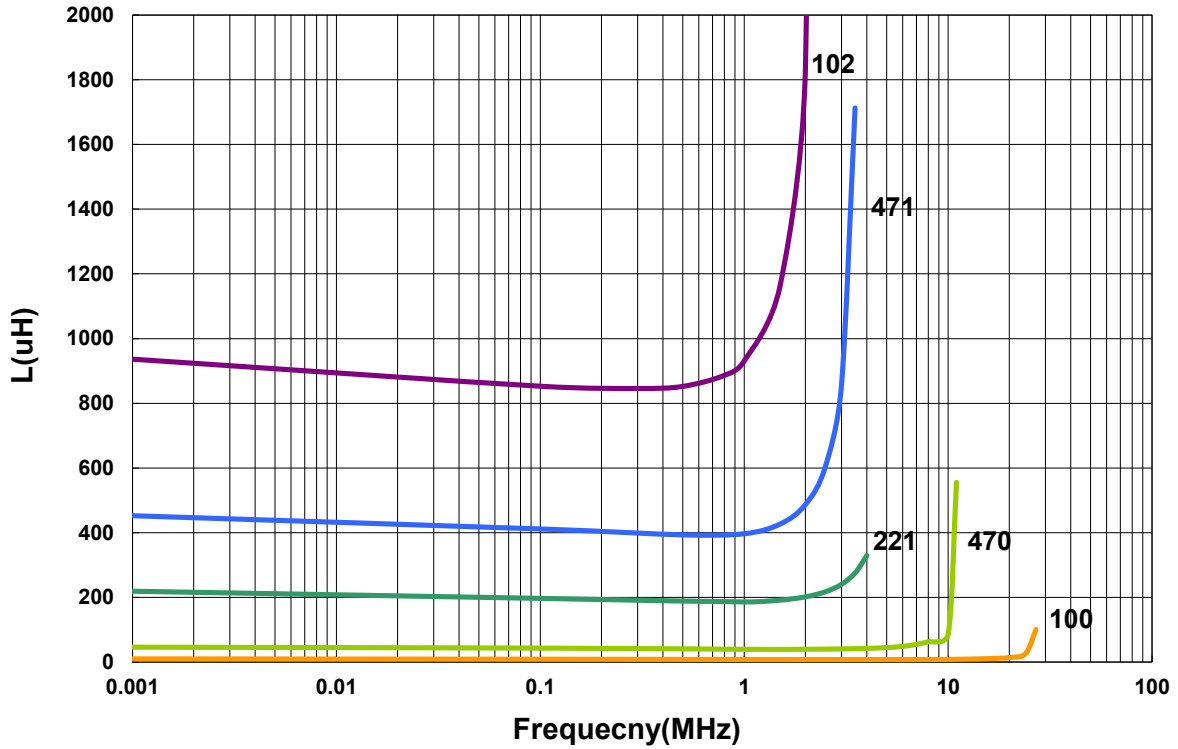
4. Measure Equipment:

- L: WK6500B+WK6565
- RDC: Chroma 16502
- Isat: WK3260B+WK3265B

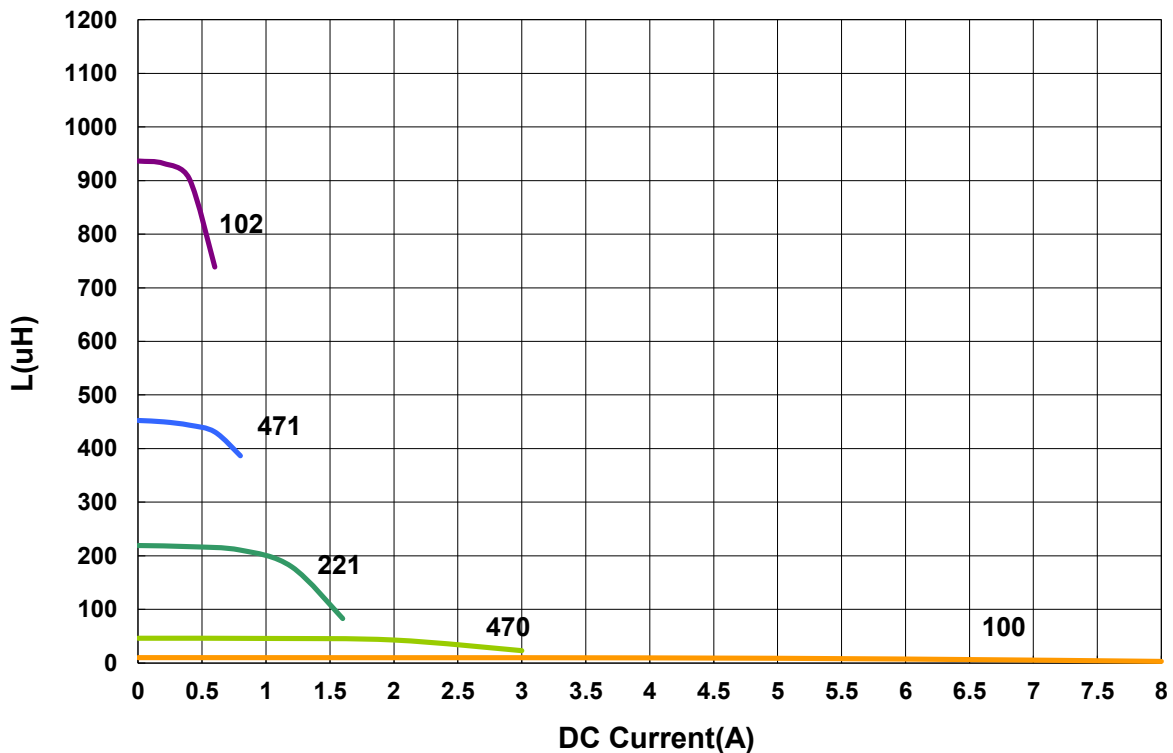
APSA00131358 Type

■ Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current

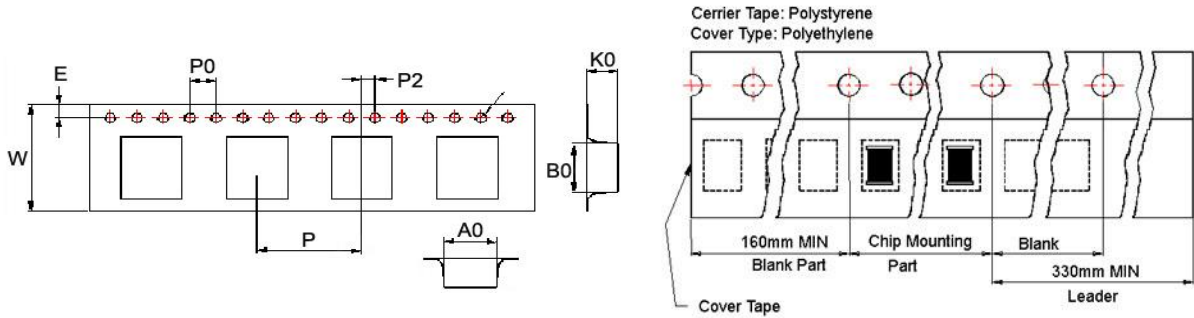


Power Inductor APSA Series

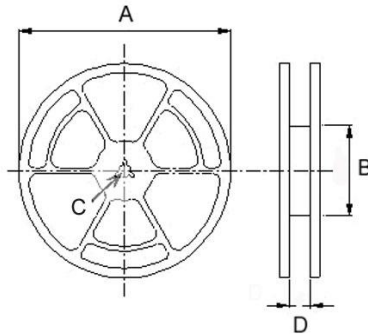
**Automotive
AEC-Q200**

■ Packaging

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity PCS / REEL
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	
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

Power Inductor APSD Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



Power
Circuit

Unshield

Wire
Wound

Ferrite

Part Numbering

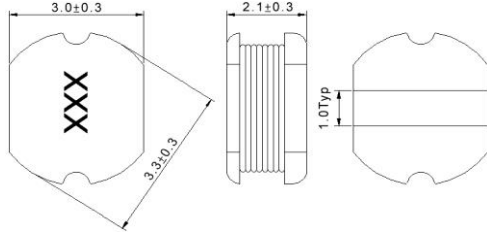
A	PSD	00	030321	1R0	M	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			030321 3.3x3.0x2.1	R47 0.47	K ±10%	
			050432 4.5x4.0x3.2	1R0 1.0	M ±20%	
			060530 5.8x5.2x3.0	101 100	T ±30%	
			060545 5.8x5.2x4.5			
			080735 7.8x7.0x3.5			
			080750 7.8x7.0x5.0			

Power Inductor APSD Series

**Automotive
AEC-Q200**

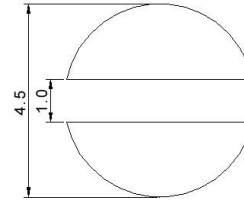
APSD00030321 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat (A)	Tolerance (±%)	Marking
APSD00030321R82□00	0.82	7.96 MHz,1 V	0.06	2.2	30	AX
APSD00030321R0□00	1	7.96 MHz,1 V	0.07	2.08	20	BA
APSD00030321R4□00	1.4	7.96 MHz,1 V	0.09	1.86	20	BE
APSD00030321R5□00	1.5	7.96 MHz,1 V	0.11	1.8	20	BF
APSD00030321R8□00	1.8	7.96 MHz,1 V	0.11	1.8	20	BI
APSD00030321R2□00	2.2	7.96 MHz,1 V	0.13	1.39	20	CC
APSD00030321R7□00	2.7	7.96 MHz,1 V	0.14	1.32	20	CH
APSD00030321R3□00	3.3	7.96 MHz,1 V	0.17	1.25	20	DD
APSD00030321R9□00	3.9	7.96 MHz,1 V	0.19	1.2	20	DJ
APSD00030321R4R7□00	4.7	7.96 MHz,1 V	0.21	1.13	20	EH
APSD00030321R6□00	5.6	7.96 MHz,1 V	0.22	0.91	20	FG
APSD00030321R8□00	6.8	7.96 MHz,1 V	0.25	0.85	20	GI
APSD00030321R0□00	7	7.96 MHz,1 V	0.28	0.82	20	HA
APSD00030321R8R2□00	8.2	7.96 MHz,1 V	0.28	0.82	20	IC
APSD00030321100□00	10	2.52 MHz,1 V	0.32	0.74	10,20	KA
APSD00030321120□00	12	2.52 MHz,1 V	0.35	0.64	20	QA
APSD00030321150□00	15	2.52 MHz,1 V	0.4	0.6	20	MA
APSD00030321180□00	18	2.52 MHz,1 V	0.48	0.54	20	RA
APSD00030321220□00	22	2.52 MHz,1 V	0.58	0.5	10,20	LA
APSD00030321270□00	27	2.52 MHz,1 V	0.65	0.43	20	SA
APSD00030321330□00	33	2.52 MHz,1 V	0.8	0.4	20	NA
APSD00030321390□00	39	2.52 MHz,1 V	0.9	0.37	20	PA
APSD00030321470□00	47	2.52 MHz,1 V	1.19	0.36	20	OA
APSD00030321500□00	50	2.52 MHz,1 V	1.22	0.33	20	TA
APSD00030321560□00	56	2.52 MHz,1 V	1.27	0.31	20	UA
APSD00030321680□00	68	2.52 MHz,1 V	1.73	0.3	10,20	VA
APSD00030321750□00	75	2.52 MHz,1 V	1.9	0.29	20	WA
APSD00030321820□00	82	2.52 MHz,1 V	1.99	0.28	10,20	XA
APSD00030321101□00	100	1 kHz,1 V	2.52	0.25	10,20	KB
APSD00030321121□00	120	1 kHz,1 V	2.9	0.2	10,20	QB
APSD00030321151□00	150	1 kHz,1 V	3.36	0.19	20	MB
APSD00030321181□00	180	1 kHz,1 V	5.1	0.17	20	RB
APSD00030321221□00	220	1 kHz,1 V	5.8	0.16	10,20	LB
APSD00030321271□00	270	1 kHz,1 V	7.8	0.14	10,20	SB

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current
3. Measure Equipment:

L: Agilent E4980 or HP4284A (over 1MHz), HP4285A (under 1MHz)
RDC: Chroma 16502

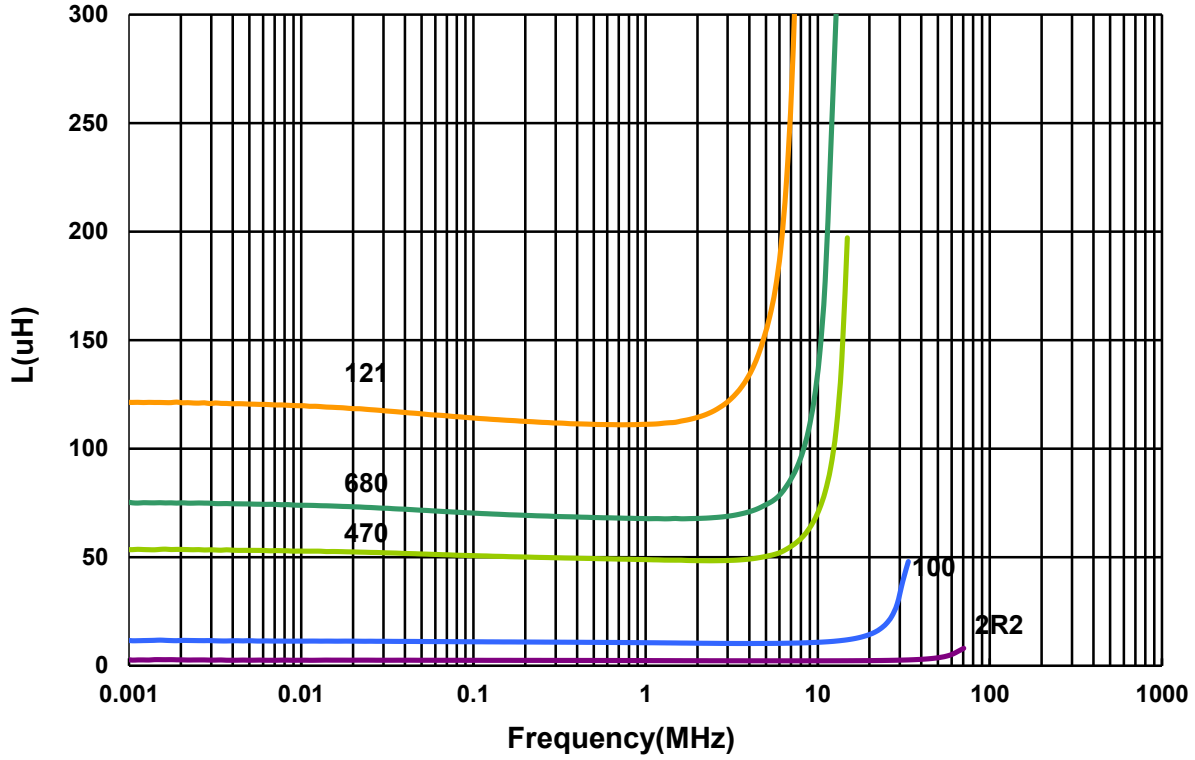
Power Inductor APSD Series

**Automotive
AEC-Q200**

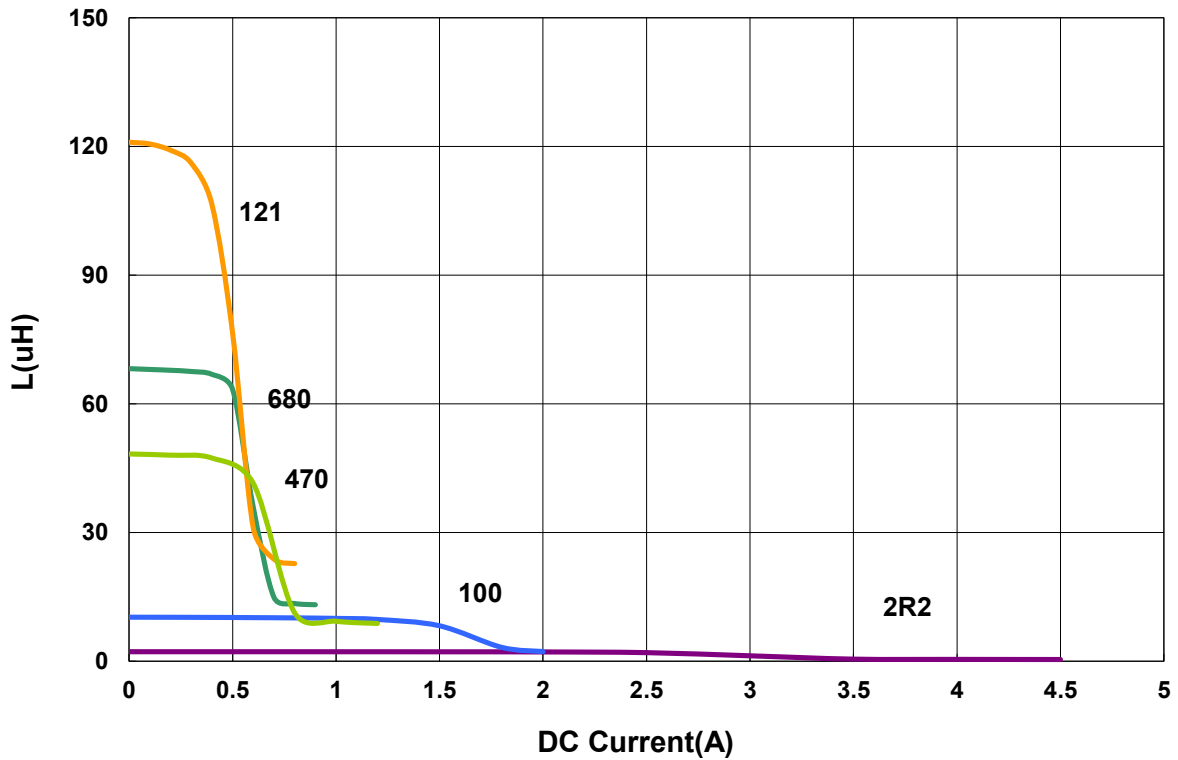
APSD00030321 Type

Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current

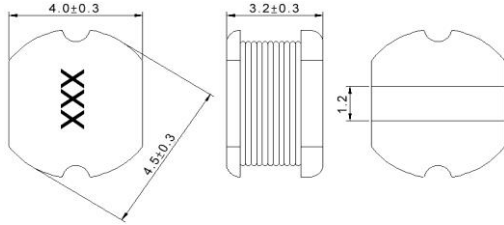


Power Inductor APSD Series

**Automotive
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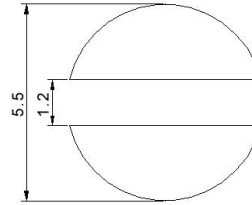
APSD00050432 Type

Dimensions



unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

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

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

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Measure Equipment:
 - L: Agilent E4980 or HP4284A (over 1MHz), HP4285A (under 1MHz)
 - RDC: Chroma 16502
 - Isat: HP4284+42841A or WK3260B+WK3265B

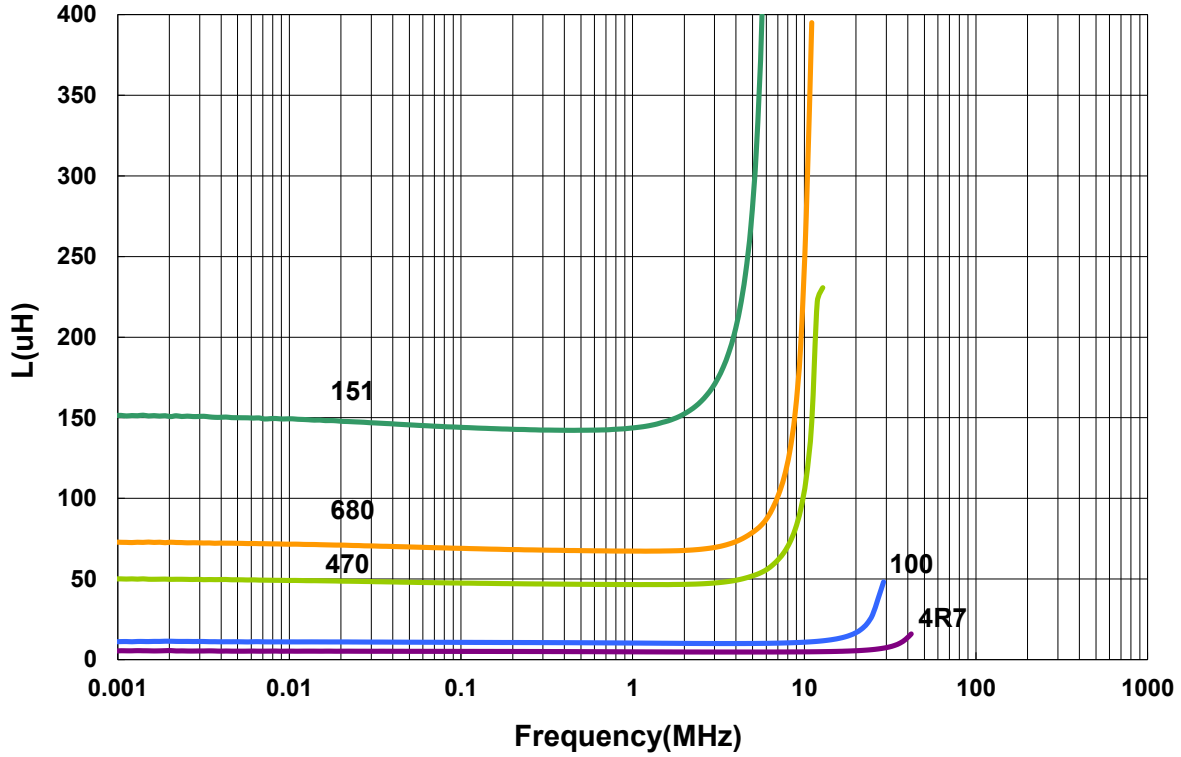
Power Inductor APSD Series

**Automotive
AEC-Q200**

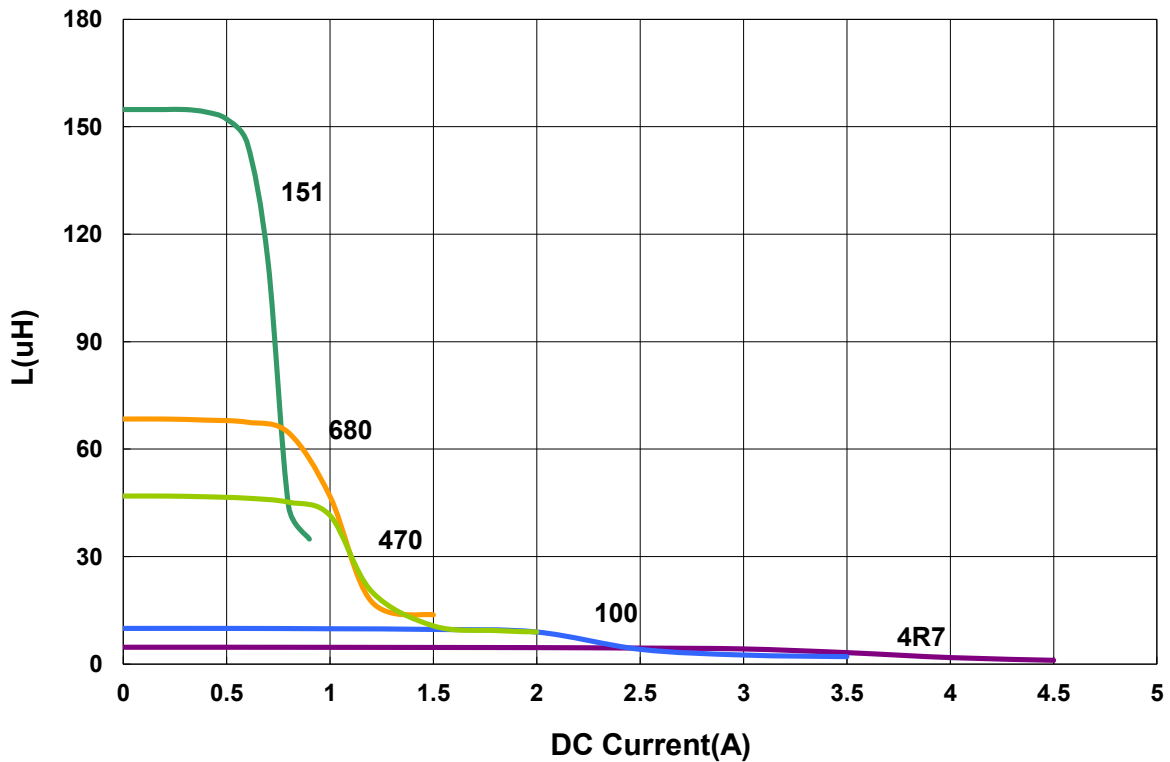
APSD00050432 Type

Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current

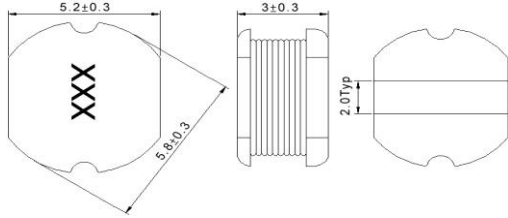


Power Inductor APSD Series

**Automotive
AEC-Q200**

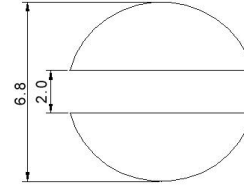
APSD00060530 Type

Dimensions



unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat (A)	Tolerance (±%)	Marking
APSD000605301R0□00	1	7.96 MHz,1 V	0.03	4.5	20	1R0
APSD000605301R2□00	1.2	7.96 MHz,1 V	0.03	4.2	20	1R2
APSD000605301R5□00	1.5	7.96 MHz,1 V	0.03	4.1	20	1R5
APSD000605301R8□00	1.8	7.96 MHz,1 V	0.03	3.7	10,20	1R8
APSD000605302R0□00	2	7.96 MHz,1 V	0.03	3.6	20	2R0
APSD000605302R2□00	2.2	7.96 MHz,1 V	0.03	3.5	20	2R2
APSD000605302R7□00	2.7	7.96 MHz,1 V	0.04	3.2	20	2R7
APSD000605303R3□00	3.3	7.96 MHz,1 V	0.05	2.8	10,20	3R3
APSD000605303R9□00	3.9	7.96 MHz,1 V	0.06	2.6	20	3R9
APSD000605304R7□00	4.7	7.96 MHz,1 V	0.07	2.5	10,20	4R7
APSD000605305R6□00	5.6	7.96 MHz,1 V	0.08	2.4	20	5R6
APSD000605306R8□00	6.8	7.96 MHz,1 V	0.09	2.2	20	6R8
APSD000605308R2□00	8.2	7.96 MHz,1 V	0.1	2	20	8R2
APSD00060530100□00	10	2.52 MHz,1 V	0.12	1.8	10,20	100
APSD00060530120□00	12	2.52 MHz,1 V	0.13	1.75	20	120
APSD00060530150□00	15	2.52 MHz,1 V	0.15	1.7	10,20	150
APSD00060530180□00	18	2.52 MHz,1 V	0.22	1.6	10,20	180
APSD00060530220□00	22	2.52 MHz,1 V	0.22	1.5	10,20	220
APSD00060530270□00	27	2.52 MHz,1 V	0.26	1.4	20	270
APSD00060530330□00	33	2.52 MHz,1 V	0.33	1.1	10,20	330
APSD00060530390□00	39	2.52 MHz,1 V	0.42	1	10,20	390
APSD00060530470□00	47	2.52 MHz,1 V	0.5	0.9	10,20	470
APSD00060530560□00	56	2.52 MHz,1 V	0.55	0.85	10,20	560
APSD00060530680□00	68	2.52 MHz,1 V	0.65	0.8	10,20	680
APSD00060530820□00	82	2.52 MHz,1 V	0.8	0.65	10,20	820
APSD00060530101□00	100	1 kHz,1 V	0.9	0.6	10,20	101
APSD00060530121□00	120	1 kHz,1 V	1	0.58	10,20	121
APSD00060530151□00	150	1 kHz,1 V	1.3	0.43	10,20	151
APSD00060530181□00	180	1 kHz,1 V	1.5	0.41	10,20	181
APSD00060530221□00	220	1 kHz,1 V	2	0.38	10,20	221
APSD00060530271□00	270	1 kHz,1 V	2.5	0.35	10,20	271
APSD00060530331□00	330	1 kHz,1 V	3.2	0.28	10,20	331
APSD00060530391□00	390	1 kHz,1 V	3.5	0.26	10,20	391
APSD00060530471□00	470	1 kHz,1 V	4.2	0.2	10,20	471
APSD00060530561□00	560	1 kHz,1 V	4.5	0.19	10,20	561

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current
3. Measure Equipment:
L: Agilent E4980 or HP4284A (over 1MHz), HP4285A (under 1MHz)
RDC: Chroma 16502

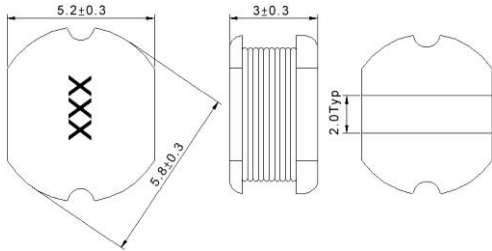
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

Power Inductor APSD Series

**Automotive
AEC-Q200**

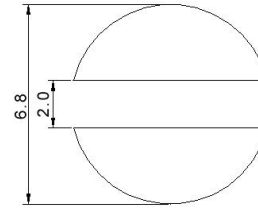
APSD00060530 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat (A)	Tolerance (±%)	Marking
APSD00060530681□00	680	1 kHz,1 V	6.5	0.18	10,20	681
APSD00060530821□00	820	1 kHz,1 V	7.5	0.15	10,20	821
APSD00060530102□00	1000	1 kHz,1 V	8	0.13	10,20	102

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

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

2. Isat for Inductance drop 10% from its value without current

3. Measure Equipment:

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

RDC: Chroma 16502

Isat: HP4284+42841A or WK3260B+WK3265B

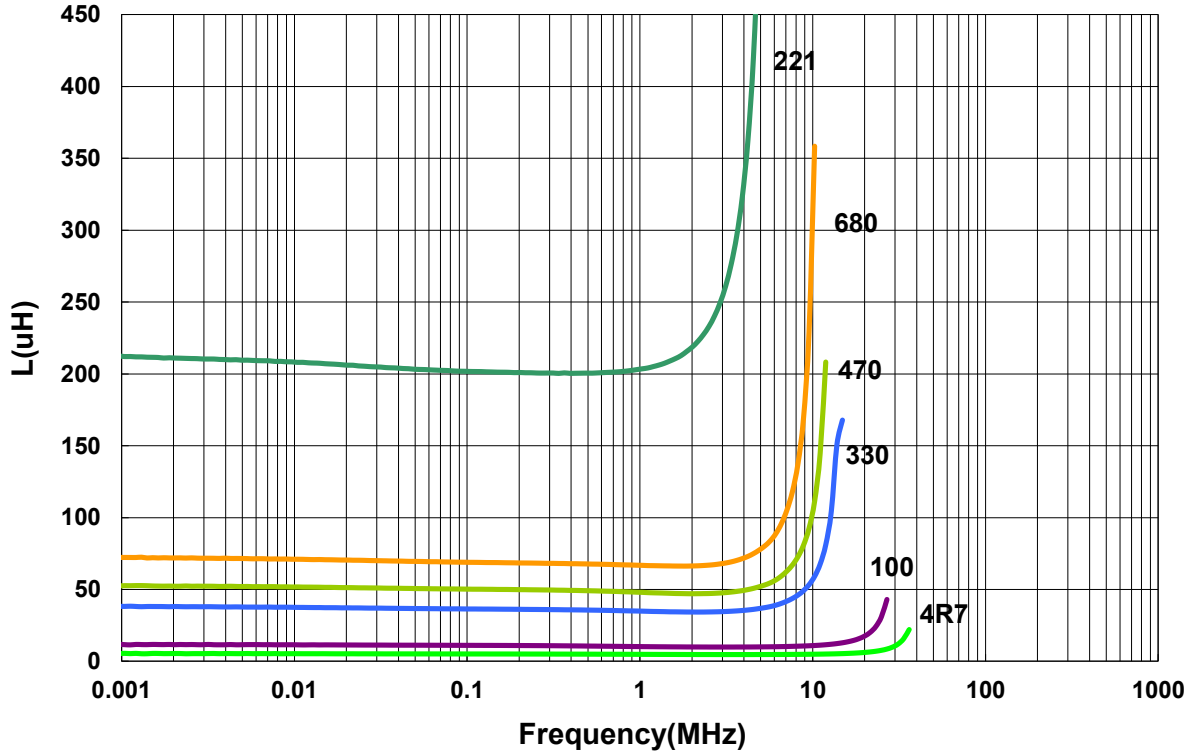
Power Inductor SCD Series

**Automotive
AEC-Q200**

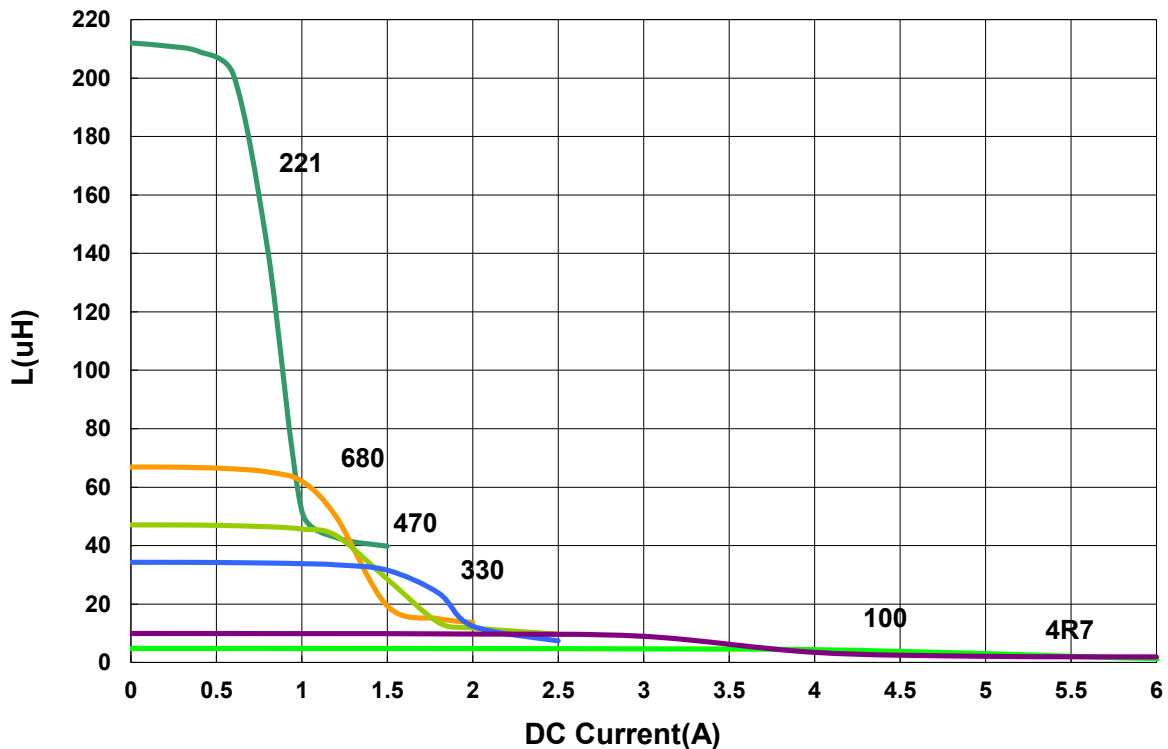
APSD00060530 Type

Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current



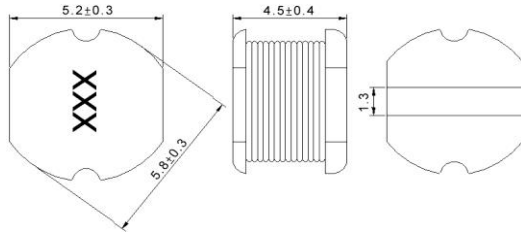
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Power Inductor APSD Series

**Automotive
AEC-Q200**

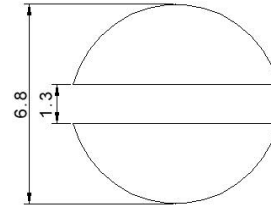
APSD00060545 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

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

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current
3. Measure Equipment:
 L: Agilent E4980 or HP4284A (over 1MHz), HP4285A (under 1MHz)
 RDC: Chroma 16502
 Isat: HP4284+42841A or WK3260B+WK3265B

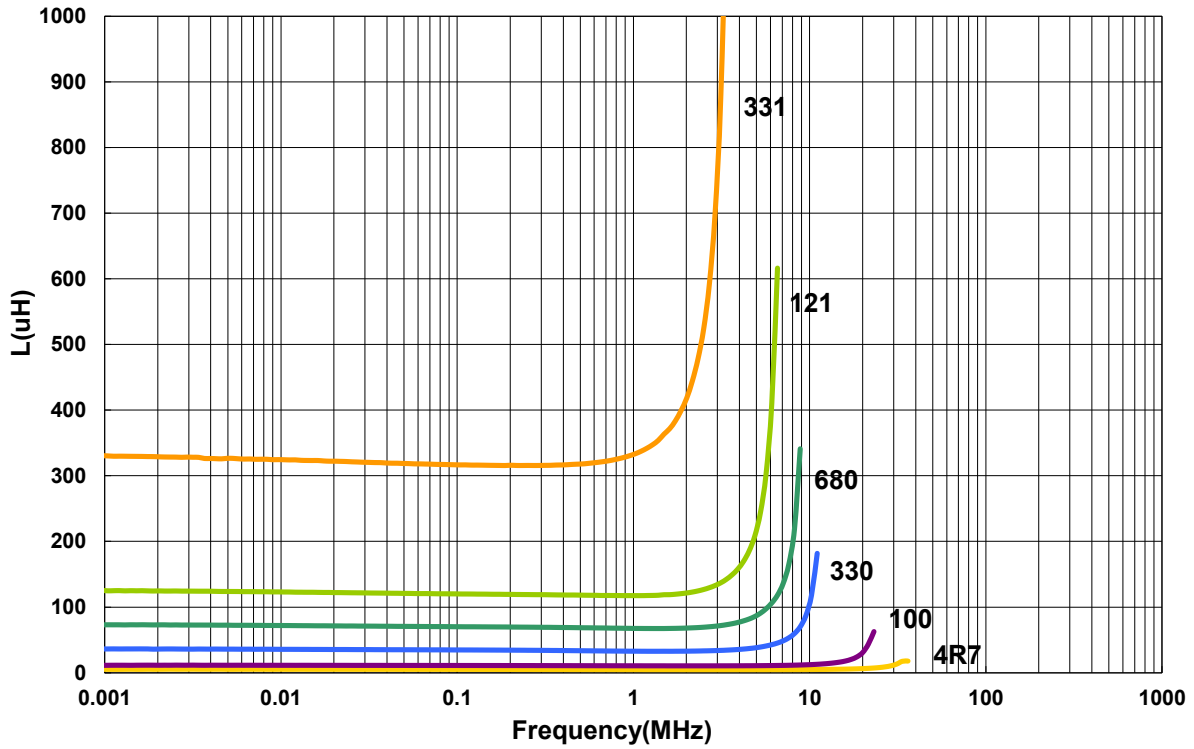
Power Inductor APSD Series

**Automotive
AEC-Q200**

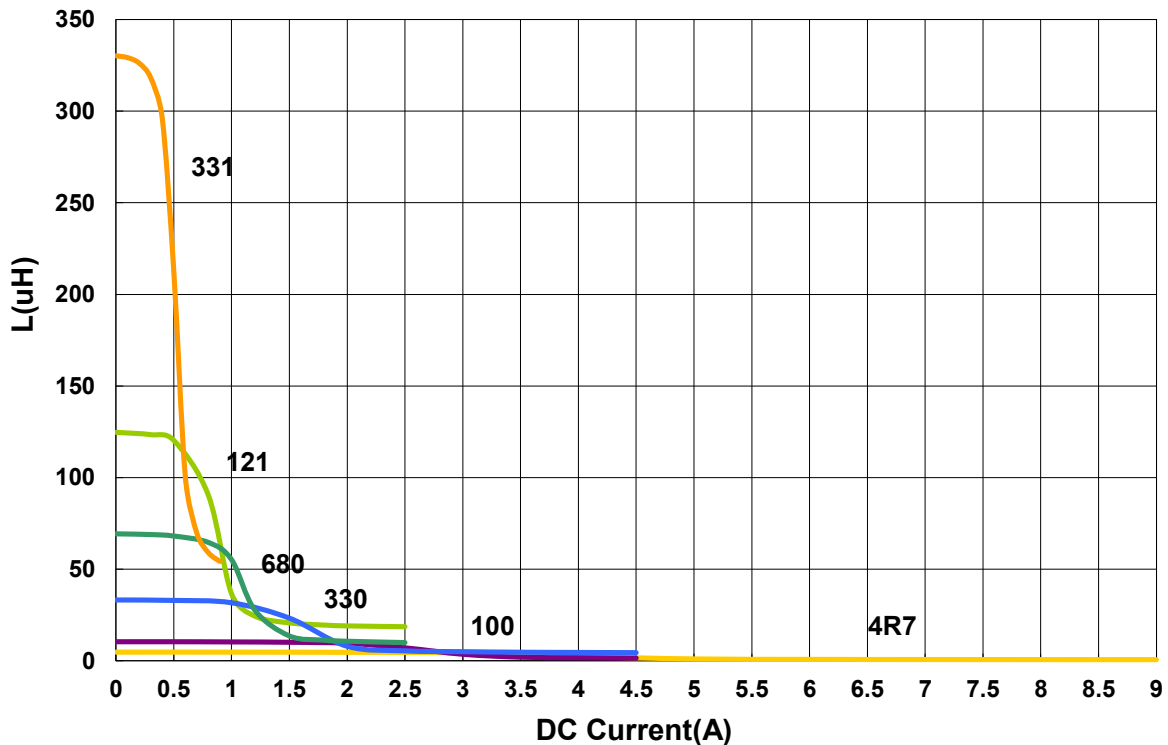
APSD00060545 Type

Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current

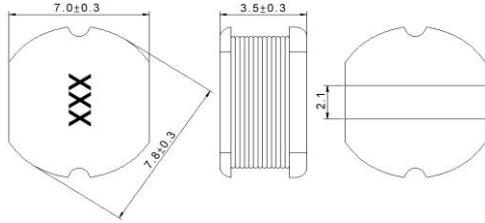


Power Inductor APSD Series

**Automotive
AEC-Q200**

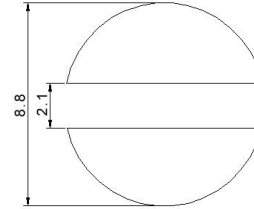
APSD00080735 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

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

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current
3. Measure Equipment:
 L: Agilent E4980 or HP4284A (over 1MHz), HP4285A (under 1MHz)
 RDC: Chroma 16502
 Isat: HP4284+42841A or WK3260B+WK3265B

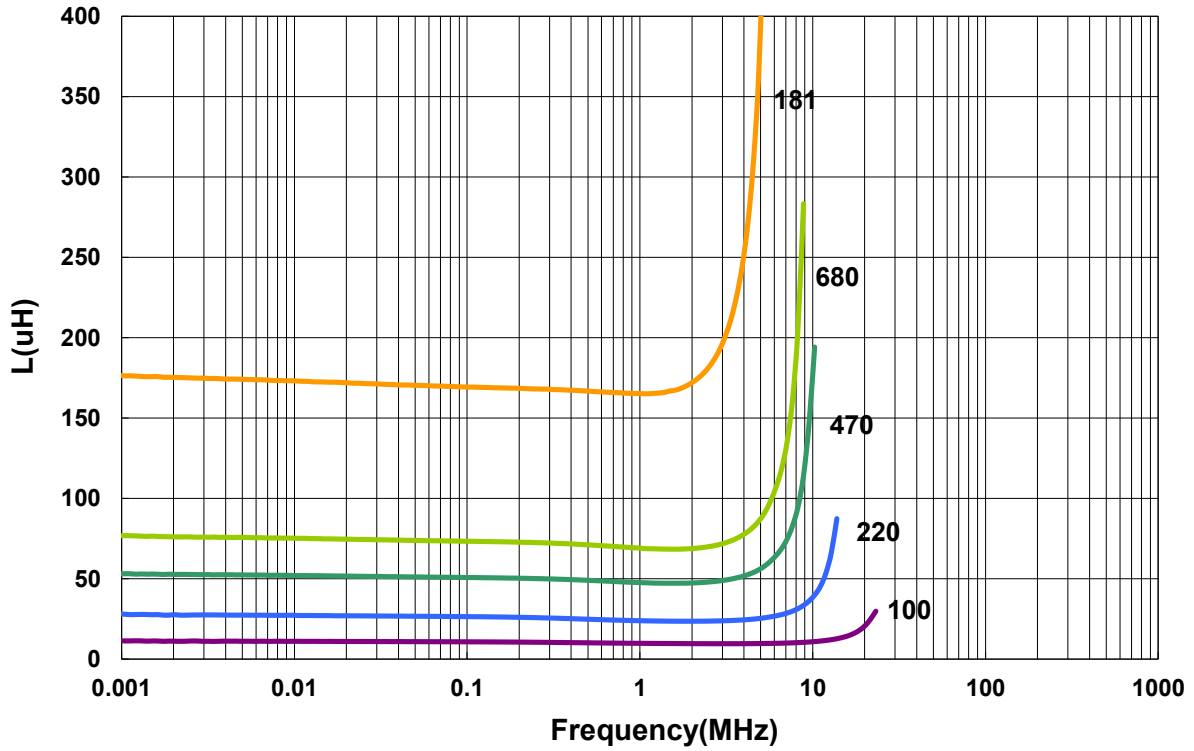
Power Inductor APSD Series

**Automotive
AEC-Q200**

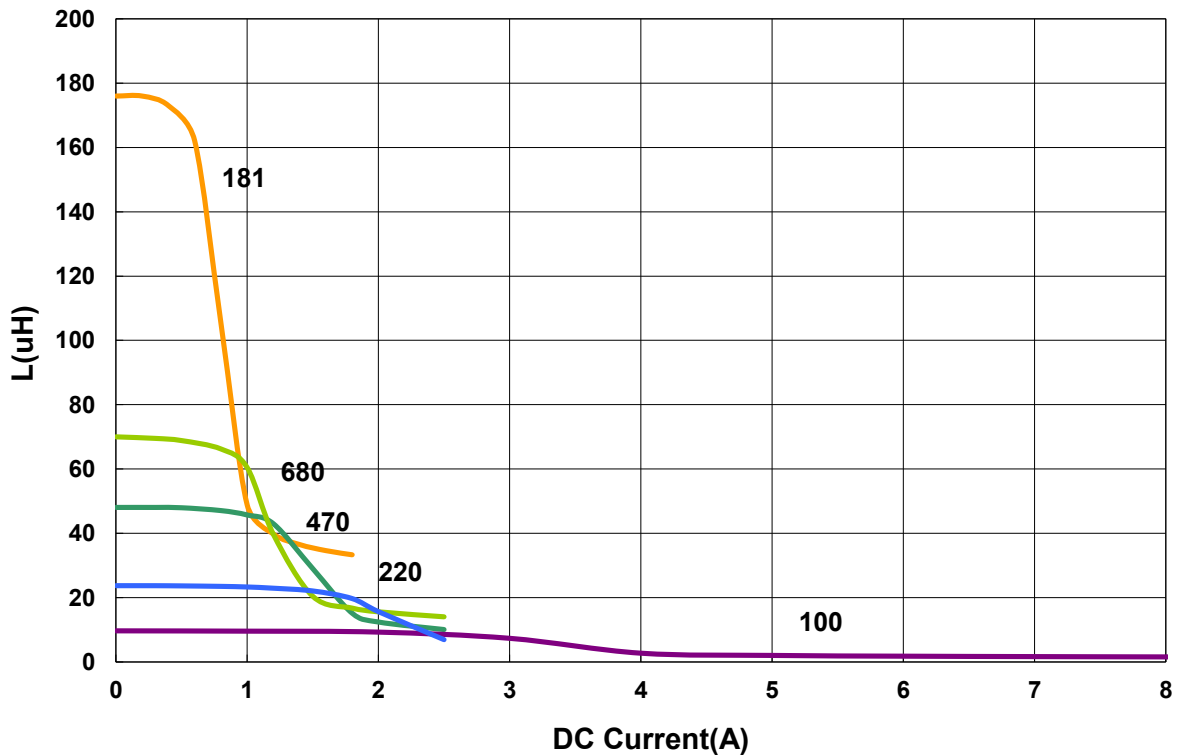
APSD00080735 Type

Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current



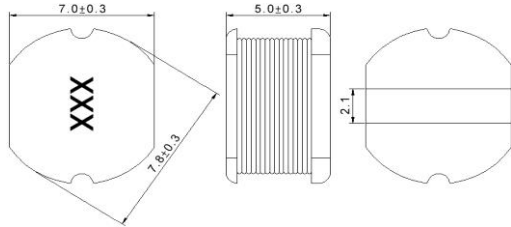
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

Power Inductor APSD Series

**Automotive
AEC-Q200**

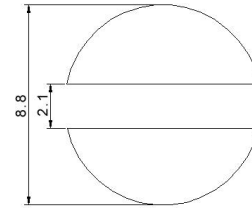
APSD00080750 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

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

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current
3. Measure Equipment:

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

RDC: Chroma 16502

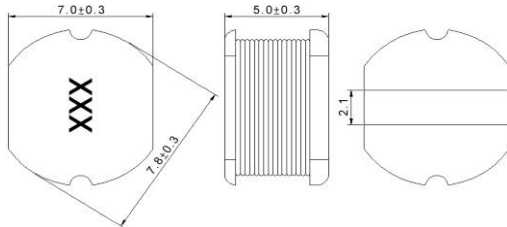
Isat: HP4284+42841A or WK3260B+WK3265B

Power Inductor APSD Series

**Automotive
AEC-Q200**

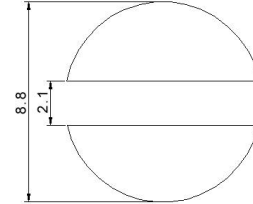
APSD00080750 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

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

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current
3. Measure Equipment:
 L: Agilent E4980 or HP4284A (over 1MHz), HP4285A (under 1MHz)
 RDC: Chroma 16502
 Isat: HP4284+42841A or WK3260B+WK3265B

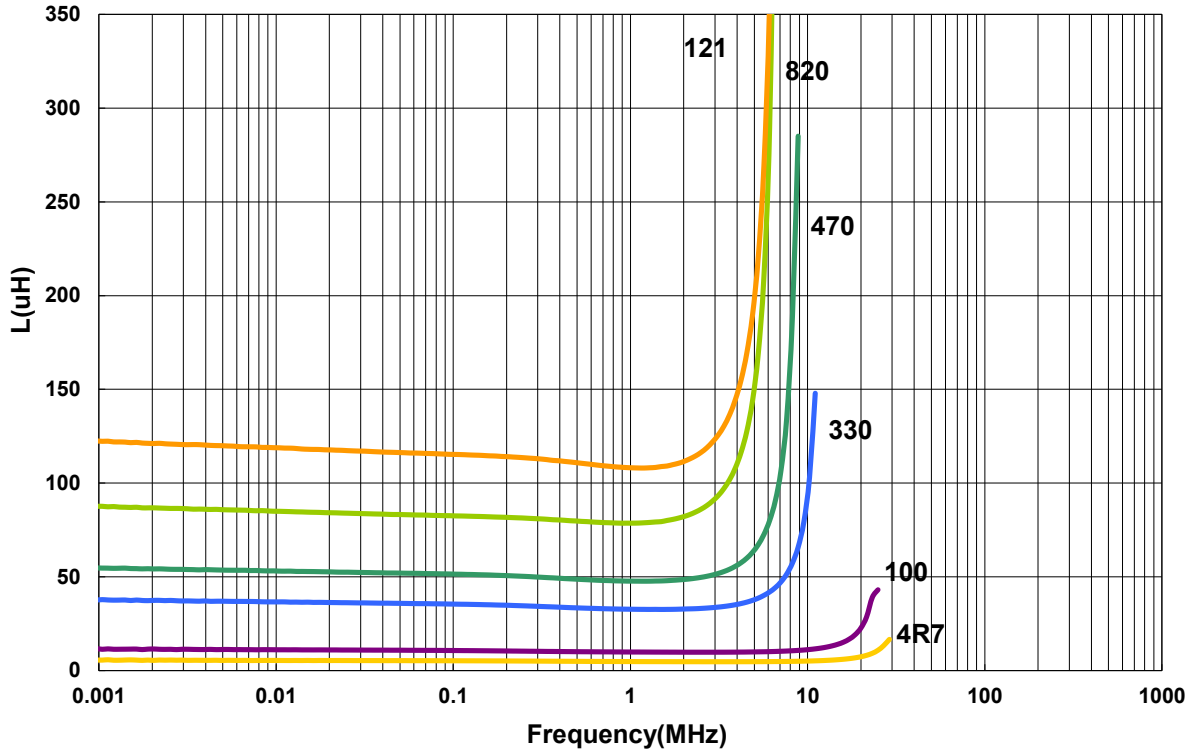
Power Inductor APSD Series

**Automotive
AEC-Q200**

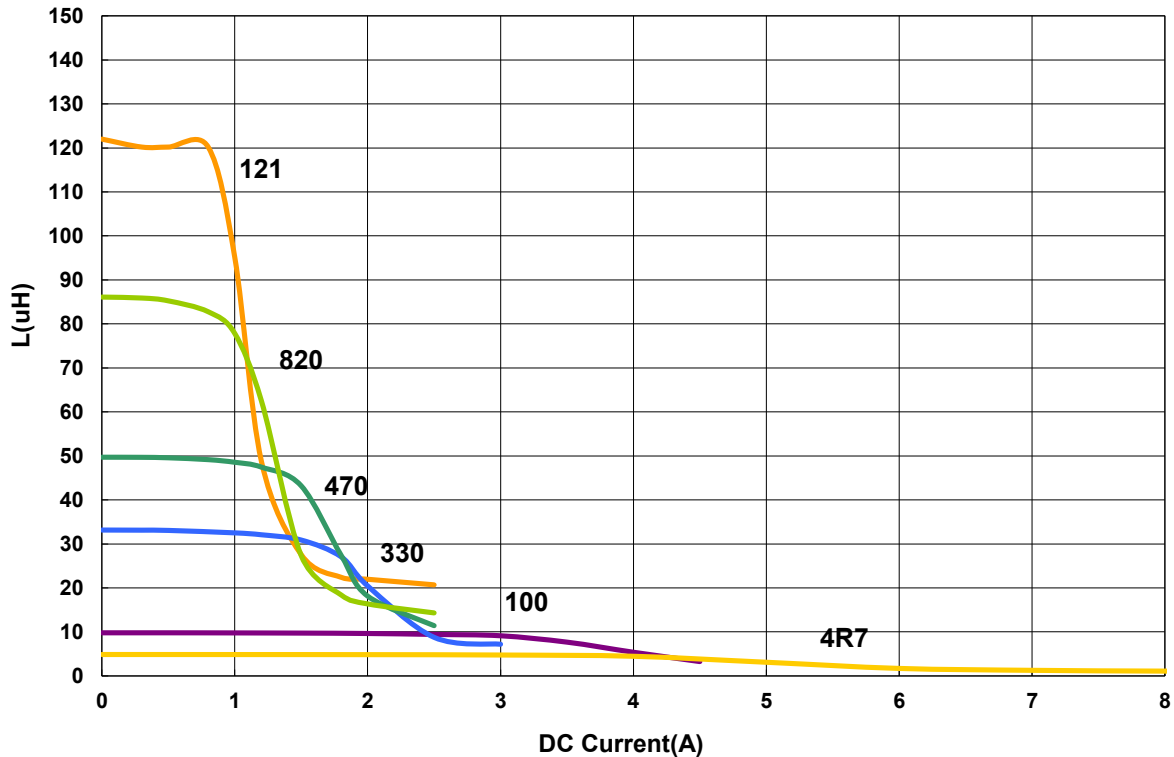
APSD00080750 Type

Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current

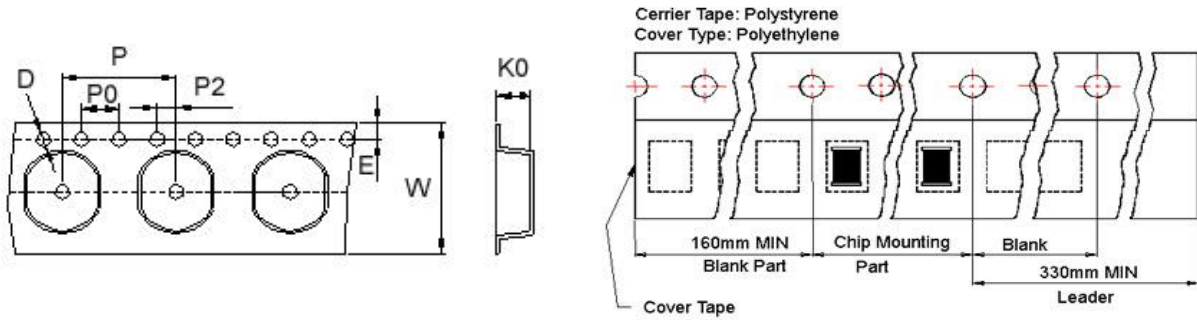


Power Inductor APSD Series

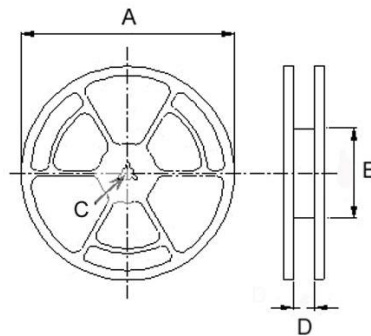
**Automotive
AEC-Q200**

■ 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

Power Inductor APSL Series **Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



Power
Circuit

Unshield

Wire
Wound

Ferrite

Part Numbering

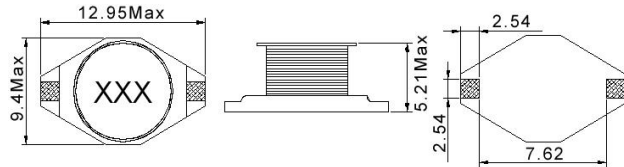
A	PSL	00	130952	1R0	M	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			130952 12.95x9.4x5.21	R47 0.47	M ±20%	
			130911 12.95x9.4x11.43	1R0 1.0	T ±30%	
				101 100		

Power Inductor APSL Series

**Automotive
AEC-Q200**

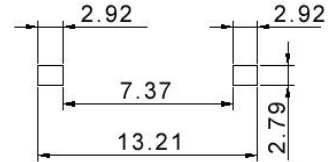
APSL00130952 Type

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

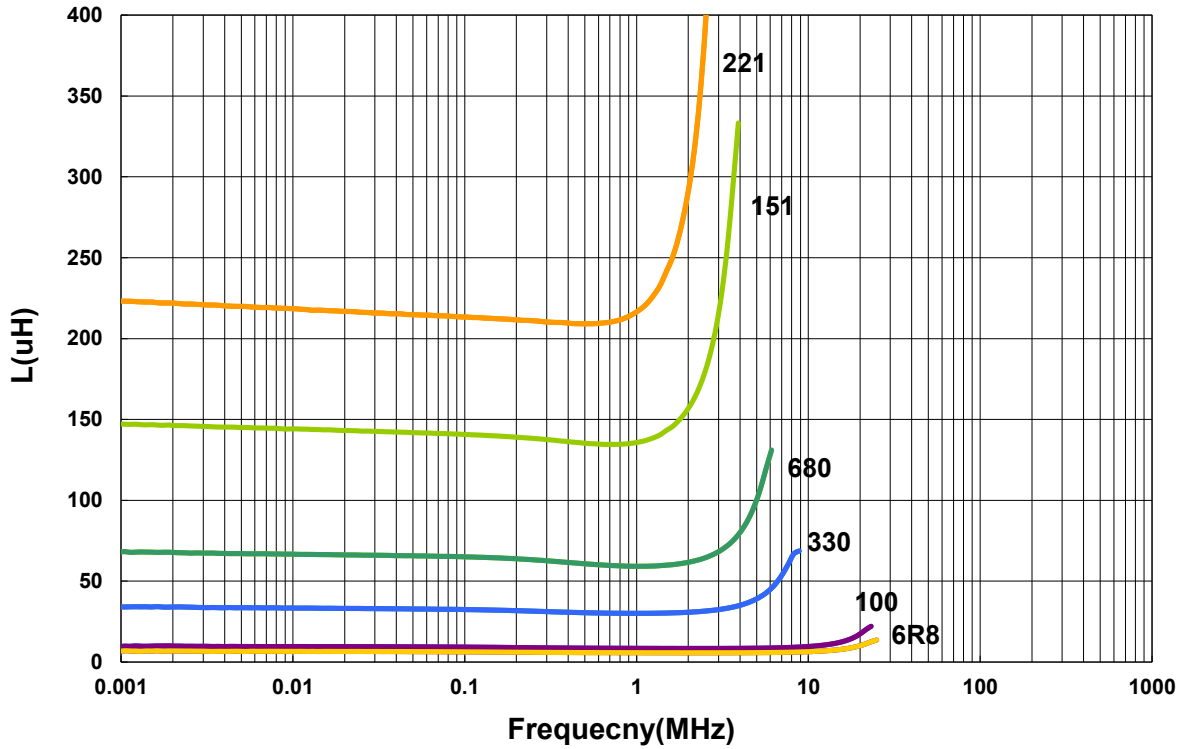
Power Inductor APSL Series

**Automotive
AEC-Q200**

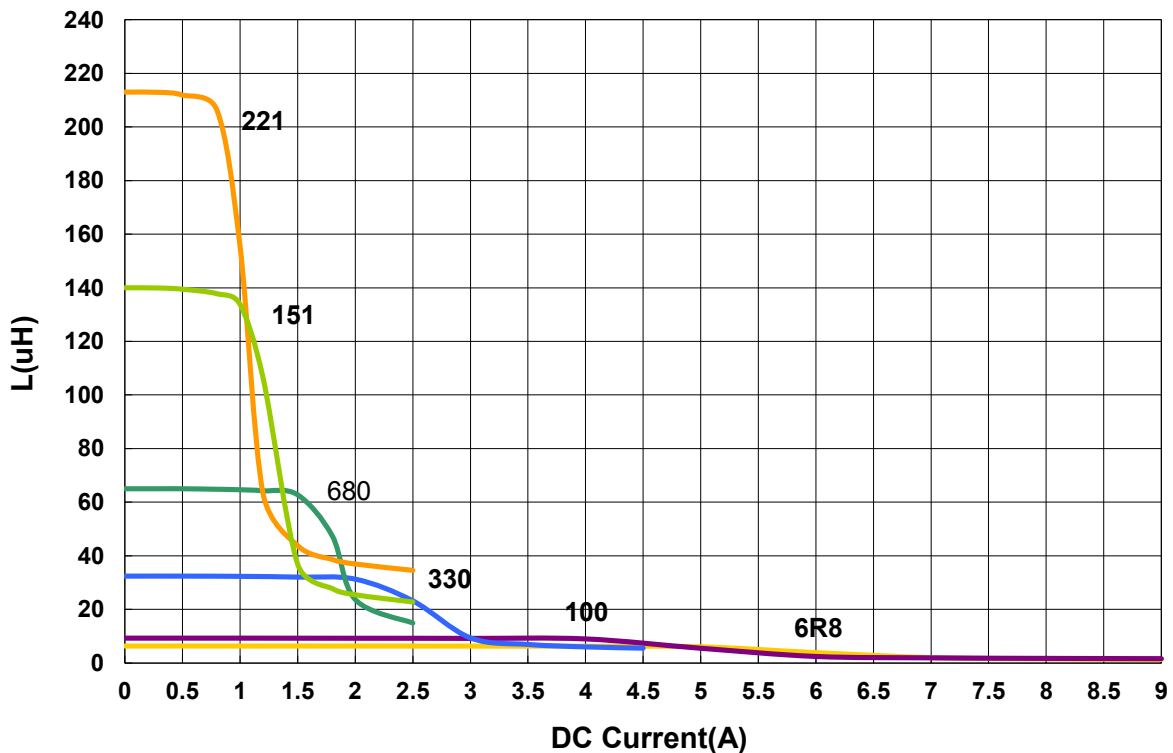
APSL00130952 Type

Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

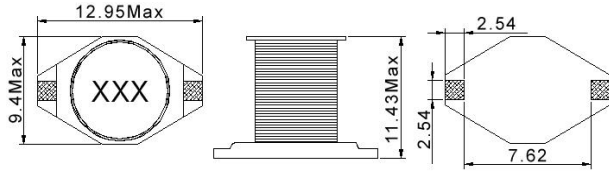


Power Inductor APSL Series

**Automotive
AEC-Q200**

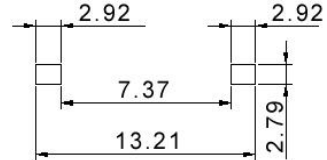
APSL00130911 Type

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

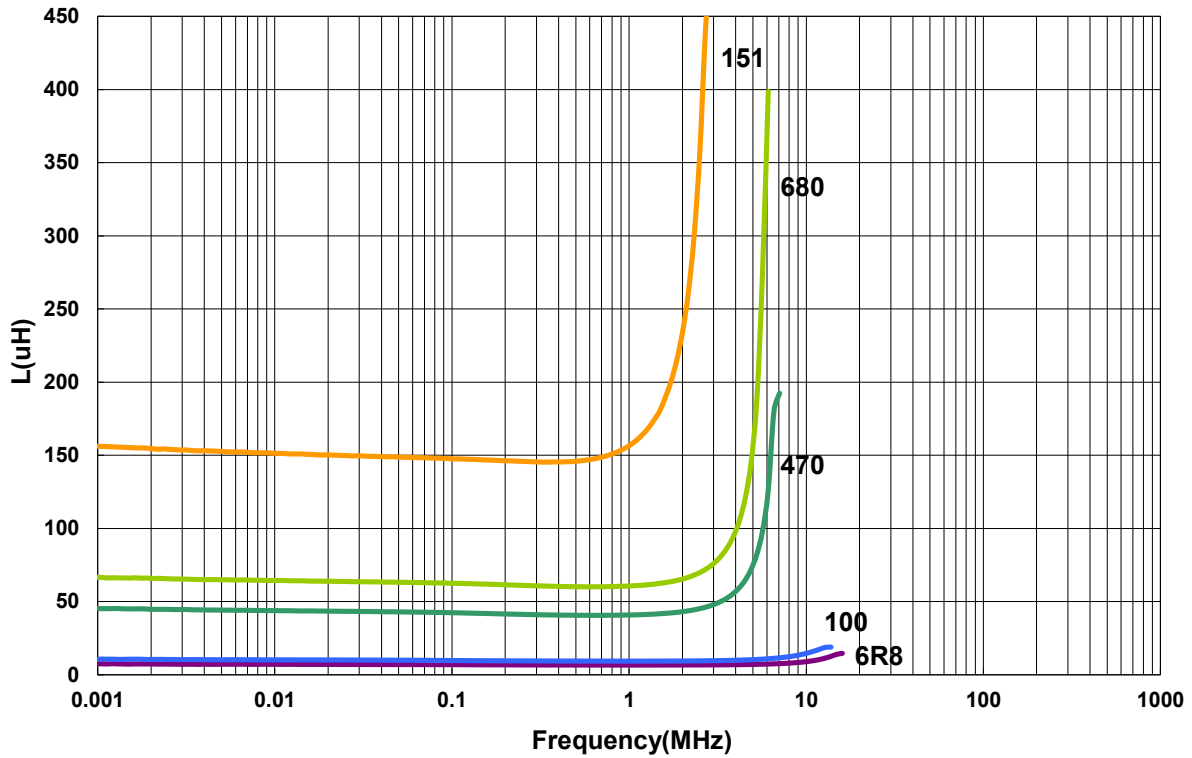
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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

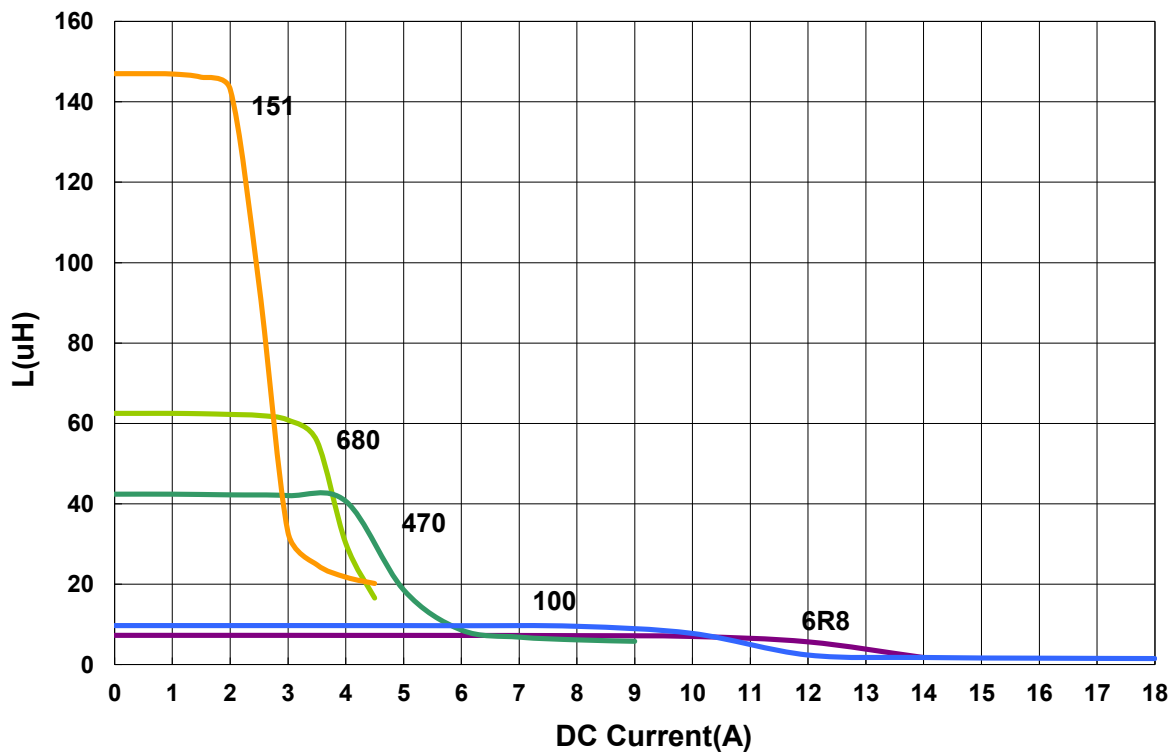
APSL00130911 Type

■ Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current

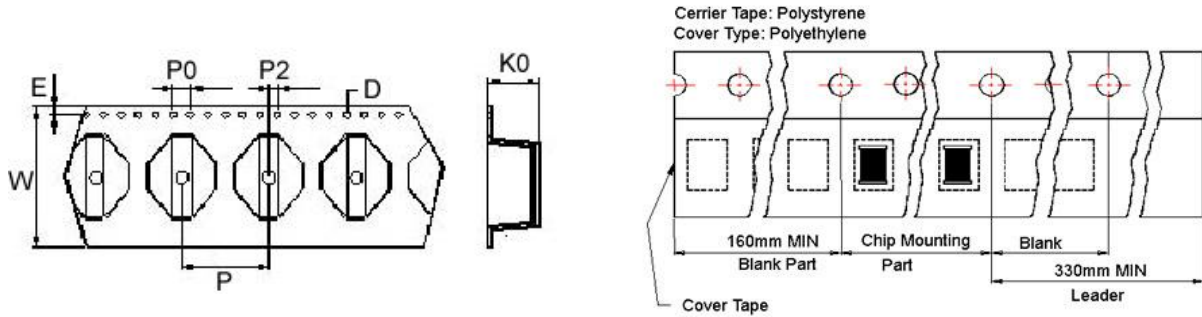


Power Inductor APSL Series

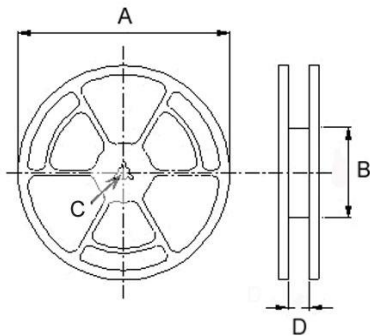
**Automotive
AEC-Q200**

■ Packaging

Tape Dimensions



Reel Dimensions



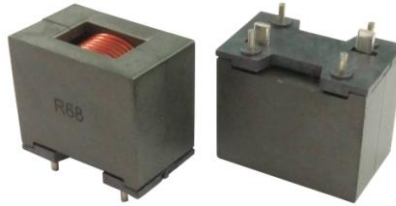
Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity PCS / REEL
	K0	D	E	W	P	P0	P2	A	B	C	D	
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

Power Inductor APDP Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



- Power Circuit
- Shield
- Wire Wound
- Ultra High Current
- Ferrite

Part Numbering

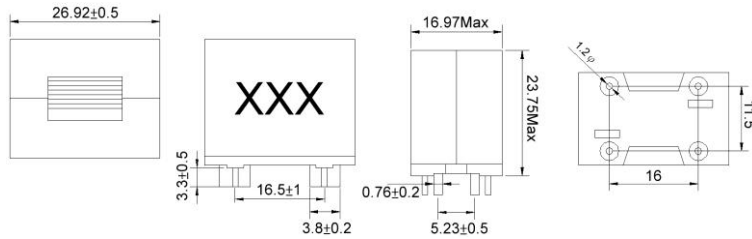
A	PDP	00	271724	100	K	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			271724 26.92x16.97x23.75	4R7 4.7	M ±20%	
			413729 41x36.8x28.5	100 10	K ±10%	
				101 100		

Power Inductor APDP Series

**Automotive
AEC-Q200**

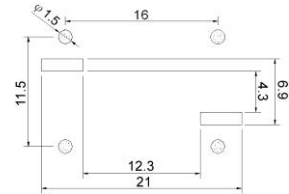
APDP00271724 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)Max	Isat1(A) Max(Typ)	Isat2(A) (A)Typ	Isat3(A) (A)Typ	Irms (A)Max	Tol. (±%)	Marking
APDP002717244R7K00	4.7	300kHz/0.1V	2.6	58(63)	60(69)	62(72)	26	10	4R7
APDP002717246R8K00	6.8	300kHz/0.1V	2.6	41(48)	43(53)	44.5(56)	26	10	6R8
APDP00271724100K00	10	300kHz/0.1V	2.6	25(30)	28(34)	29(37)	26	10	100
APDP00271724110K00	11	300kHz/0.1V	2.6	26(31)	28(33)	28.5(34)	26	10	110

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

1. Operating temperature range - 40°C ~ 125°C
2. Isat1 for Inductance drop 10%
3. Isat2 for Inductance drop 20%
4. Isat3 for Inductance drop 30%
5. I rms for a 40°C temprature rise from 25°C ambient with current
6. Caution: This series is not inteded for use in high vibration environments.

We advise using additional means of securing the part to the circuit board to ensure its adhesion.

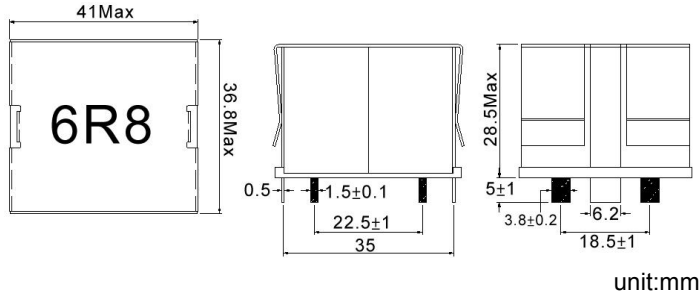
7. Measure Equipment:
 L: WK3260B+WK3265B
 SRF: Chroma 16502
 RDC: Chroma 16502
 Isat: WK3260B+WK3265B
 I rms: Chroma 1810

Power Inductor APDP Series

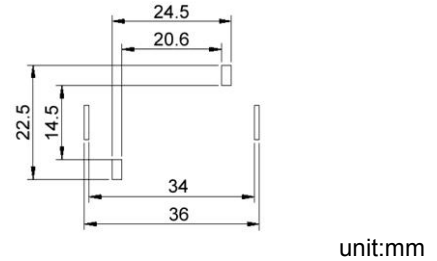
**Automotive
AEC-Q200**

APDP00413729 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (mΩ)Max	Isat1 (A)Typ	Isat2 (A)Typ	Isat3 (A)Typ	Irms (A)Max	Tol. (±%)	Marking
APDP004137296R8M00	6.8	100kHz,0.1V	2.95	92	97.8	101.8	34	20	6R8
APDP00413729100M00	10	100kHz,0.1V	2.95	56	60	63	34	20	100
APDP00413729150M00	15	100kHz,0.1V	2.95	45	47	49	34	20	150
APDP00413729220M00	22	100kHz,0.1V	2.95	32.8	35.4	36.6	34	20	220
APDP00413729330M00	33	100kHz,0.1V	2.95	22.5	24.7	25.8	34	20	330
APDP00413729400K00	40	100kHz,0.1V	2.95	19	20	21	34	10	400
APDP00413729470K00	47	100kHz,0.1V	2.95	16	17.6	18.6	34	10	470
APDP00413729520K00	52	100kHz,0.1V	2.95	13	13.8	14.5	34	10	520
APDP00413729680K00	68	100kHz,0.1V	2.95	10.6	12.2	13	34	10	680
APDP00413729101K00	100	100kHz,0.1V	2.95	6.88	7.8	8.36	34	10	101
APDP00413729151K00	150	100kHz,0.1V	2.95	4.18	4.96	5.4	34	10	151

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

1. Operating temperature range - 40°C ~ 125°C
2. Isat1 for Inductance drop 10%
3. Isat2 for Inductance drop 20%
4. Isat3 for Inductance drop 30%
5. I rms for a 40°C temprature rise from 25°C ambient with current
6. Caution: This series is not inteded for use in high vibration environments.

We advise using additional means of securing the part to the circuit board to ensure its adhesion.

7. Measure Equipment:
 L: WK3260B+WK3265B
 SRF: HP4285A
 RDC: Chroma 16502
 Isat: WK3260B+WK3265B
 I rms: WK3260B+WK3265B

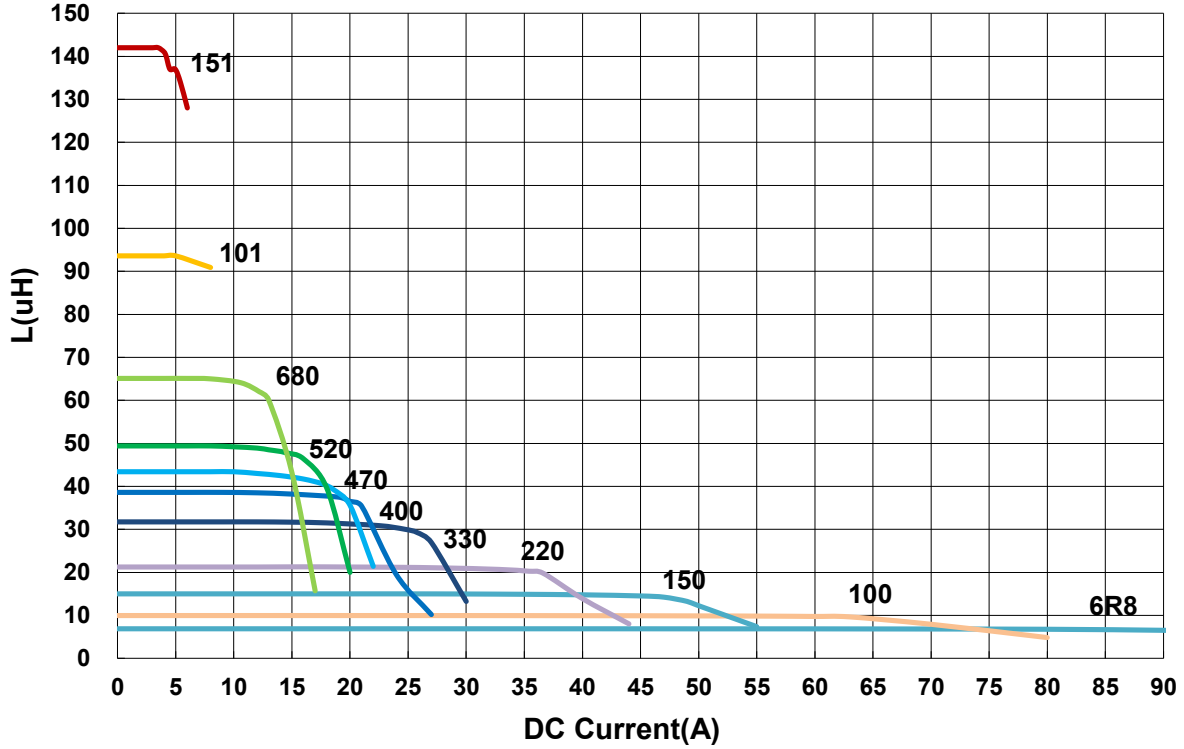
Power Inductor APDP Series

**Automotive
AEC-Q200**

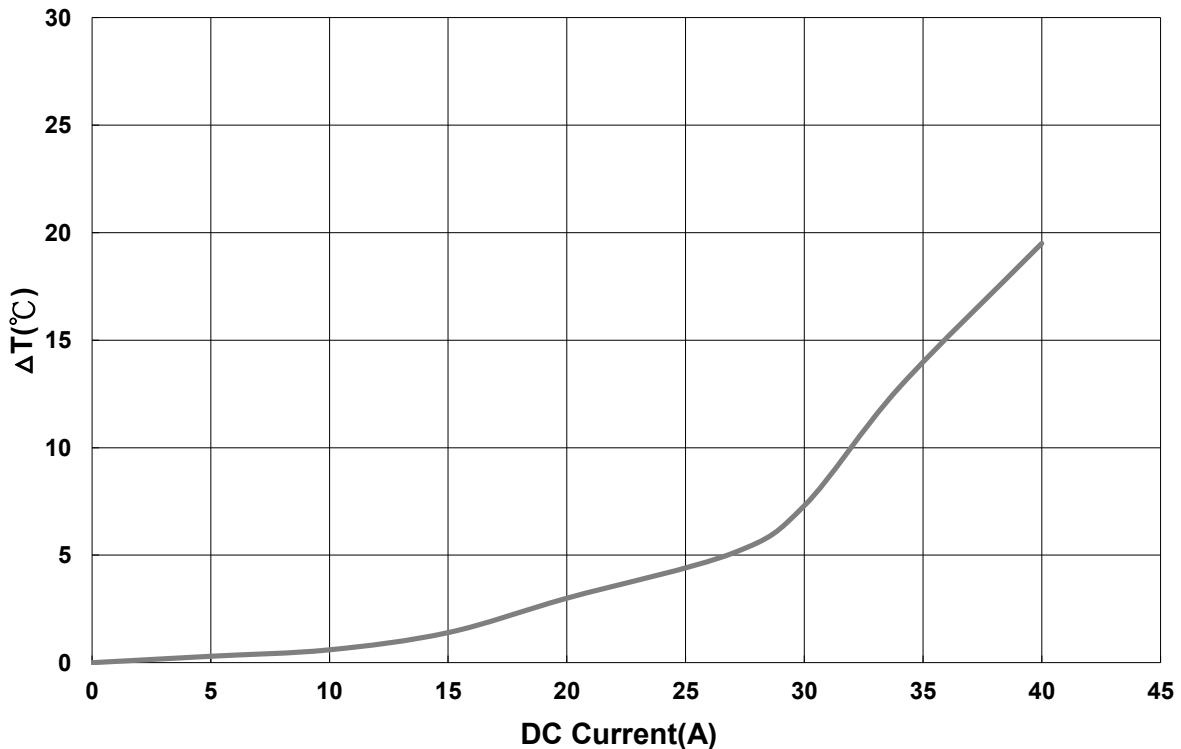
APDP00413729 Type

■ Characteristics Graph

Inductance vs. DC Current



Inductance vs. DC Current

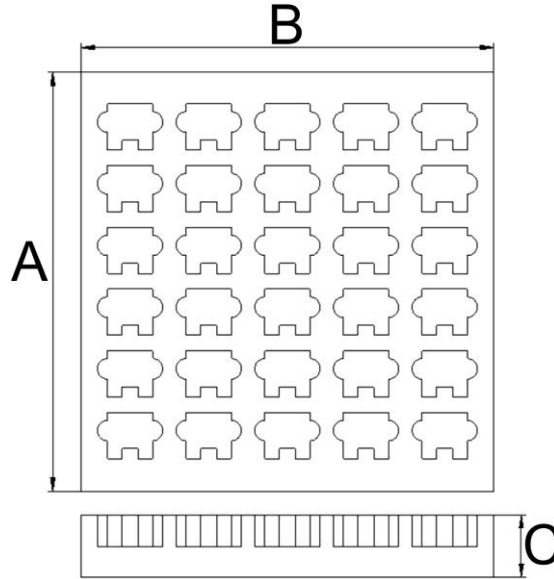


Power Inductor APDP Series

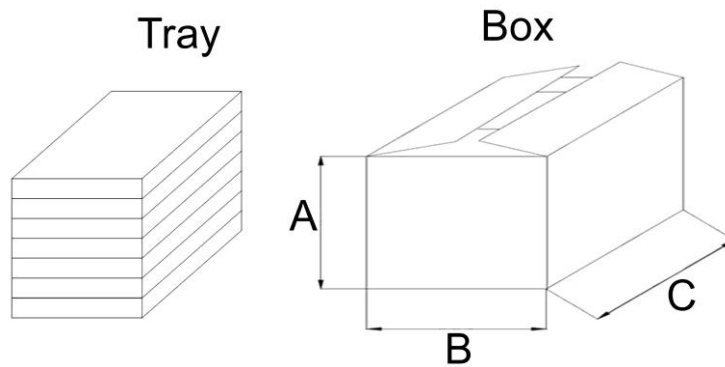
Automotive
EC-Q200

■ Packaging

Tray Dimensions



Box Dimensions



Dimensions in mm

TYPE	Tray Dimensions			Box Dimensions			Quantity			
	A	B	C	A	B	C	Bulk	Tray	Tray/Grip	Box
APDP00271724	245	245	36	270	255	255	v	30	7	210
APDP00413729	245	245	53	270	255	255	v	20	5	100

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

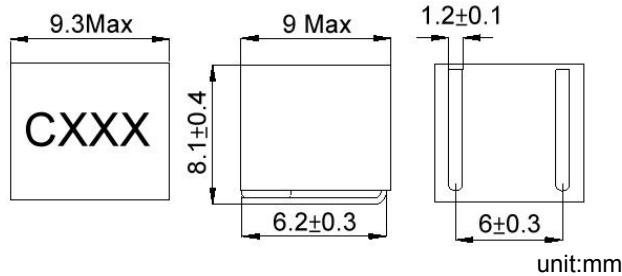
A	FSI	00	090908	1R0	M	05
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			090908 9.3x9x8.1	R47 0.47	M ±20%	
			121109 12x11x8.8	4R7 4.7		
				100 10		

SMD Power Chokes – AFSI Series

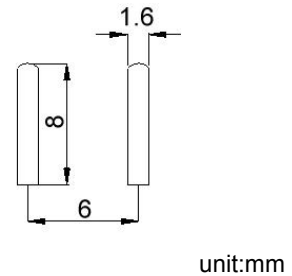
**Automotive
AEC-Q200**

AFSI00090908 Type

■ Dimensions



■ Recommended Land Pattern



■ 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°C ~ 155°C(Including self - temperature rise)
3. Isat for Inductance drop 30% from its value without current
4. I rms for a 40°C temprature rise from 25°C ambient with current
5. Measure Equipment:
 L: WK4237
 RDC: CHEN HWA502
 Isat: WK3260B/ 3265
 I rms: WK3260B/ 3265

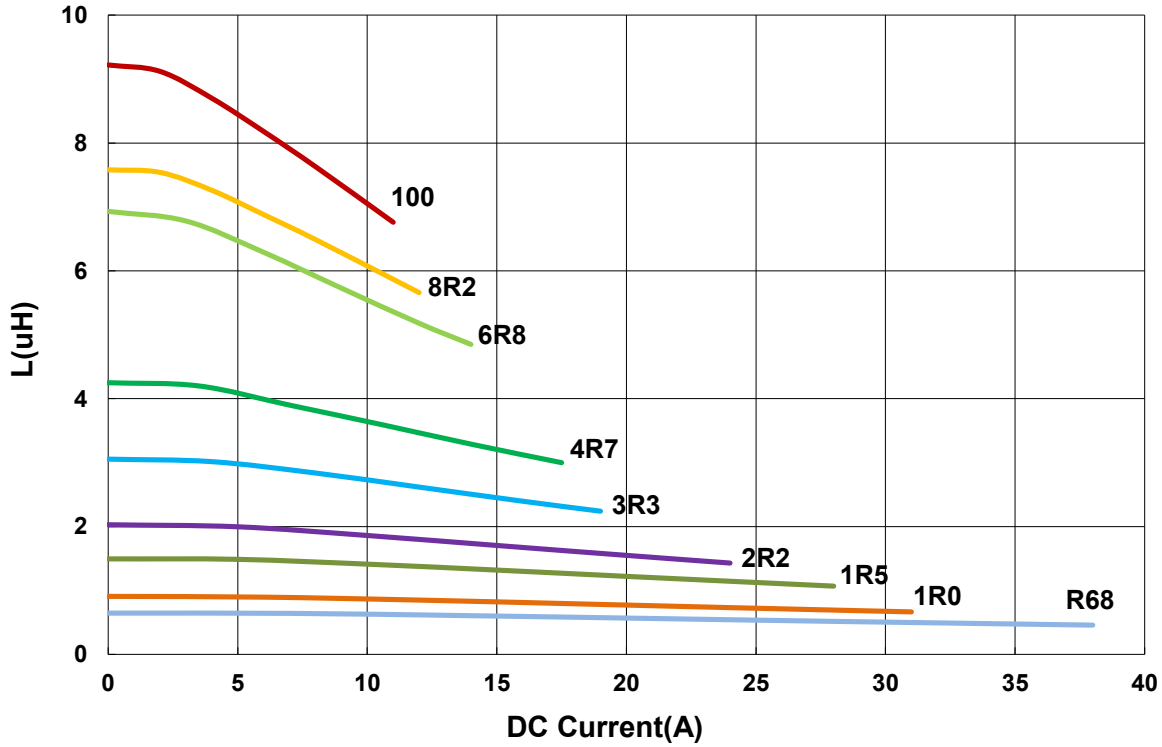
SMD Power Chokes – AFSI Series

**Automotive
AEC-Q200**

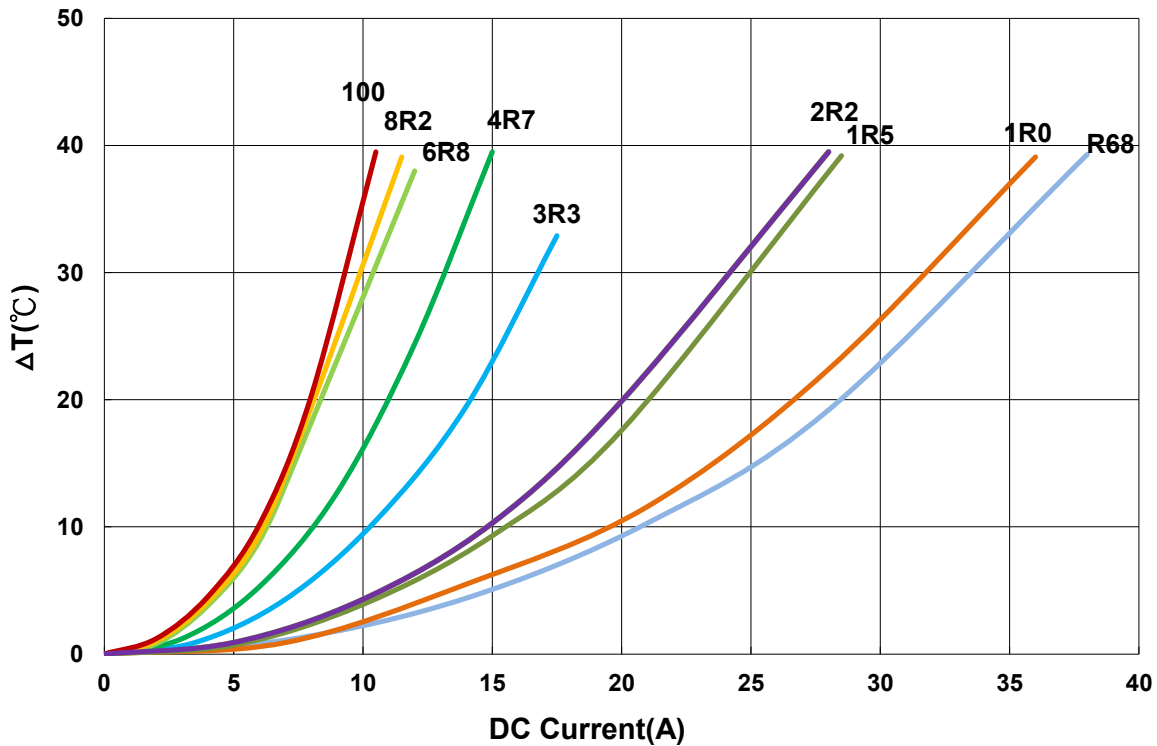
AFSI00090908 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

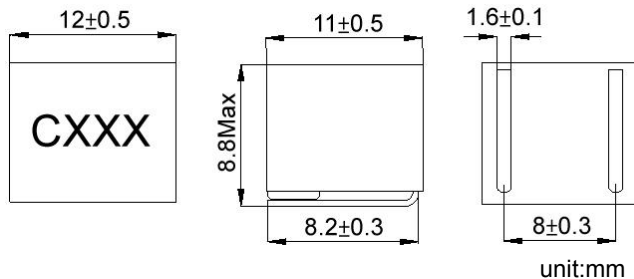


SMD Power Chokes – AFSI Series

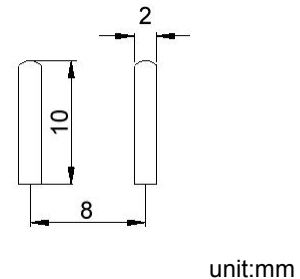
**Automotive
AEC-Q200**

AFSI00121109 Type

■ Dimensions



■ Recommended Land Pattern



■ 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
AFSI00121109R10M05	1	100kHz,1V	1.5(2.0)	45	40	20	C1R0
AFSI00121109R5M05	1.5	100kHz,1V	2.0(2.5)	36	33	20	C1R5
AFSI00121109R2M05	2.2	100kHz,1V	2.4(2.8)	30	30	20	C2R2
AFSI00121109R3M05	3.3	100kHz,1V	3.3(3.8)	26	26	20	C3R3
AFSI00121109R7M05	4.7	100kHz,1V	5.7(6.2)	23	20	20	C4R7
AFSI00121109R6M05	5.6	100kHz,1V	6.4(7.0)	21	18	20	C5R6
AFSI00121109R8M05	6.8	100kHz,1V	6.8(7.8)	19	17	20	C6R8
AFSI00121109R2M05	8.2	100kHz,1V	8.2(9.0)	18	16	20	C8R2
AFSI00121109R100M05	10	100kHz,1V	11.3(12)	17.5	13	20	C100
AFSI00121109R150M05	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°C ~ 155°C(Including self - temperature rise)
3. Isat for Inductance drop 30% from its value without current
4. I rms for a 40°C temprature rise from 25°C ambient with current
5. Measure Equipment:
L: WK4237
RDC: CHEN HWA502
Isat: WK3260B/ 3265
I rms: WK3260B/ 3265

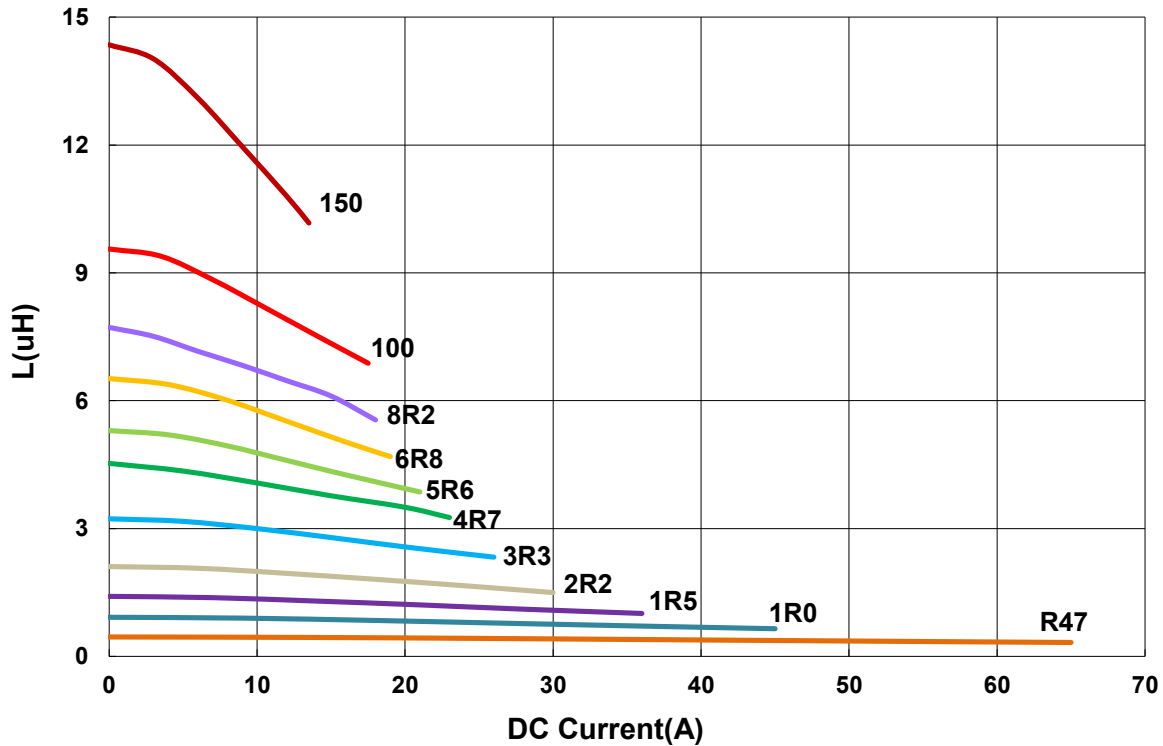
SMD Power Chokes – AFSI Series

**Automotive
AEC-Q200**

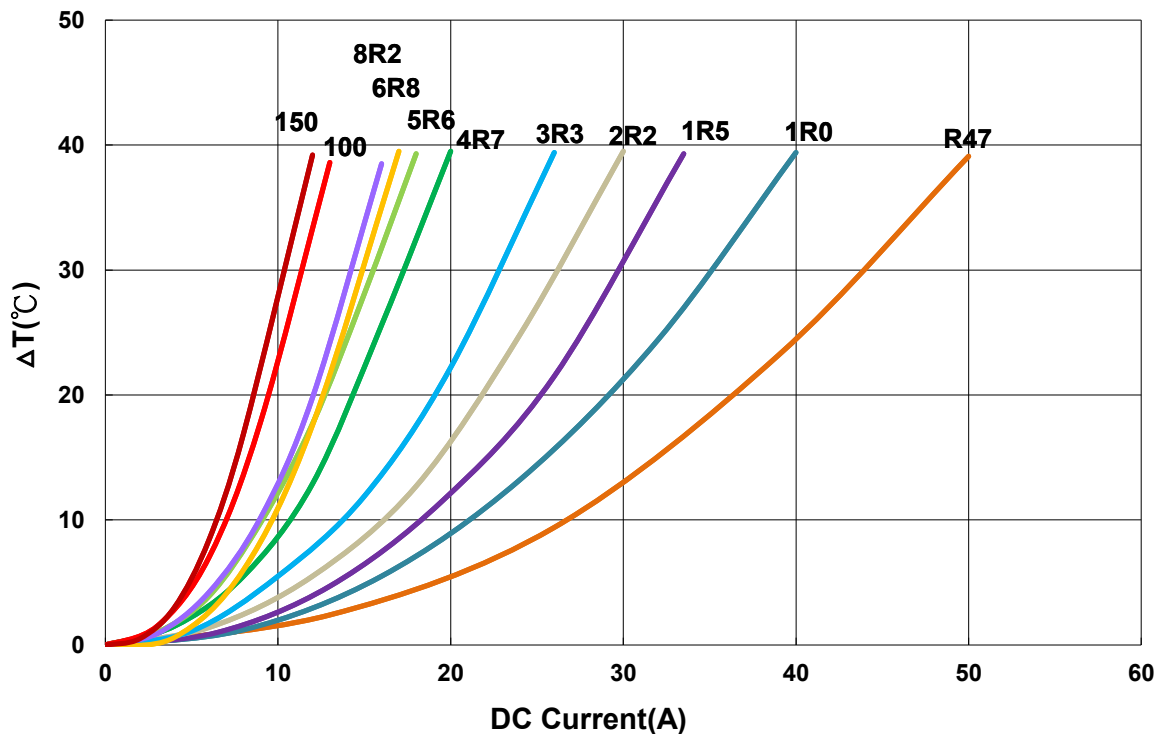
AFSI00121109 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

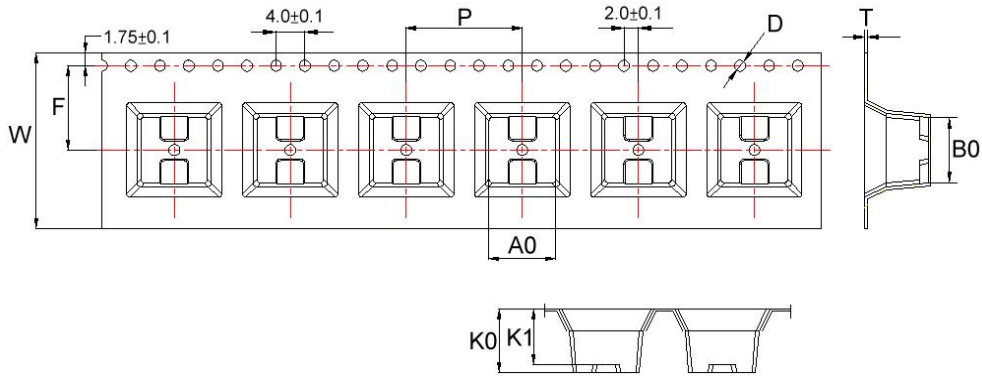


SMD Power Chokes – AFSI Series

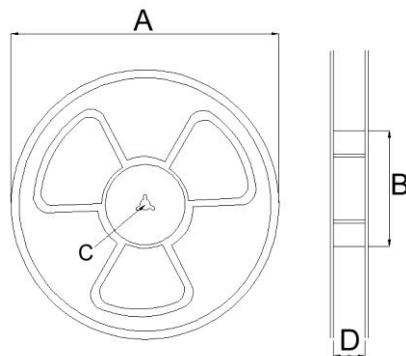
**Automotive
AEC-Q200**

■ 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
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

Power Inductor AP3Y Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



- Shield
- Wire Wound
- Metal
- Ultra High Current

Part Numbering

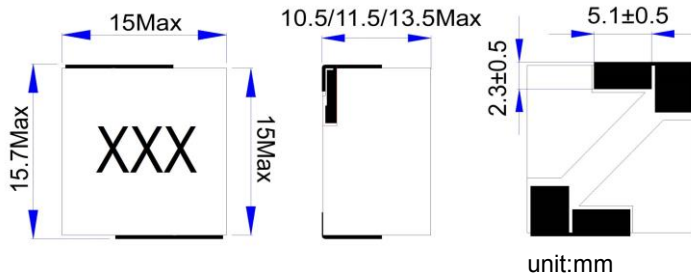
A	P3Y	00	151510	100	M	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			151510 15x15.7x10.5	8R2 8.2	M ±20%	
			151511 15x15.7x11.5	100 10		
			151513 15x15.7x13.5	330 33		
			282816 29.5x29.5x16			

Power Inductor AP3Y Series

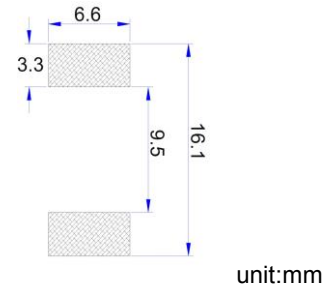
**Automotive
AEC-Q200**

AP3Y001515xx Type

■ Dimensions



■ Recommended Land Pattern



■ 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°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temperature rise from 25°C ambient with current

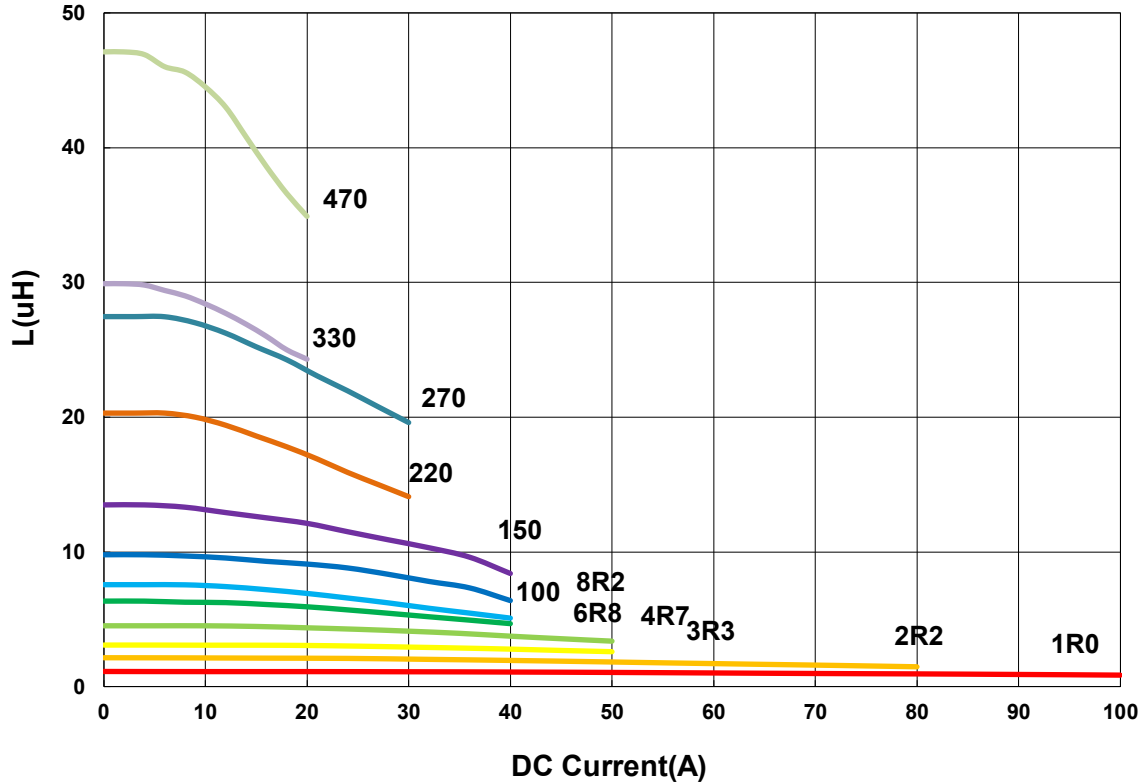
Power Inductor AP3Y Series

**Automotive
AEC-Q200**

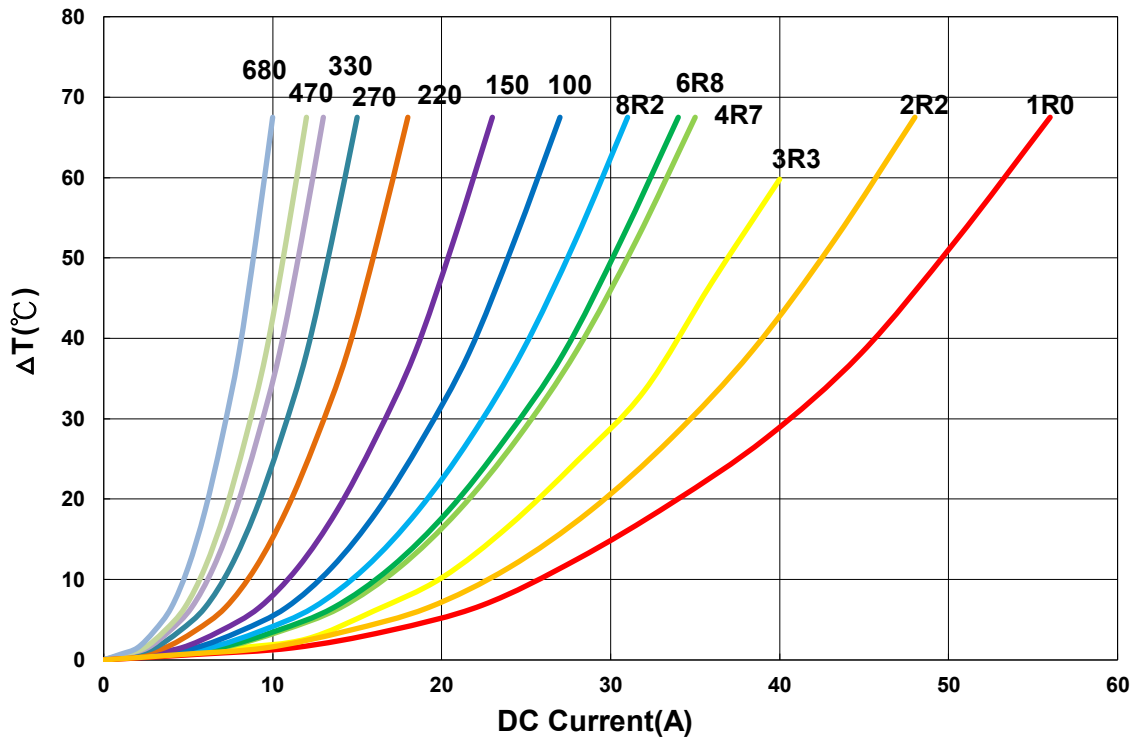
AP3Y001515xx Type

Characteristics Graph

Inductance vs DC Current



Temperature Change v.s DC Current



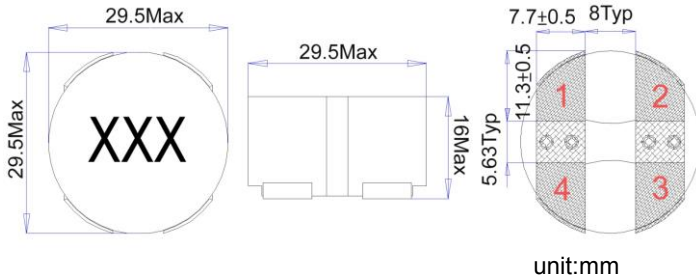
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

Power Inductor AP3Y Series

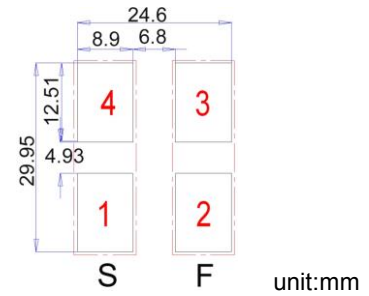
**Automotive
AEC-Q200**

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
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

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 temperature rise from 25°C ambient with current

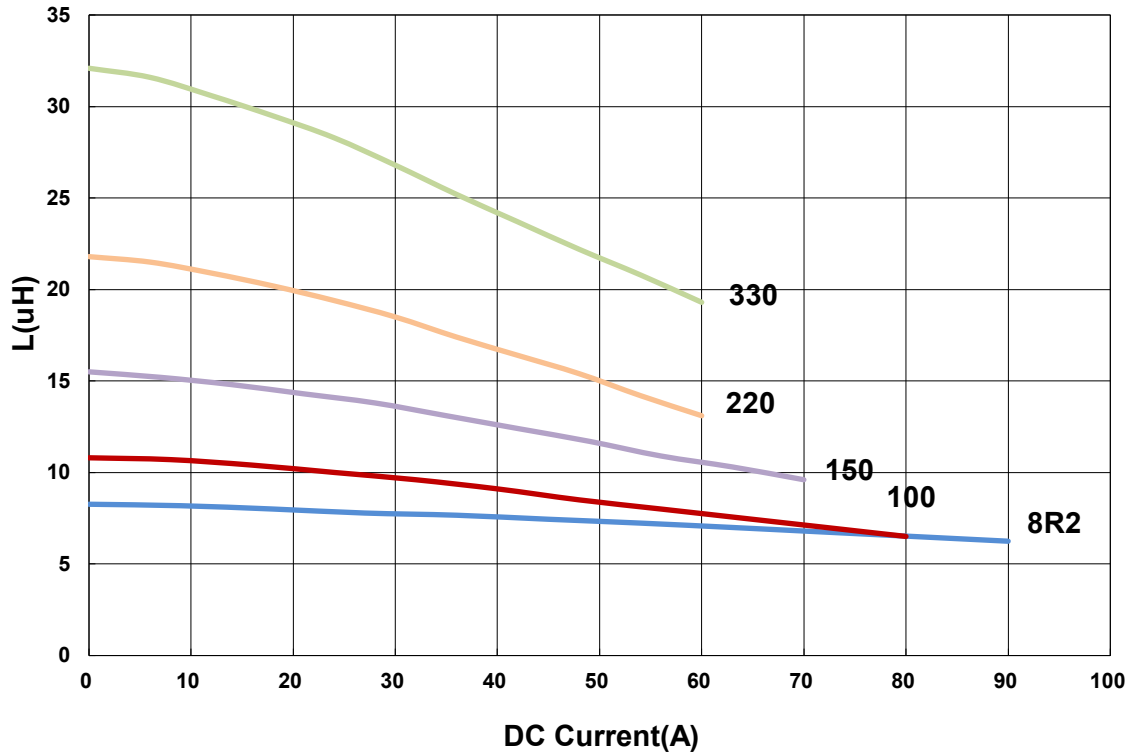
Power Inductor AP3Y Series

**Automotive
AEC-Q200**

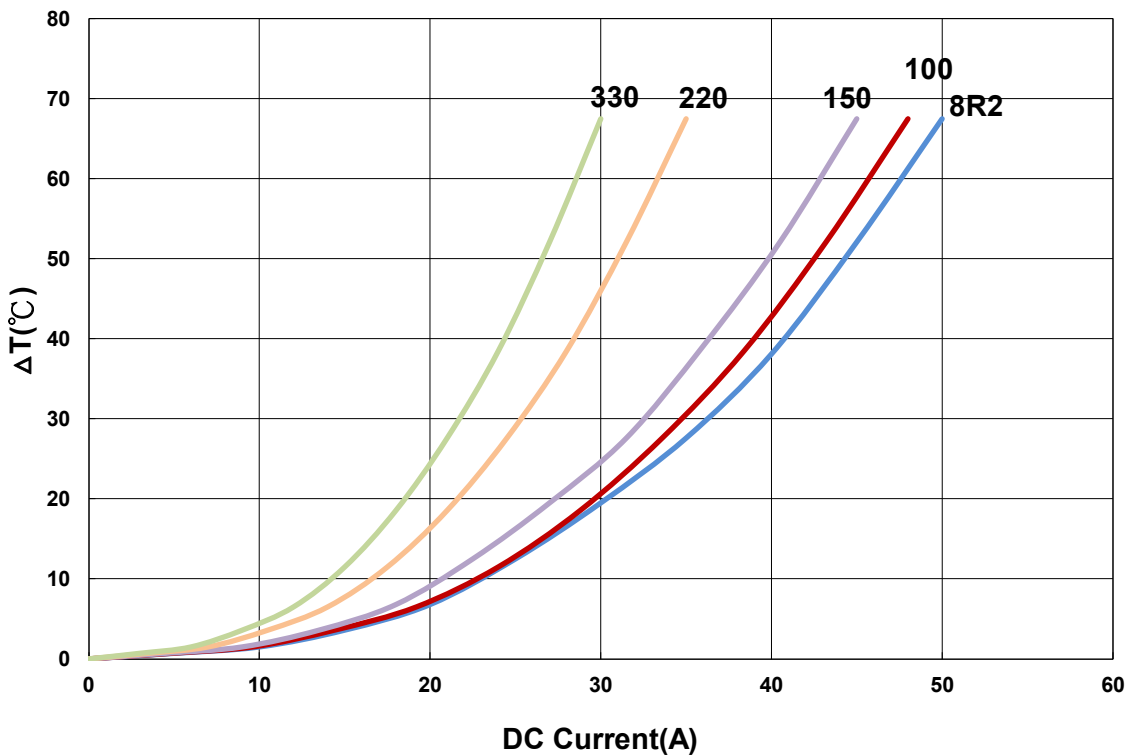
AP3Y00282816 Type

Characteristics Graph

Inductance vs DC Current



Temperature Change v.s DC Current

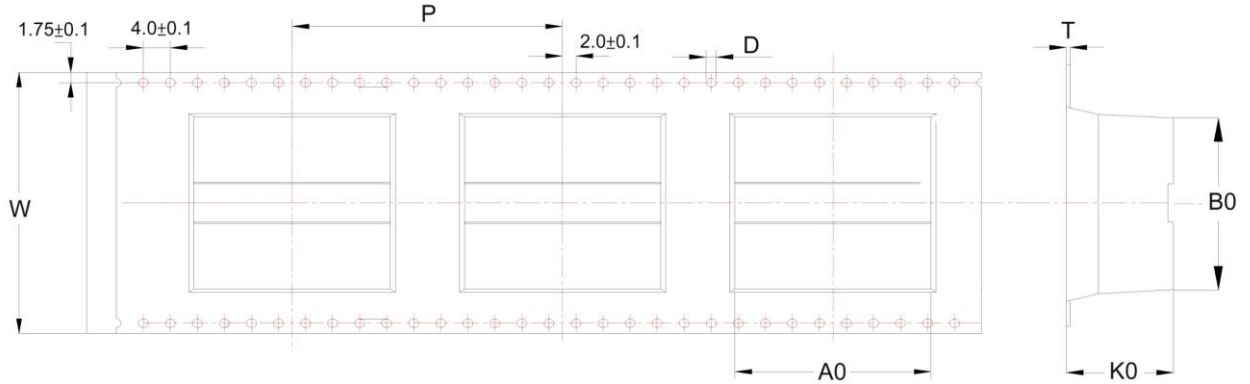


Power Inductor AP3Y Series

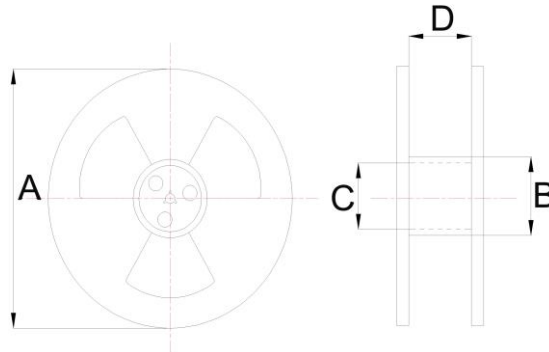
**Automotive
AEC-Q200**

■ Packaging

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity PCS / REEL
	A0	B0	K0	D	W	T	P	A	B	C	D	
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
AP3Y00282816	29.2	29.2	15	1.5	44	0.5	40	330	100	13.5	44.5	30

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
			060303 0.6x0.3x0.3	0N6 0.6 1N0 1.0 10N 10	B ±0.1nH C ±0.2nH H ±3%	

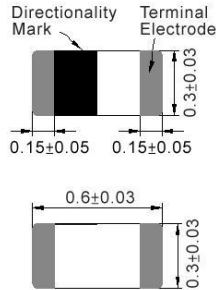
This specification applies to Multilayer Chip Inductors for Automotive Electronics based on AEC-Q200 except for Power train and Safety.

Chip Inductor ASCQ Series

Automotive
AEC-Q200

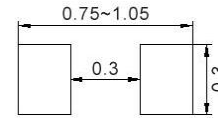
ASCQ00060303 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance	L,Q	Q	SRF	RDC	IDC	Tolerance
	(nH)	Test Freq.	Min.	(MHz)Min.	(Ω)Max.	(mA)Max.	(±%)
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%

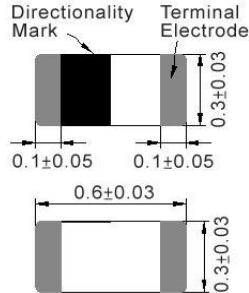
1. Operating temperature range - 55°C ~ 125°C
2. Applied the current to coils, the inductance shall be less than 10% initial value
3. Measure Equipment:
L & Q: Agilent E4991A+Agilent 16197A
SRF: Agilent E4991A or HP19196C
RDC: HP4338B or CHEN HWA 502

Chip Inductor ASCQ Series

Automotive
AEC-Q200

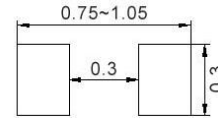
ASCQ00060303 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance	L,Q	Q	SRF	RDC	IDC	Tolerance
	(nH)	Test Freq.	Min.	(MHz)Min.	(Ω)Max.	(mA)Max.	(±%)
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

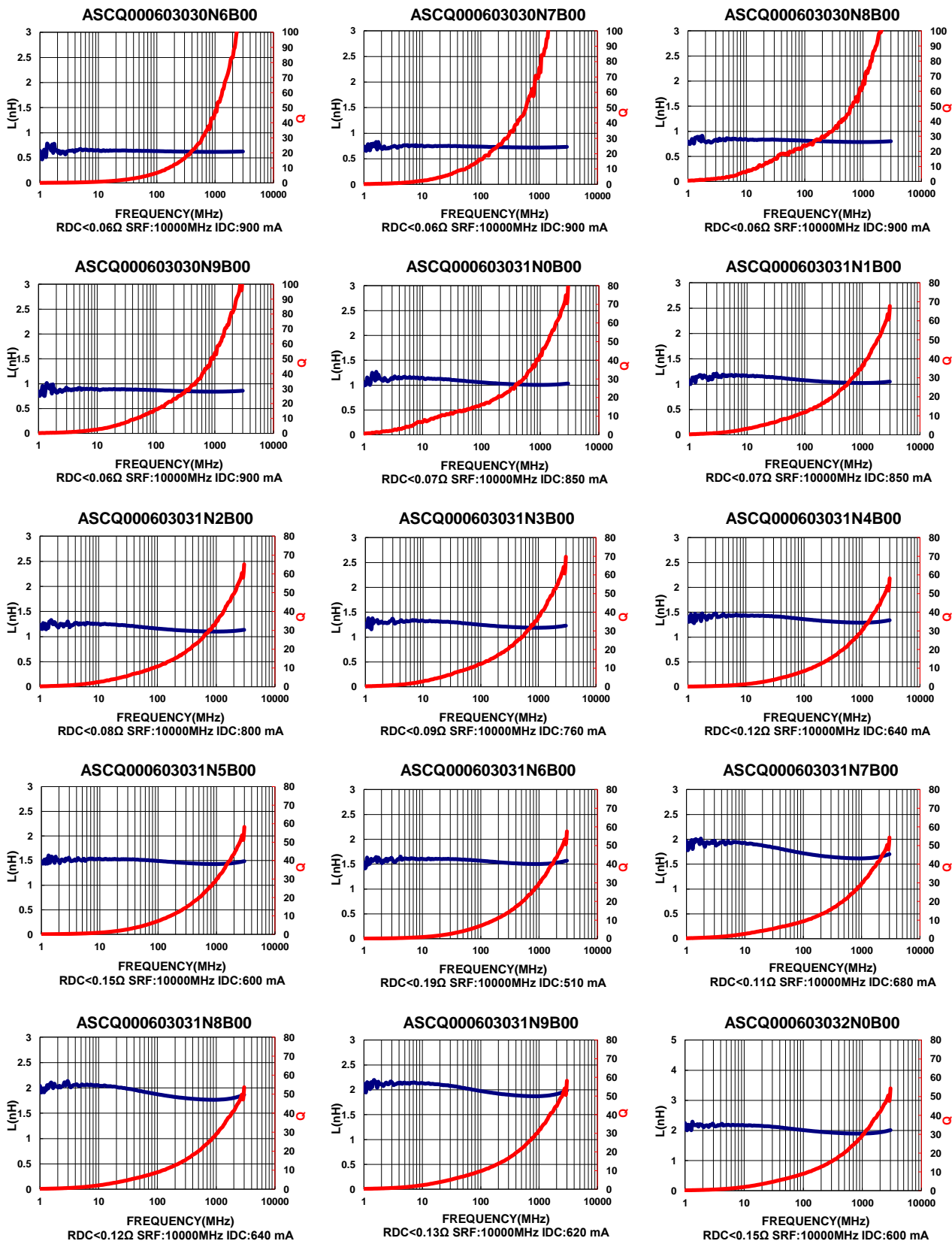
Note: When ordering, please specify tolerance code. Tolerance: B=±0.1nH / C=±0.2nH / H=±3%

1. Operating temperature range - 55°C ~ 125°C
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

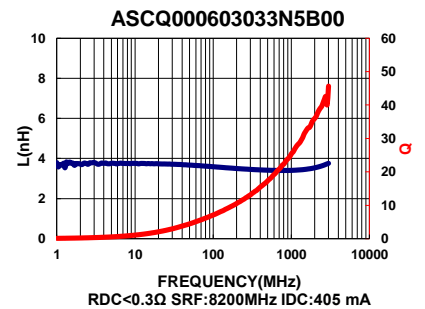
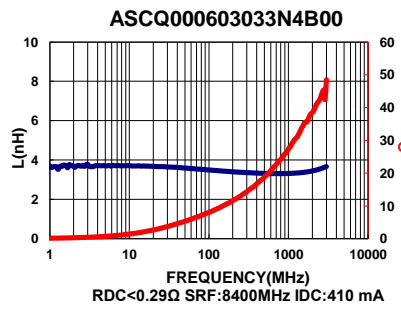
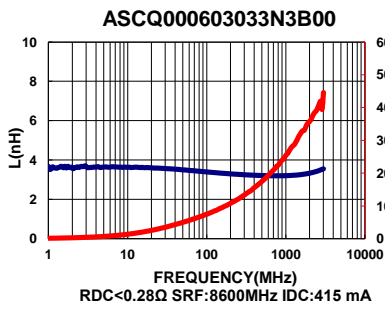
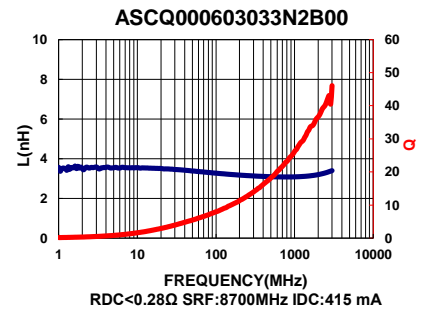
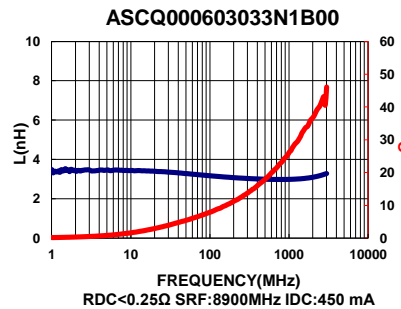
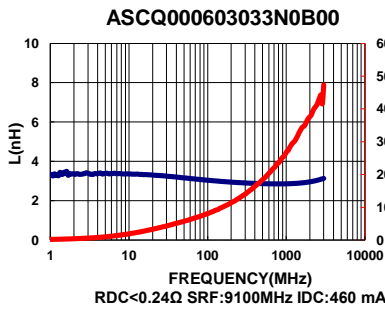
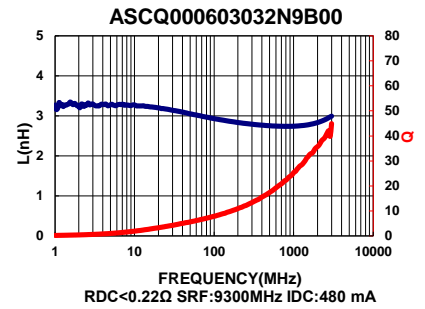
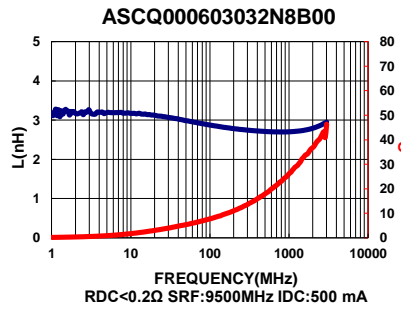
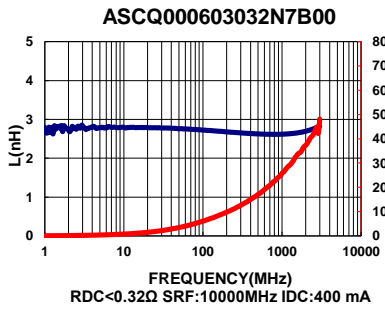
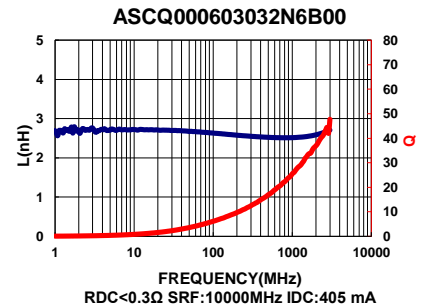
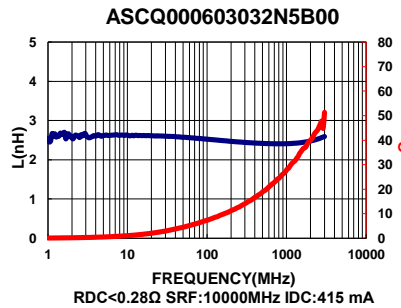
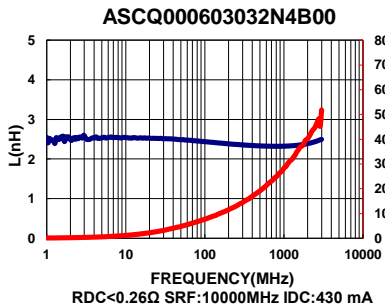
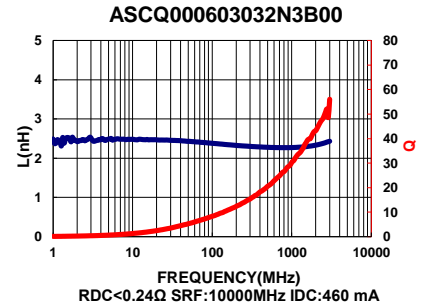
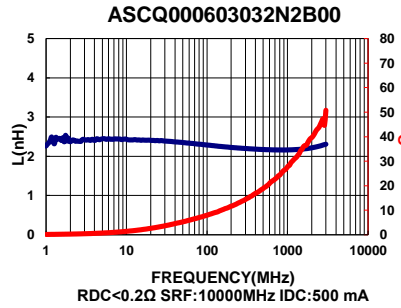
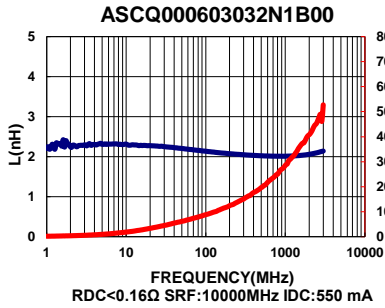
ASCQ00060303 Type

Characteristics Graph



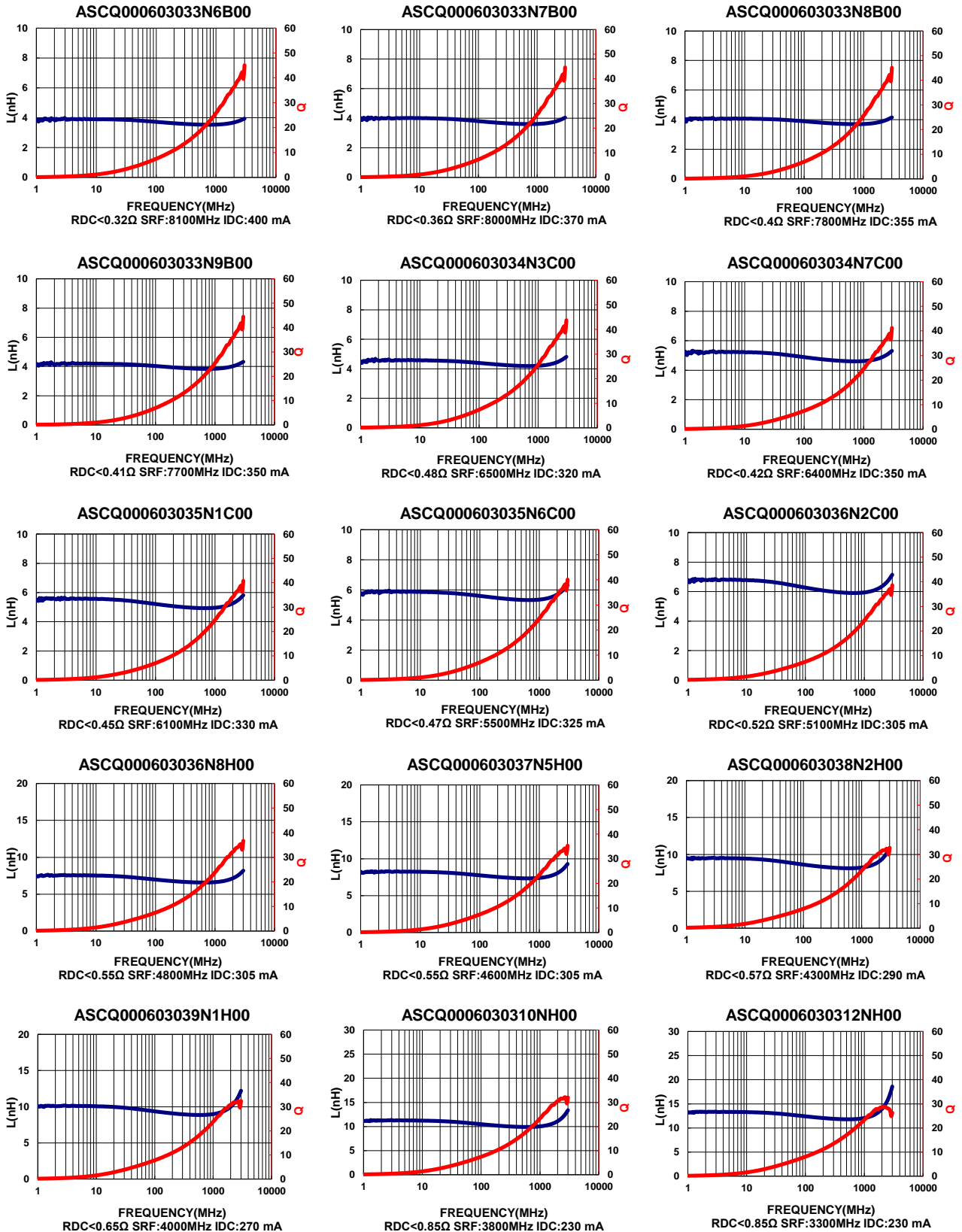
ASCQ00060303 Type

Characteristics Graph



ASCQ00060303 Type

Characteristics Graph



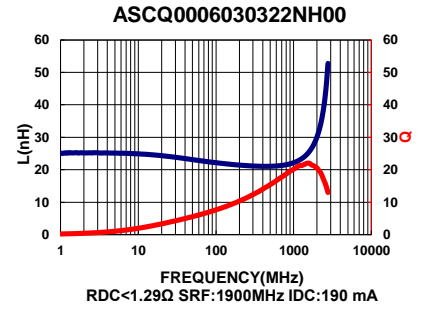
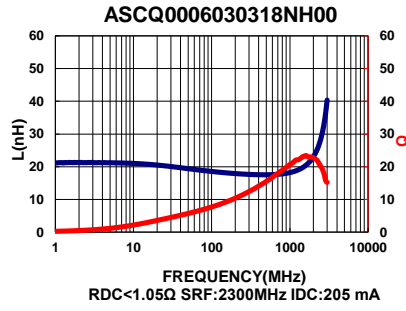
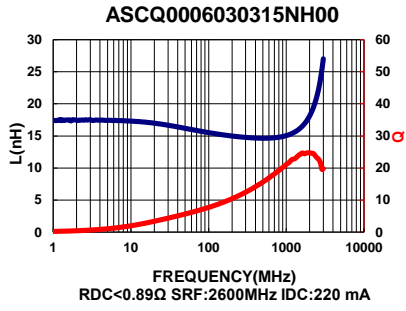
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

Chip Inductor ASCQ Series

Automotive
AEC-Q200

ASCQ00060303 Type

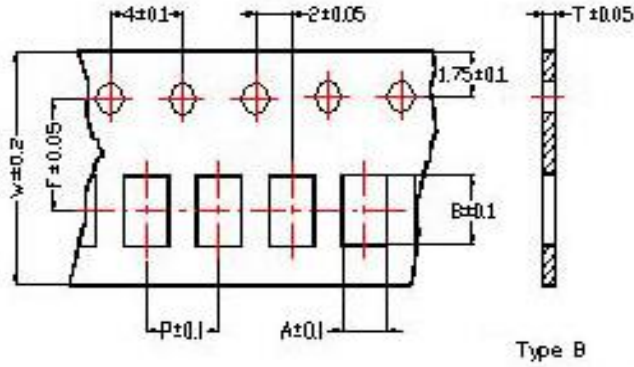
■ Characteristics Graph



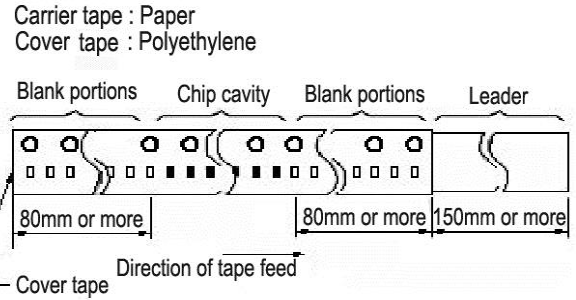
Chip Inductor ASCQ Series **Automotive AEC-Q200**

■ Packaging

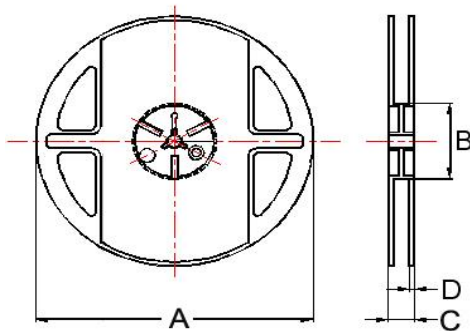
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

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

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		

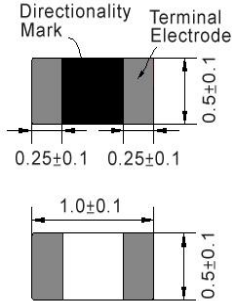
This specification applies to Wire Wound Chip Inductors for Automotive Electronics based on AEC-Q200 except for Power train and Safety.

Chip Inductor ASCH Series

Automotive
AEC-Q200

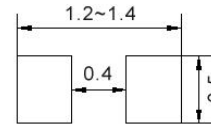
ASCH00100505_CP Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance	L,Q	Q	SRF	RDC	Rated Current	Tolerance
	(nH)	Test Freq.	Min.	(MHz)Min.	(Ω)Max.	(mA)Max.	(±%)
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%

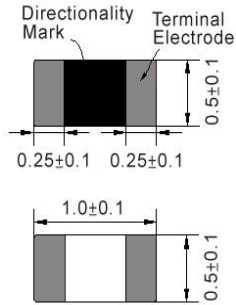
1. Operating temperature range - 55°C ~ 125°C
2. Applied the current to coils, the temperature rise shall not be more than 30°C
3. Residual impedance of short chip : 0nH
4. Measure Equipment:
L & Q: Agilent E4991A+Agilent 16197A
SRF: Agilent E4991A or HP19196C
RDC: HP4338B or CHEN HWA 502

Chip Inductor ASCH Series

**Automotive
AEC-Q200**

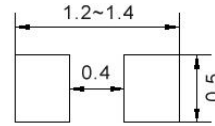
ASCH00100505_CP Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance	L,Q	Q	SRF	RDC	Rated Current	Tolerance
	(nH)	Test Freq.	Min.	(MHz)Min.	(Ω)Max.	(mA)Max.	(±%)
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%

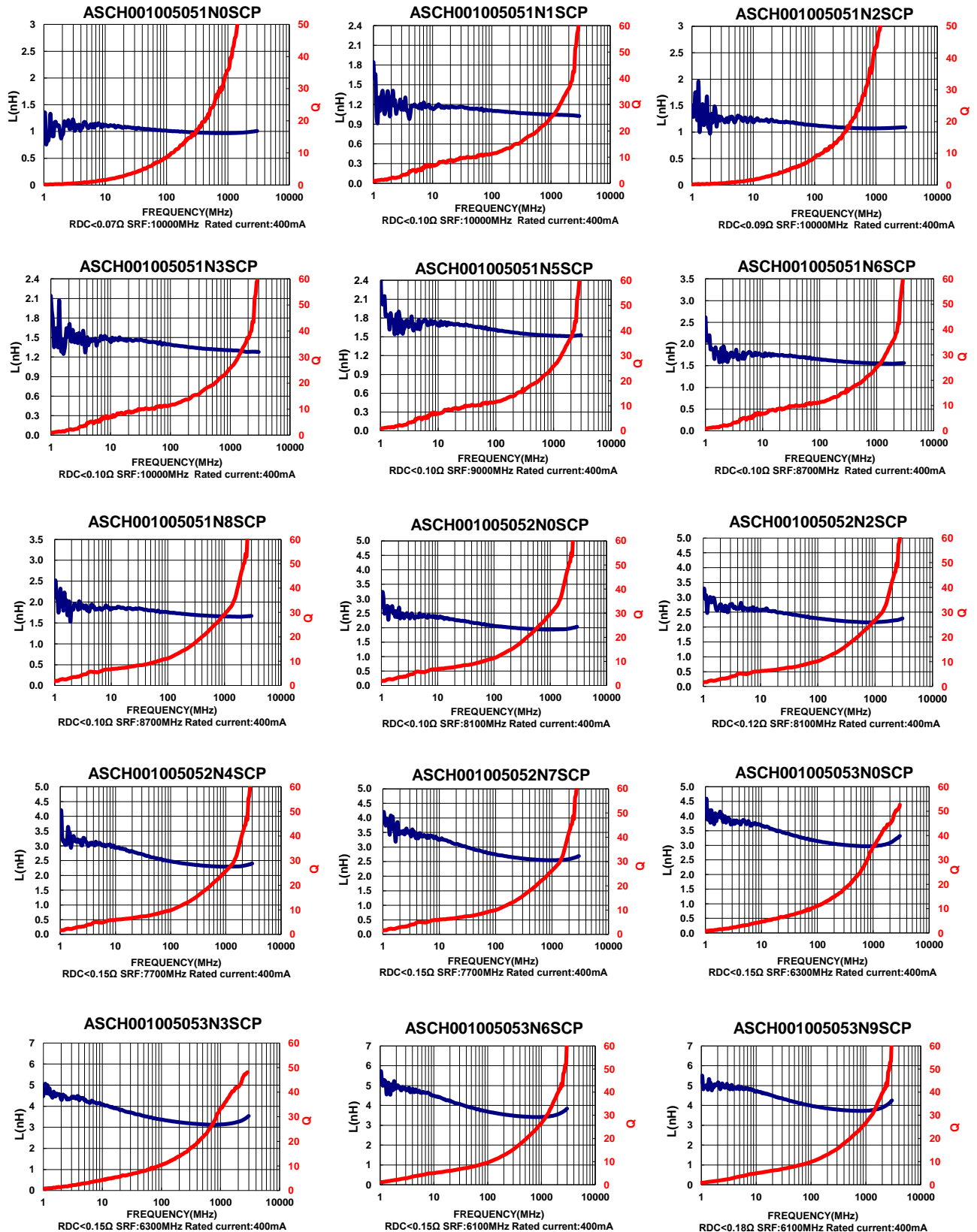
1. Operating temperature range - 55°C ~ 125°C
2. Applied the current to coils, the temperature rise shall not be more than 30°C
3. Residual impedance of short chip : 0nH
4. Measure Equipment:
L & Q: Agilent E4991A+Agilent 16197A
SRF: Agilent E4991A or HP19196C
RDC: HP4338B or CHEN HWA 502

Chip Inductor ASCH Series

Automotive
AEC-Q200

ASCH00100505_CP Type

Characteristics Graph



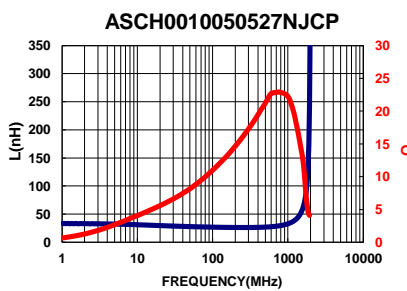
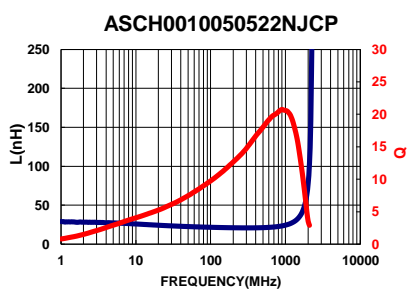
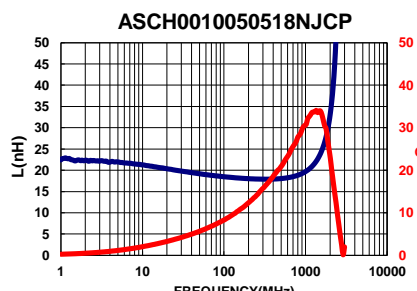
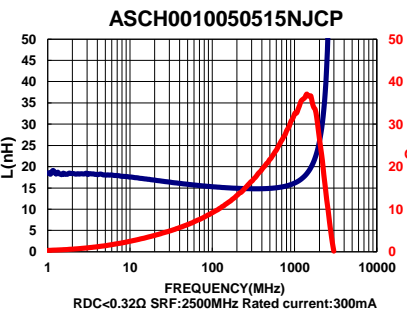
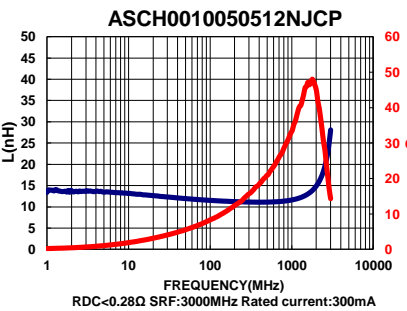
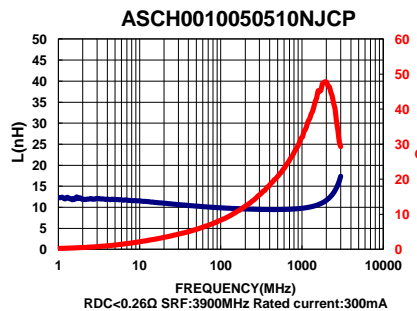
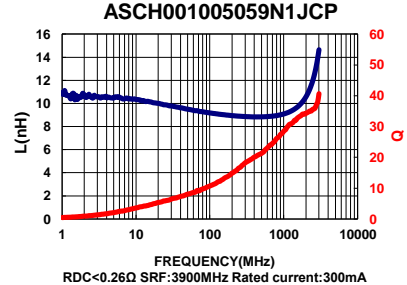
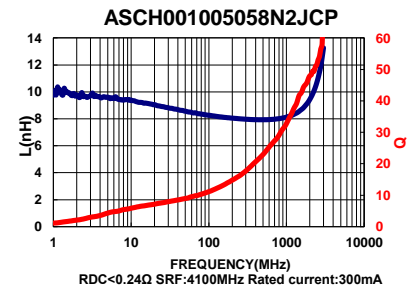
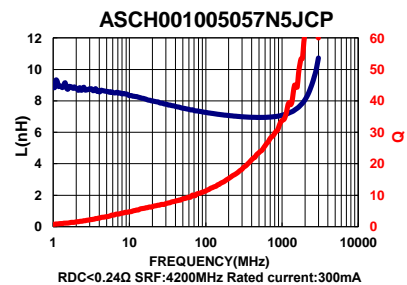
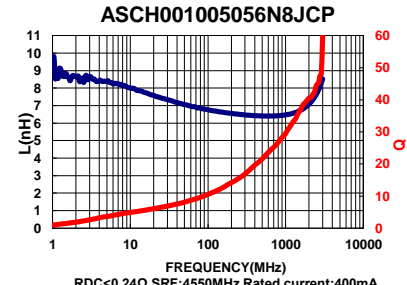
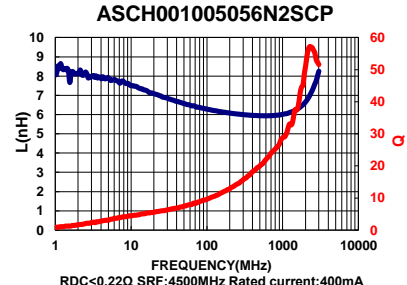
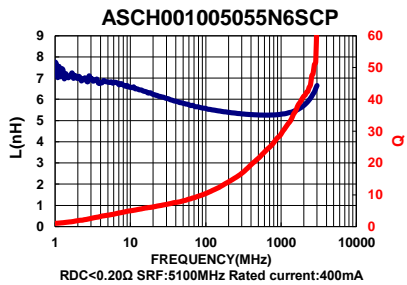
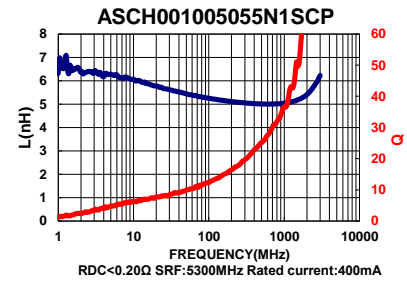
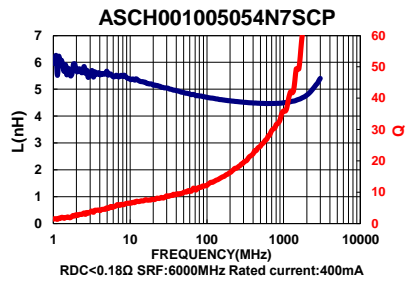
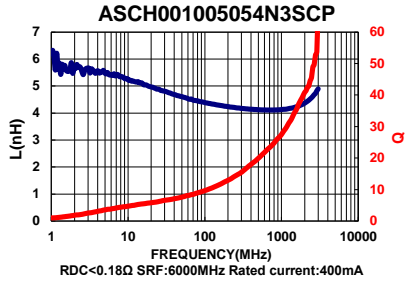
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Chip Inductor ASCH Series

Automotive
AEC-Q200

ASCH00100505_CP Type

Characteristics Graph



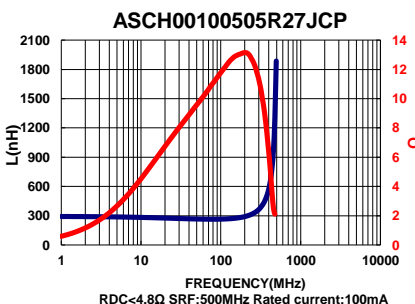
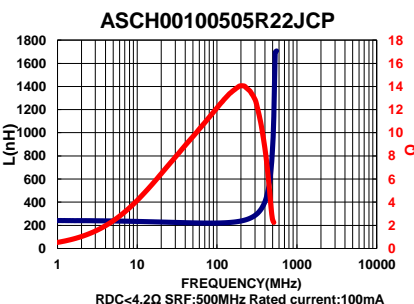
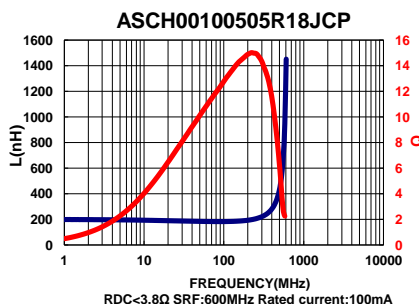
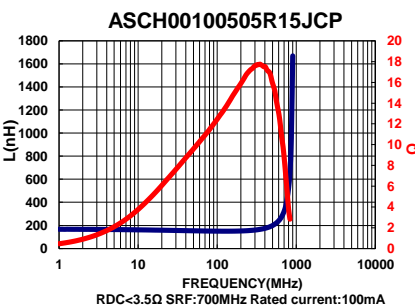
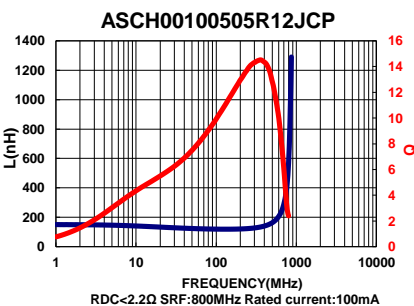
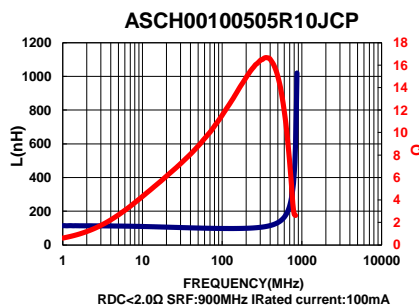
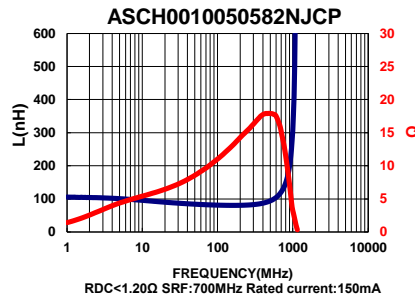
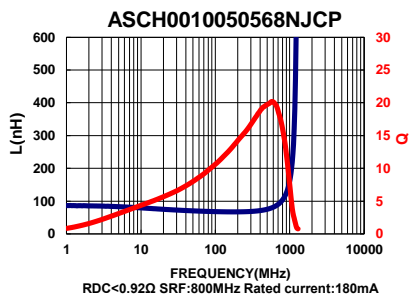
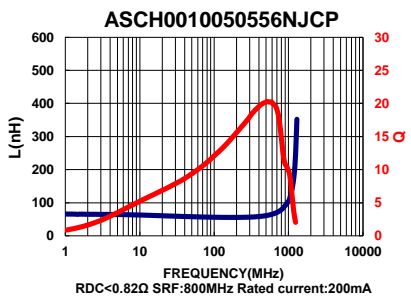
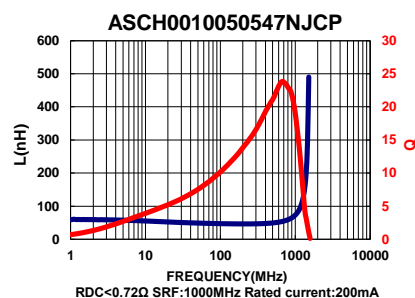
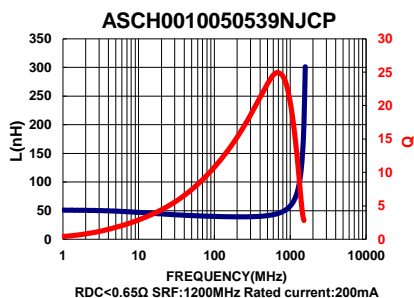
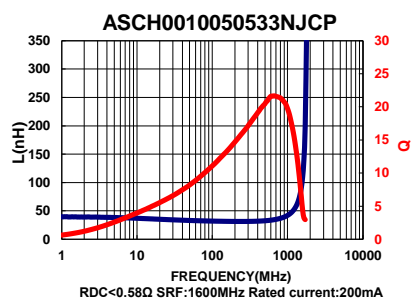
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Chip Inductor ASCH Series

Automotive
AEC-Q200

ASCH00100505_CP Type

Characteristics Graph

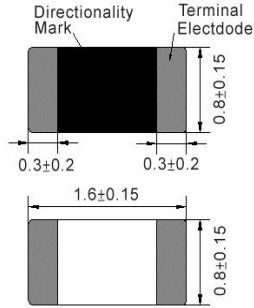


Chip Inductor ASCH Series

Automotive
AEC-Q200

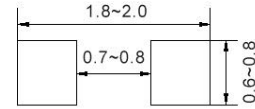
ASCH00160808 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance	L,Q	Q	SRF	RDC	IDC	Tolerance
	(nH)	Test Freq.	Min.	(MHz)Typ.	(Ω)Max.	(mA)Max.	(±%)
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°C ~ 125°C
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:

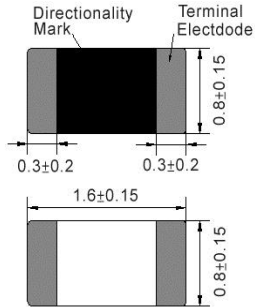
SRF: Agilent E4991A or HP19196C
 RDC: HP4338B or CHEN HWA 502

Chip Inductor ASCH Series

**Automotive
 AEC-Q200**

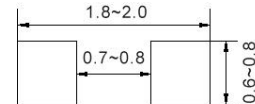
ASCH00160808 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance	L,Q	Q	SRF	RDC	IDC	Tolerance
	(nH)	Test Freq.	Min.	(MHz)Typ.	(Ω)Max.	(mA)Max.	(±%)
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%

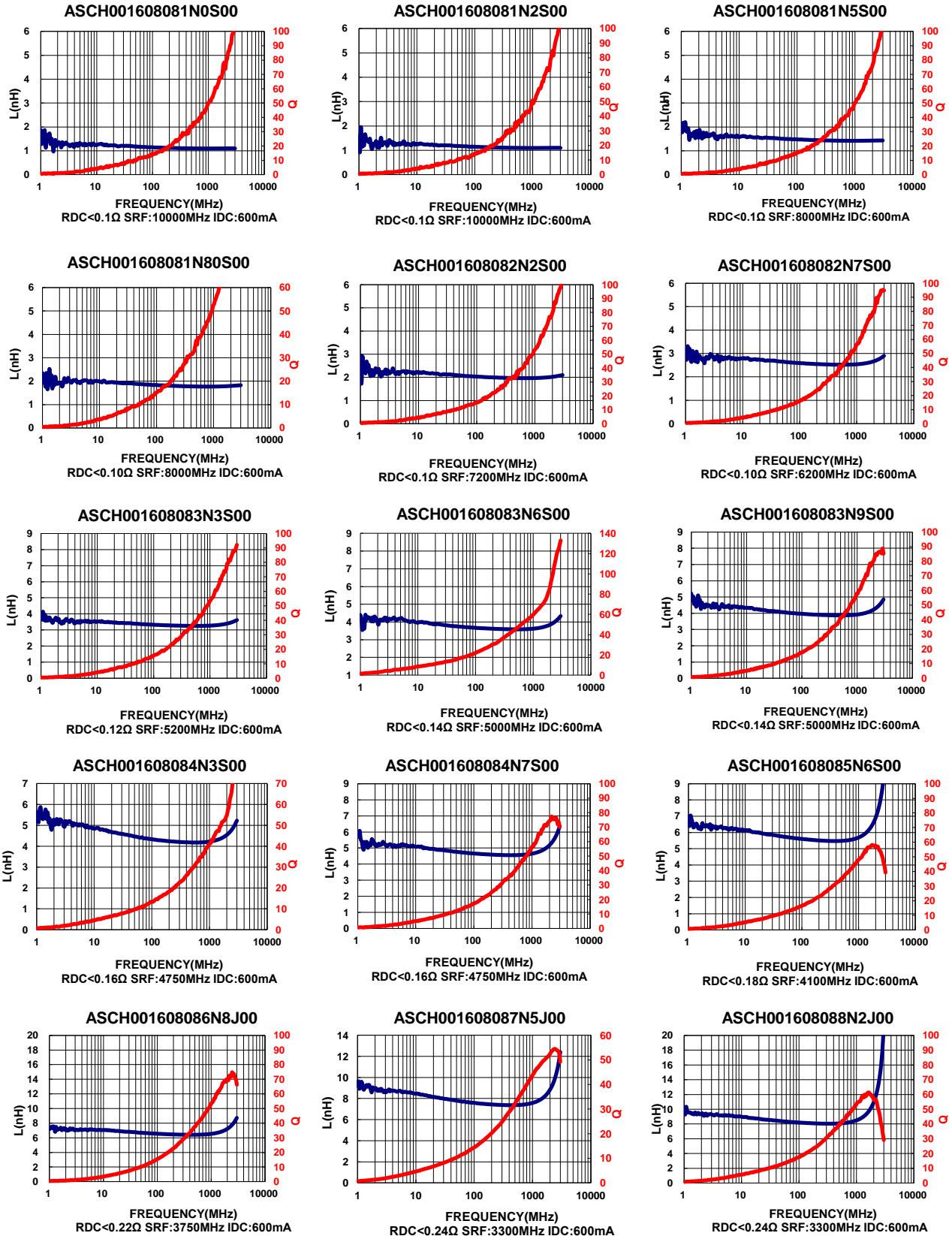
1. Operating temperature range - 55°C ~ 125°C
2. Applied the current to coils, the inductance shall be less than 10% initial value
3. Residual impedance of short chip : 0nH
4. Measure Equipment:
 L & Q: Agilent E4991A+Agilent 16197A
 SRF: Agilent E4991A or HP19196C
 RDC: HP4338B or CHEN HWA 502

Chip Inductor ASCH Series

Automotive AEC-Q200

ASCH00160808 Type

Characteristics Graph

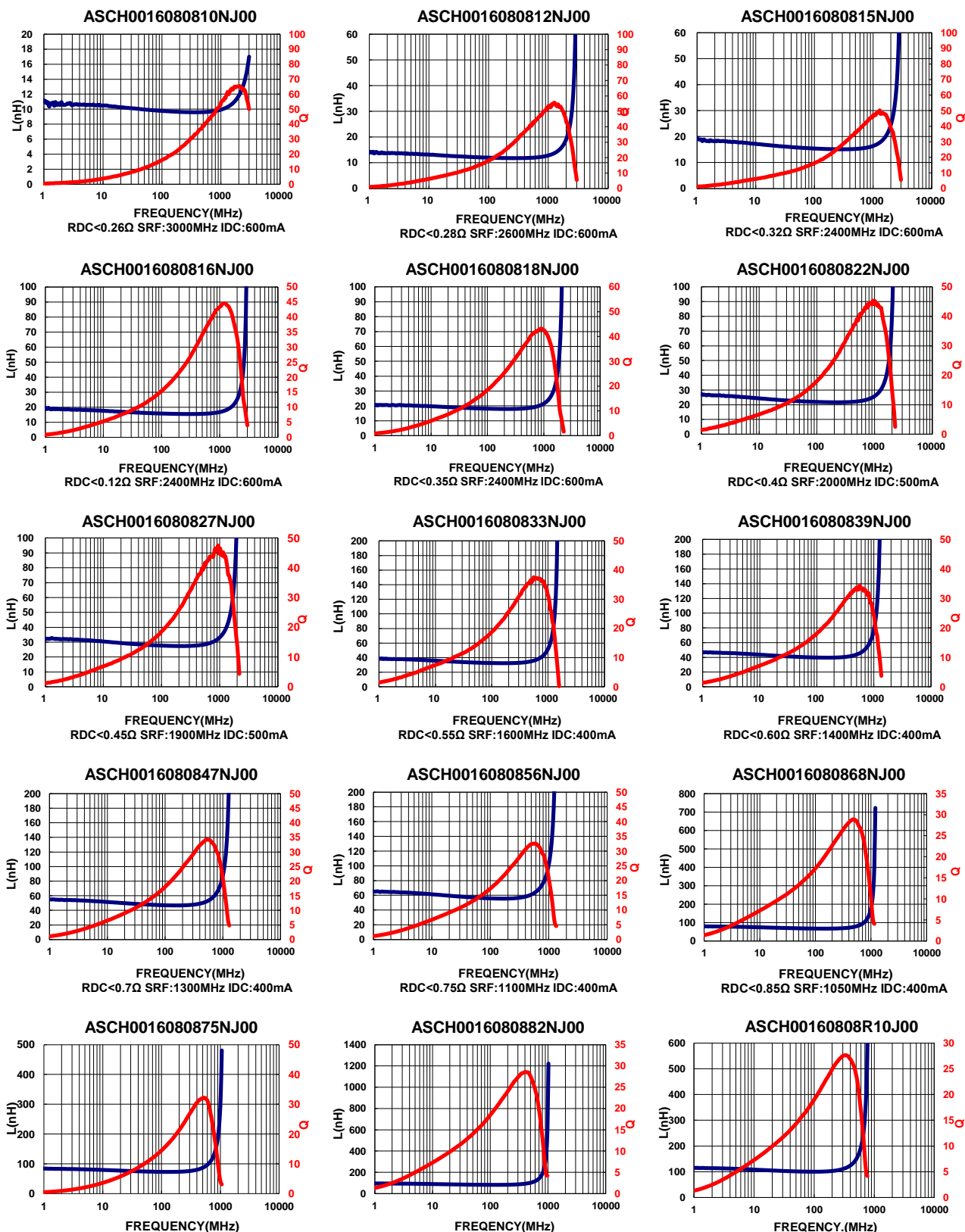


Chip Inductor ASCH Series

Automotive
AEC-Q200

ASCH00160808 Type

Characteristics Graph



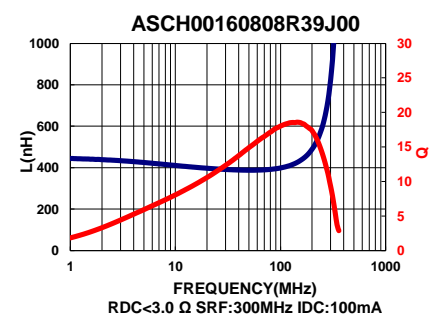
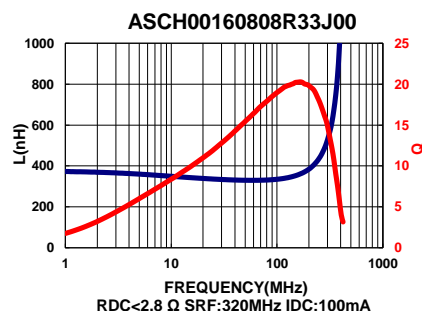
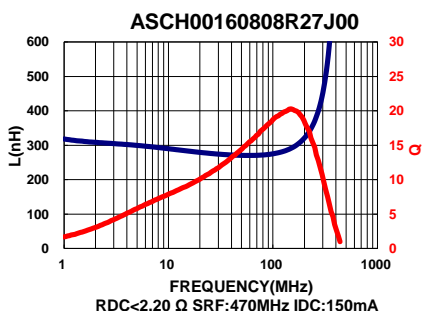
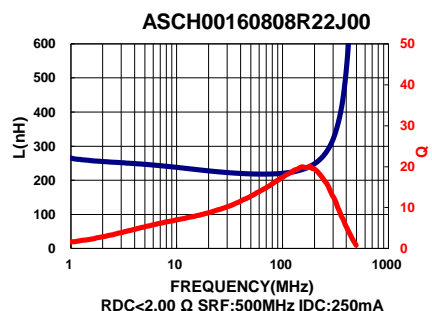
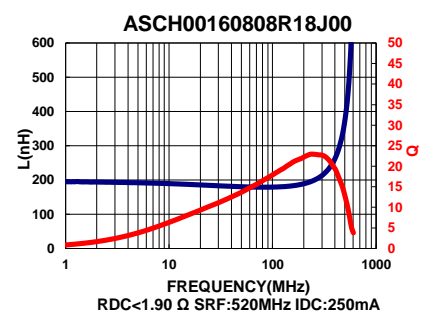
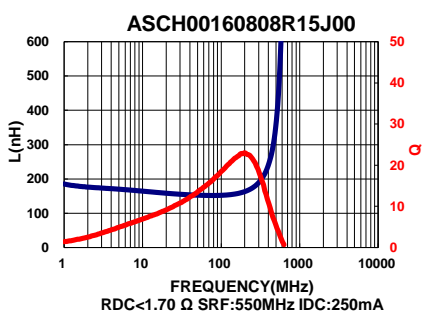
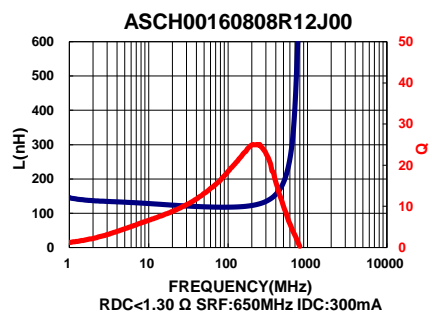
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Chip Inductor ASCH Series

Automotive
AEC-Q200

ASCH00160808 Type

Characteristics Graph

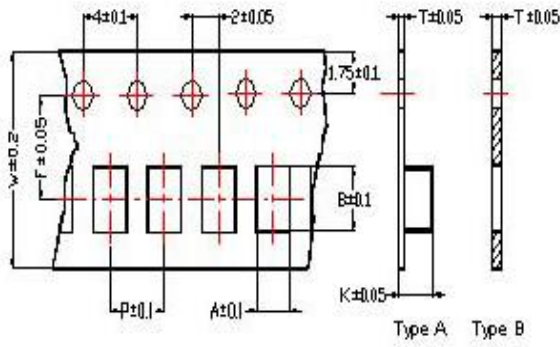


Chip Inductor ASCH Series

**Automotive
AEC-Q200**

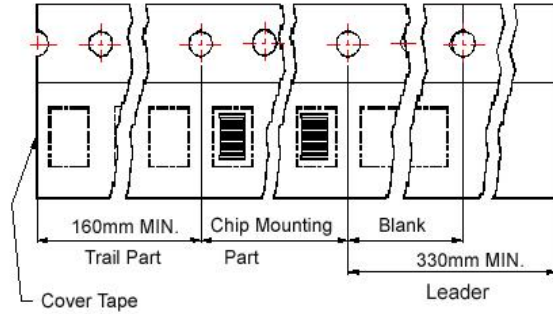
■ Packaging

Tape Dimensions

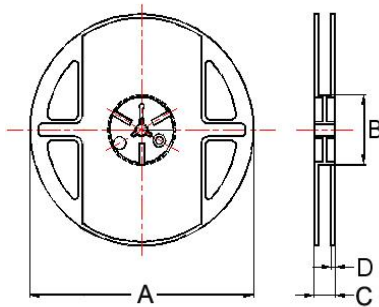


Tape Material

Carrier Tape: Polycarbonate (Tape A)
Carrier Tape: Paper (Tape B)
Cover Tape: Polystyrene



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity PCS / Reel
	A	B	T	W	P	F	Tape	A	B	C	D	
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

Chip Inductor AWCM Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



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

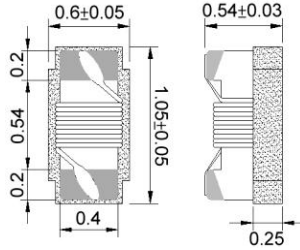
Part Numbering

A	WCM	00	161008	10N	J	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (nH)	Tolerance	Internal Code
			110605 1.05x0.6x0.54	2N2 2.2	B ±0.1nH	
			161008 1.6x1.02x0.82	10N 10	C ±0.2nH	
				R10 100	D ±0.5nH	
					G ±2%	
					H ±3%	
					J ±5%	

Chip Inductor AWCN Series **Automotive AEC-Q200**

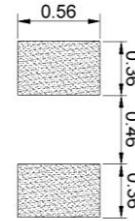
AWCM00110605 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test		Q Min.	SRF (MHz)Min.	RDC (Ω)Max.	I _{rms} (mA)Max.	Tolerance
		Freq. (MHz)						
AWCM001106051N5□00	1.5	100/250		10	18000	0.03	1000	±0.1nH,±0.2nH,±0.5nH
AWCM001106052N4□00	2.4	100/250		20	15000	0.05	850	±0.1nH,±0.2nH,±0.5nH
AWCM001106052N5□00	2.5	100/250		20	15000	0.05	850	±0.1nH,±0.2nH,±0.5nH
AWCM001106052N7□00	2.7	100/250		20	15000	0.05	850	±0.1nH,±0.2nH,±0.5nH
AWCM001106052N9□00	2.9	100/250		20	15000	0.07	750	±0.1nH,±0.2nH,±0.5nH
AWCM001106053N9□00	3.9	100/250		25	10000	0.07	750	3,5
AWCM001106054N1□00	4.1	100/250		25	10000	0.07	750	3,5
AWCM001106054N3□00	4.3	100/250		25	10000	0.07	750	3,5
AWCM001106054N7□00	4.7	100/250		25	8000	0.07	750	3,5
AWCM001106055N1□00	5.1	100/250		25typ.	8000	0.12	600	3,5
AWCM001106055N8□00	5.8	100/250		25	8000	0.12	700	3,5
AWCM001106056N2□00	6.2	100/250		25	8000	0.09	700	3,5
AWCM001106056N8□00	6.8	100/250		25	6000	0.09	700	3,5
AWCM001106057N3□00	7.3	100/250		25	6000	0.13	570	3,5
AWCM001106057N5□00	7.5	100/250		25	6000	0.13	570	3,5
AWCM001106058N2□00	8.2	100/250		25	5500	0.14	540	3,5
AWCM001106058N7□00	8.7	100/250		25	5500	0.14	540	3,5
AWCM001106059N1□00	9.1	100/250		25	5500	0.14	540	3,5
AWCM001106059N5□00	10	100/250		25	5500	0.14	540	3,5
AWCM0011060510N□00	10	100/250		25	5500	0.17	500	2,3,5
AWCM0011060511N□00	11	100/250		30	5500	0.14	500	2,3,5
AWCM0011060512N□00	12	100/250		30	5500	0.14	500	2,3,5
AWCM0011060513N□00	13	100/250		25	5000	0.21	430	2,3,5
AWCM0011060515N□00	15	100/250		30	5000	0.16	460	2,3,5
AWCM0011060516N□00	16	100/250		25	4500	0.24	370	2,3,5
AWCM0011060518N□00	18	100/250		25	4500	0.27	370	2,3,5
AWCM0011060519N□00	19	100/250		25	4500	0.27	370	2,3,5
AWCM0011060520N□00	20	100/250		25	4000	0.27	370	2,3,5
AWCM0011060522N□00	22	100/250		25	4000	0.3	310	2,3,5
AWCM0011060523N□00	23	100/250		25	3800	0.3	310	2,3,5
AWCM0011060524N□00	24	100/250		25	3500	0.52	280	2,3,5
AWCM0011060527N□00	27	100/250		25	3500	0.52	280	2,3,5

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°C ~ 125°C(Including self - temperature rise)

2. I_{rms} for a 15°C temperature rise from 25°C ambient.

3. Measure Equipment:

L & Q: Agilent E4991A+Agilent HP16197A

SRF: Agilent HP8753D/Agilent HP8722ES

RDC:Chroma 16502

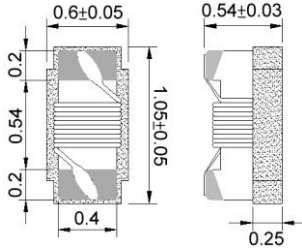
I_{rms}: HP4284A+HP42841A/HP4285A+HP42841A

Chip Inductor AWCM Series

**Automotive
AEC-Q200**

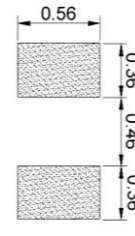
AWCM00110605 Type

Dimensions



unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test		Q Min.	SRF (MHz)Min.	RDC (Ω)Max.	I _{rms} (mA)Max.	Tolerance
		Freq. (MHz)						
AWCM0011060530N□00	30	100/250		25	3300	0.58	270	2,3,5
AWCM0011060533N□00	33	100/250		25	3200	0.63	260	2,3,5
AWCM0011060536N□00	36	100/250		25	3100	0.63	260	2,3,5
AWCM0011060539N□00	39	100/250		25	3000	0.7	250	2,3,5
AWCM0011060540N□00	40	100/250		25	3000	0.7	250	2,3,5
AWCM0011060547N□00	47	100/200		25	2900	1.08	210	2,3,5
AWCM0011060551N□00	51	100/200		25	2850	1.08	210	2,3,5
AWCM0011060556N□00	56	100/200		25	2800	1.17	200	2,3,5
AWCM0011060562N□00	62	100/200		20	2600	1.82	145	2,3,5
AWCM0011060568N□00	68	100/200		20	2500	1.96	140	2,3,5
AWCM0011060572N□00	72	100/150		20	2500	2.1	135	2,5
AWCM0011060575N□00	75	100/150		20	2400	2.1	135	2,5
AWCM0011060582N□00	82	100/150		20	2300	2.24	130	2,5
AWCM0011060591N□00	91	100/150		20	2100	2.38	125	2,5
AWCM00110605R10□00	100	100/150		20	1500	2.52	120	2,5
AWCM00110605R12□00	120	100/150		20	1000	2.66	110	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°C ~ 125°C(Including self - temperature rise)

2. I_{rms} for a 15°C temperature rise from 25°C ambient.

3. Measure Equipment:

L & Q: Agilent E4991A+Agilent HP16197A

SRF: Agilent HP8753D/Agilent HP8722ES

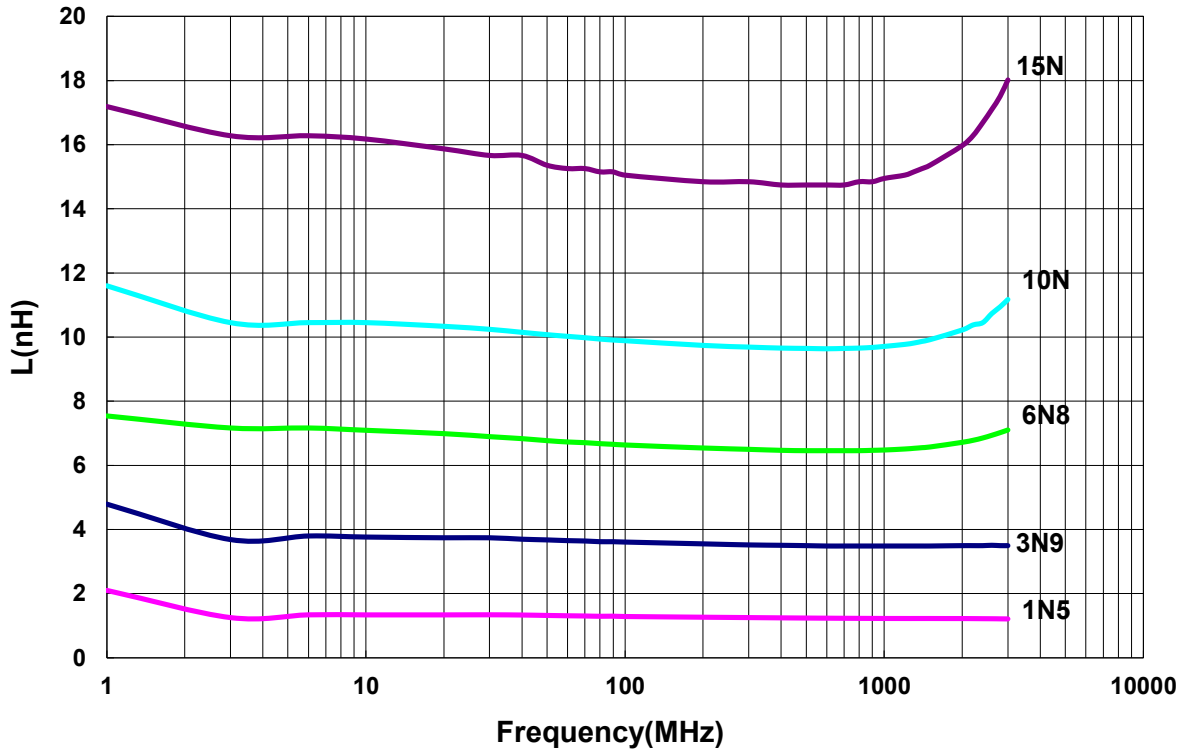
RDC: Chroma 16502

I_{rms}: HP4284A+HP42841A/HP4285A+HP42841A

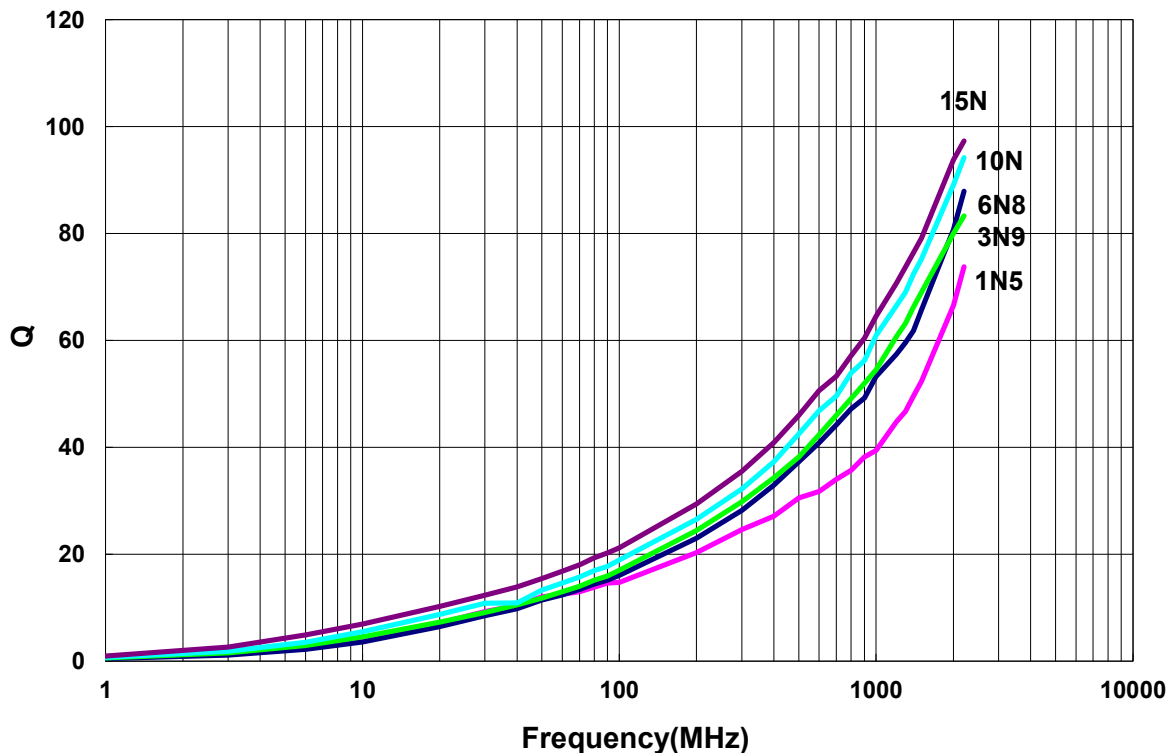
AWCM00110605 Type

■ Characteristics Graph

Inductance vs. Frequency Characteristics



Q vs. Frequency Characteristics

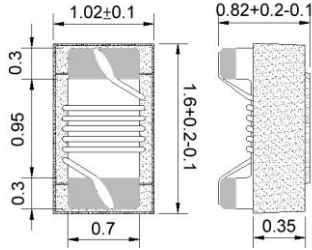


Chip Inductor AWCN Series

Automotive
AEC-Q200

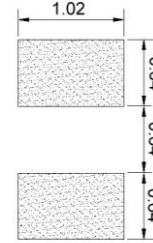
AWCM00161008 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test		Q Min.	SRF (MHz)Min.	RDC (Ω)Max.	I _{rms} (mA)Max.	Tolerance
		Freq. (MHz)						
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%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- I_{rms} for a 15°C temperature rise from 25°C ambient.
- Measure Equipment:

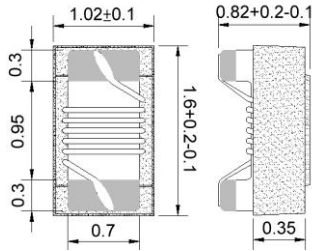
L & Q: Agilent E4991A+Agilent HP16197A
 SRF: Agilent HP8753D/Agilent HP8722ES
 RDC:Chroma 16502
 I_{rms}: HP4284A+HP42841A/HP4285A+HP42841A

Chip Inductor AWCM Series

**Automotive
AEC-Q200**

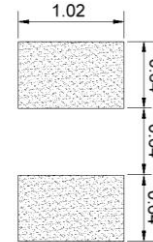
AWCM00161008 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test		Q Min.	SRF (MHz)Min.	RDC (Ω)Max.	I _{rms} (mA)Max.	Tolerance
		Freq. (MHz)						
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°C ~ 125°C(Including self - temperature rise)

2. I_{rms} for a 15°C temperature rise from 25°C ambient.

3. Measure Equipment:

L & Q: Agilent E4991A+Agilent HP16197A

SRF: Agilent HP8753D/Agilent HP8722ES

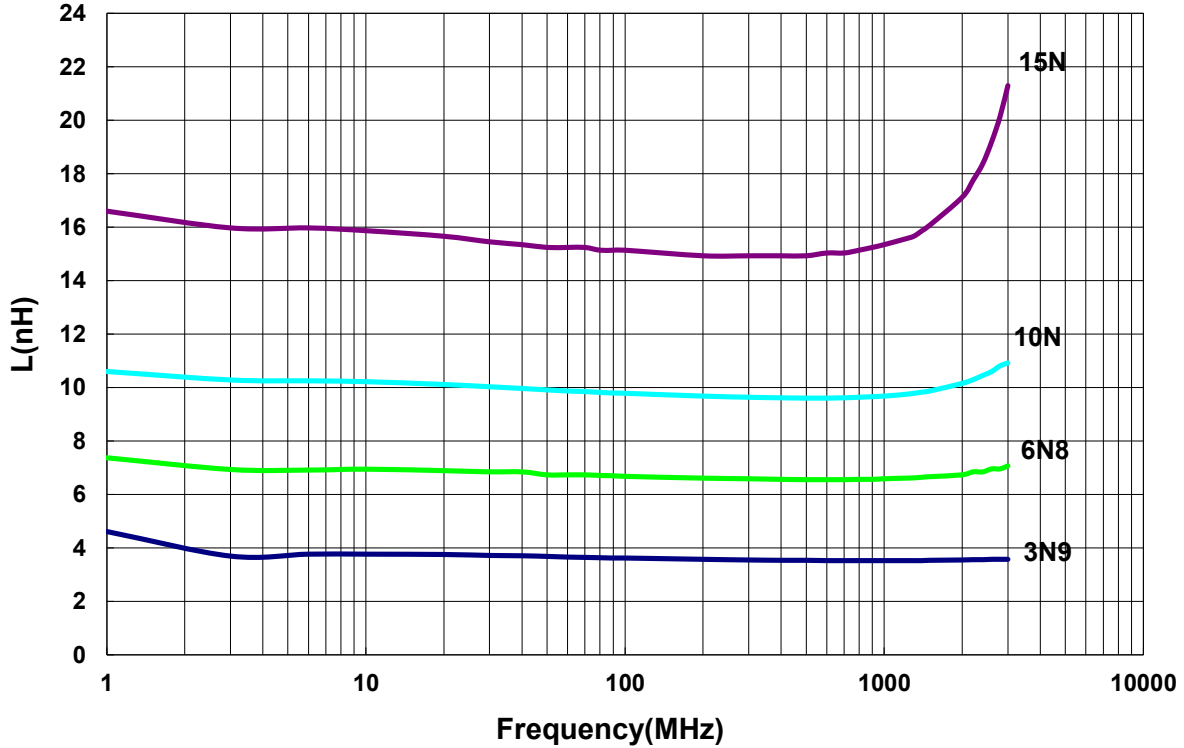
RDC:Chroma 16502

I_{rms}: HP4284A+HP42841A/HP4285A+HP42841A

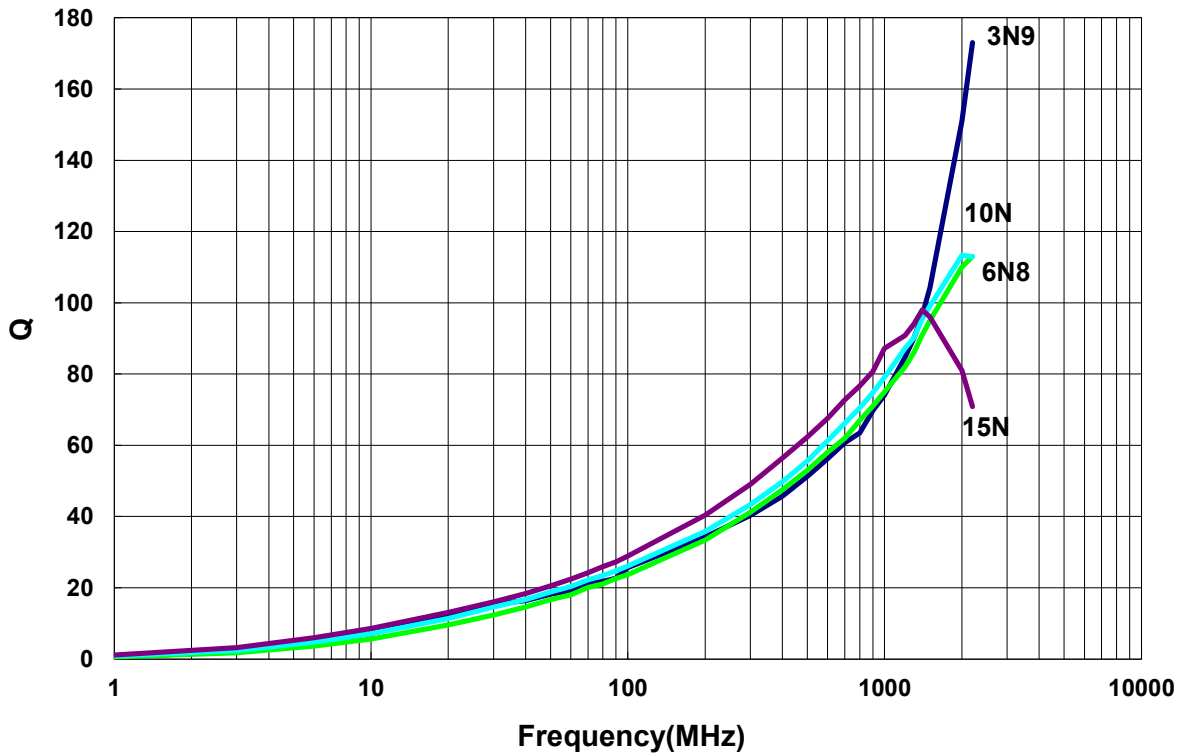
AWCM00161008 Type

■ Characteristics Graph

Inductance vs. Frequency Characteristics



Q vs. Frequency Characteristics



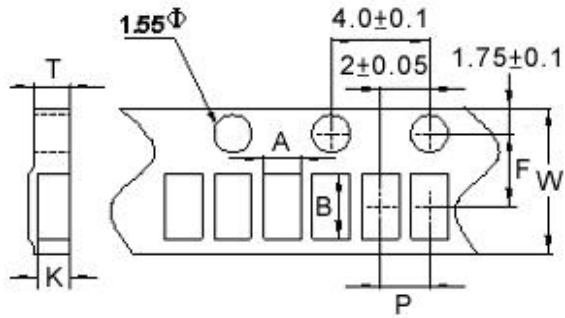
Chip Inductor AWCM Series

**Automotive
AEC-Q200**

■ Packaging

Tape Dimensions

Figure 1



Tape Material

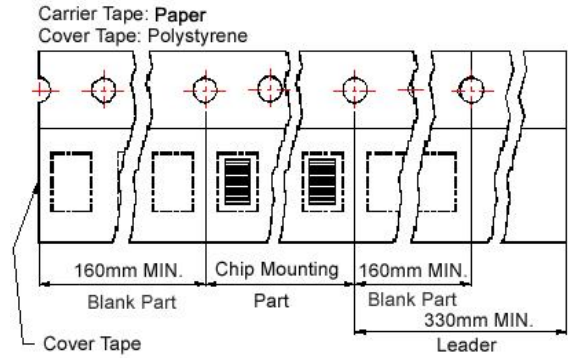
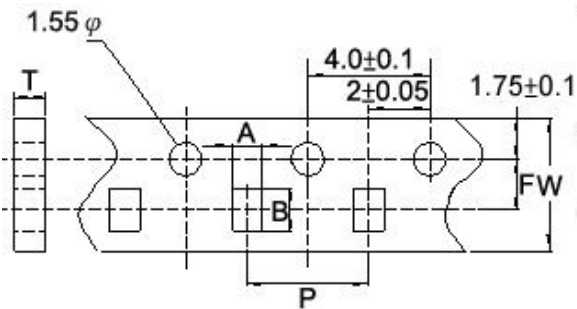
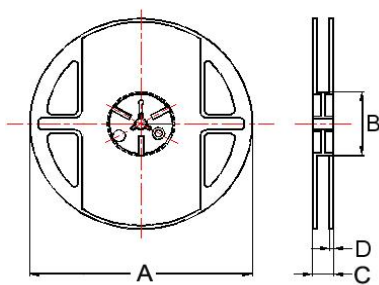


Figure 2



Reel Dimensions



Dimensions in mm

TYPE	Fig.	Tape Dimensions							Reel Dimensions				Quantity PCS / Reel
		A	B	T	W	P	F	K	A	B	C	D	
AWCM00110605	1	0.67	1.2	0.75	8	2	3.5	0.59	178	60	12	1.5	4000
AWCM00161008	2	1.20	1.8	1.05	8	4	3.5	-	178	60	12	1.5	4000

Chip Inductor AWCS Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



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

Part Numbering

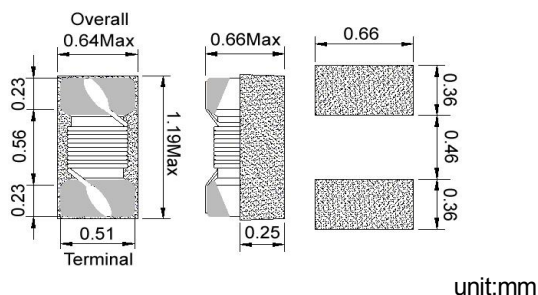
A	WCS	00	161008	1R0	K	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (nH)	Tolerance	Internal Code
			120707 1.19x0.7x0.66	3N0 3	G ±2%	
			161008 1.6x1.02x0.82	10N 10	H ±3%	
			231715 2.35x1.73x1.52	R10 100	J ±5%	
			292821 2.92x2.79x2.1	1R0 1000	K ±10%	
			372822 3.7x2.8x2.2			

Chip Inductor AWCS Series

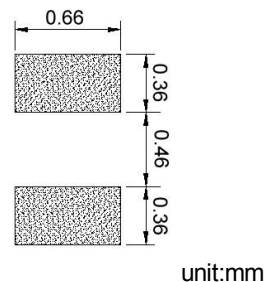
Automotive
AEC-Q200

AWCS00120707 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test		Q Min.	SRF (MHz)Min.	RDC (Ω)Max.	I _{rms} (mA)Max.	Tolerance
		Freq. (MHz)						
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%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- I_{rms} for a 15°C temperature rise from 25°C ambient.
- Measure Equipment:

L & Q: Agilent E4991A+Agilent HP16197A

SRF: Agilent HP8753D/Agilent E4991A

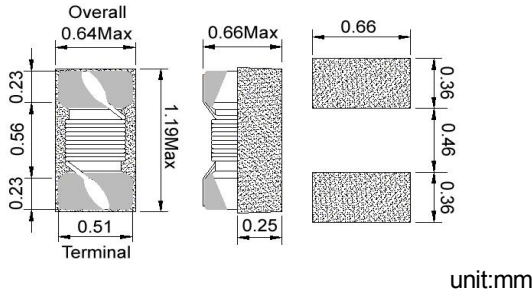
RDC: HP4287A

Chip Inductor AWCS Series

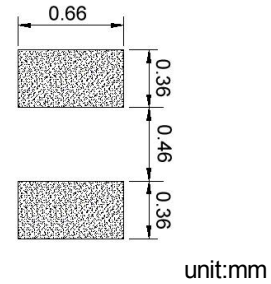
Automotive
AEC-Q200

AWCS00120707 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test		Q Min.	SRF (MHz)Min.	RDC (Ω)Max.	I _{rms} (mA)Max.	Tolerance
		Freq. (MHz)						
AWCS0012070718N□00	18	250/250	25	25	3100	0.23	420	10,5,3,2
AWCS0012070719N□00	19	250/250	24	24	3040	0.2	480	10,5,3,2
AWCS0012070720N□00	20	250/250	25	25	3000	0.25	420	10,5,3,2
AWCS0012070722N□00	22	250/250	25	25	2800	0.3	400	10,5,3,2
AWCS0012070723N□00	23	250/250	22	22	2720	0.3	400	10,5,3,2
AWCS0012070724N□00	24	250/250	25	25	2700	0.3	400	10,5,3,2
AWCS0012070727N□00	27	250/250	24	24	2480	0.3	400	10,5,3,2
AWCS0012070730N□00	30	250/250	25	25	2350	0.35	400	10,5,3,2
AWCS0012070733N□00	33	250/250	24	24	2350	0.4	400	10,5,3,2
AWCS0012070736N□00	36	250/250	24	24	2320	0.44	320	10,5,3,2
AWCS0012070739N□00	39	250/250	25	25	2100	0.55	200	10,5,3,2
AWCS0012070740N□00	40	250/250	24	24	2240	0.65	320	10,5,3,2
AWCS0012070743N□00	43	250/250	25	25	2030	0.81	100	10,5,3,2
AWCS0012070747N□00	47	250/250	20	20	2100	0.83	150	10,5,3,2
AWCS0012070751N□00	51	250/250	25	25	1750	0.82	100	10,5,3,2
AWCS0012070756N□00	56	250/250	22	22	1760	0.97	100	10,5,3,2
AWCS0012070768N□00	68	250/250	22	22	1620	1.12	100	10,5,3,2
AWCS0012070772N□00	72	250/250	20	20	1260	2	30	10,5,3,2
AWCS0012070782N□00	82	250/250	20	20	1260	1.55	50	10,5,3,2
AWCS00120707R10□00	100	250/250	20	20	1160	2	30	10,5,3,2
AWCS00120707R18□00	180	100/100	8	8	700	2.7	50	10,5,3,2
AWCS00120707R22□00	220	100/100	8	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°C ~ 125°C(Including self - temperature rise)

2. I_{rms} for a 15°C temperature rise from 25°C ambient.

3. Measure Equipment:

L & Q: Agilent E4991A+Agilent HP16197A

SRF: Agilent HP8753D/Agilent E4991A

RDC: HP4287A

I_{rms}: HP4284A+HP42841A/HP4285A+HP42841A

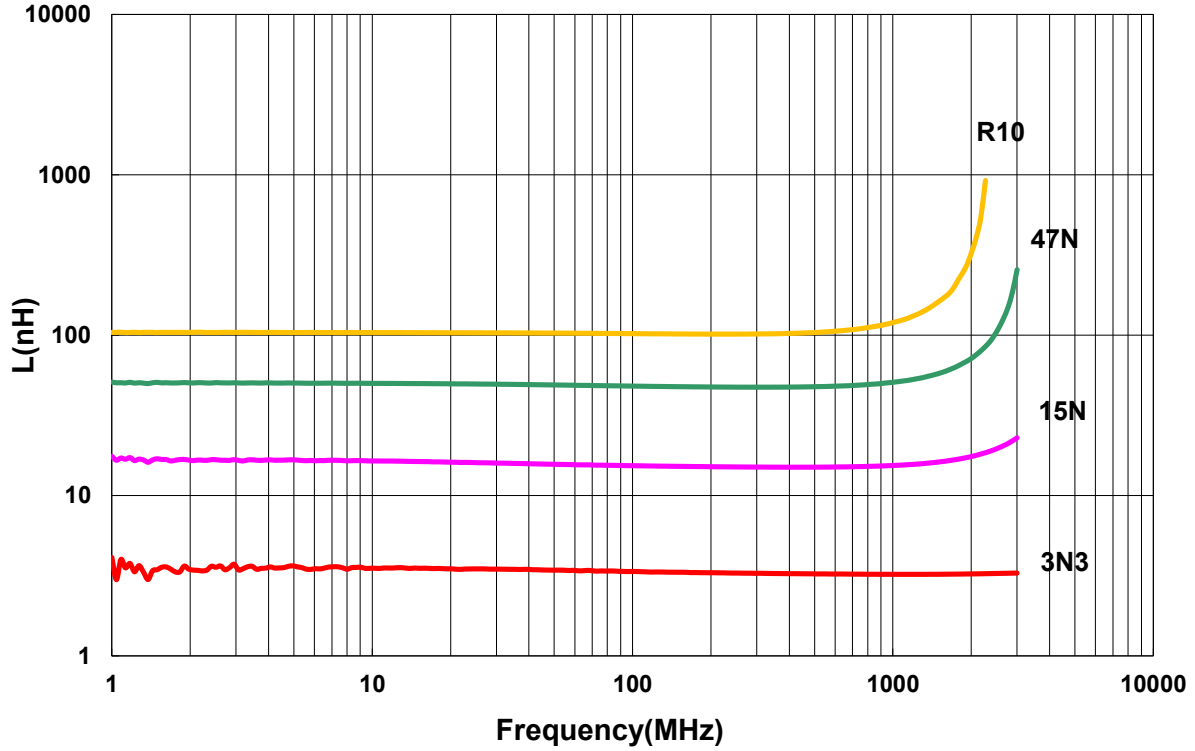
Chip Inductor AWCS Series

Automotive
AEC-Q200

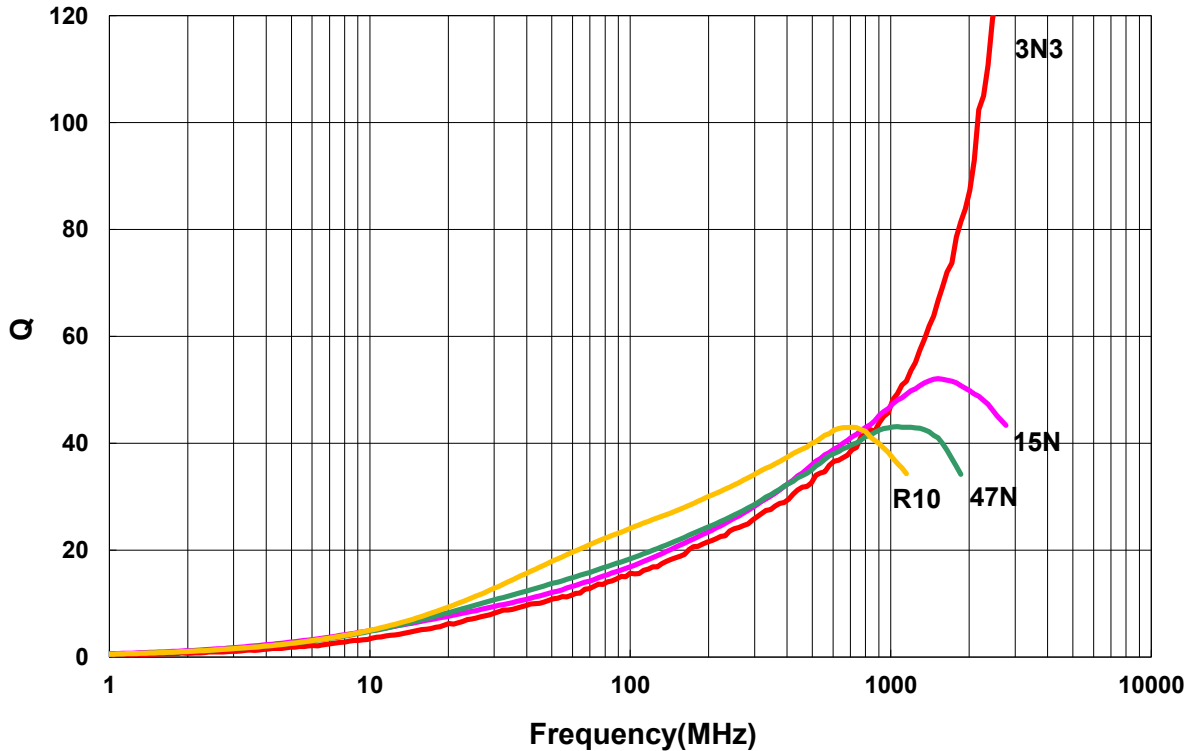
AWCS00120707 Type

■ Characteristics Graph

Inductance vs. Frequency Charateristics



Q vs. Frequency Charateristics

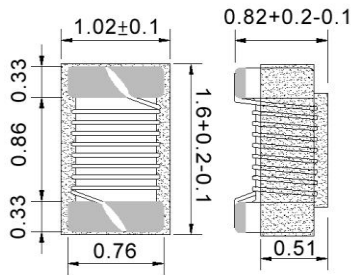


Chip Inductor AWCS Series

Automotive
AEC-Q200

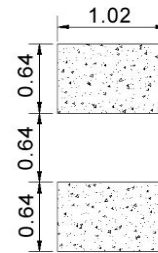
AWCS00161008 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test		Q Min.	SRF (MHz)Min.	RDC (Ω)Max.	I _{rms} (mA)Max.	Tolerance
		Freq. (MHz)						
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°C ~ 125°C(Including self - temperature rise)
2. I_{rms} for a 15°C temperature rise from 25°C ambient.
3. Measure Equipment:

L & Q: Agilent E4991A+Agilent HP16197A

SRF: Agilent HP8753D/Agilent E4991A

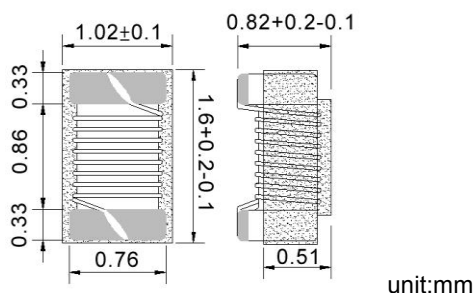
RDC: Chroma 16502

Chip Inductor AWCS Series

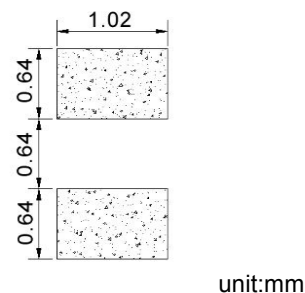
Automotive
AEC-Q200

AWCS00161008 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test Freq. (MHz)	Q Min.	SRF (MHz)Min.	RDC (Ω)Max.	I _{rms} (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°C ~ 125°C(Including self - temperature rise)

2. I_{rms} for a 15°C temperature rise from 25°C ambient.

3. Measure Equipment:

L & Q: Agilent E4991A+Agilent HP16197A

SRF: Agilent HP8753D/Agilent E4991A

RDC:Chroma 16502

I_{rms}: HP4284A+HP42841A/HP4285A+HP42841A

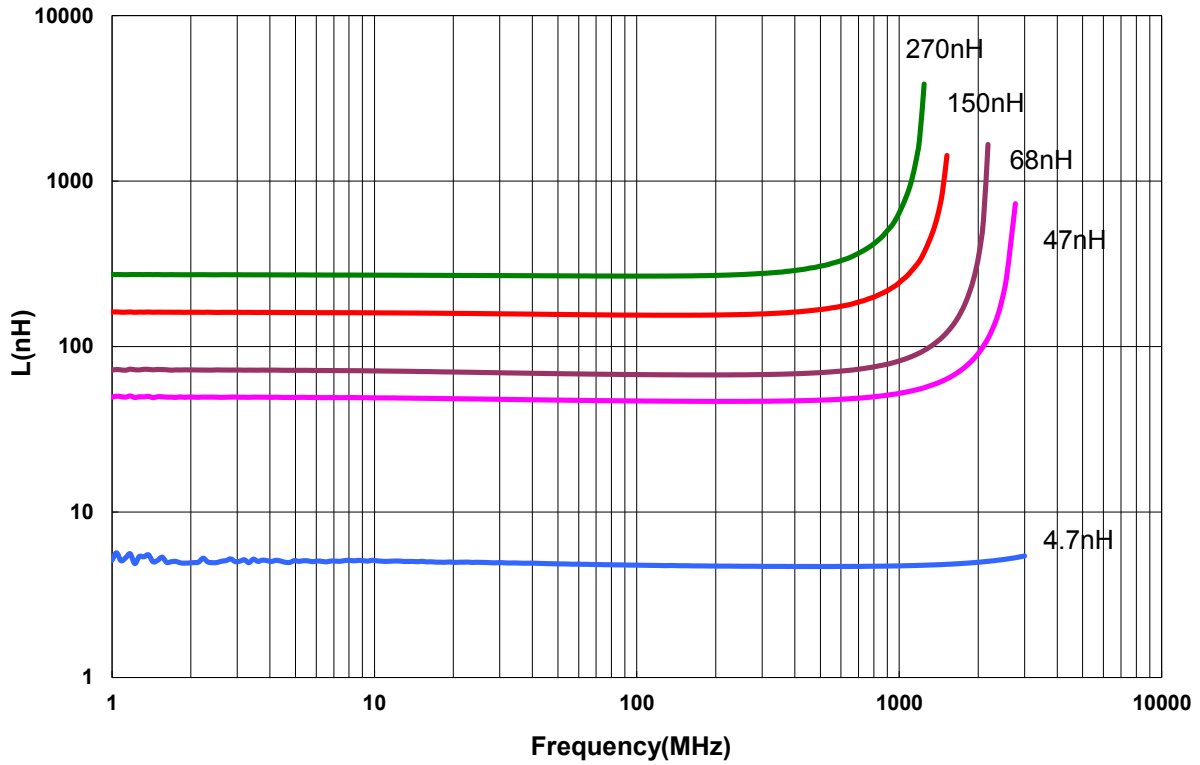
Chip Inductor AWCS Series

**Automotive
AEC-Q200**

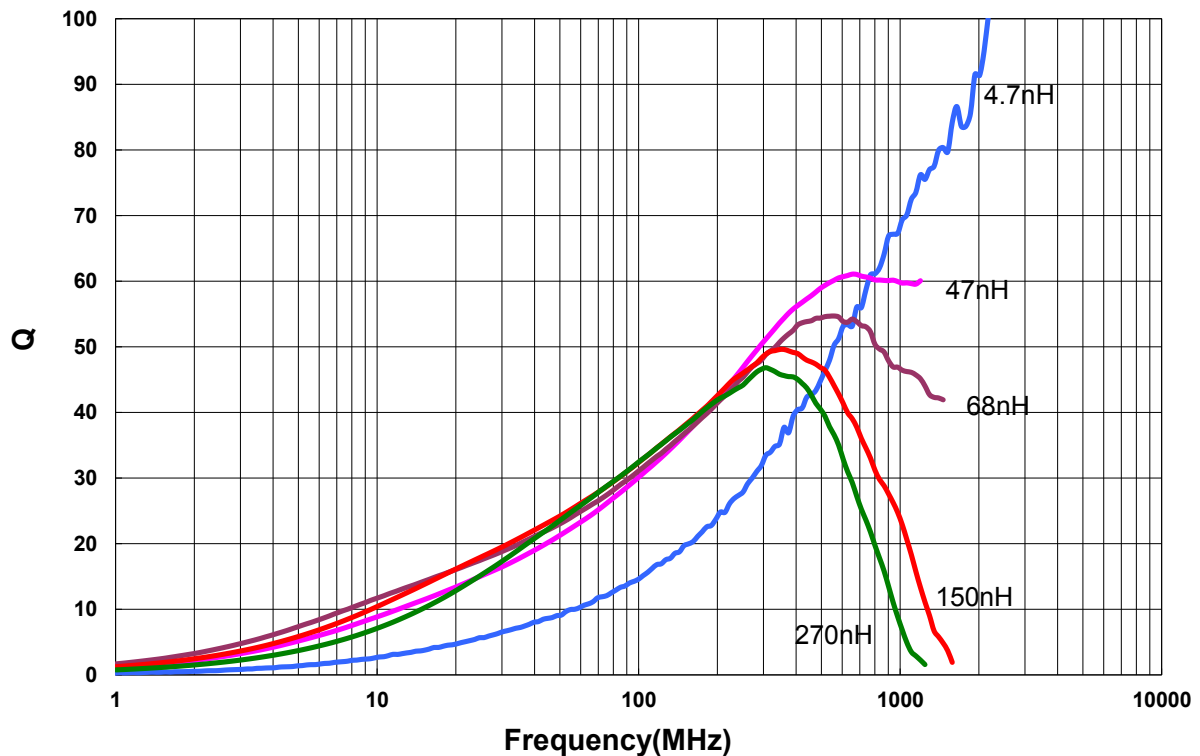
AWCS00161008 Type

Characteristics Graph

Inductance vs. Frequency Charateristics



Q vs. Frequency Charateristics

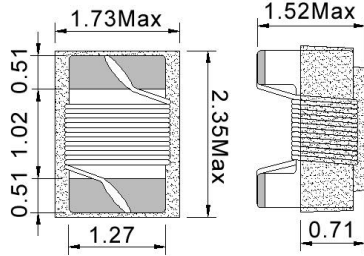


Chip Inductor AWCS Series

Automotive
AEC-Q200

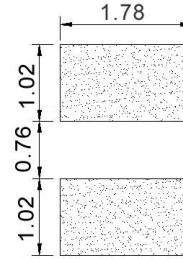
AWCS00231715 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test		SRF (MHz)Min.	RDC (Ω)Max.	I _{rms} (mA)Max.	Tolerance
		Freq. (MHz)	Q Min.				
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%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- I_{rms} for a 15°C temperature rise from 25°C ambient.
- Measure Equipment:

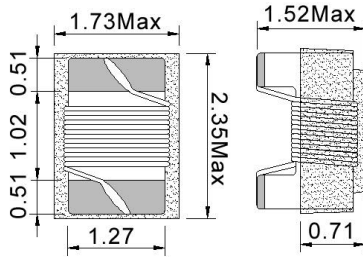
L & Q: Agilent E4991A+Agilent HP16197A
 SRF: Agilent HP8753D/Agilent E4991A
 RDC: Chroma 16502
 I_{rms}: HP4284A+HP42841A/HP4285A+HP42841A

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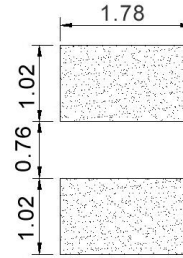
AWCS00231715 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test		SRF (MHz)Min.	RDC (Ω)Max.	I _{rms} (mA)Max.	Tolerance
		Freq. (MHz)	Q Min.				
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
AWCS00231715R30□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°C ~ 125°C(Including self - temperature rise)
2. I_{rms} for a 15°C temperature rise from 25°C ambient.
3. Measure Equipment:

L & Q: Agilent E4991A+Agilent HP16197A
 SRF: Agilent HP8753D/Agilent E4991A
 RDC:Chroma 16502
 I_{rms}: HP4284A+HP42841A/HP4285A+HP42841A

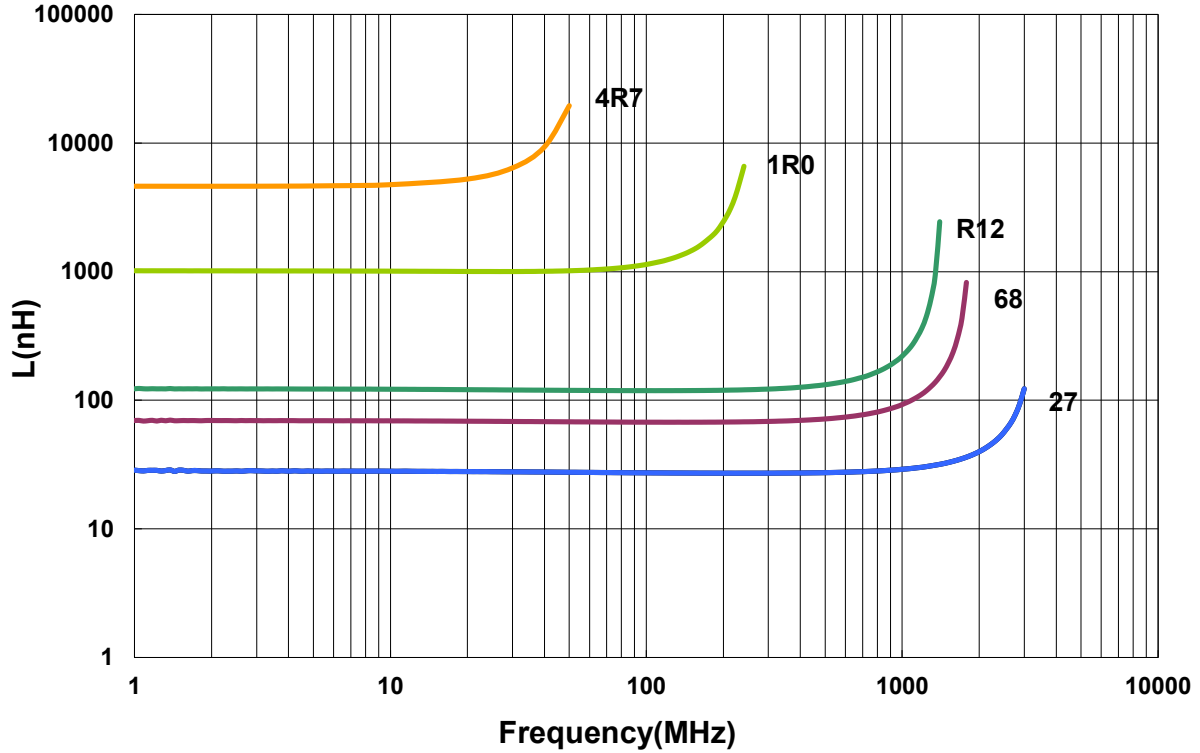
Chip Inductor AWCS Series

Automotive
AEC-Q200

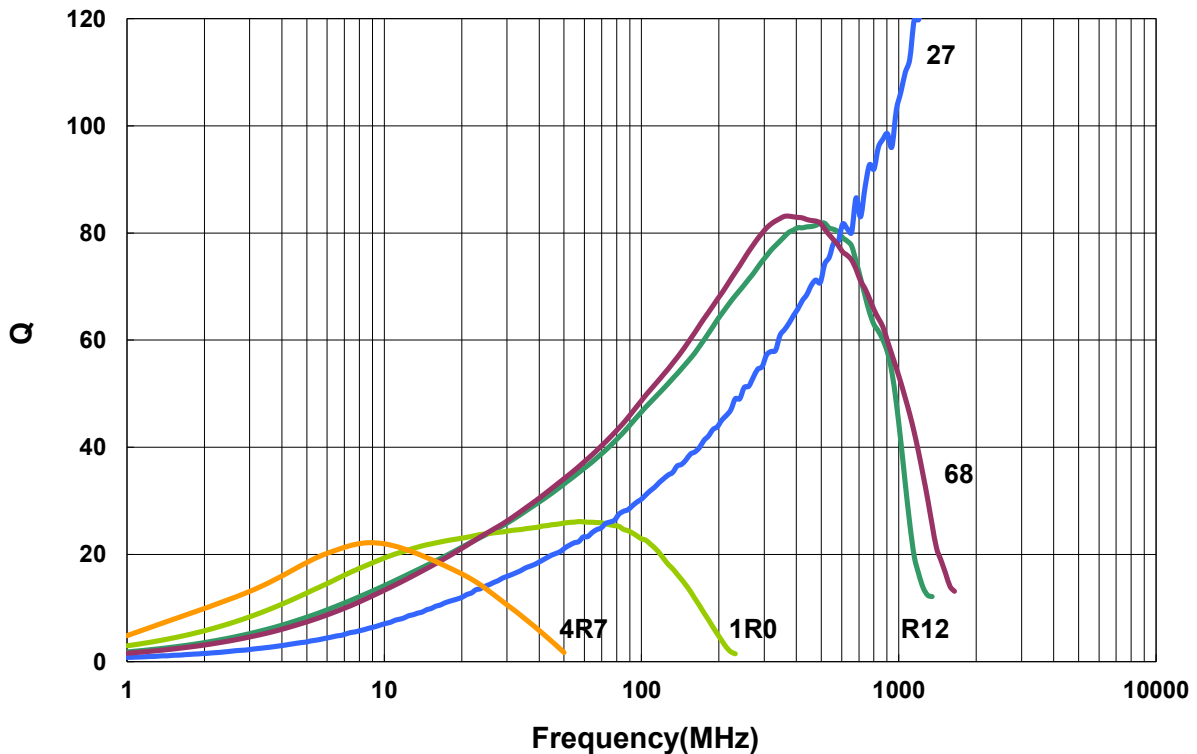
AWCS00231715 Type

■ Characteristics Graph

Inductance vs. Frequency Characteristics



Q vs. Frequency Characteristics

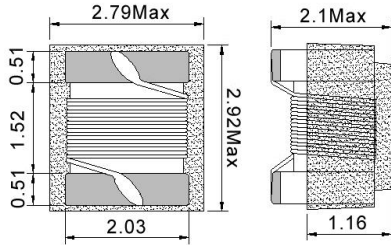


Chip Inductor AWCS Series

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AEC-Q200

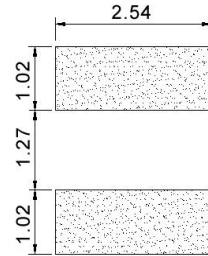
AWCS00292821 Type

Dimensions



unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test		SRF (MHz)Min.	RDC (Ω)Max.	I _{rms} (mA)Max.	Tolerance
		Freq. (MHz)	Q Min.				
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%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- I_{rms} for a 15°C temperature rise from 25°C ambient.
- Measure Equipment:

L & Q: Agilent E4991A+Agilent HP16197A
 SRF: Agilent HP8753D/Agilent E4991A
 RDC: Chroma 16502
 I_{rms}: HP4284A+HP42841A/HP4285A+HP42841A

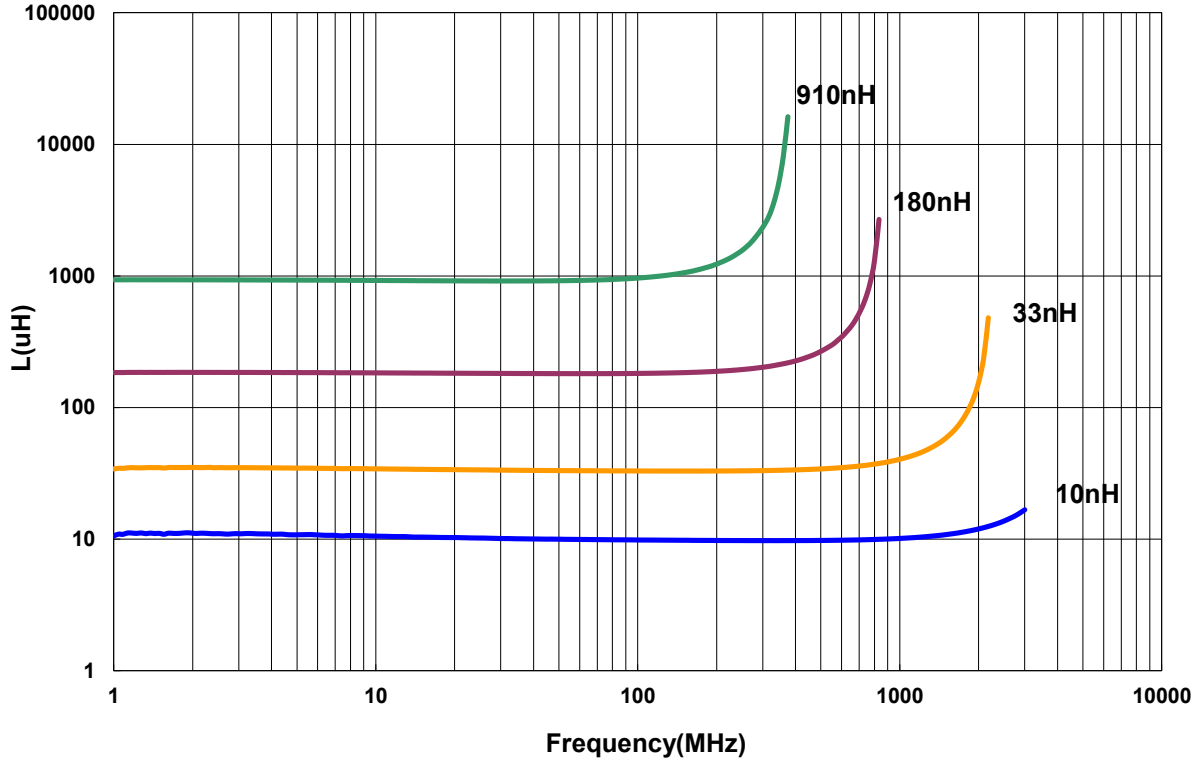
Chip Inductor AWCS Series

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AEC-Q200**

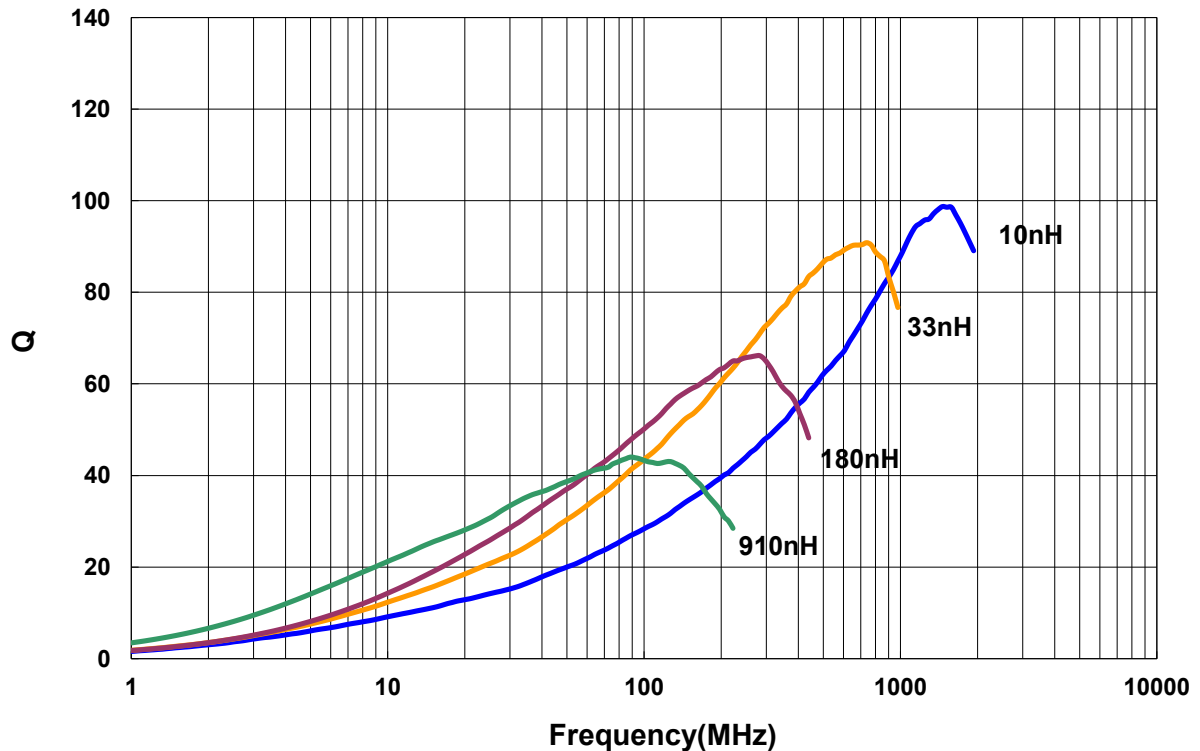
AWCS00292821 Type

Characteristics Graph

Inductance vs. Frequency Charateristics



Q vs. Frequency Charateristics

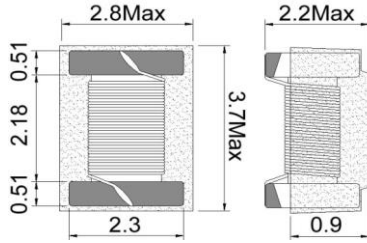


Chip Inductor AWCS Series

Automotive
AEC-Q200

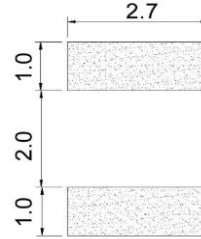
AWCS00372822 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test		SRF (MHz)Min.	RDC (Ω)Max.	I _{rms} (mA)Max.	Tolerance
		Freq. (MHz)	Q Min.				
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%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- I_{rms} for a 15°C temperature rise from 25°C ambient.
- Measure Equipment:

L & Q: Agilent E4991A/HP4286A/HP4287A
 SRF: Agilent HP8753D/Agilent E4991A
 RDC: Chroma 16502
 I_{rms}: HP4284A+HP42841A/HP4285A+HP42841A

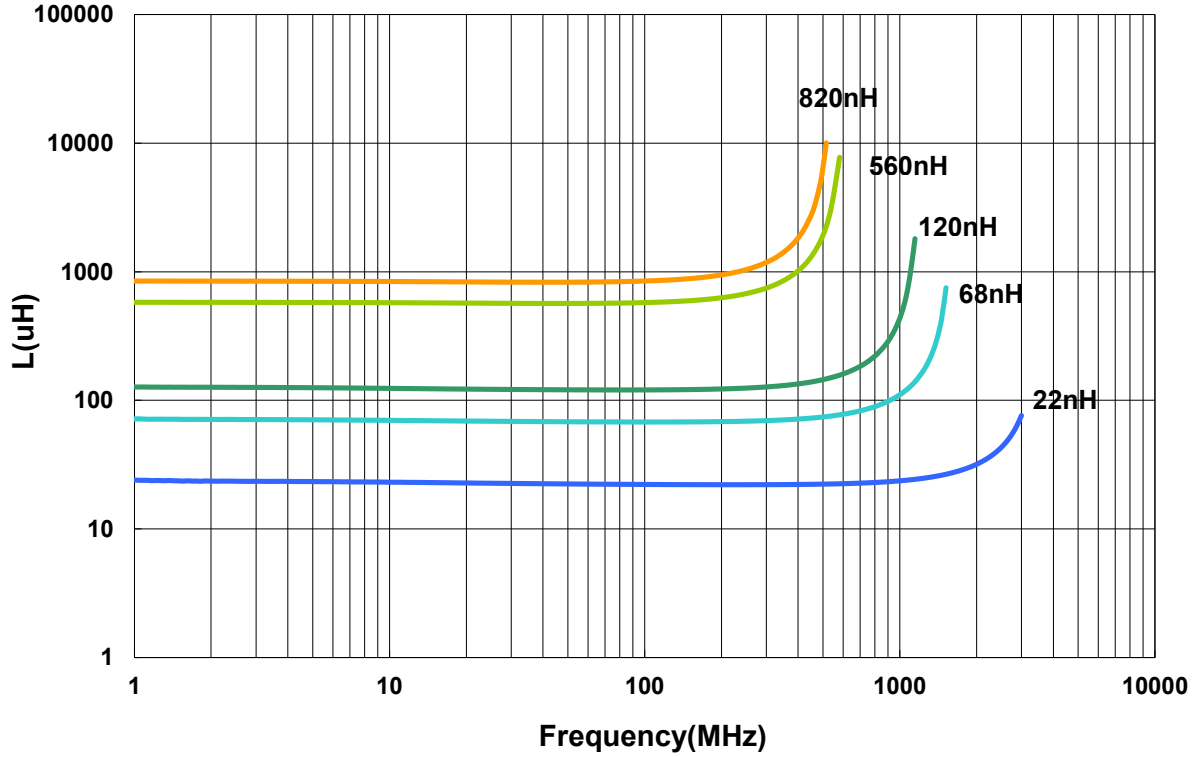
Chip Inductor AWCS Series

**Automotive
AEC-Q200**

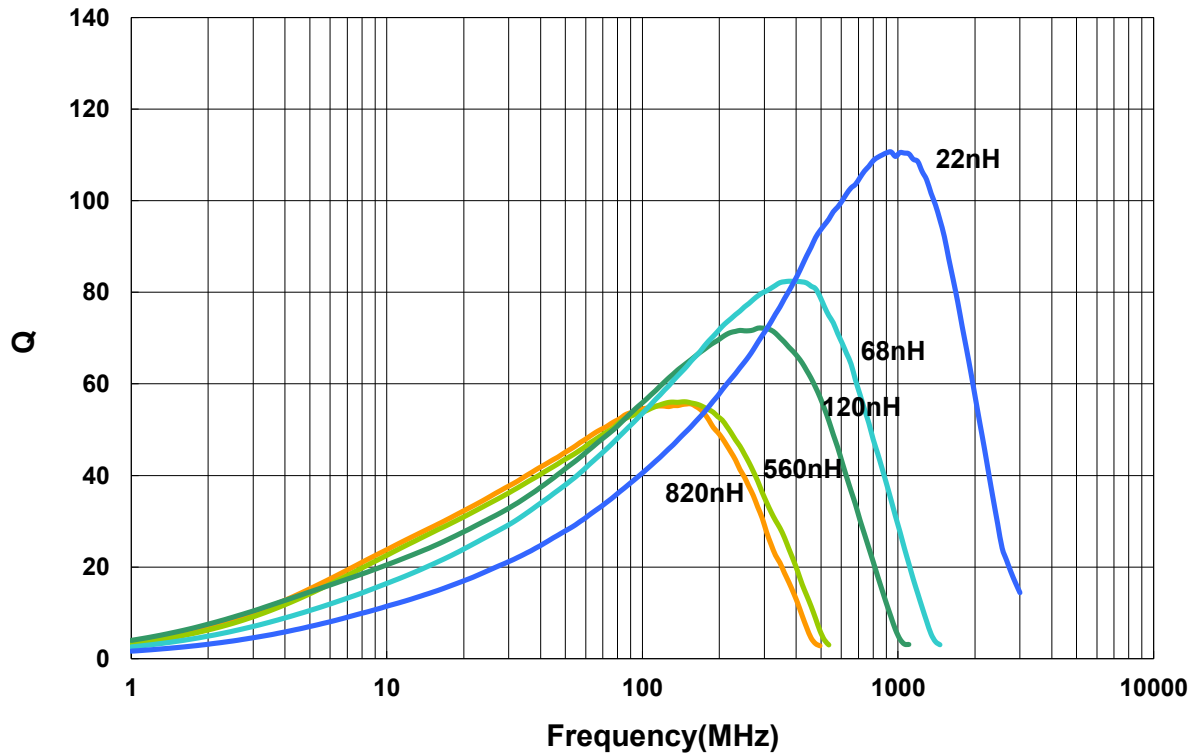
AWCS00372822 Type

Characteristics Graph

Inductance vs. Frequency Charateristics



Q vs. Frequency Charateristics



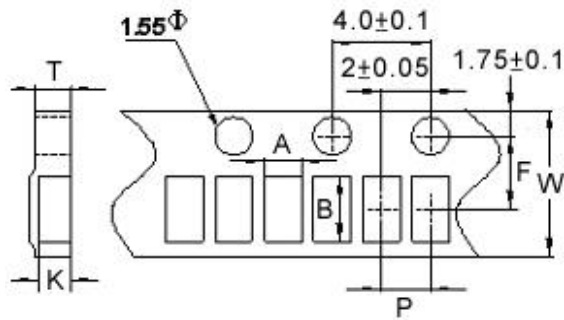
Chip Inductor AWCS Series

Automotive
AEC-Q200

■ Packaging

Tape Dimensions

Figure 1



Tape Material

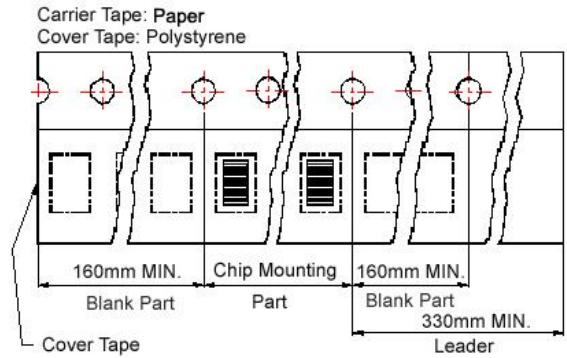


Figure 2

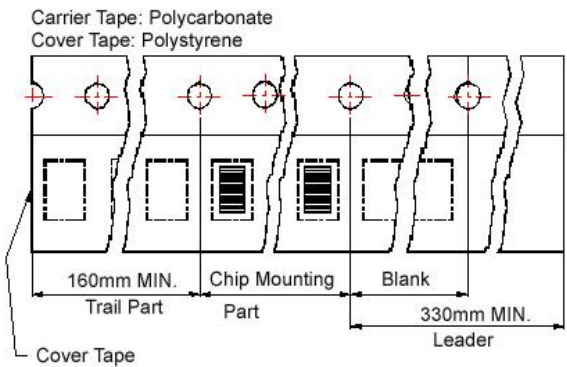
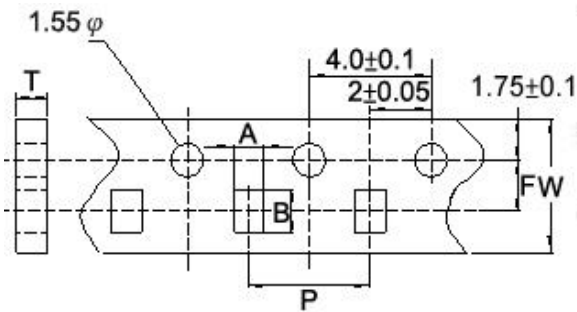
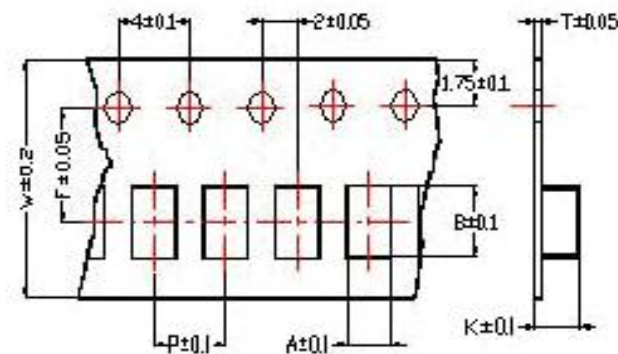
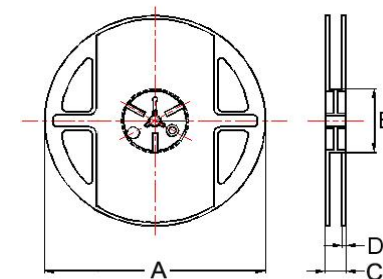


Figure 3



Reel Dimensions



Dimensions in mm

TYPE	Fig.	Tape Dimensions							Reel Dimensions				Quantity PCS / Reel
		A	B	T	W	P	F	K	A	B	C	D	
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

Chip Inductor AWHP Series

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RoHS Compliant
Halogen Free
REACH Compliant



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

Part Numbering

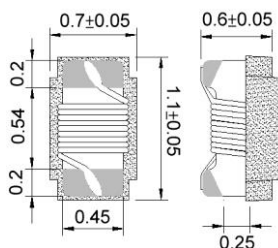
A	WHP	00	110706	10N	H	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (nH)	Tolerance	Internal Code
			110706 1.1x0.7x0.6	3N3 3.3	B ±0.1nH	
			161008 1.6x1x0.82	10N 10	C ±0.2nH	
				R10 100	G ±2%	
					H ±3%	
					J ±5%	

Chip Inductor AWHP Series

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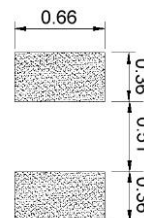
AWHP00110706 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test		Q Typ.	SRF (MHz)Typ.	RDC (Ω)Max.	I _{rms} (mA)Max.	Tolerance
		Freq. (MHz)						
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°C ~ 125°C(Including self - temperature rise)

2. I_{rms} for a 15°C temperature rise from 25°C ambient.

3. Measure Equipment:

L & Q: Agilent E4991A+Agilent HP16197A

SRF: Agilent HP8753D/Agilent E4991A

RDC: Chroma 16502

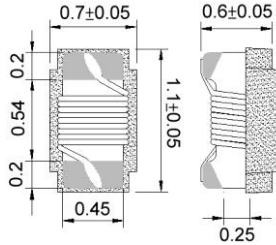
I_{rms}: HP4284A+HP42841A/HP4285A+HP42841A

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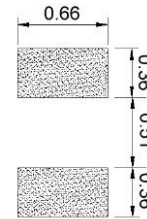
AWHP00110706 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test		SRF (MHz)Typ.	RDC (Ω)Max.	I _{rms} (mA)Max.	Tolerance
		Freq. (MHz)	Q Typ.				
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°C ~ 125°C(Including self - temperature rise)

2. I_{rms} for a 15°C temperature rise from 25°C ambient.

3. Measure Equipment:

L & Q: Agilent E4991A+Agilent HP16197A

SRF: Agilent HP8753D/Agilent HP8722ES

RDC: Chroma 16502

I_{rms}: HP4284A+HP42841A/HP4285A+HP42841A

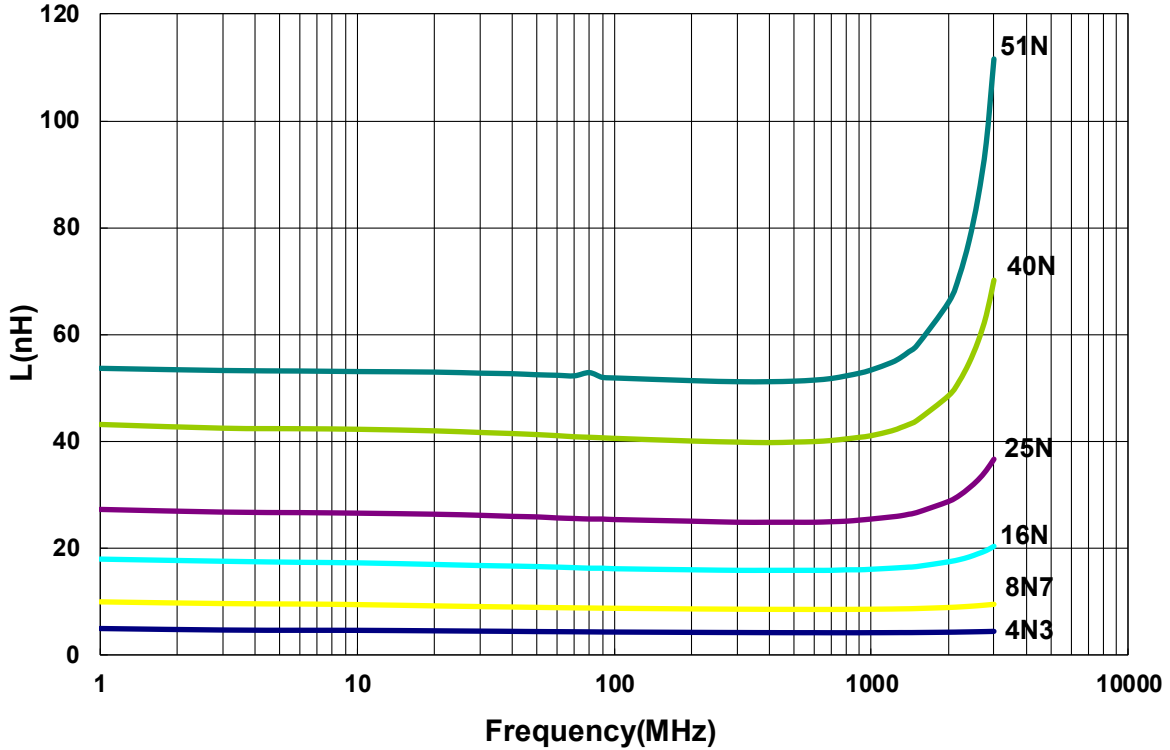
Chip Inductor AWP Series

**Automotive
AEC-Q200**

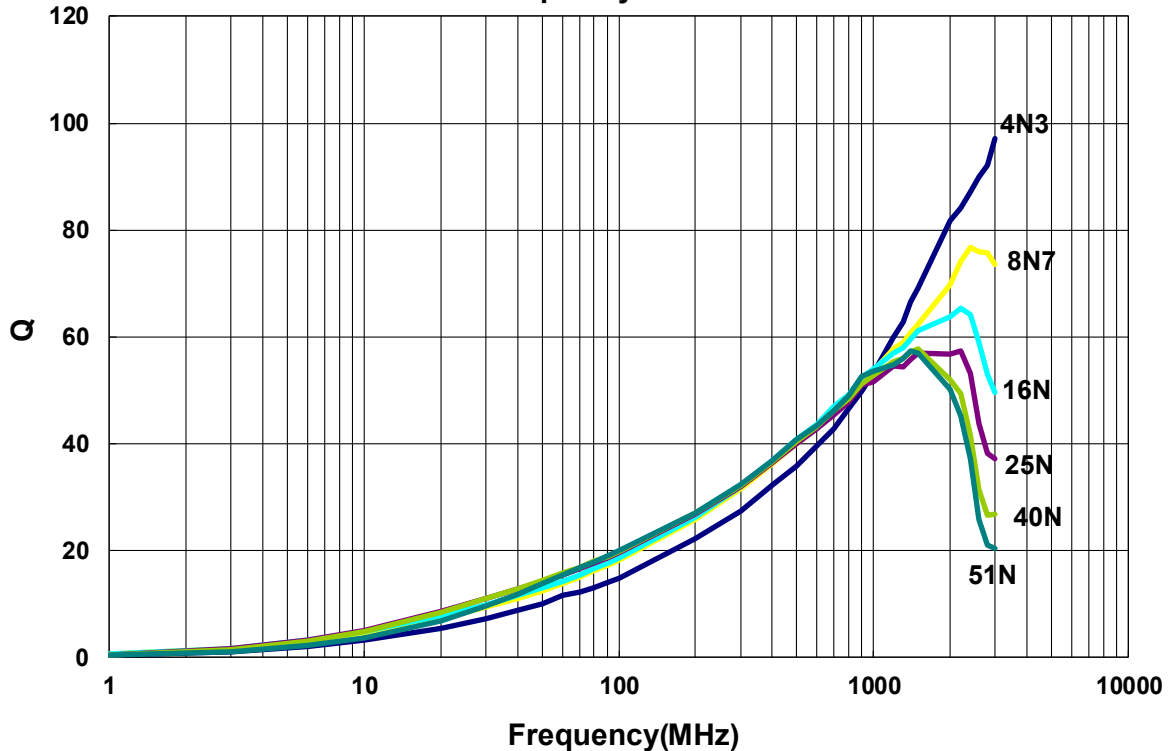
AWHP00110706 Type

Characteristics Graph

Inductance vs. Frequency Charateristics



Q vs. Frequency Charateristics

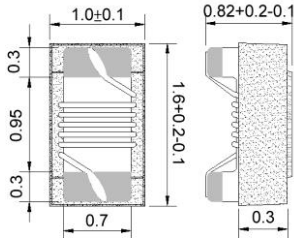


Chip Inductor AWHP Series

Automotive
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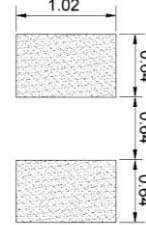
AWHP00161008 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test		Q Typ.	SRF (MHz)Typ.	RDC (Ω)Max.	I _{rms} (mA)Max.	Tolerance
		Freq. (MHz)	Q					
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°C ~ 125°C(Including self - temperature rise)

2. I_{rms} for a 15°C temperature rise from 25°C ambient.

3. Measure Equipment:

L & Q: Agilent E4991A+Agilent HP16197A

SRF: Agilent HP8753D/Agilent HP8722ES

RDC: Chroma 16502

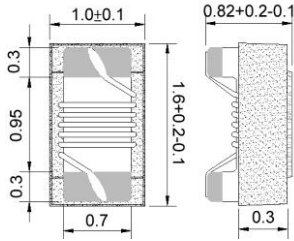
I_{rms}: HP4284A+HP42841A/HP4285A+HP42841A

Chip Inductor AWP Series

Automotive
AEC-Q200

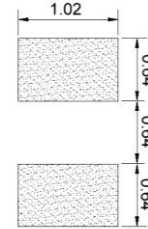
AWCS00161008 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test		Q Typ.	SRF (MHz)Typ.	RDC (Ω)Max.	I _{rms} (mA)Max.	Tolerance
		Freq. (MHz)						
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%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- I_{rms} for a 15°C temperature rise from 25°C ambient.
- Measure Equipment:
 - L & Q: Agilent E4991A+Agilent HP16197A
 - SRF: Agilent HP8753D/Agilent HP8722ES
 - RDC: Chroma 16502
 - I_{rms}: HP4284A+HP42841A/HP4285A+HP42841A

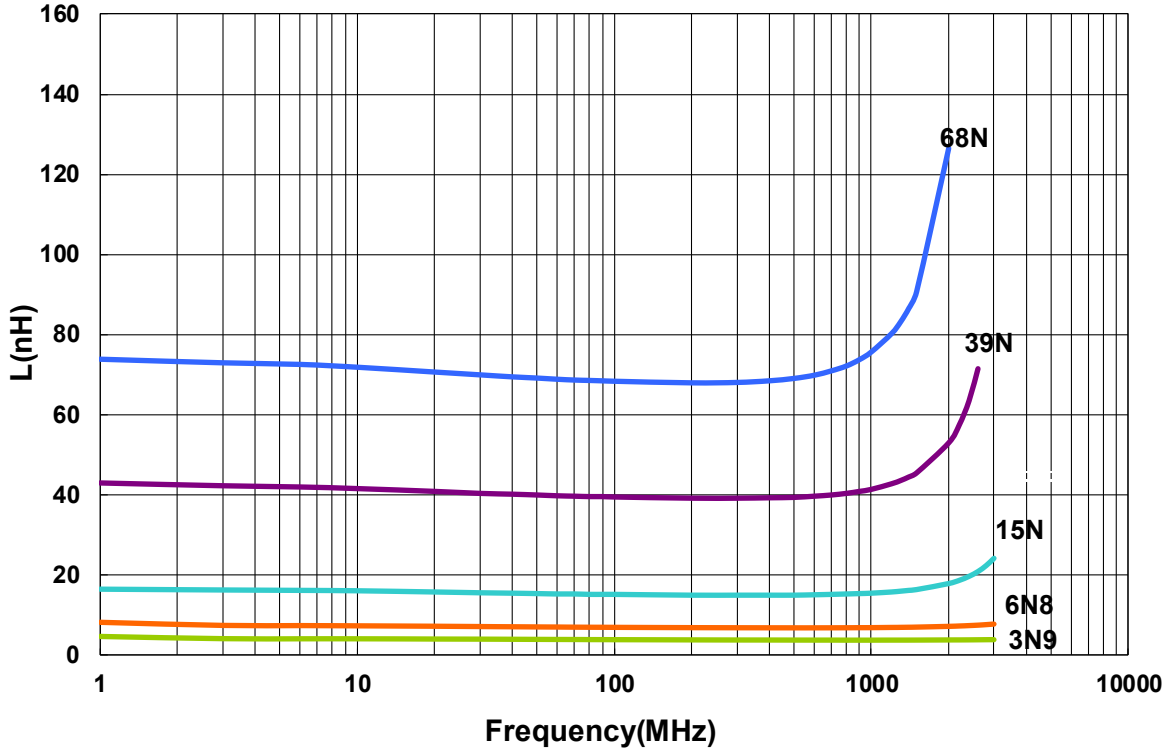
Chip Inductor AWP Series

Automotive
AEC-Q200

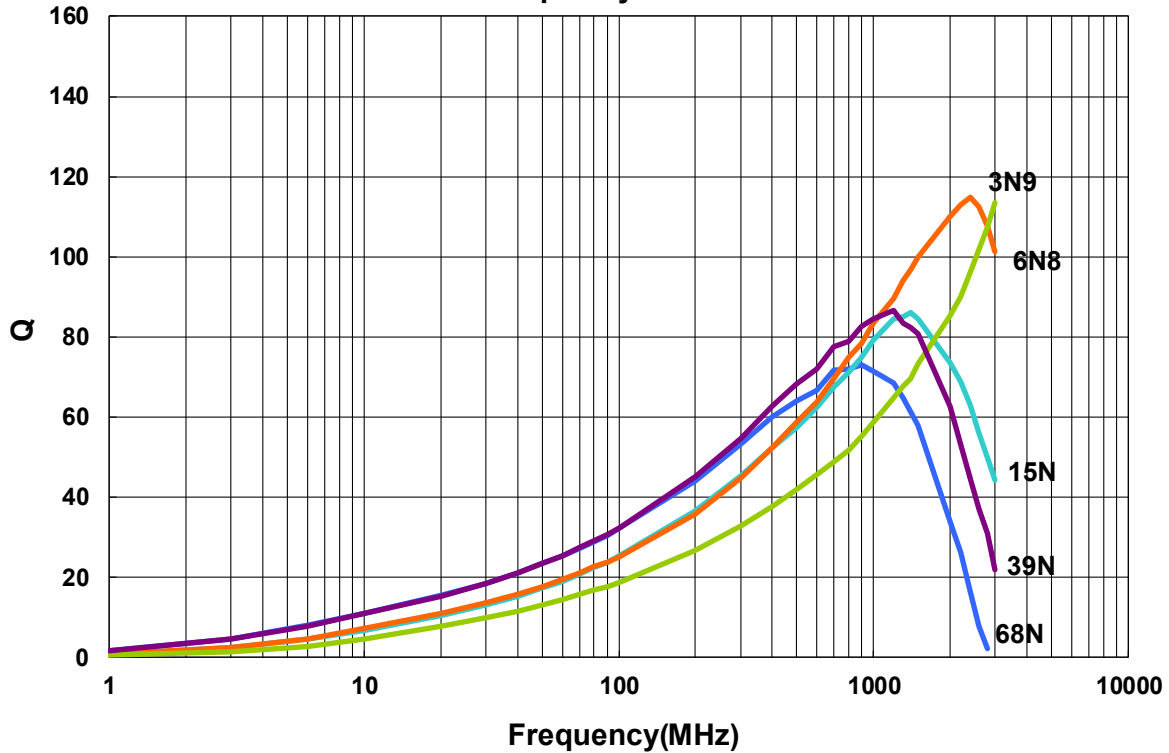
AWHP00161008 Type

■ Characteristics Graph

Inductance vs. Frequency Charateristics



Q vs. Frequency Charateristics



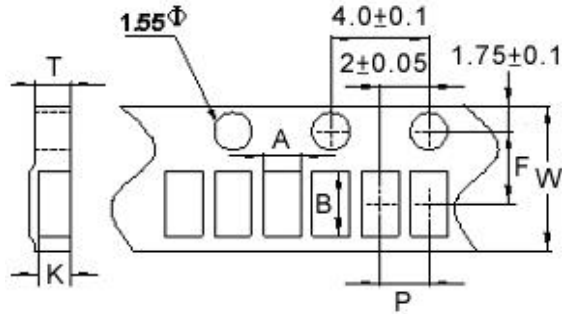
Chip Inductor AWHP Series

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■ Packaging

Tape Dimensions

Figure 1



Tape Material

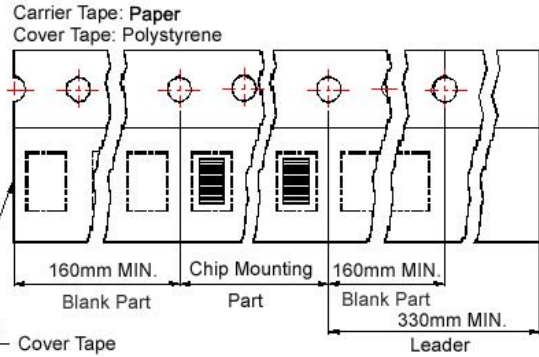
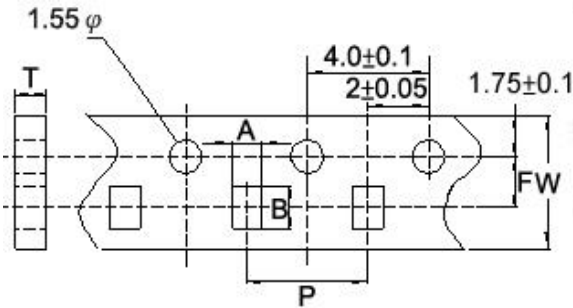
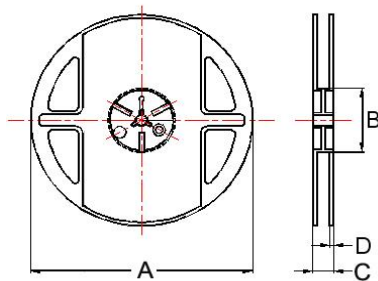


Figure 2



Reel Dimensions



Dimensions in mm

TYPE	Fig.	Tape Dimensions							Reel Dimensions				Quantity PCS / Reel
		A	B	T	W	P	F	K	A	B	C	D	
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

Chip Inductor AWHH Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



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

Part Numbering

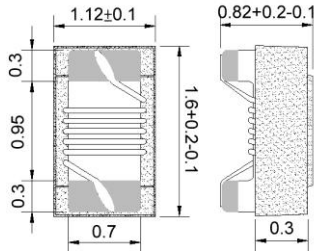
A	WHH	00	161108	10N	H	00	
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (nH)	Tolerance		Internal Code
			161108 1.6x1.12x0.82	3N3 3.3 10N 10	H ±3% J ±5%		

Chip Inductor AWHH Series

**Automotive
AEC-Q200**

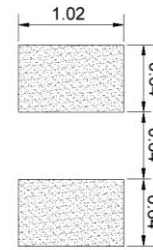
AWHH00161108 Type

Dimensions



unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

Part No.	Inductance (nH)	L/Q Test		Q Typ.	SRF (GHz)Typ.	RDC (Ω)Max.	I _{rms} (mA)Max.	Tolerance
		Freq. (MHz)						
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

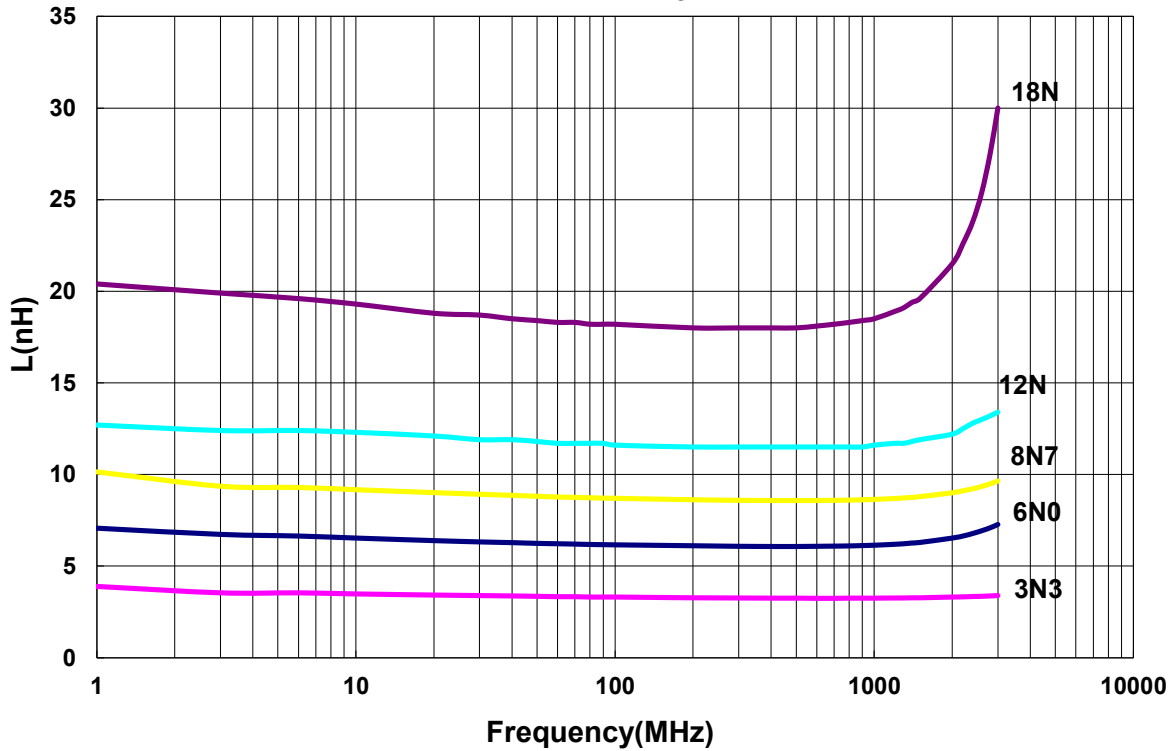
Note: When ordering, please specify tolerance code. Tolerance: H=±3% / J=±5%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- I_{rms} for a 15°C temperature rise from 25°C ambient.
- Measure Equipment:
 L & Q: Agilent E4991A+Agilent HP16197A
 SRF: Agilent E5071C
 RDC: Chroma 16502
 I_{rms}: HP4284A+HP42841A/HP4285A+HP42841A

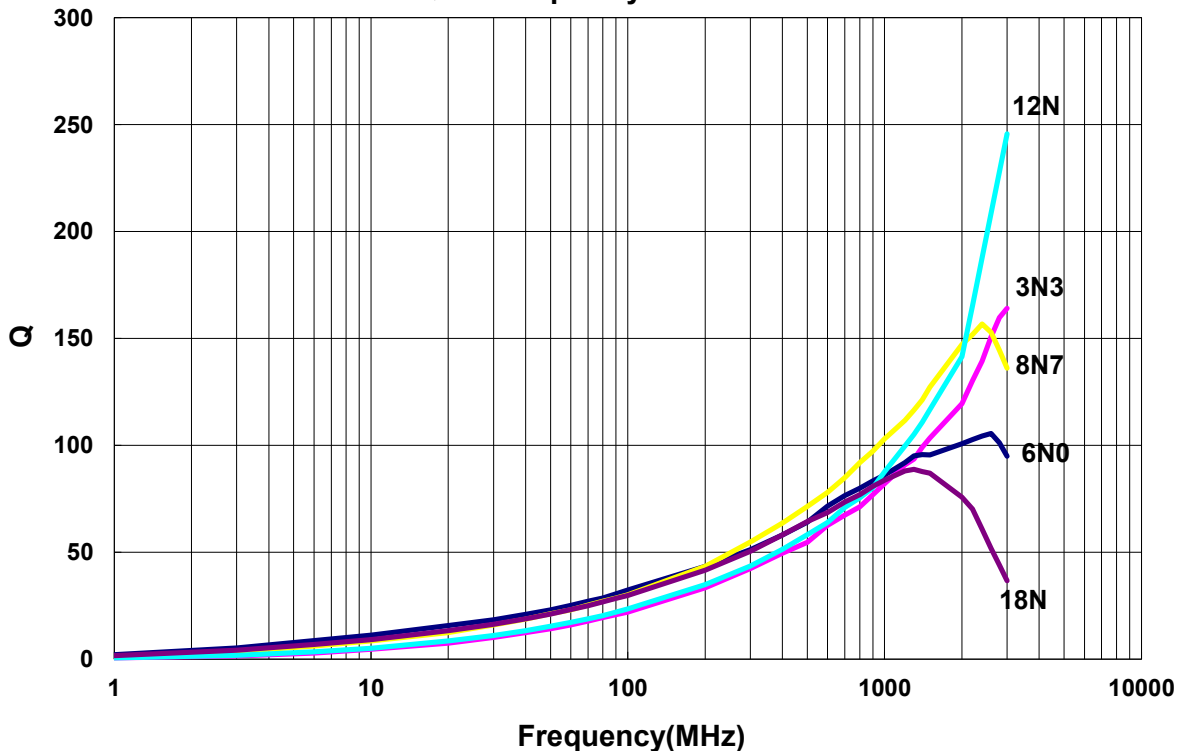
AWHH00161108 Type

■ Characteristics Graph

Inductance vs. Frequency Characteristics



Q vs. Frequency Characteristics

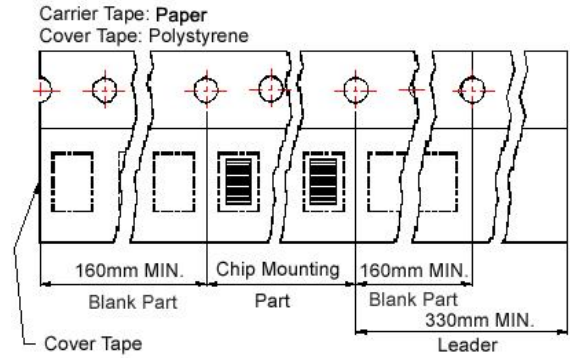
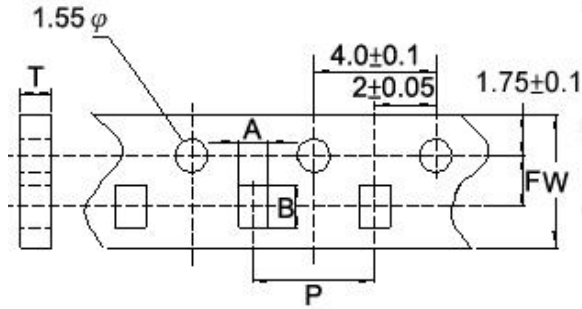


Chip Inductor AWHH Series

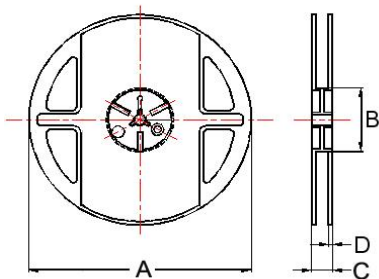
**Automotive
AEC-Q200**

■ Packaging

Tape Dimensions



Reel Dimensions



Dimensions in mm

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

Chip Inductor AWVI Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



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

Part Numbering

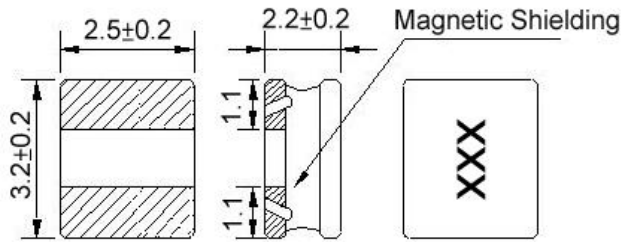
A	WVI	00	322522	3R3	K	H0
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			322522 3.2x2.5x2.2	3R3 3.3 100 10	K ±10% J ±5%	

Chip Inductor AWWI Series

**Automotive
AEC-Q200**

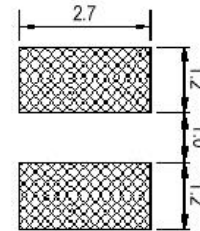
AWVI00322522 Type

■ Dimensions



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
AWVI003225223R3JH0	3.3	7.96/2.52	10	45	0.18	770	5,10	3R3
AWVI003225224R7JH0	4.7	7.96/2.52	10	40	0.25	700	5,10	4R7
AWVI00322522100JH0	10	2.52/2.52	12	25	0.46	500	5,10	100
AWVI00322522220JH0	22	2.52/2.52	12	14	1.0	330	5,10	220
AWVI00322522330JH0	33	2.52/2.52	15	10	1.4	280	5,10	330
AWVI00322522470JH0	47	2.52/2.52	15	8.0	2.1	230	5,10	470

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

1. Operating temperature range - 40°C ~ 125°C
2. I_{rms} for a 15°C temperature rise from 25°C ambient with current
4. Measure Equipment:
 - L & Q: Agilent E4991A (over 1MHz)+Agilent HP16197A/Agilent HP4285A (under 1MHz)
 - SRF: Agilent E4991A+Agilent HP16197A or equivalent
 - RDC: DIGITAL MILLINHM METER CHROMA 16502
 - I_{rms}: HP4285A+HP42841A

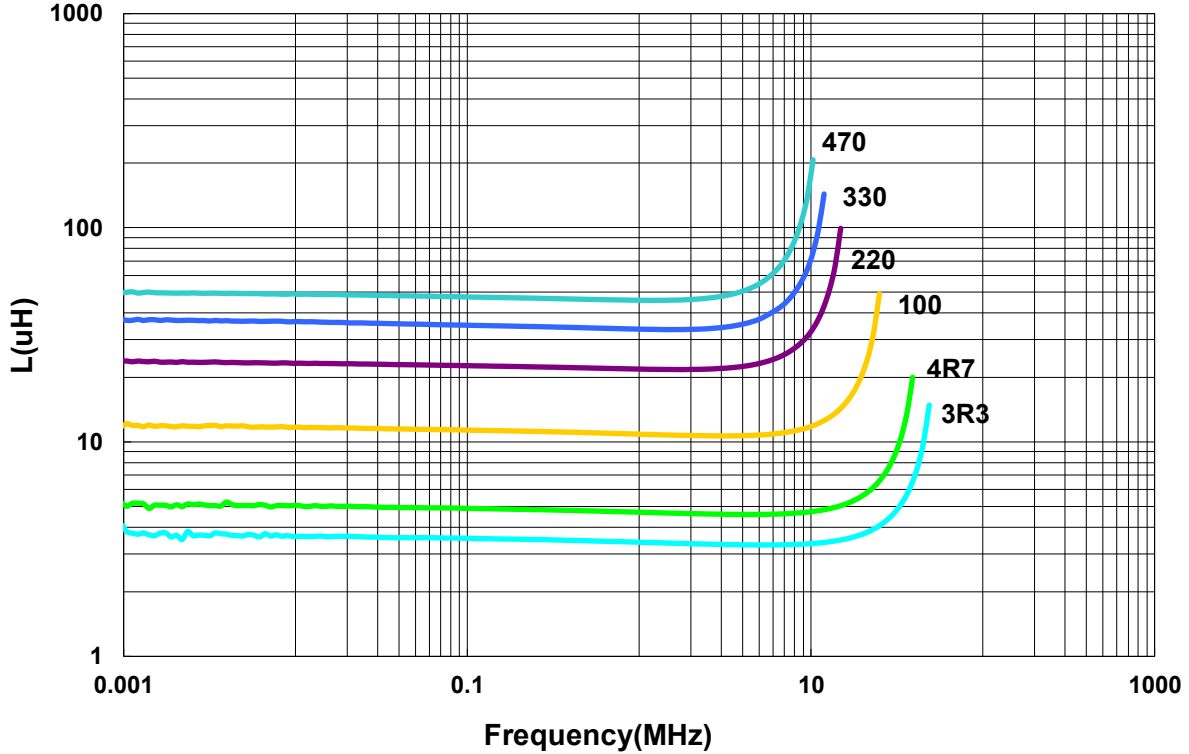
Chip Inductor AWWI Series

**Automotive
AEC-Q200**

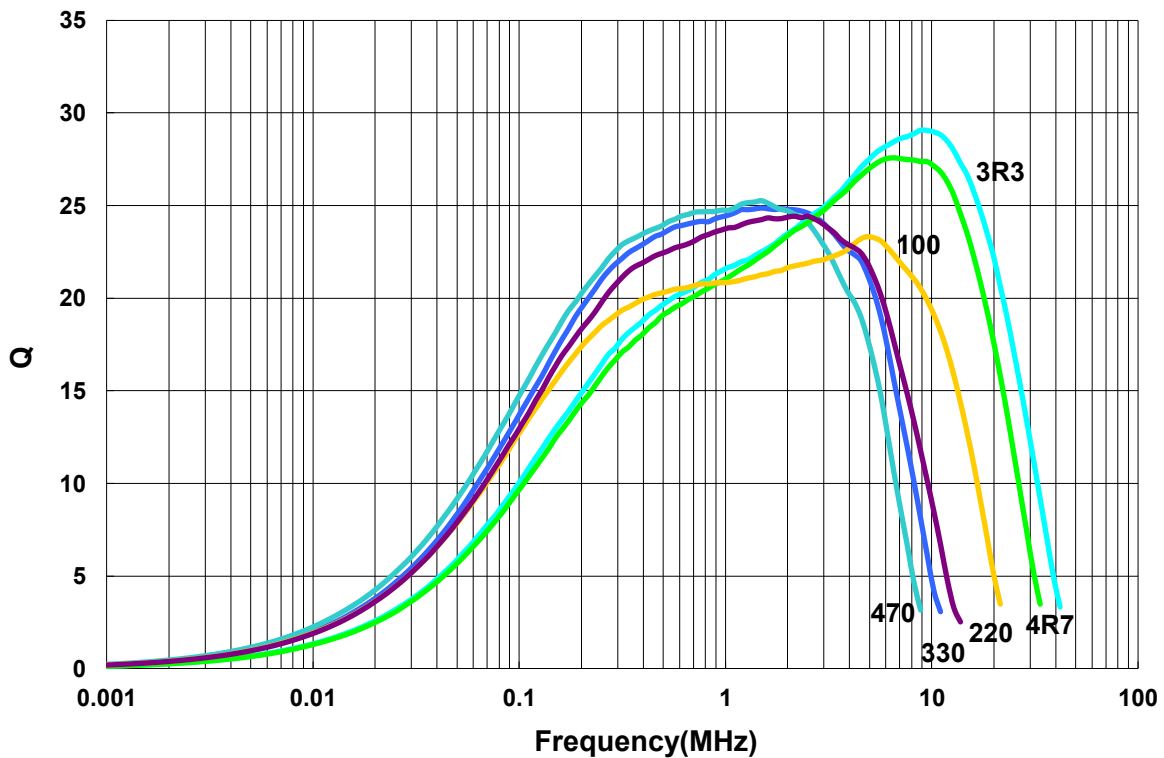
AWVI00322522 Type

Characteristics Graph

Inductance vs. Frequency Characteristics



Frequency vs. Q



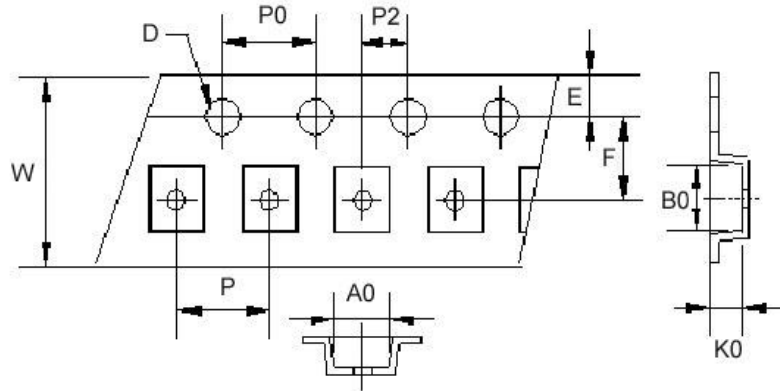
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

Chip Inductor AWWI Series

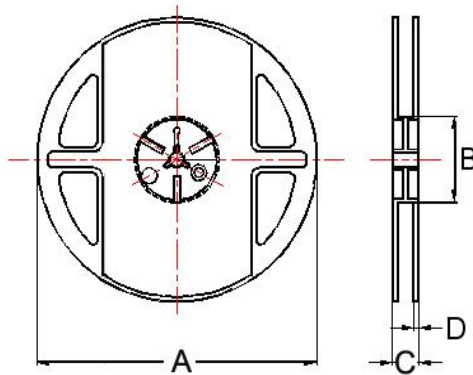
**Automotive
AEC-Q200**

■ 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

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		

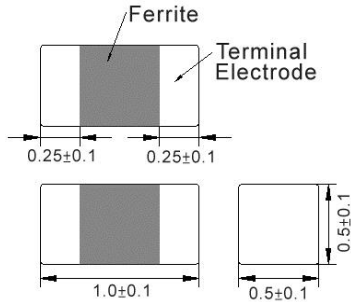
This specification applies to Multilayer Chip ferrite Bead for Automotive Electronics based on AEC-Q200 except for Power train and Safety.

Chip Bead ABSJ Series

**Automotive
AEC-Q200**

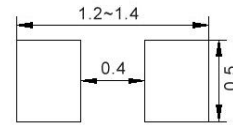
ABSJ00100505 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

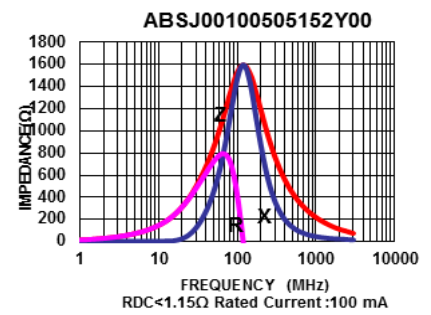
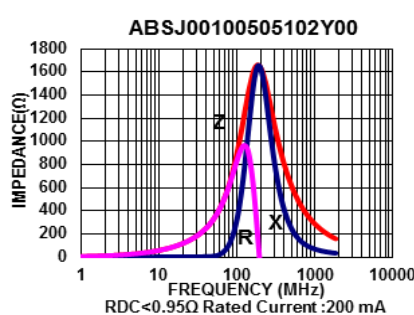
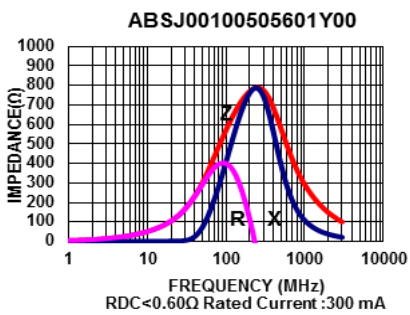
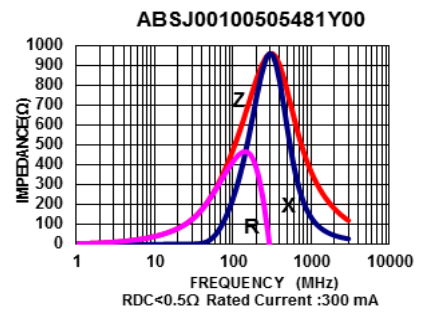
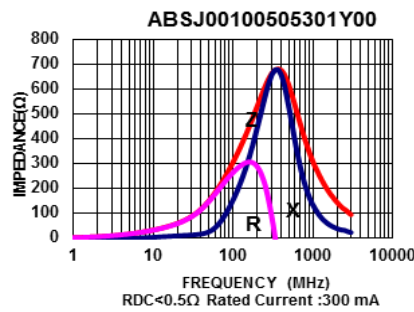
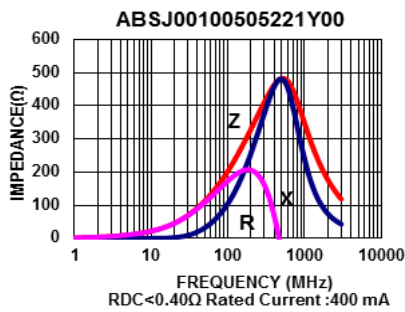
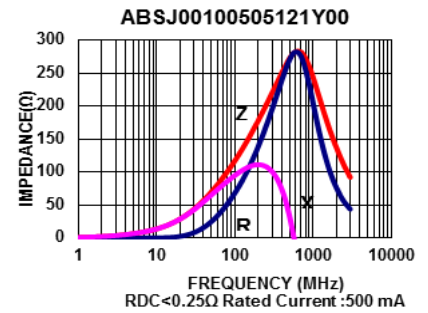
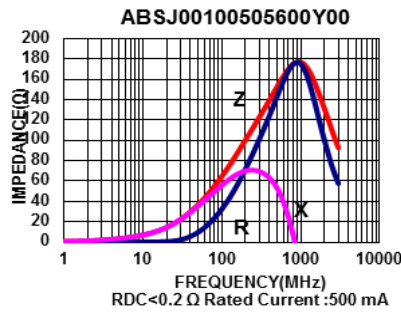
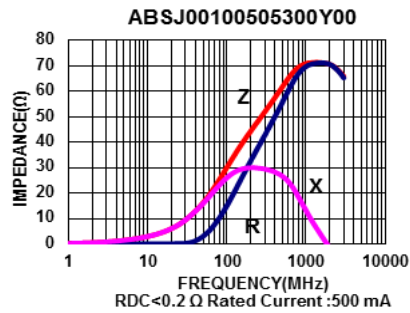
Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABSJ00100505300Y00	30	100 MHz,200 mV	0.20	500
ABSJ00100505600Y00	60	100 MHz,200 mV	0.20	500
ABSJ00100505121Y00	120	100 MHz,200 mV	0.25	500
ABSJ00100505221Y00	220	100 MHz,200 mV	0.40	400
ABSJ00100505301Y00	300	100 MHz,200 mV	0.50	300
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
ABSJ00100505152Y00	1500	100 MHz,200 mV	1.15	100

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

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

ABSJ00100505 Type

Characteristics Graph

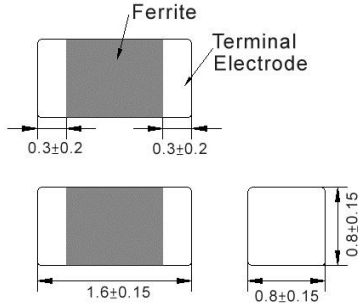


Chip Bead ABSJ Series

**Automotive
AEC-Q200**

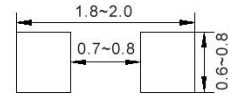
ABSJ00160808 Type

■ 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 \pm 25%

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

Z: HP4291A

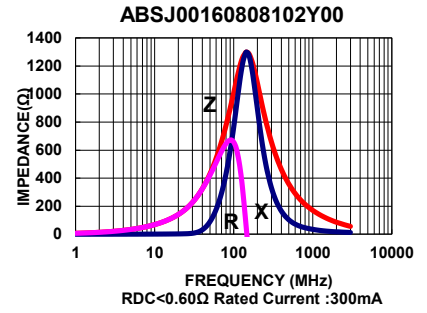
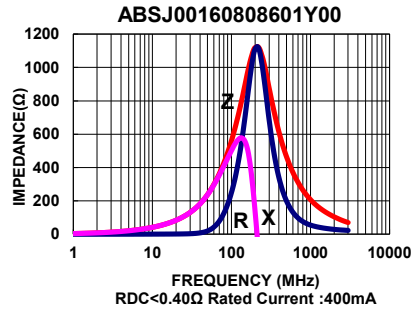
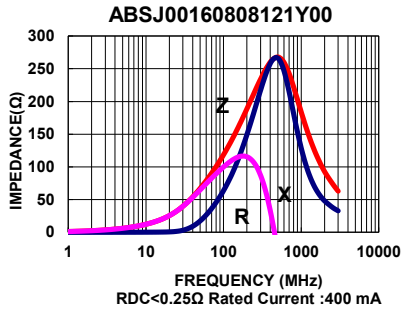
RDC: HP4338B or CHEN HWA 502

Chip Bead ABSJ Series

Automotive
AEC-Q200

ABSJ00160808 Type

■ Characteristics Graph

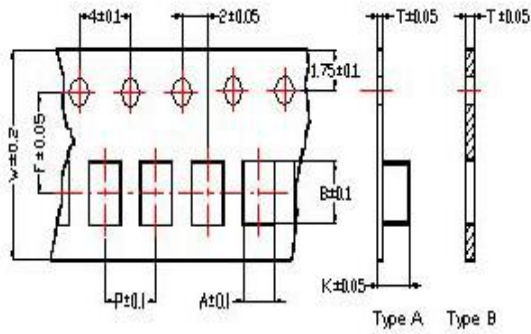


Chip Bead ABSJ Series

**Automotive
AEC-Q200**

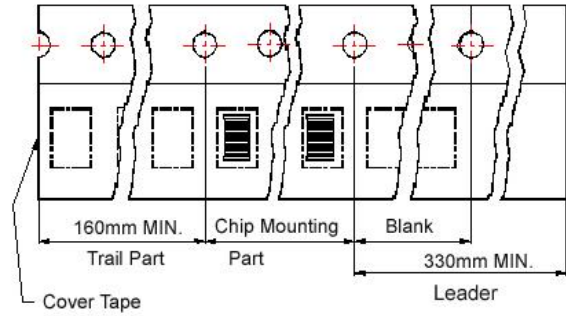
■ Packaging

Tape Dimensions

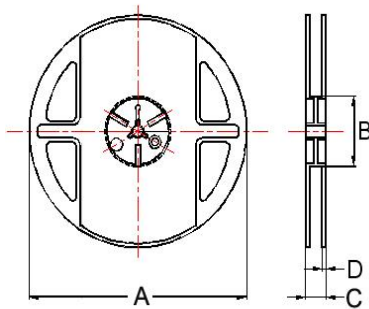


Tape Material

Carrier Tape: Polycarbonate (Tape A)
Carrier Tape: Paper (Tape B)
Cover Tape: Polystyrene



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

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			

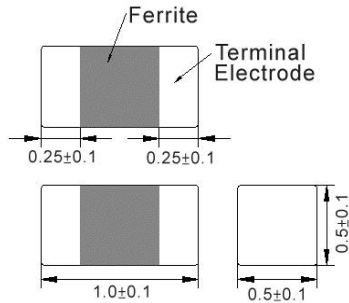
This specification applies to Multilayer Chip ferrite Bead for Automotive Electronics based on AEC-Q200 except for Power train and Safety.

Chip Bead ABSY/ABBK Series

Automotive
AEC-Q200

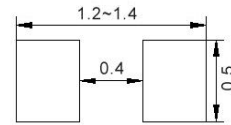
ABSY00100505 Type

■ 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%

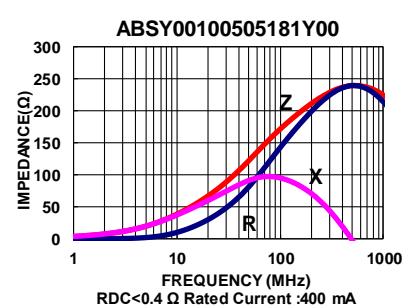
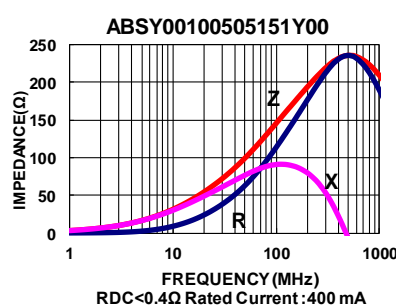
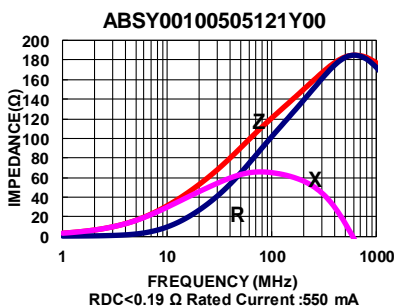
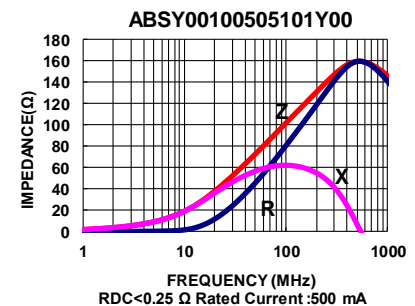
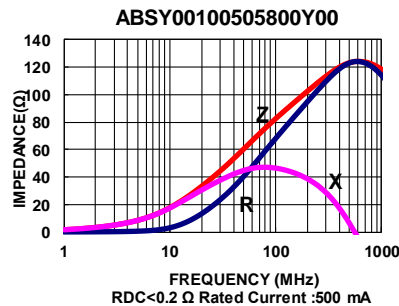
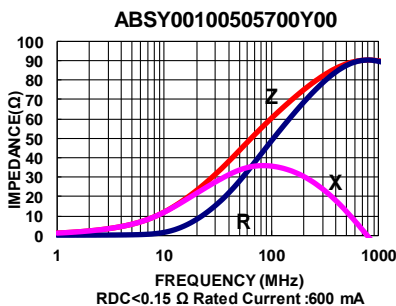
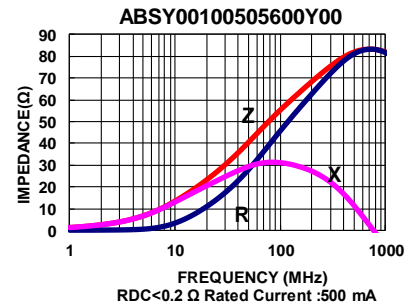
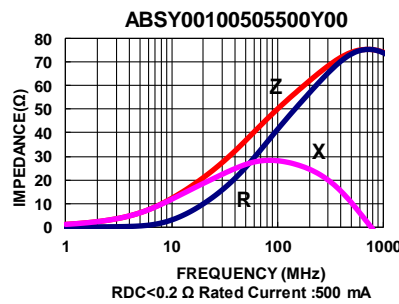
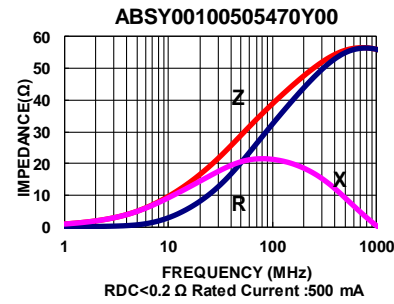
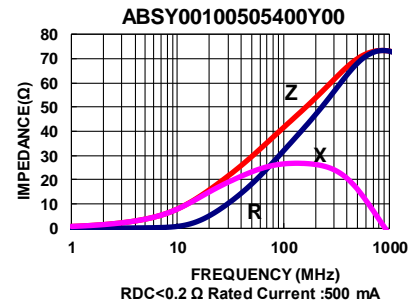
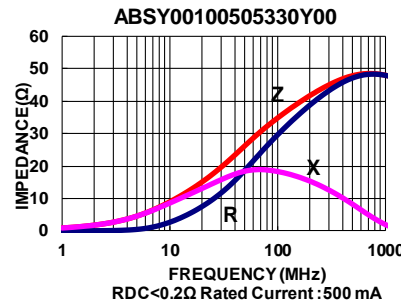
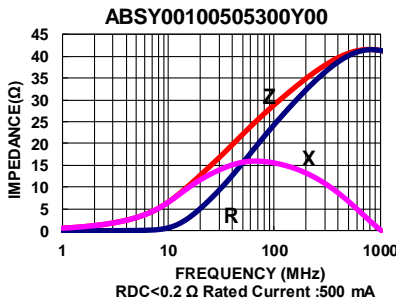
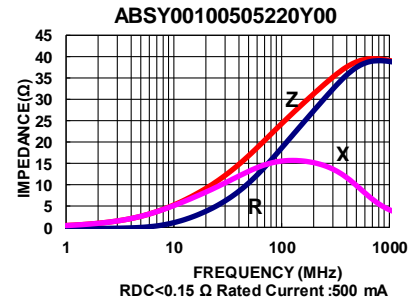
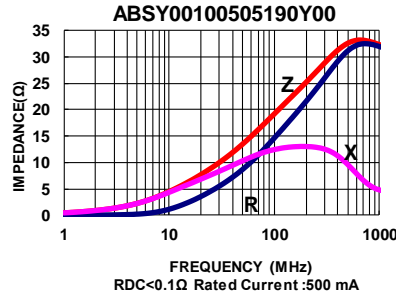
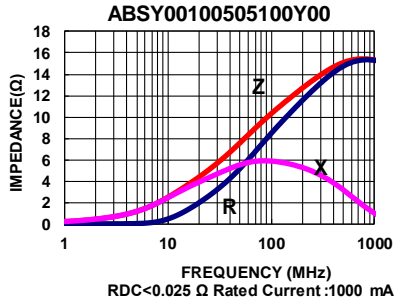
1. Operating temperature range - 55°C ~ 125°C
2. Rate Current : Applied the current to coils, the temperature rise shall not be more than 30°C
3. Measure Equipment:
 - Z: HP4291A
 - RDC: HP4338B or CHEN HWA 502

Chip Bead ABSY/ABBK Series

Automotive
AEC-Q200

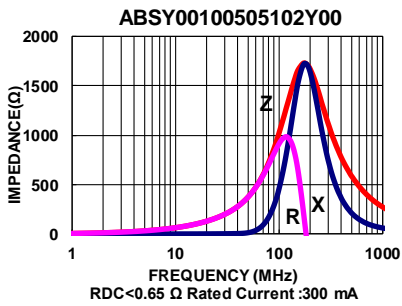
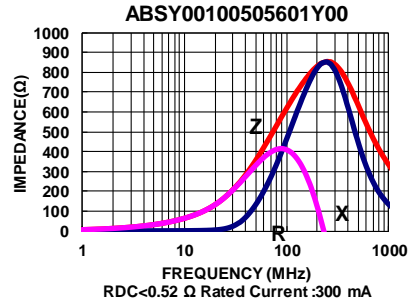
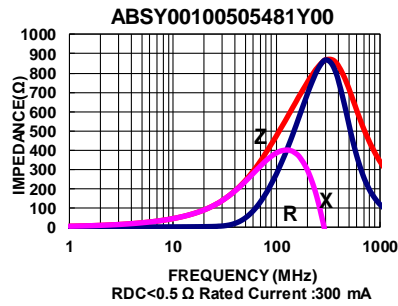
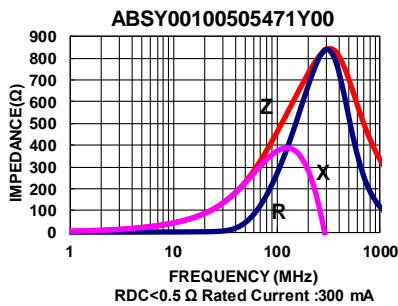
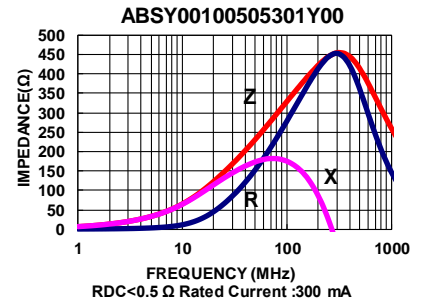
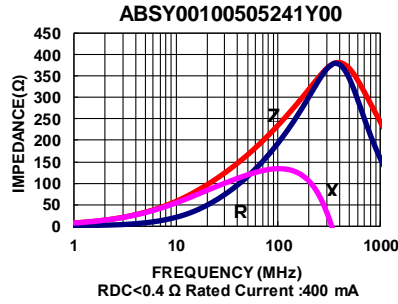
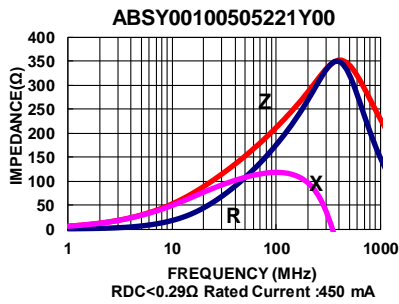
ABSY00100505 Type

Characteristics Graph



ABSY00100505 Type

■ Characteristics Graph

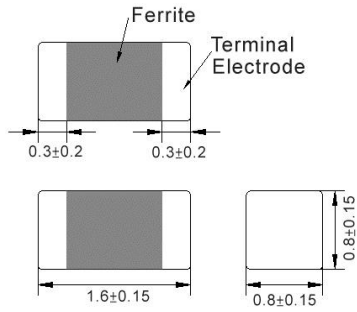


Chip Bead ABSY/ABBK Series

**Automotive
AEC-Q200**

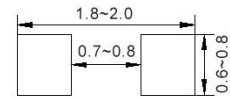
ABBK00160808 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

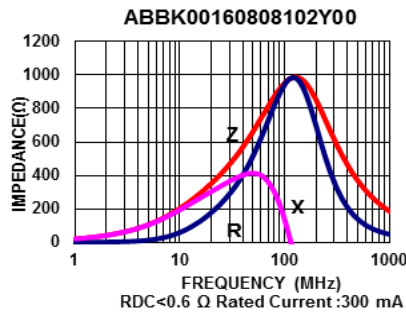
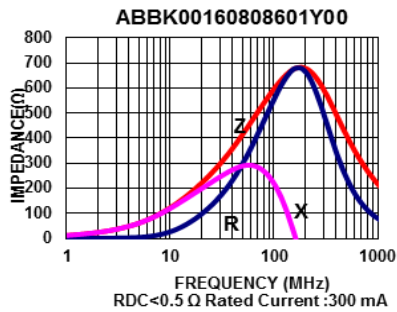
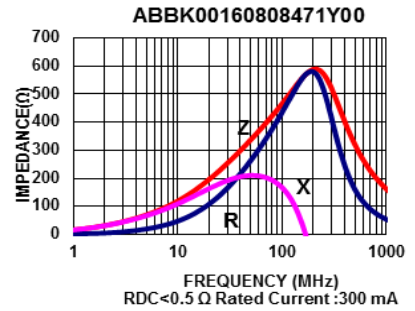
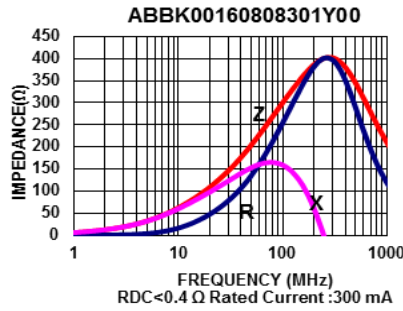
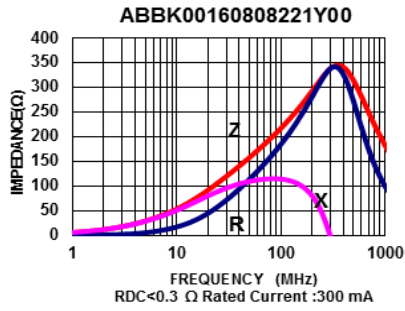
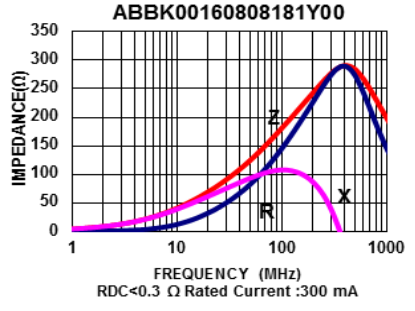
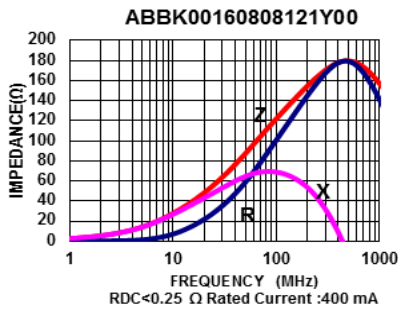
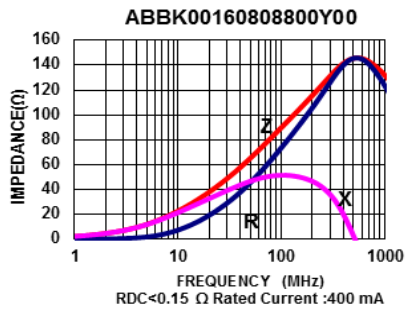
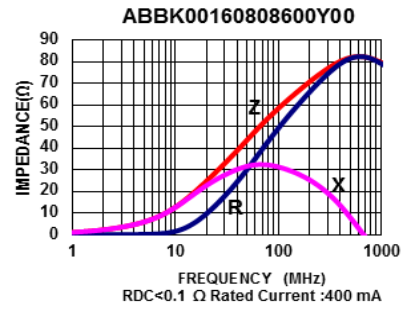
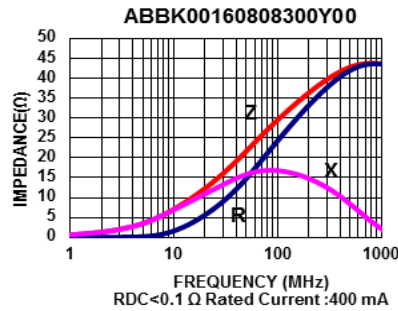
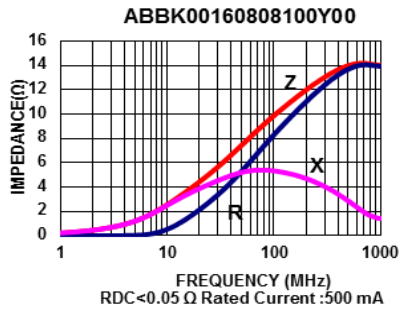
Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABBK00160808100Y00	10	100 MHz,200 mV	0.05	500
ABBK00160808300Y00	30	100 MHz,200 mV	0.10	400
ABBK00160808600Y00	60	100 MHz,200 mV	0.10	400
ABBK00160808800Y00	80	100 MHz,200 mV	0.15	400
ABBK00160808121Y00	120	100 MHz,200 mV	0.25	400
ABBK00160808181Y00	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°C ~ 125°C
2. Rate Current : Applied the current to coils, the temperature rise shall not be more than 30°C
3. Measure Equipment:
 - Z: HP4291A
 - RDC: HP4338B or CHEN HWA 502

ABBK00160808 Type

Characteristics Graph

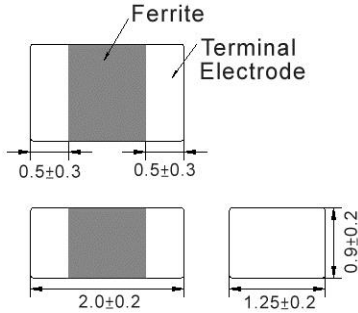


Chip Bead ABSY/ABBK Series

Automotive
AEC-Q200

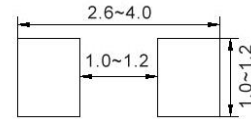
ABBK00201209 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

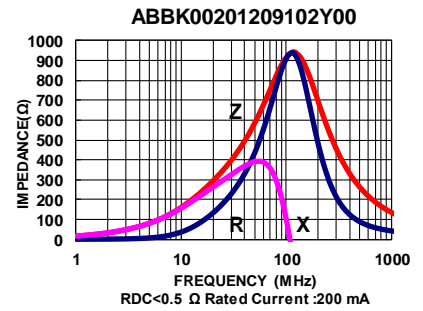
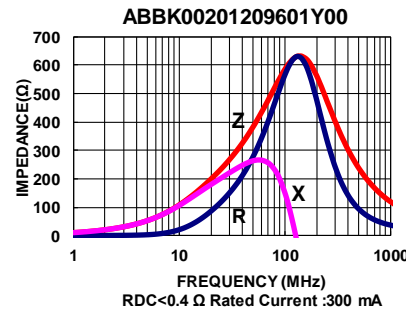
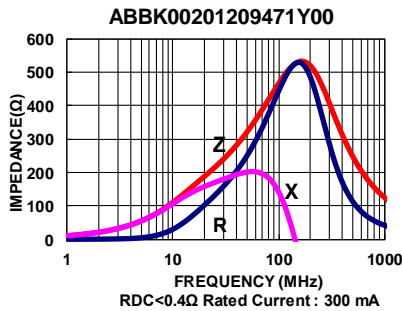
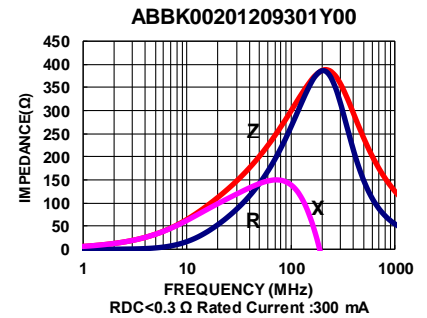
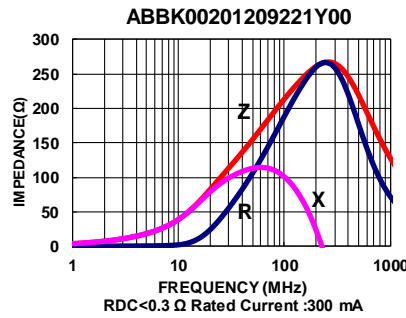
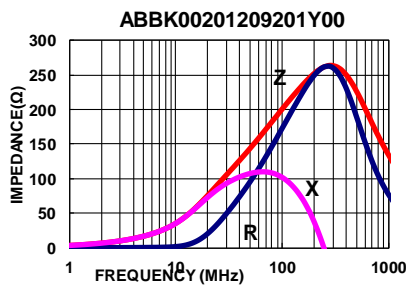
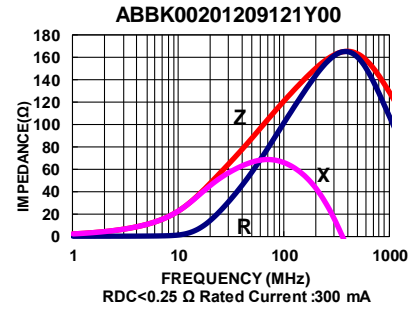
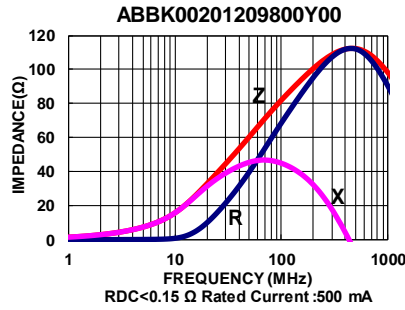
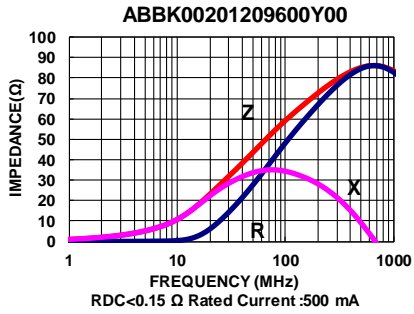
Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABBK00201209600Y00	60	100 MHz,200 mV	0.15	500
ABBK00201209800Y00	80	100 MHz,200 mV	0.15	500
ABBK00201209121Y00	120	100 MHz,200 mV	0.25	300
ABBK00201209201Y00	200	100 MHz,200 mV	0.30	300
ABBK00201209221Y00	220	100 MHz,200 mV	0.30	300
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°C ~ 125°C
2. Rate Current : Applied the current to coils, the temperature rise shall not be more than 30°C
3. Measure Equipment:
Z: HP4291A
RDC: HP4338B or CHEN HWA 502

ABK00201209 Type

Characteristics Graph

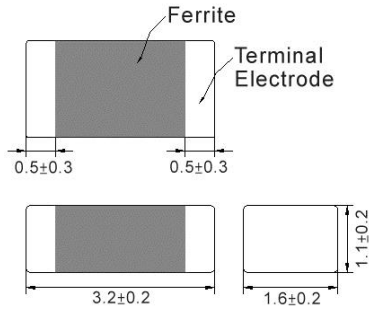


Chip Bead ABSY/ABBK Series

**Automotive
AEC-Q200**

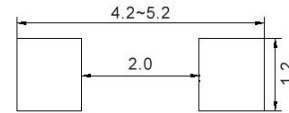
ABBK00321611 Type

■ 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= \pm 25%

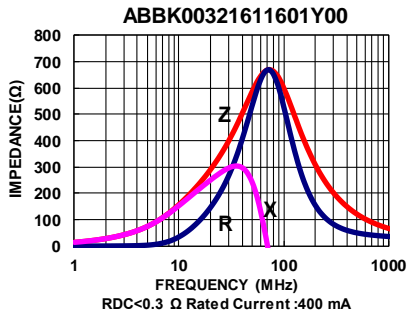
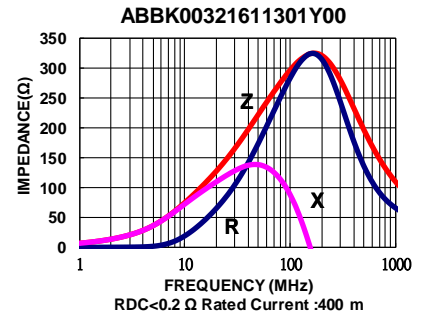
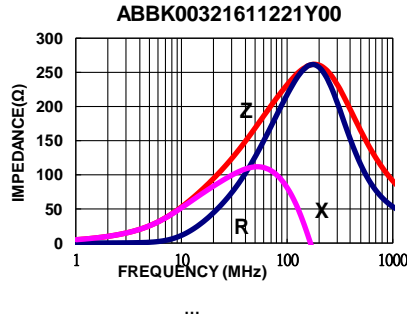
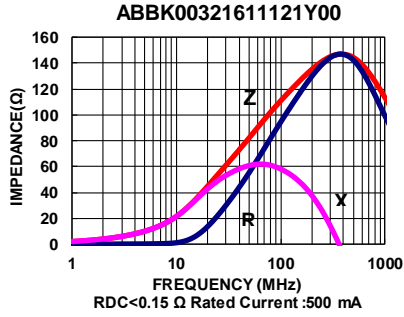
1. Operating temperature range - 55°C ~ 125°C
2. Rate Current : Applied the current to coils, the temperature rise shall not be more than 30°C
3. Measure Equipment:

Z: HP4291A

RDC: HP4338B or CHEN HWA 502

ABBK00321611 Type

■ Characteristics Graph

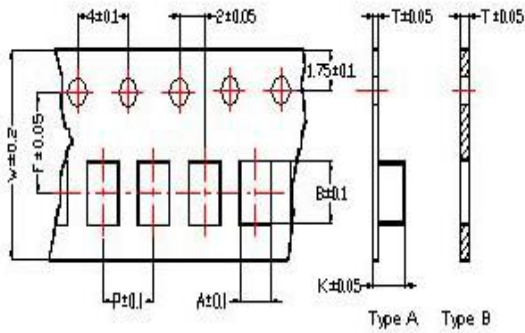


Chip Bead ABSY/ABBK Series

**Automotive
AEC-Q200**

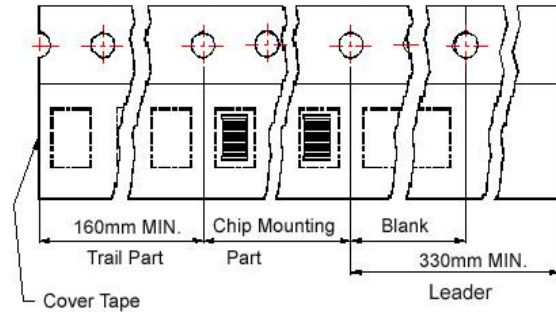
■ Packaging

Tape Dimensions

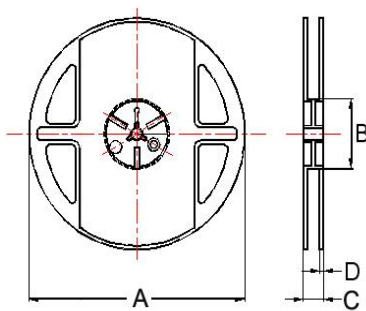


Tape Material

Carrier Tape: Polycarbonate (Tape A)
Carrier Tape: Paper (Tape B)
Cover Tape: Polystyrene



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

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		

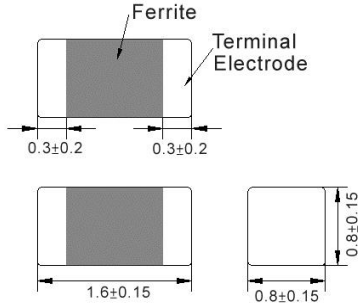
This specification applies to Multilayer Chip ferrite Bead for Automotive Electronics based on AEC-Q200 except for Power train and Safety.

Chip Bead ABGK Series

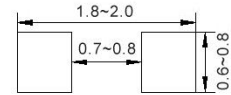
**Automotive
AEC-Q200**

ABGK00160808 Type

■ Dimensions



■ Recommended Land Pattern



■ 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%

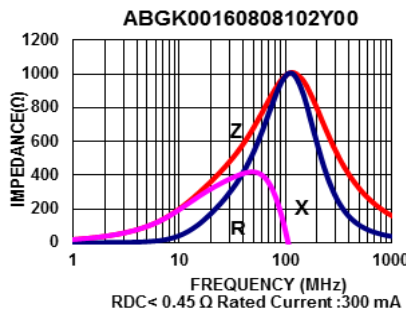
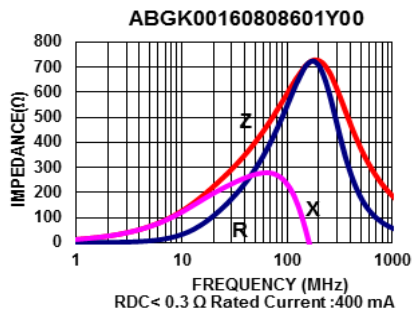
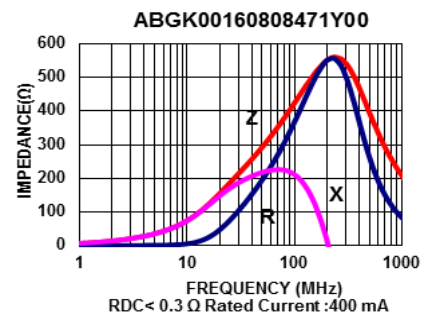
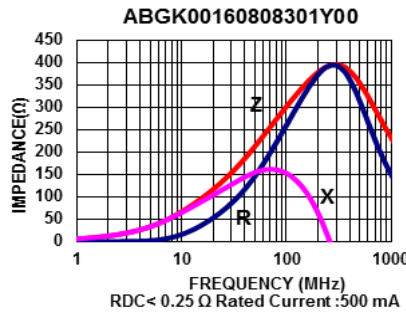
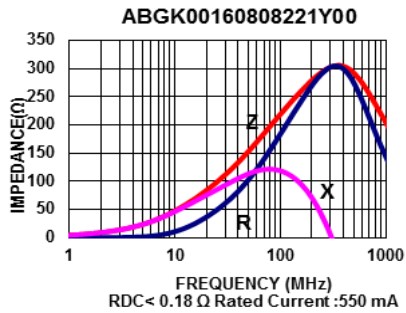
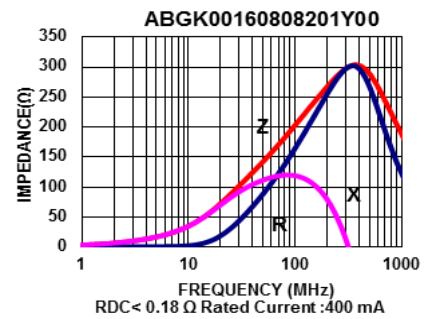
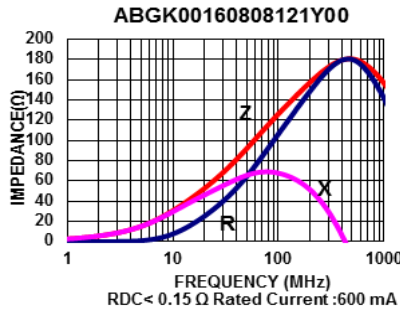
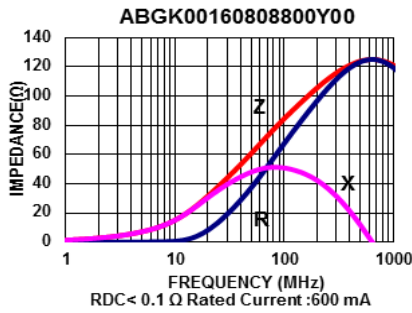
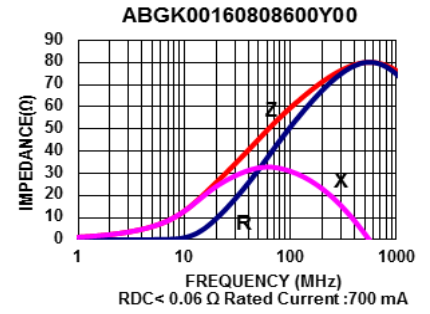
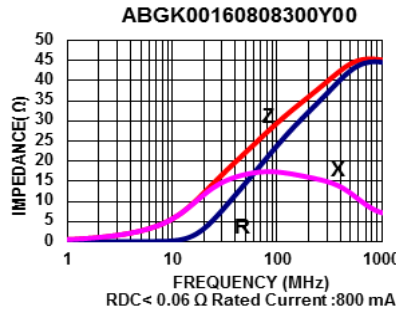
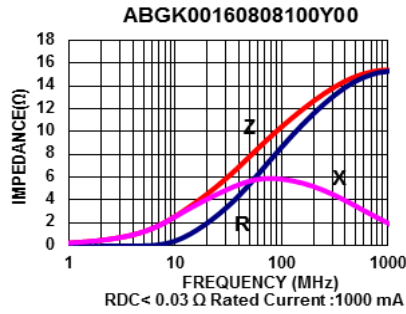
1. Operating temperature range - 55°C ~ 125°C
2. Rate Current : Applied the current to coils, the temperature rise shall not be more than 30°C
3. Measure Equipment:
 Z: HP4291A
 RDC: HP4338B or CHEN HWA 502

Chip Bead ABGK Series

**Automotive
AEC-Q200**

ABGK00160808 Type

Characteristics Graph

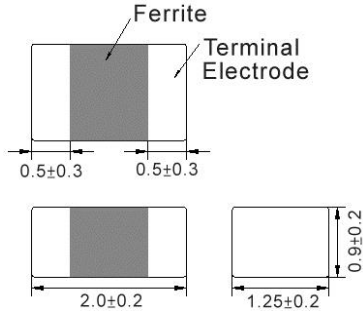


Chip Bead ABGK Series

**Automotive
AEC-Q200**

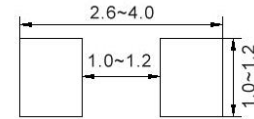
ABGK00201209 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

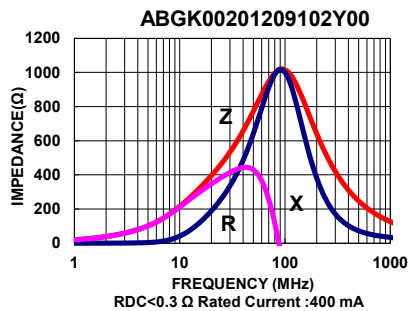
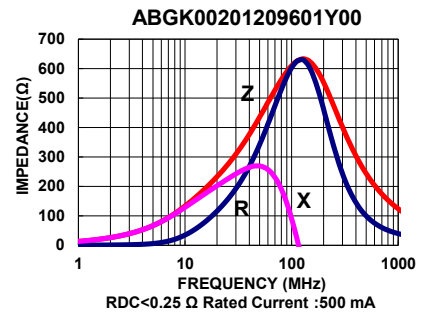
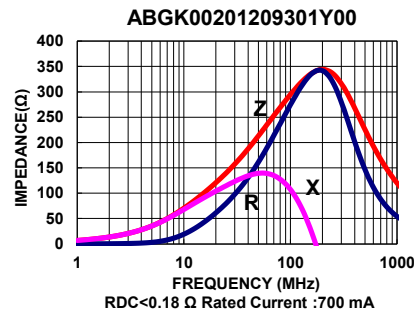
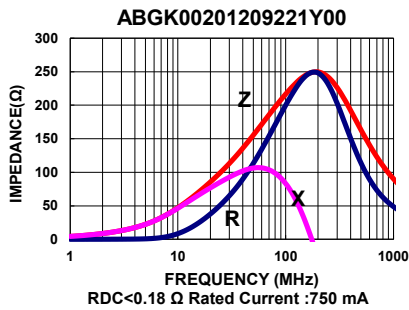
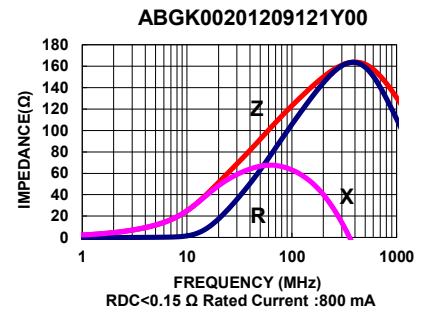
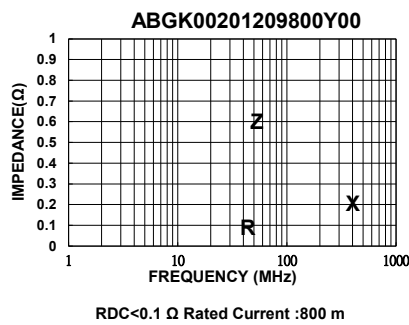
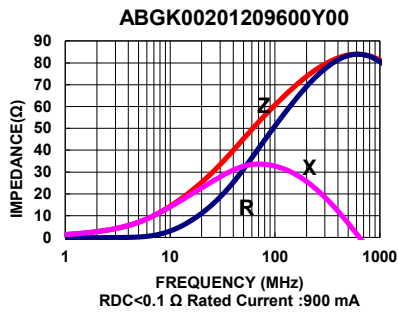
Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABGK00201209600Y00	60	100 MHz,200 mV	0.10	900
ABGK00201209800Y00	80	100 MHz,200 mV	0.10	800
ABGK00201209121Y00	120	100 MHz,200 mV	0.15	800
ABGK00201209221Y00	220	100 MHz,200 mV	0.18	750
ABGK00201209301Y00	300	100 MHz,200 mV	0.18	700
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°C ~ 125°C
2. Rate Current : Applied the current to coils, the temperature rise shall not be more than 30°C
3. Measure Equipment:
Z: HP4291A
RDC: HP4338B or CHEN HWA 502

ABGK00201209 Type

Characteristics Graph

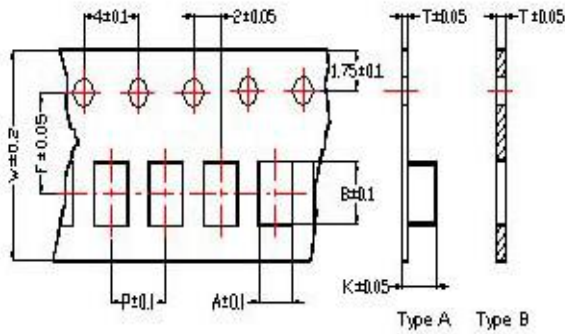


Chip Bead ABGK Series

**Automotive
AEC-Q200**

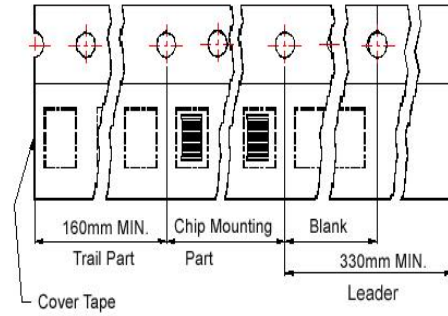
■ Packaging

Tape Dimensions

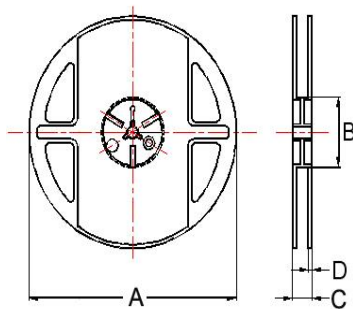


Tape Material

Carrier Tape: Polycarbonate (Tape A)
Carrier Tape: Paper (Tape B)
Cover Tape: Polystyrene



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

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			

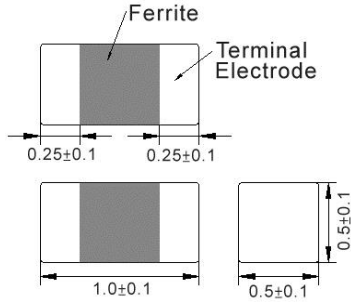
This specification applies to Multilayer Chip ferrite Bead for Automotive Electronics based on AEC-Q200 except for Power train and Safety.

Chip Bead ABPY Series

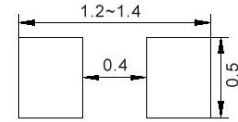
**Automotive
AEC-Q200**

ABPY00100505 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

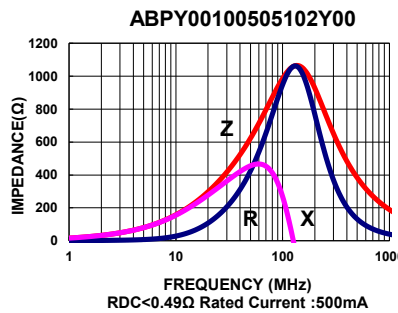
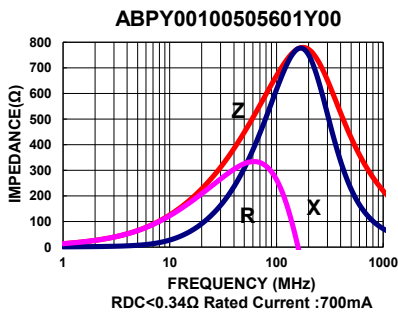
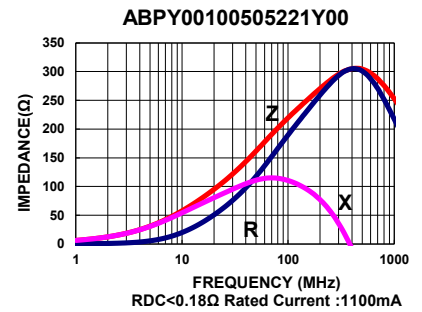
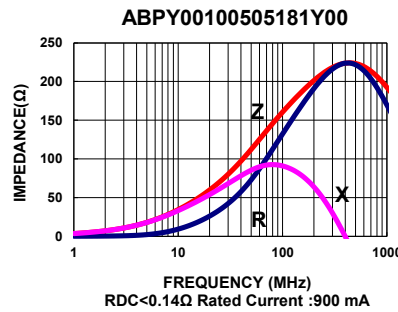
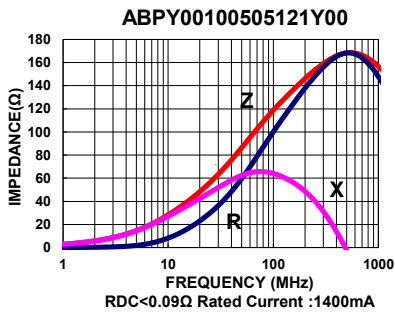
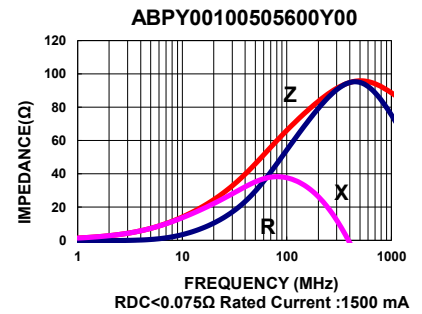
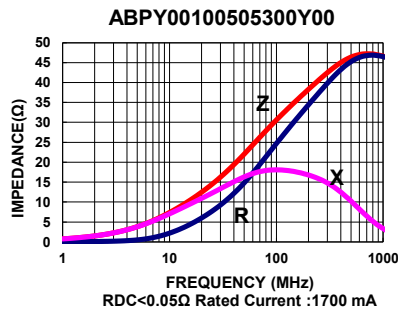
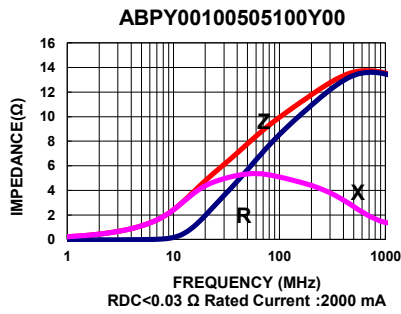
Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABPY00100505100Y00	10	100 MHz,200 mV	0.030	2000
ABPY00100505300Y00	30	100 MHz,200 mV	0.050	1700
ABPY00100505600Y00	60	100 MHz,200 mV	0.075	1500
ABPY00100505121Y00	120	100 MHz,200 mV	0.090	1400
ABPY00100505181Y00	180	100 MHz,200 mV	0.140	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°C ~ 125°C
2. Rate Current : Applied the current to coils, the temperature rise shall not be more than 30°C
3. Measure Equipment:
Z: HP4291A
RDC: HP4338B or CHEN HWA 502

ABPY00100505 Type

Characteristics Graph

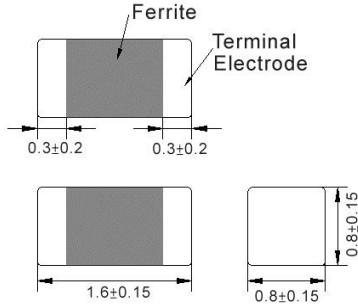


Chip Bead ABPY Series

Automotive
AEC-Q200

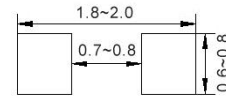
ABPY00160808 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

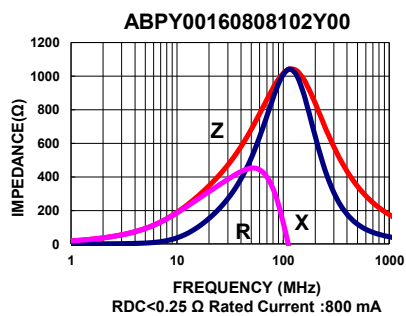
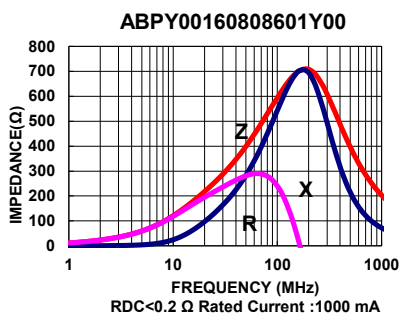
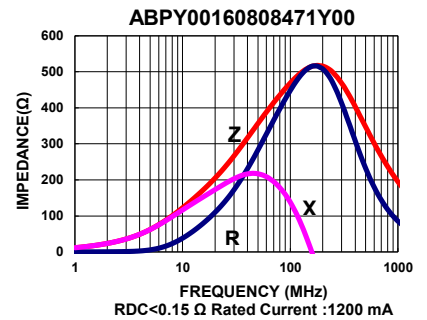
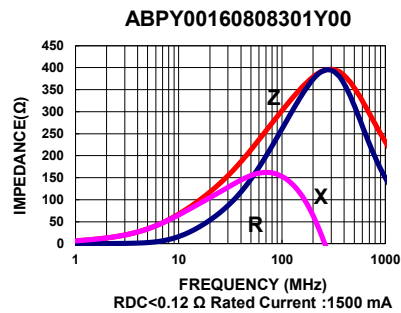
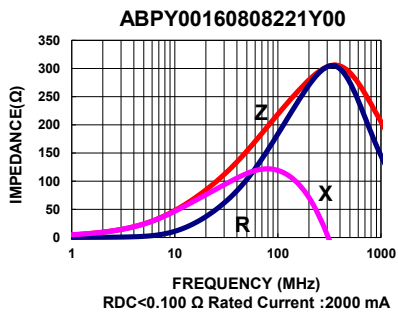
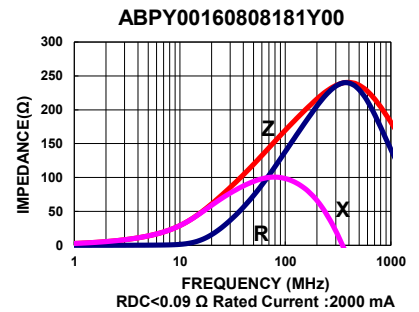
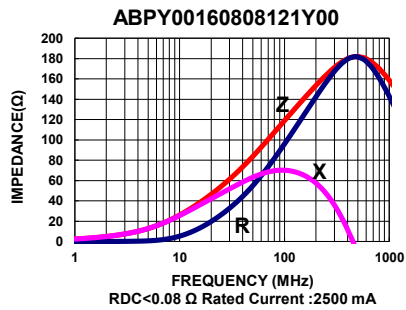
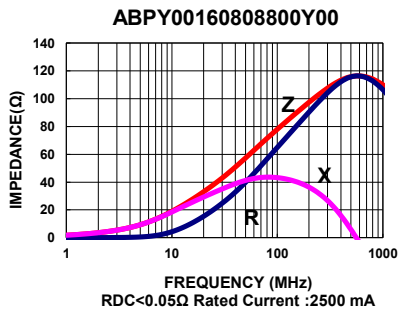
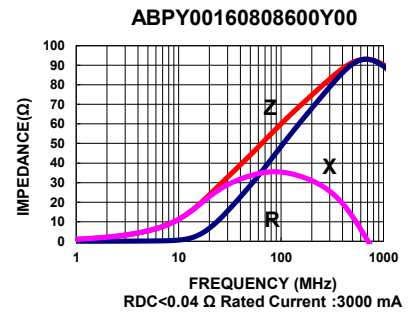
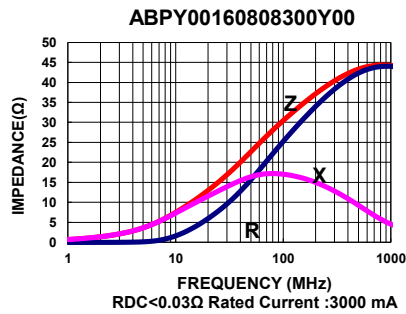
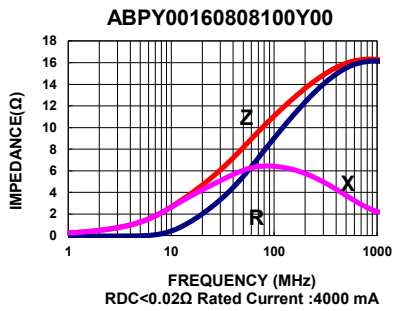
Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABPY00160808100Y00	10	100 MHz, 200 mV	0.020	4000
ABPY00160808300Y00	30	100 MHz, 200 mV	0.030	3000
ABPY00160808600Y00	60	100 MHz, 200 mV	0.040	3000
ABPY00160808800Y00	80	100 MHz, 200 mV	0.050	2500
ABPY00160808121Y00	120	100 MHz, 200 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°C ~ 125°C
2. Rate Current : Applied the current to coils, the temperature rise shall not be more than 30°C
3. Measure Equipment:
 - Z: HP4291A
 - RDC: HP4338B or CHEN HWA 502

ABPY00160808 Type

Characteristics Graph

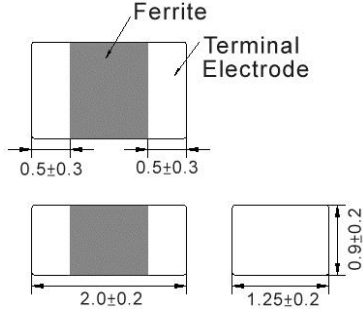


Chip Bead ABPY Series

**Automotive
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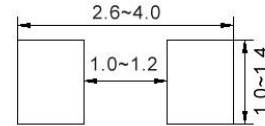
ABPY00201209 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

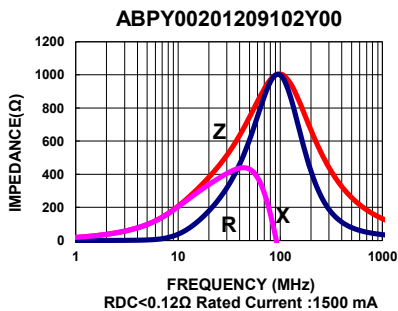
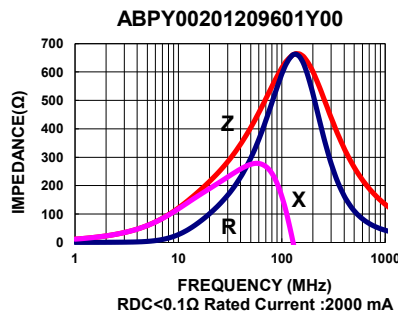
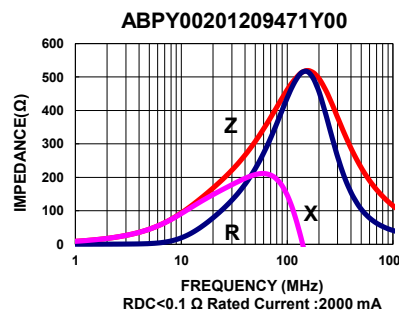
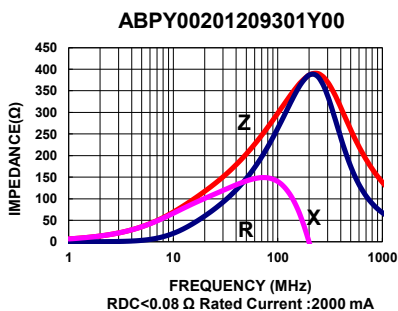
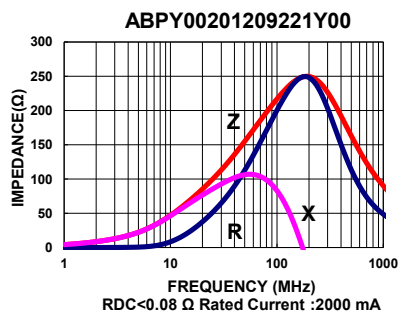
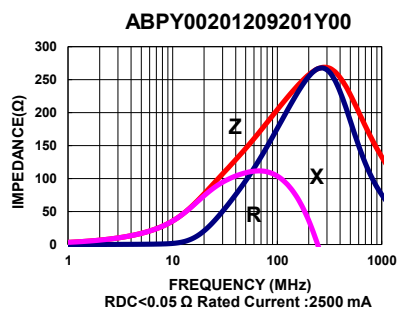
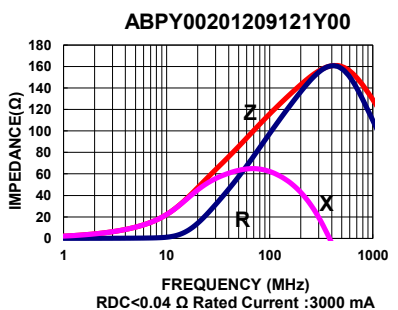
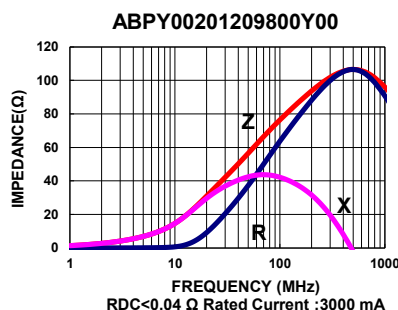
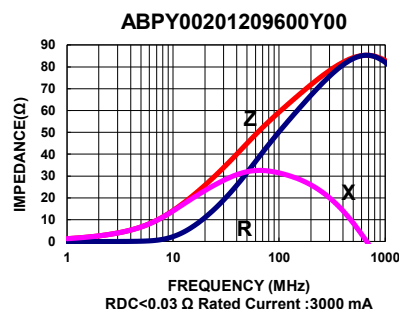
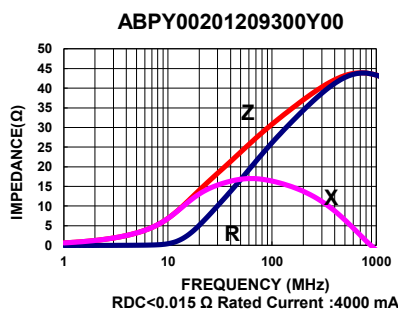
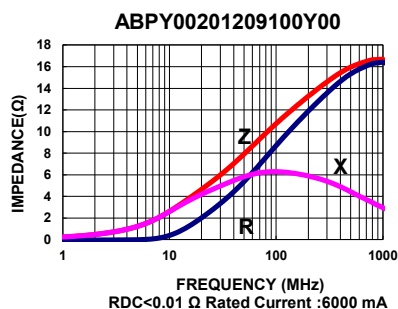
Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABPY00201209100Y00	10	100 MHz,200 mV	0.010	6000
ABPY00201209300Y00	30	100 MHz,200 mV	0.015	4000
ABPY00201209600Y00	60	100 MHz,200 mV	0.030	3000
ABPY00201209800Y00	80	100 MHz,200 mV	0.040	3000
ABPY00201209121Y00	120	100 MHz,200 mV	0.040	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°C ~ 125°C
2. Rate Current : Applied the current to coils, the temperature rise shall not be more than 30°C
3. Measure Equipment:
Z: HP4291A
RDC: HP4338B or CHEN HWA 502

ABPY00201209 Type

Characteristics Graph

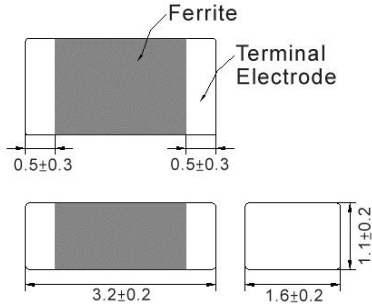


Chip Bead ABPY Series

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AEC-Q200

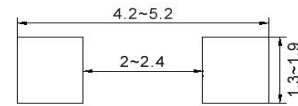
ABPY00321611 Type

■ 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	100 MHz,200 mV	0.150	1200

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

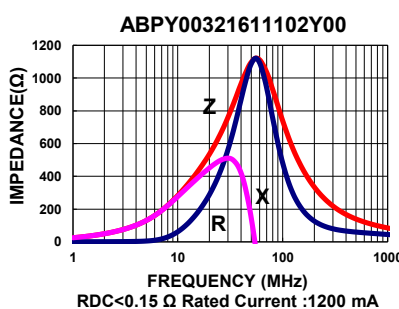
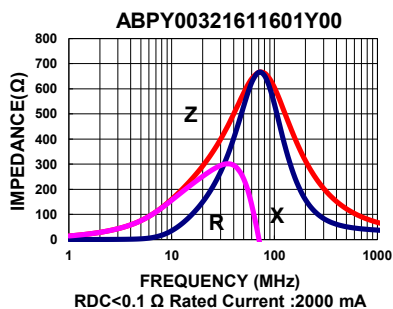
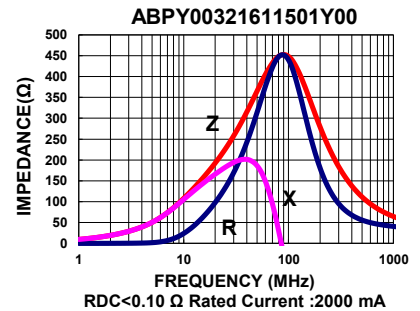
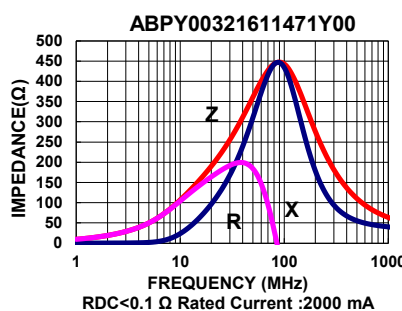
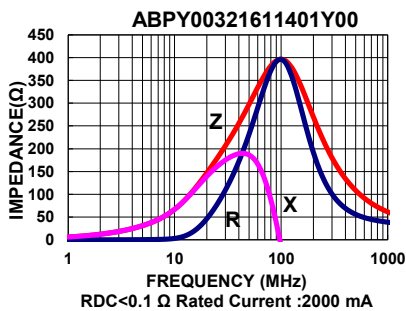
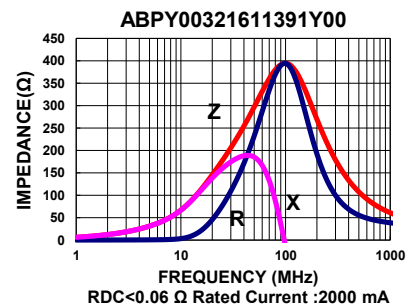
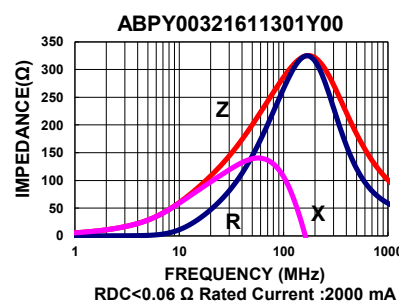
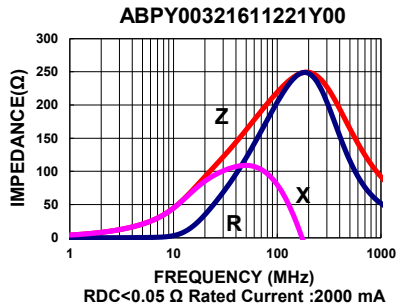
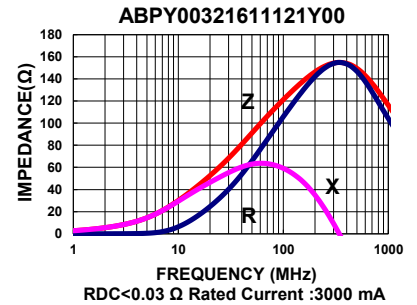
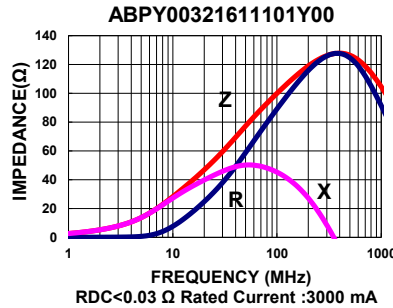
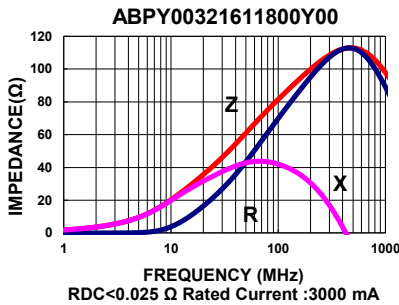
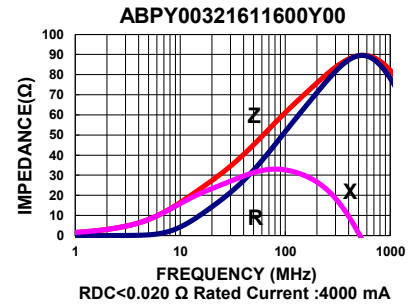
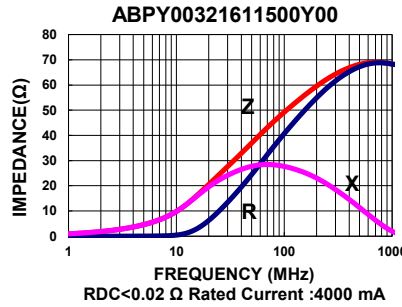
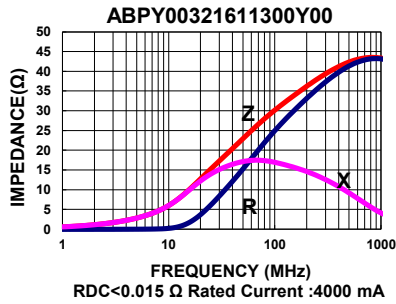
1. Operating temperature range - 55°C ~ 125°C
2. Rate Current : Applied the current to coils, the temperature rise shall not be more than 30°C
3. Measure Equipment:
Z: HP4291A
RDC: HP4338B or CHEN HWA 502

Chip Bead ABPY Series

Automotive
AEC-Q200

ABPY00321611 Type

Characteristics Graph

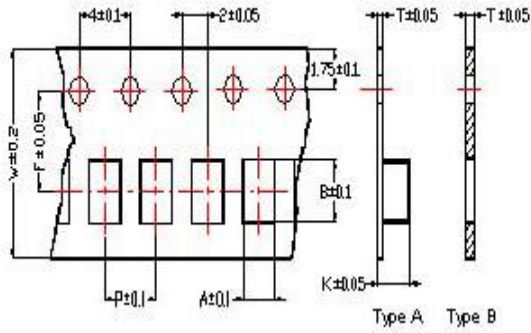


Chip Bead ABPY Series

**Automotive
AEC-Q200**

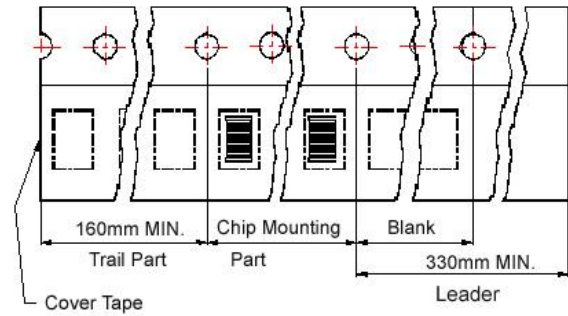
■ Packaging

Tape Dimensions

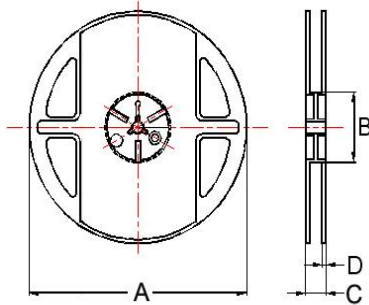


Tape Material

Carrier Tape: Polycarbonate (Tape A)
Carrier Tape: Paper (Tape B)
Cover Tape: Polystyrene



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

Chip Bead ABUP Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



Noise
Suppression

Shield

Multilayer

Ferrite

High
Current

Part Numbering

A	BU P	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			

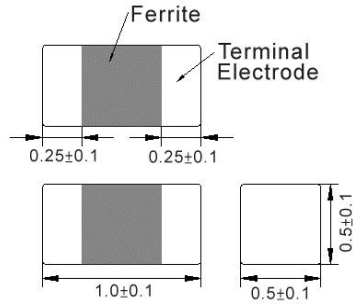
This specification applies to Multilayer Chip ferrite Bead for Automotive Electronics based on AEC-Q200 except for Power train and Safety.

Chip Bead ABUP Series

Automotive
AEC-Q200

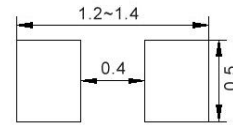
ABUP00100505 Type

■ 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%

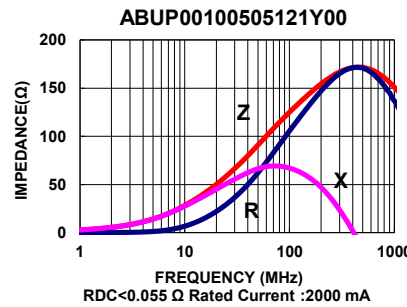
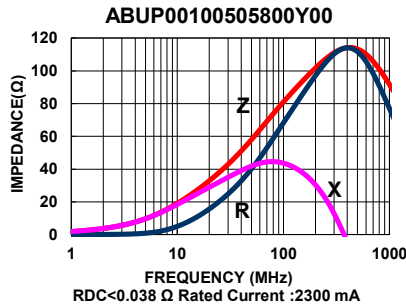
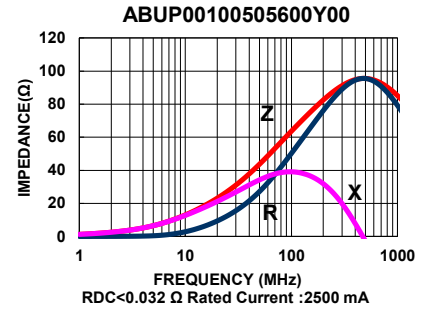
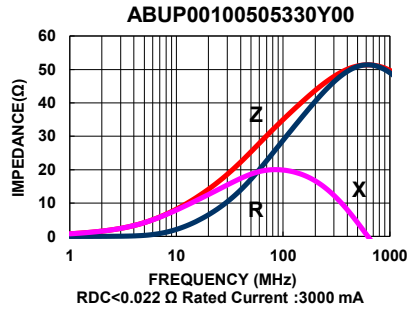
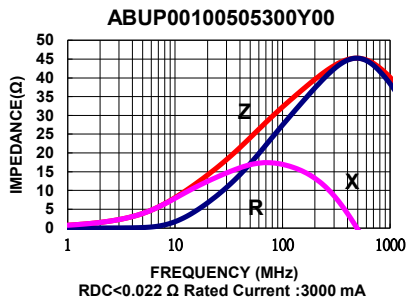
- Operating temperature range - 55°C ~ 125°C
- Rate Current : Applied the current to coils, the temperature rise shall not be more than 30°C
- Measure Equipment:
Z: HP4291A
RDC: HP4338B or CHEN HWA 502

Chip Bead ABUP Series

Automotive
AEC-Q200

ABUP00100505 Type

■ Characteristics Graph

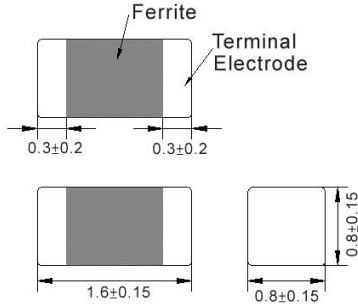


Chip Bead ABUP Series

**Automotive
AEC-Q200**

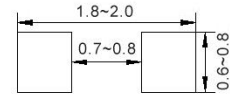
ABUP00160808 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

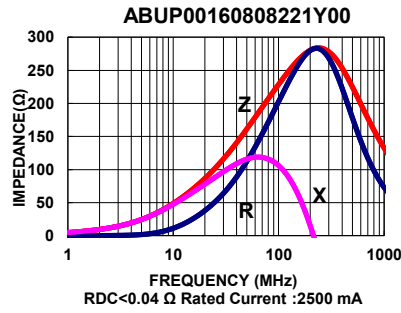
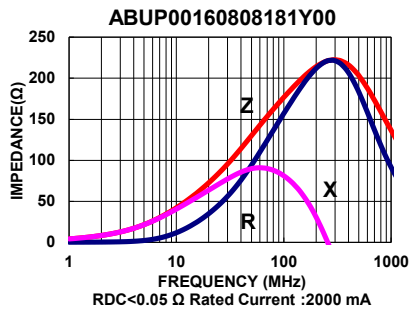
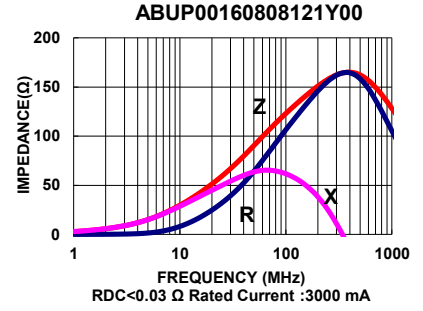
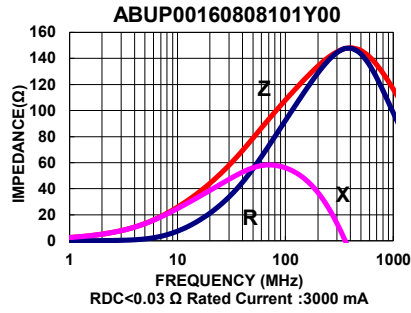
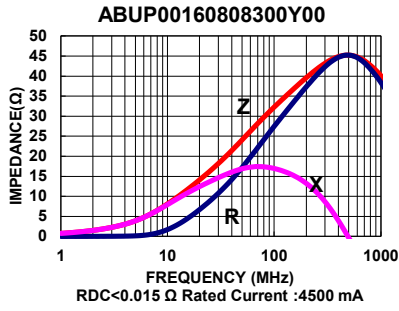
Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABUP00160808300Y00	30	100 MHz,200 mV	0.015	4500
ABUP00160808101Y00	100	100 MHz,200 mV	0.030	3000
ABUP00160808121Y00	120	100 MHz,200 mV	0.030	3000
ABUP00160808181Y00	180	100 MHz,200 mV	0.050	2000
ABUP00160808221Y00	220	100 MHz,200 mV	0.040	2500

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

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

ABUP00160808 Type

■ Characteristics Graph

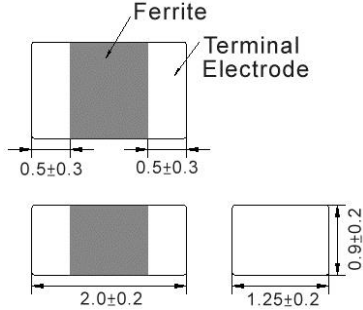


Chip Bead ABUP Series

**Automotive
AEC-Q200**

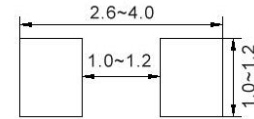
ABUP00201209 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

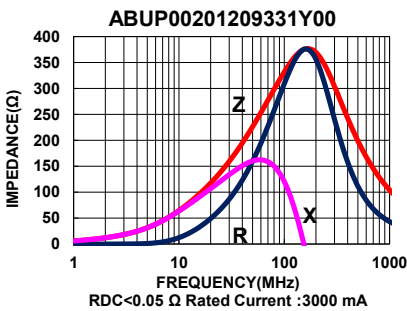
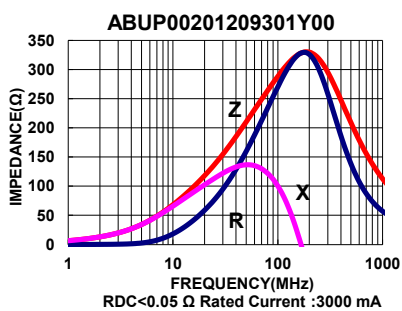
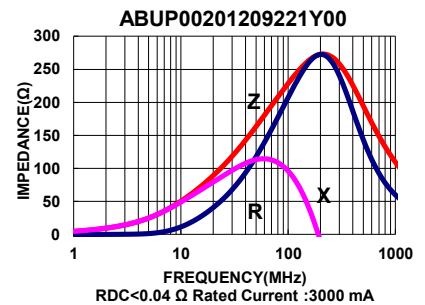
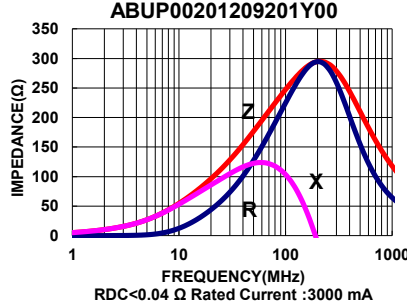
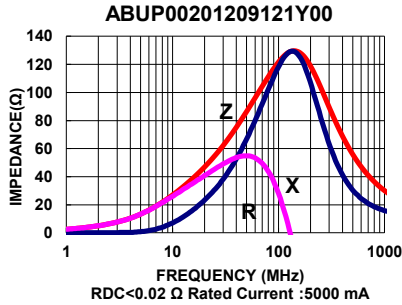
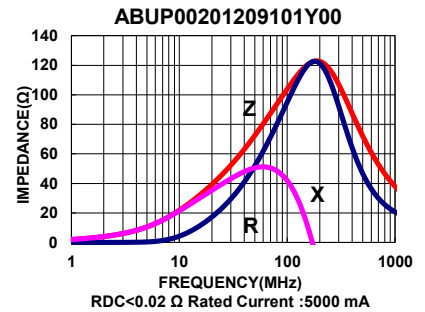
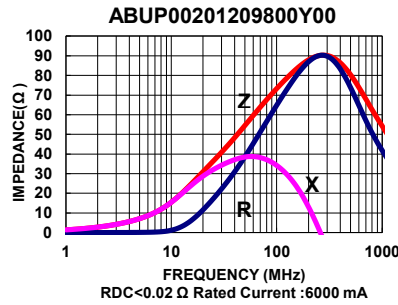
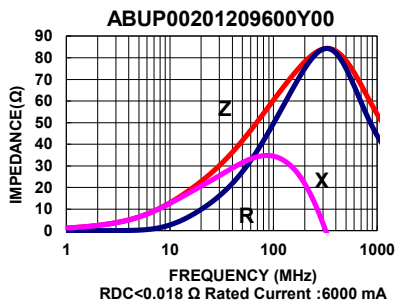
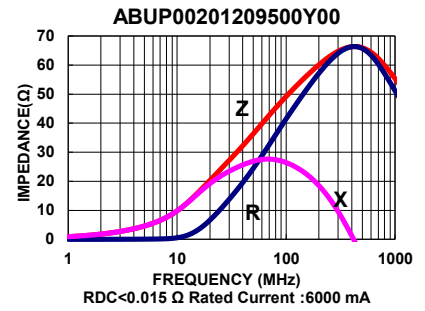
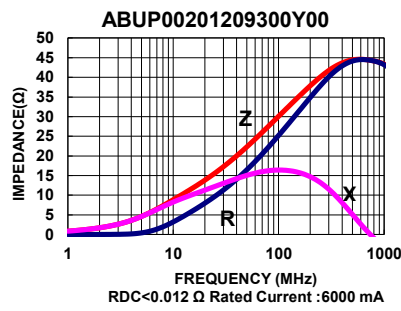
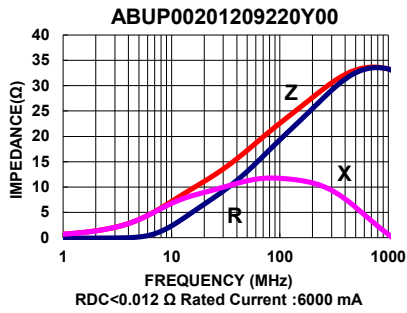
Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABUP00201209220Y00	22	100 MHz,200 mV	0.012	6000
ABUP00201209300Y00	30	100 MHz,200 mV	0.012	6000
ABUP00201209500Y00	50	100 MHz,200 mV	0.015	6000
ABUP00201209600Y00	60	100 MHz,200 mV	0.018	6000
ABUP00201209800Y00	80	100 MHz,200 mV	0.020	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°C ~ 125°C
2. Rate Current : Applied the current to coils, the temperature rise shall not be more than 30°C
3. Measure Equipment:
Z: HP4291A
RDC: HP4338B or CHEN HWA 502

ABUP00201209 Type

Characteristics Graph

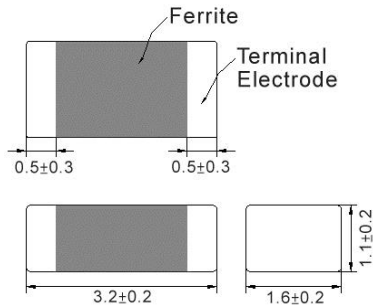


Chip Bead ABUP Series

Automotive
AEC-Q200

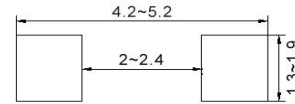
ABUP00321611 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

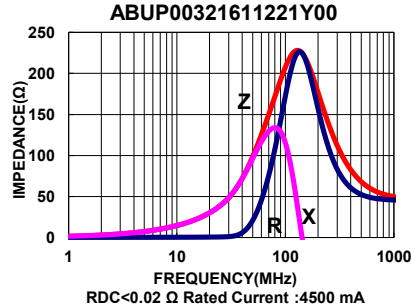
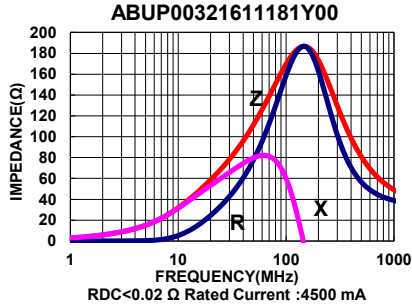
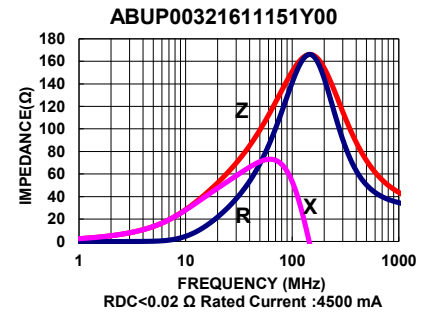
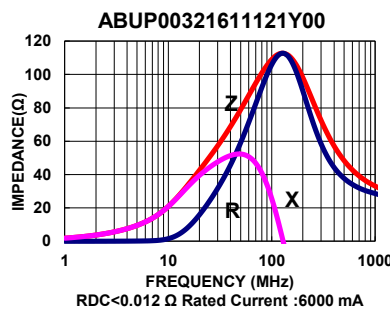
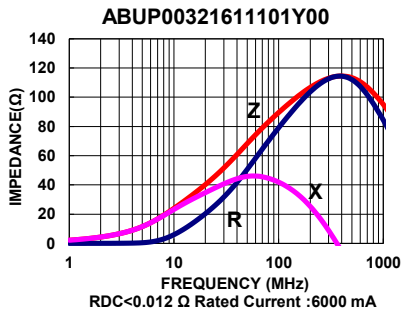
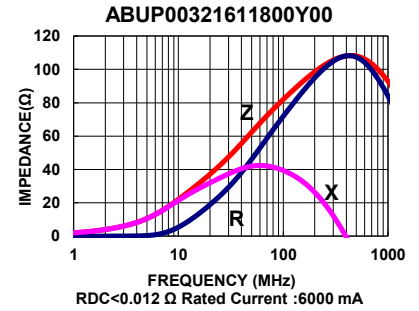
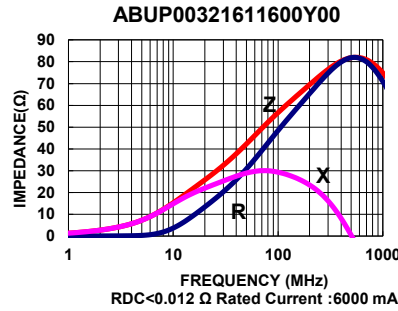
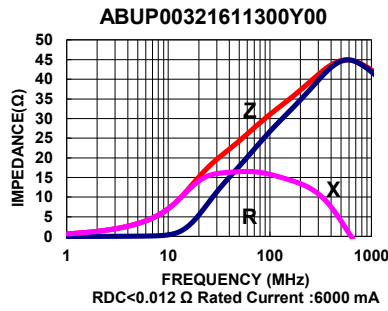
Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABUP00321611300Y00	30	100 MHz, 200 mV	0.012	6000
ABUP00321611600Y00	60	100 MHz, 200 mV	0.012	6000
ABUP00321611800Y00	80	100 MHz, 200 mV	0.012	6000
ABUP00321611101Y00	100	100 MHz, 200 mV	0.012	6000
ABUP00321611121Y00	120	100 MHz, 200 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%

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

ABUP00321611 Type

Characteristics Graph

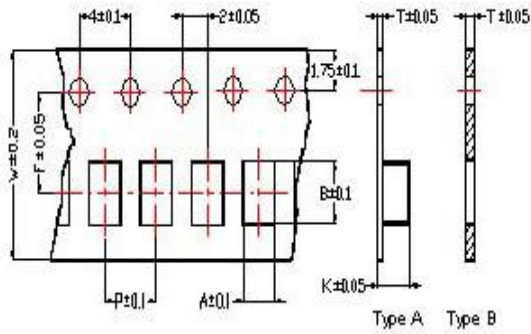


Chip Bead ABUP Series

**Automotive
AEC-Q200**

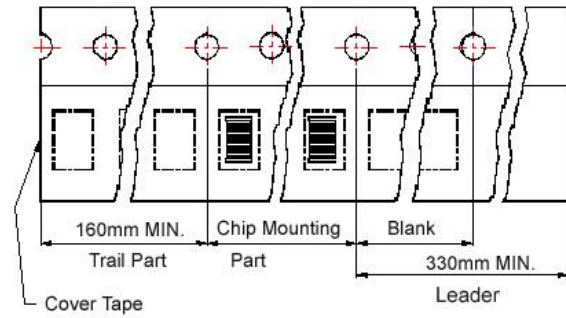
■ Packaging

Tape Dimensions

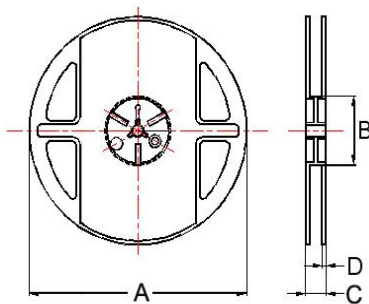


Tape Material

Carrier Tape: Polycarbonate (Tape A)
Carrier Tape: Paper (Tape B)
Cover Tape: Polystyrene



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

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		

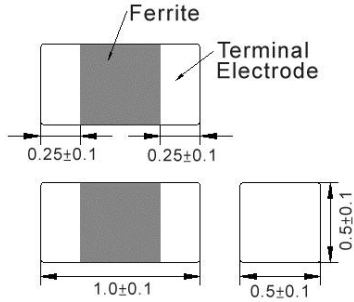
This specification applies to Multilayer Chip ferrite Bead for Automotive Electronics based on AEC-Q200 except for Power train and Safety.

Chip Bead ABNQ Series

**Automotive
AEC-Q200**

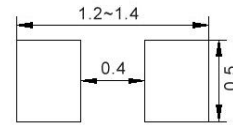
ABNQ00100505 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

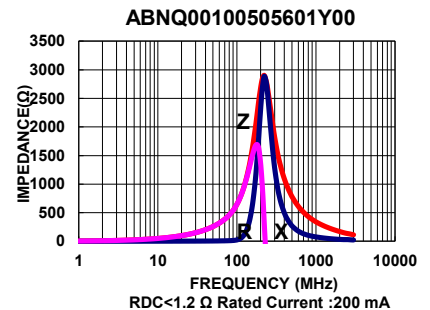
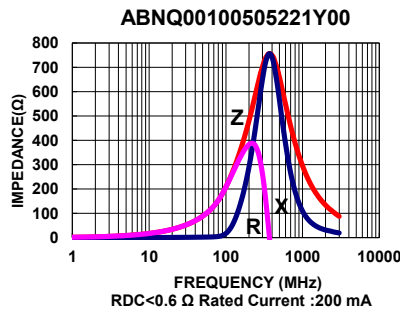
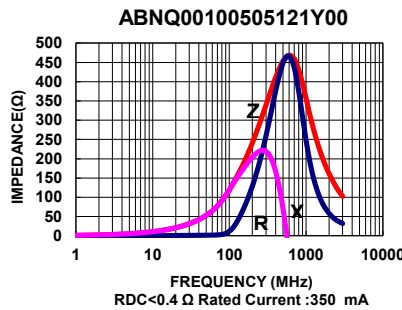
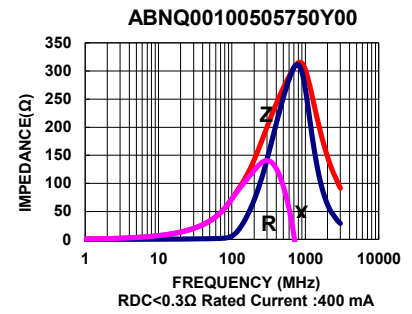
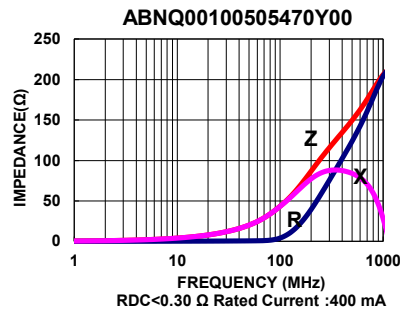
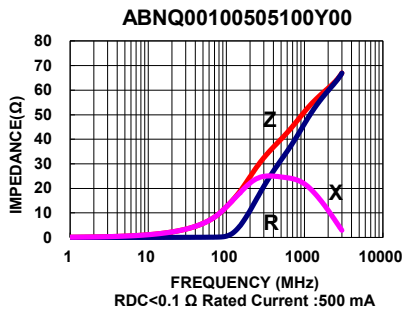
Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABNQ00100505100Y00	10	100 MHz, 200 mV	0.10	500
ABNQ00100505470Y00	47	100 MHz, 200 mV	0.30	400
ABNQ00100505750Y00	75	100 MHz, 200 mV	0.30	400
ABNQ00100505121Y00	120	100 MHz, 200 mV	0.40	350
ABNQ00100505221Y00	220	100 MHz, 200 mV	0.60	200
ABNQ00100505601Y00	600	100 MHz, 200 mV	1.20	200

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

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

ABNQ00100505 Type

■ Characteristics Graph

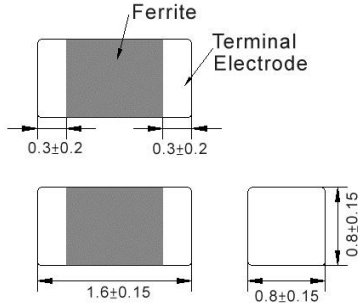


Chip Bead ABNQ Series

**Automotive
AEC-Q200**

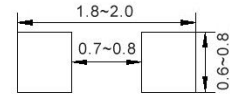
ABNQ00160808 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

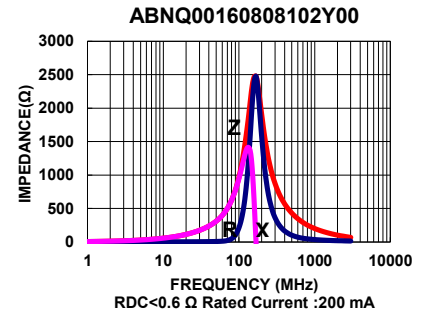
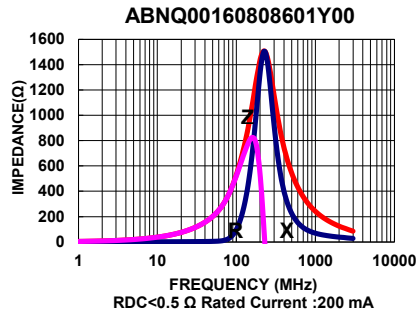
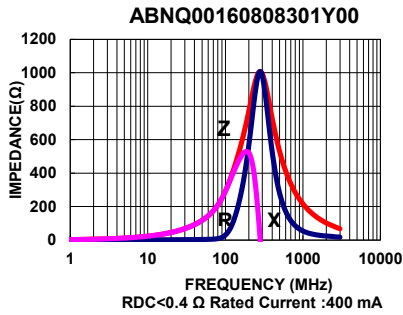
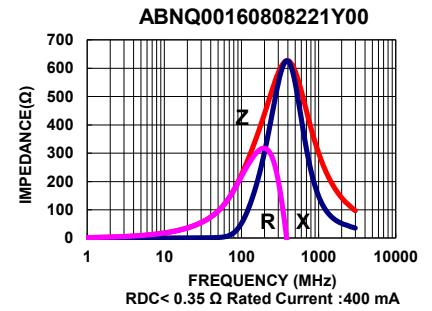
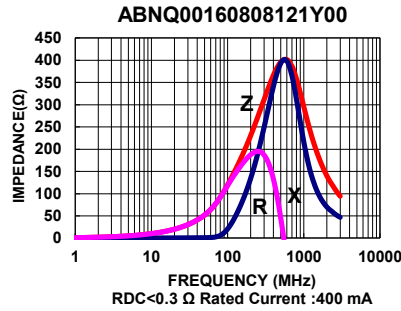
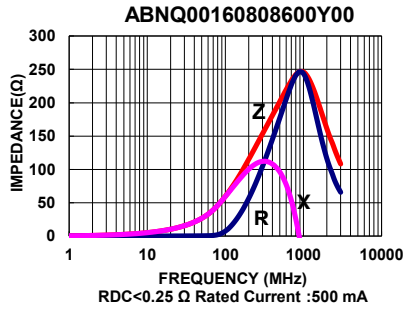
Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABNQ00160808600Y00	60	100 MHz,200 mV	0.25	500
ABNQ00160808121Y00	120	100 MHz,200 mV	0.30	400
ABNQ00160808221Y00	220	100 MHz,200 mV	0.35	400
ABNQ00160808301Y00	300	100 MHz,200 mV	0.40	400
ABNQ00160808601Y00	600	100 MHz,200 mV	0.50	200
ABNQ00160808102Y00	1000	100 MHz,200 mV	0.60	200

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

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

ABNQ00160808 Type

■ Characteristics Graph

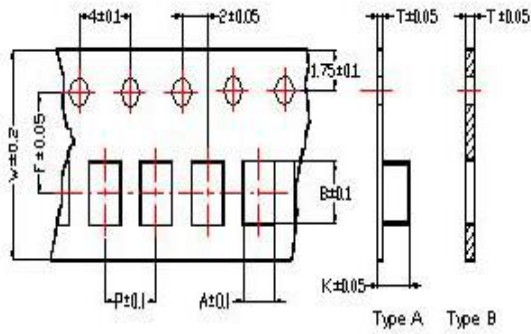


Chip Bead ABNQ Series

**Automotive
AEC-Q200**

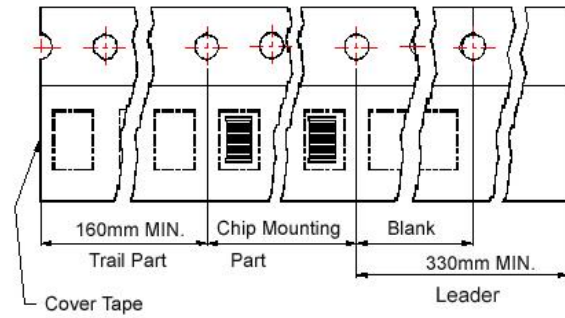
■ Packaging

Tape Dimensions

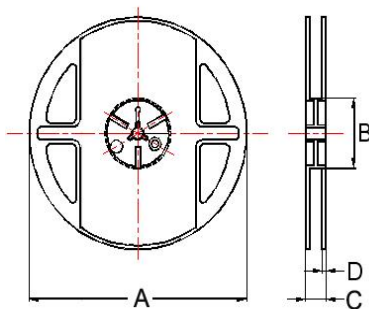


Tape Material

Carrier Tape: Polycarbonate (Tape A)
Carrier Tape: Paper (Tape B)
Cover Tape: Polystyrene



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

Chip Bead ABFJ Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



Noise
Suppression

Shield

Multilayer

Ferrite

High speed
Signal line

Part Numbering

A	BFJ	00	100505	601	Y	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Impedance (Ω)	Tolerance	Internal Code
			100505 1.0x0.5x0.5	601 600 102 1000	Y ±25%	

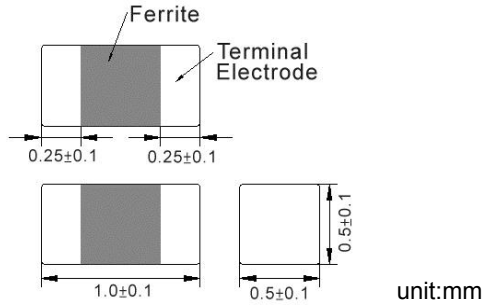
This specification applies to Multilayer Chip ferrite Bead for Automotive Electronics based on AEC-Q200 except for Power train and Safety.

Chip Bead ABFJ Series

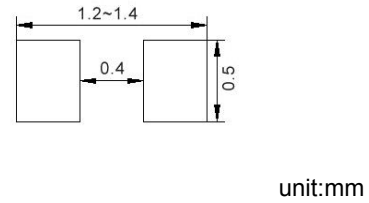
**Automotive
AEC-Q200**

ABFJ00100505 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Impedance (Ω) $\pm 25\%$	Impedance (Ω) $\pm 40\%$	Test Freq. (MHz)	RDC (Ω)Max.	Rated Current (mA)Max.
ABFJ00100505601Y00	600	1400	100/1000	0.85	300
ABFJ00100505102Y00	1000	2000	100/1000	1.25	250

Note: When ordering, please specify tolerance code. Tolerance: Y= $\pm 25\%$

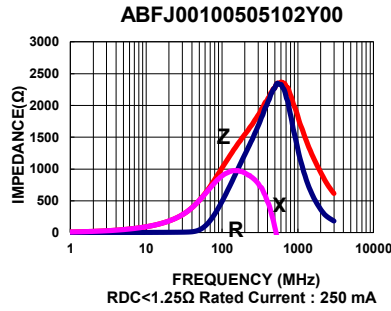
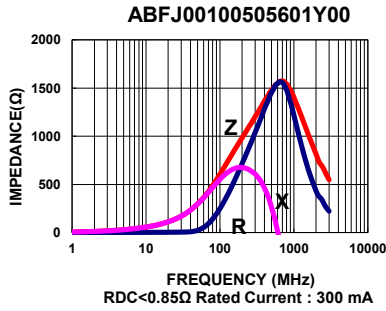
1. Operating temperature range - $55^{\circ}\text{C} \sim 125^{\circ}\text{C}$
2. Rate Current : Applied the current to coils, the temperature rise shall not be more than 30°C
3. Measure Equipment:
Z: HP4291A
RDC: HP4338B or CHEN HWA 502

Chip Bead ABFJ Series

Automotive
AEC-Q200

ABFJ00100505 Type

■ Characteristics Graph

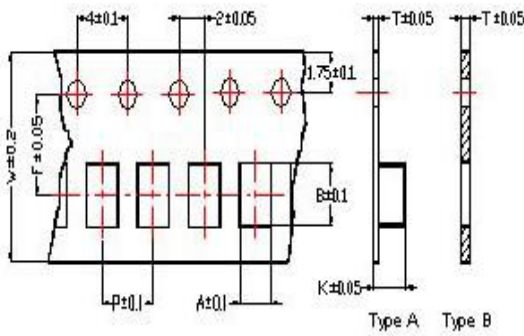


Chip Bead ABFJ Series

**Automotive
AEC-Q200**

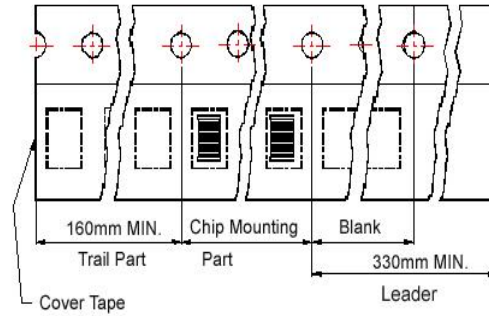
■ Packaging

Tape Dimensions

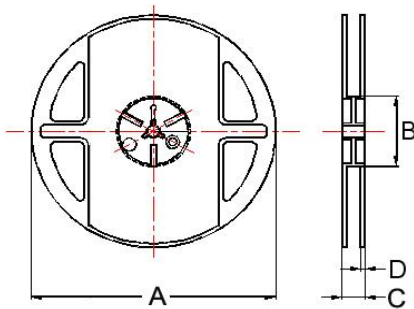


Tape Material

Carrier Tape: Polycarbonate (Tape A)
Carrier Tape: Paper (Tape B)
Cover Tape: Polystyrene



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
ABFJ00100505	0.62	1.12	0.60	8	2	3.5	-	B	178	60	12	2	10000

Common 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

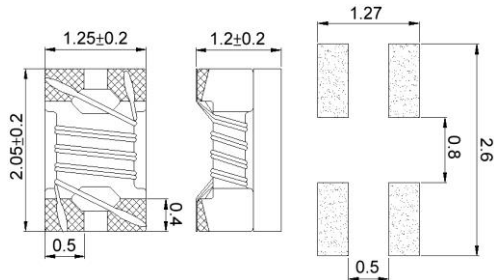
A	WCU	00	453226	510	X	G0
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			3.3x2.5x2.3	110 11	T ±30%	G0
			3.3x2.5x2.5	510 51	X -	TE
			4.5x3.2x2.6	101 100		T2
			4.5x3.2x2.8			MF

Common Mode Choke AWCU Series

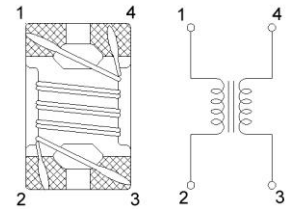
**Automotive
AEC-Q200**

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
AWCU00201212670□02	67	100	0.25	400	50	125	10	20
AWCU00201212750□02	75	100	0.3	360	50	125	10	20
AWCU00201212900□02	90	100	0.35	330	50	125	10	20
AWCU00201212121□02	120	100	0.3	400	50	125	10	20
AWCU00201212161□02	160	100	0.35	350	50	125	10	20
AWCU00201212181□02	180	100	0.35	330	50	125	10	20
AWCU00201212201□02	200	100	0.35	330	50	125	10	20
AWCU00201212221□02	220	100	0.35	310	50	125	10	20
AWCU00201212261□02	260	100	0.4	300	50	125	10	20
AWCU00201212301□02	300	100	0.4	290	50	125	10	20
AWCU00201212361□02	360	100	0.45	280	50	125	10	20
AWCU00201212371□02	370	100	0.45	280	50	125	10	20
AWCU00201212501□02	500	100	0.55	170	50	125	10	20
AWCU00201212671□02	670	100	0.6	140	50	125	10	20
AWCU00201212901□02	900	100	0.6	80	50	125	10	20

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

1. Operating temperature range - 50°C ~ 150°C(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)

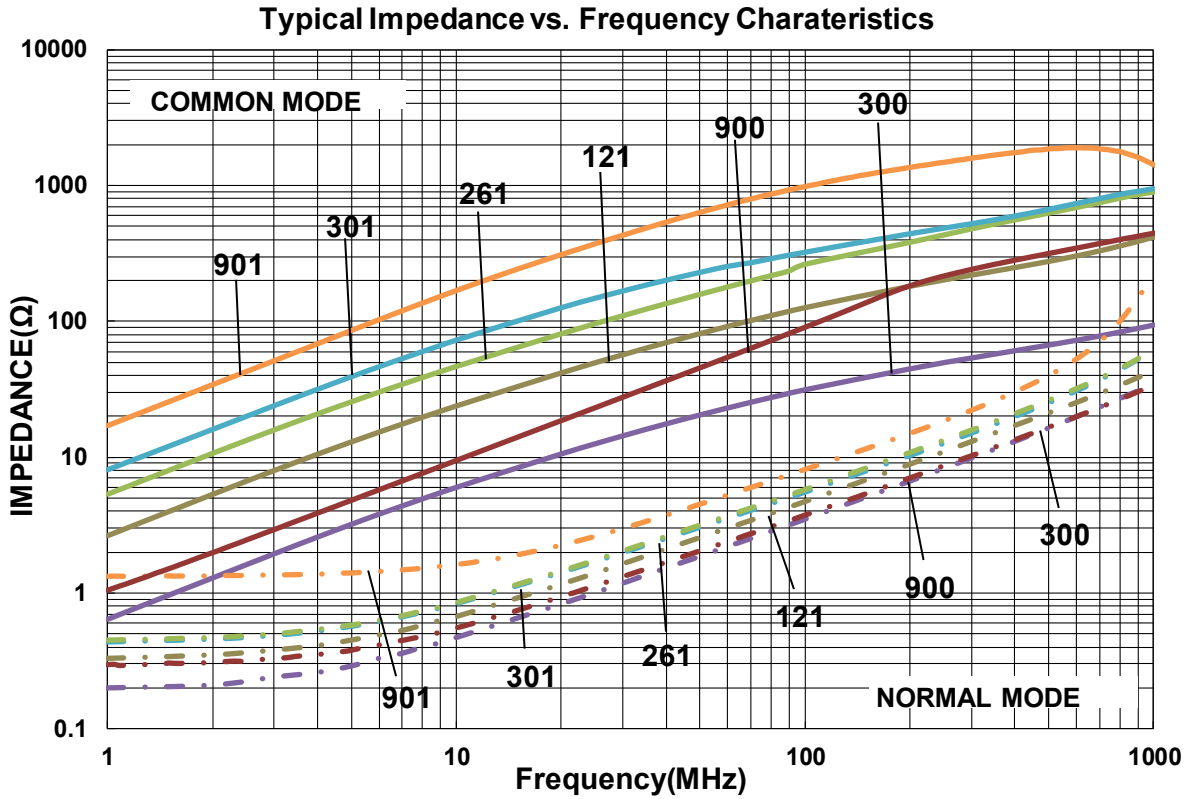
IDC: HP4284A+HP42841A/HP4285A+HP42841A

Common Mode Choke AWCU Series

**Automotive
AEC-Q200**

AWCU00201212-02 Type

Characteristics Graph

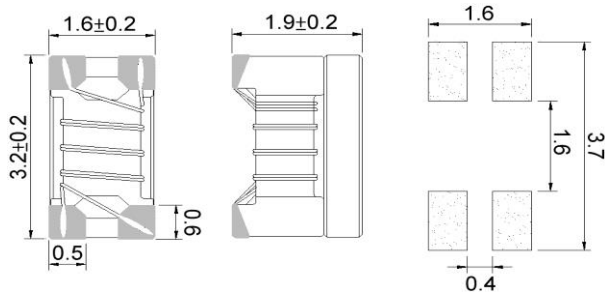


Common Mode Choke AWCU Series

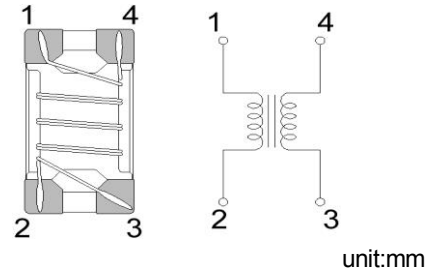
**Automotive
AEC-Q200**

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%

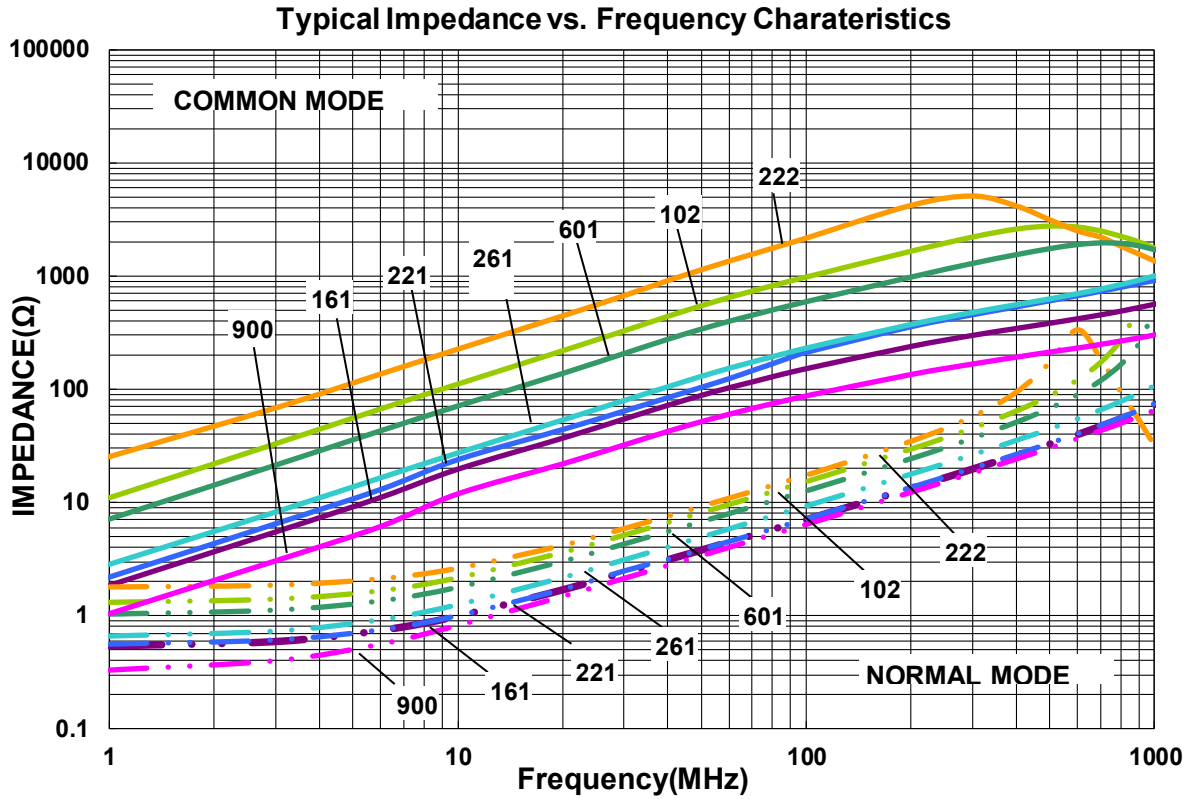
1. Operating temperature range - 50°C ~ 150°C(Including self - temperature rise)
2. RDC: SINGLE WIRE TEST VALUE
3. IDC for Inductance drop 10% from its value without current.
4. Measure Equipment:
 Z: Agilent HP4287A+Agilent 16197A
 RDC: Chroma 16502 (Single Wire Test Value)
 IDC: HP4284A+HP42841A/HP4285A+HP42841A

Common Mode Choke AWCU Series

**Automotive
AEC-Q200**

AWCU00321619-02 Type

Characteristics Graph



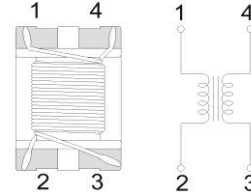
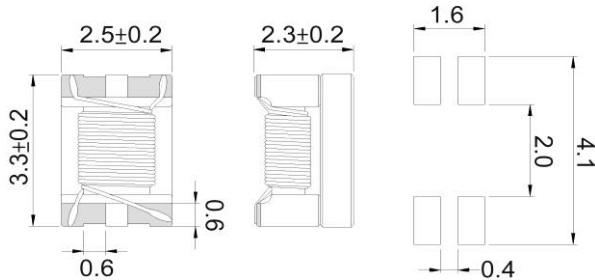
Common Mode Choke AWCU Series

**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°C ~ 150°C(Including self - temperature rise)
2. RDC: SINGLE WIRE TEST VALUE
3. Iirms for 15°C rise above 25°C ambient.
4. Measure Equipment:
 L: HP4284A+HP42841A/HP4285A+HP42841A
 RDC: CHROMA MILLIOM METER MODE 16502
 Iirms: 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°C ~ 125°C(Including self - temperature rise)
2. RDC: SINGLE WIRE TEST VALUE
3. Iirms for 15°C rise above 25°C ambient.
4. Measure Equipment:
 L: HP4284A+HP42841A/HP4285A+HP42841A
 RDC: CHROMA MILLIOM METER MODE 16502
 Iirms: HP4284A+HP42841A/HP4285A+HP42841A
 Insulation Resistance: HP4339B

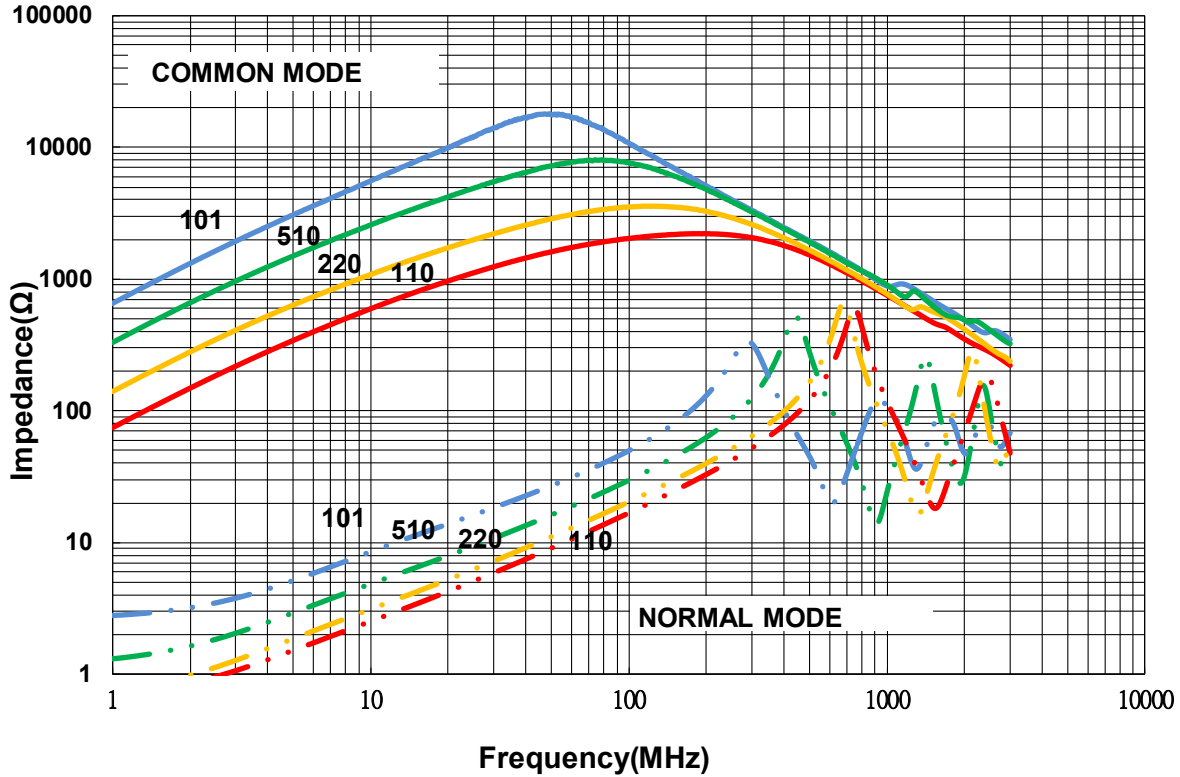
Common Mode Choke AWCU Series

**Automotive
AEC-Q200**

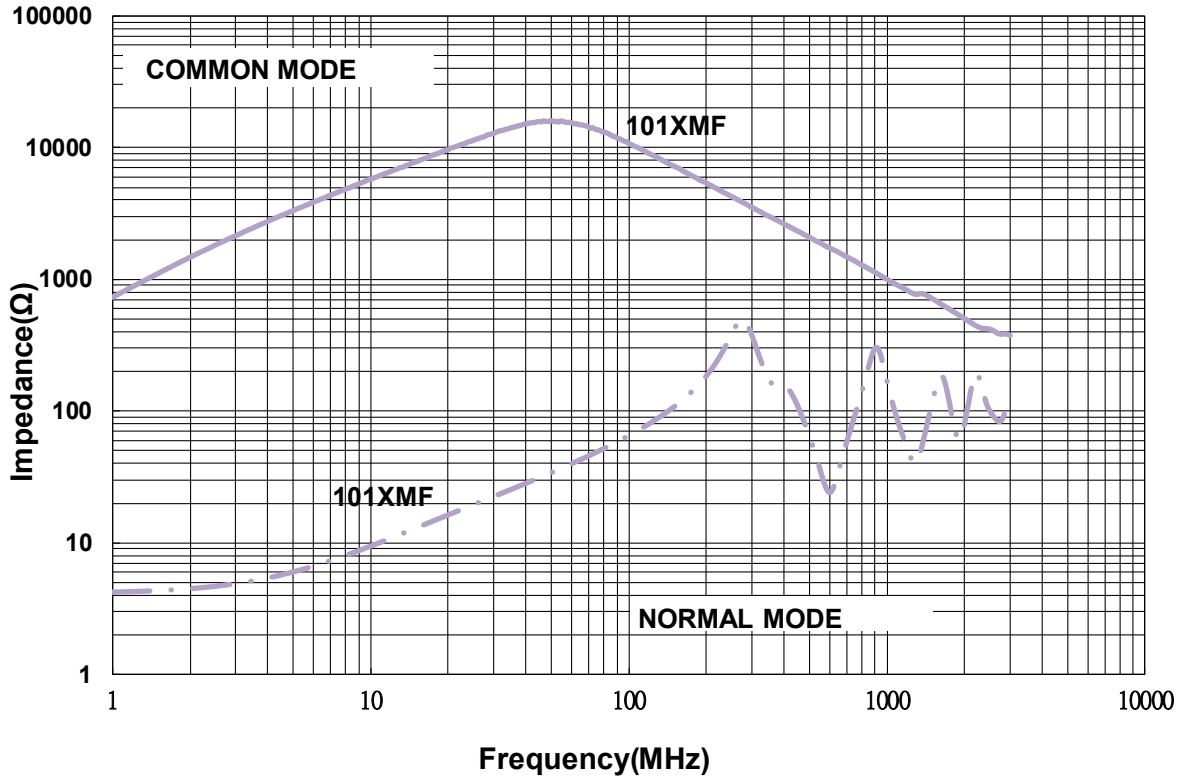
AWCU00332523 Type

Characteristics Graph

Typical Impedance vs. Frequency Charateristics



Typical Impedance vs. Frequency Charateristics



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.

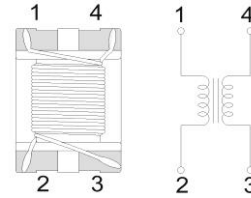
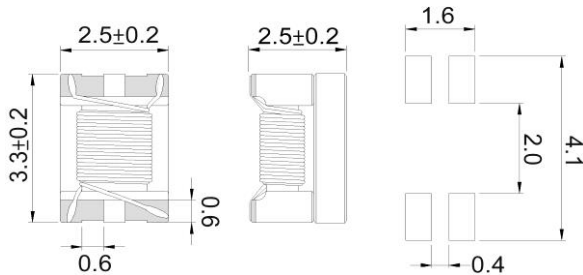
Common Mode Choke AWCU Series

**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°C ~ 150°C(Including self - temperature rise)
2. RDC: SINGLE WIRE TEST VALUE
3. I_{rms} for 15°C rise above 25°C ambient.
4. Measure Equipment:
 L: HP4284A+HP42841A/HP4285A+HP42841A
 RDC: CHROMA MILLIOM METER MODE 16502
 I_{rms}: HP4284A+HP42841A/HP4285A+HP42841A
 Insulation Resistance: HP4339B

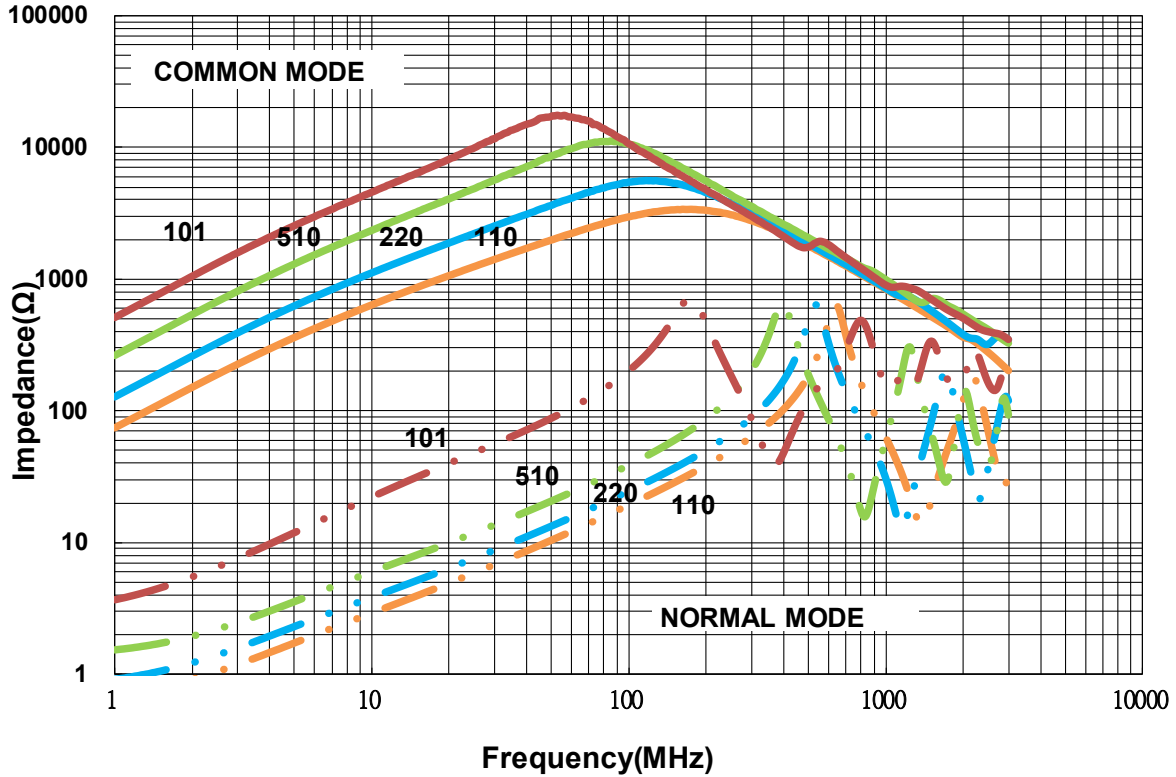
Common Mode Choke AWCU Series

**Automotive
AEC-Q200**

AWCU00332525 Type

Characteristics Graph

Typical Impedance vs. Frequency Charateristics

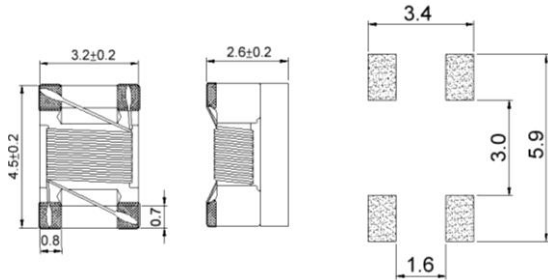


Common Mode Choke AWCU Series

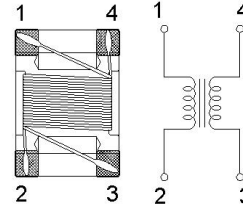
**Automotive
AEC-Q200**

AWCU00453226-T2 Type

■ Dimensions/Recommended Land Pattern



■ NO Polarity Equivalent circuit



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	Impedance (Ω)		Test Freq. (MHz)	RDC (Ω) Max.	I _{rms} (mA) Max.	Rated Voltage (Vdc)Max.	Withstanding Voltage (Vdc)	Insulation Resistance (MΩ)Min.	Tol. (±%)
			Min.	Typ.							
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°C ~ 150°C(Including self - temperature rise)
2. RDC: SINGLE WIRE TEST VALUE
3. I_{rms} for 40°C rise above 25°C ambient.
4. Measure Equipment:
 Z: HP4286A / HP4287A / AgilentE4991A
 L: HP4284A+HP42841A/HP4285A+HP42841A
 RDC: CHROMA MILLIOM METER MODE 16502
 I_{rms}: HP4284A+HP42841A/HP4285A+HP42841A
 Insulation Resistance: HP4339B

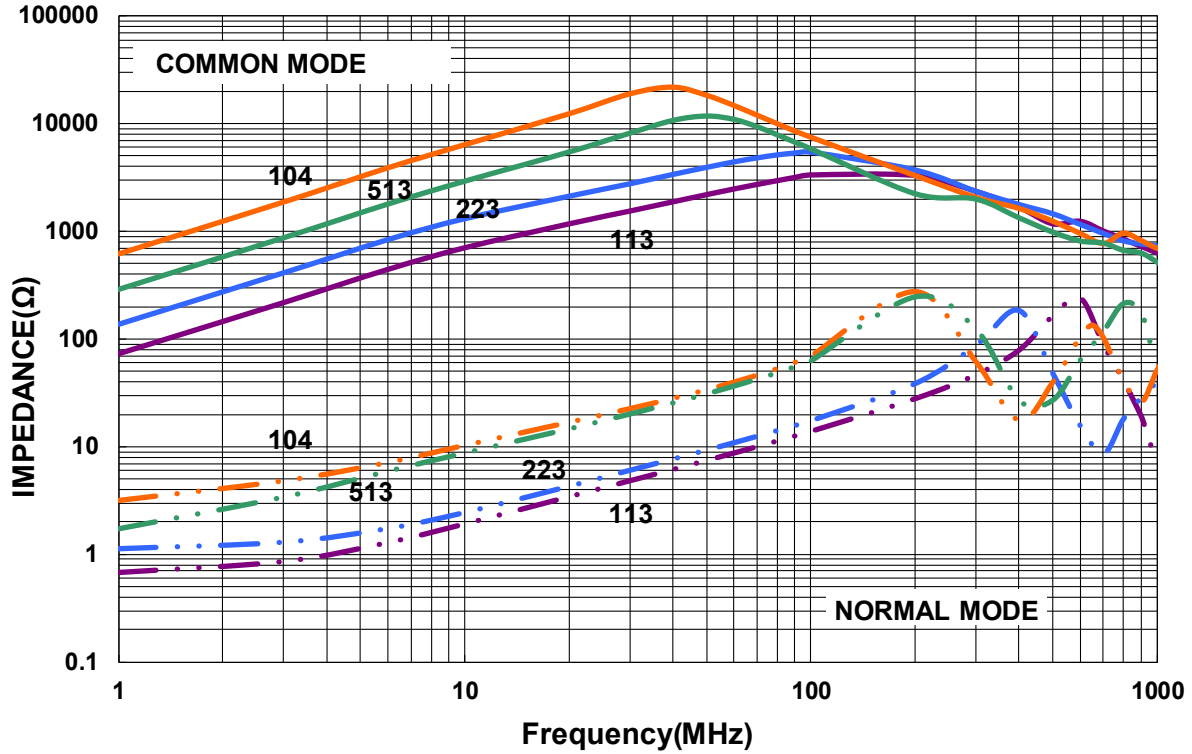
Common Mode Choke AWCU Series

**Automotive
AEC-Q200**

AWCU00453226-T2 Type

Characteristics Graph

Typical Impedance vs. Frequency Characteristics

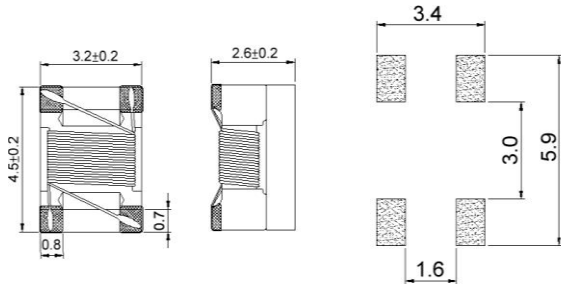


Common Mode Choke AWCU Series

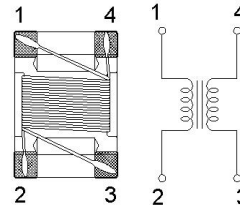
**Automotive
AEC-Q200**

AWCU00453226-M2 Type

■ Dimensions/Recommended Land Pattern



■ NO Polarity Equivalent circuit



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	I _{rms} (mA)Max.	Rated Voltage (Vdc)Max.	Withstanding Voltage (Vdc)	Insulation Resistance (MΩ)Min.	Tolerance (±%)
AWCU00453226113□M2	11	100kHz,100mV	0.5	360	50	125	10	30
AWCU00453226223□M2	22	100kHz,100mV	0.6	310	50	125	10	30
AWCU00453226513□M2	51	1MHz,200mV	1	230	50	125	10	30
AWCU00453226104□M2	100	1MHz,200mV	2	200	50	125	10	30

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

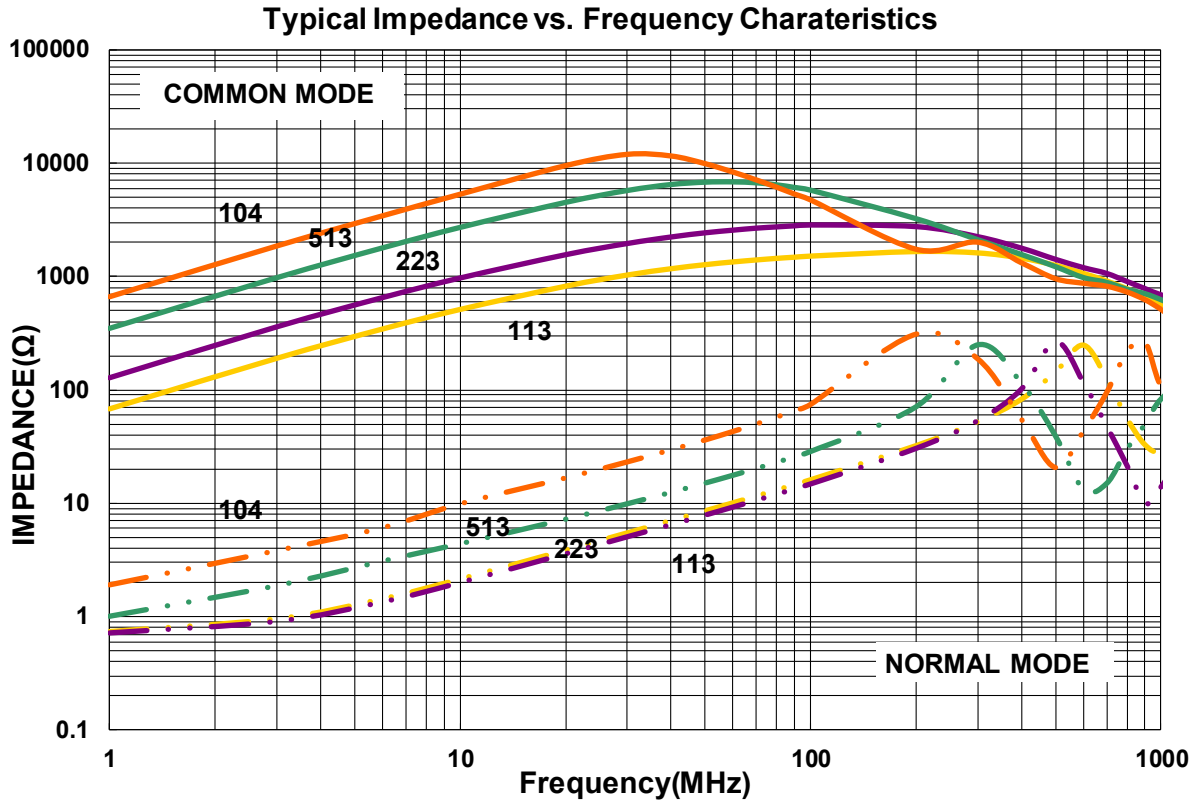
1. Operating temperature range - 50°C ~ 150°C(Including self - temperature rise)
2. RDC: SINGLE WIRE TEST VALUE
3. I_{rms} for 40°C rise above 25°C ambient.
4. Measure Equipment:
 L: HP4284A+HP42841A/HP4285A+HP42841A
 RDC: CHROMA MILLIOM METER MODE 16502
 I_{rms}: HP4284A+HP42841A/HP4285A+HP42841A
 Insulation Resistance: HP4339B

Common Mode Choke AWCU Series

**Automotive
AEC-Q200**

AWCU00453226-M2 Type

Characteristics Graph



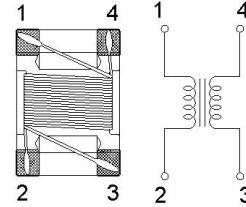
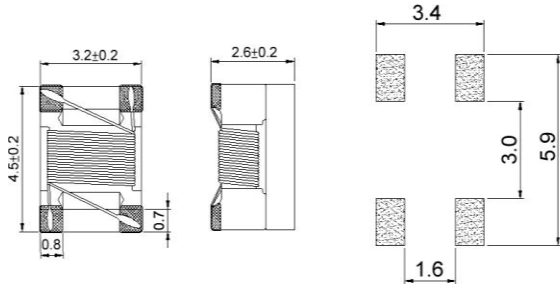
Common Mode Choke AWCU Series

**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

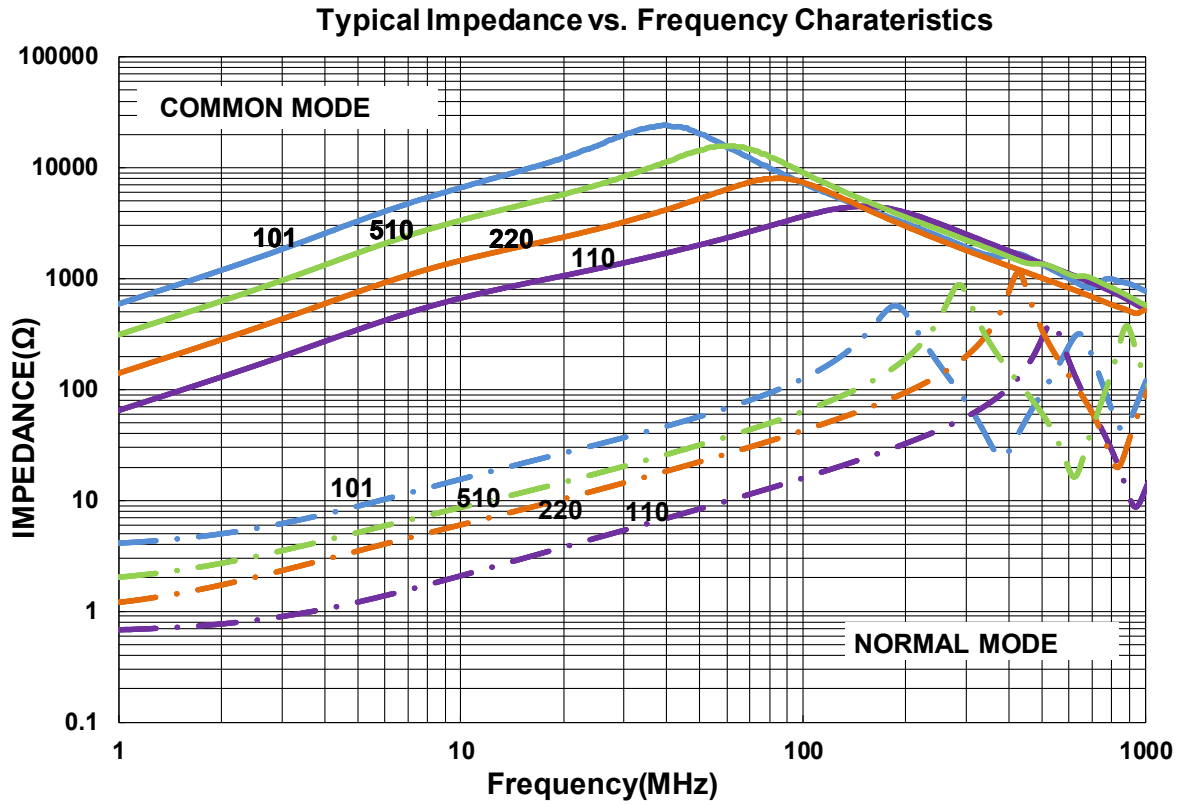
- Operating temperature range - 50°C ~ 150°C(Including self - temperature rise)
- RDC: SINGLE WIRE TEST VALUE
- Irms for 40°C rise above 25°C ambient.
- Measure Equipment:
 L: HP4284A+HP42841A/HP4285A+HP42841A
 RDC: CHROMA MILLIOM METER MODE 16502
 Irms: HP4284A+HP42841A/HP4285A+HP42841A
 Insulation Resistance: HP4339B

Common Mode Choke AWCU Series

**Automotive
AEC-Q200**

AWCU00453226-G0 Type

Characteristics Graph

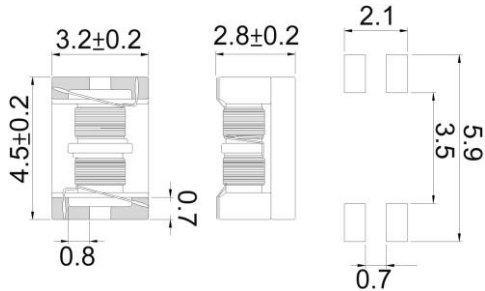


Common Mode Choke AWCU Series

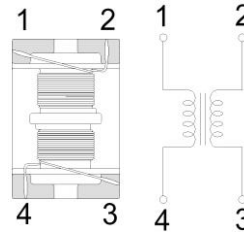
**Automotive
AEC-Q200**

AWCU00453228 Type

■ Dimensions / Recommended Land Pattern



■ NO Polarity Equivalent circuit



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)+60/-20	Test Freq.	RDC (Ω)Max.	I _{rms} (mA)Max.	Rated Voltage (Vdc)Max.	Insulation Resistance (MΩ)Min.
AWCU00453228201XTE	200	100kHz	4.5	100	50	10

Note:

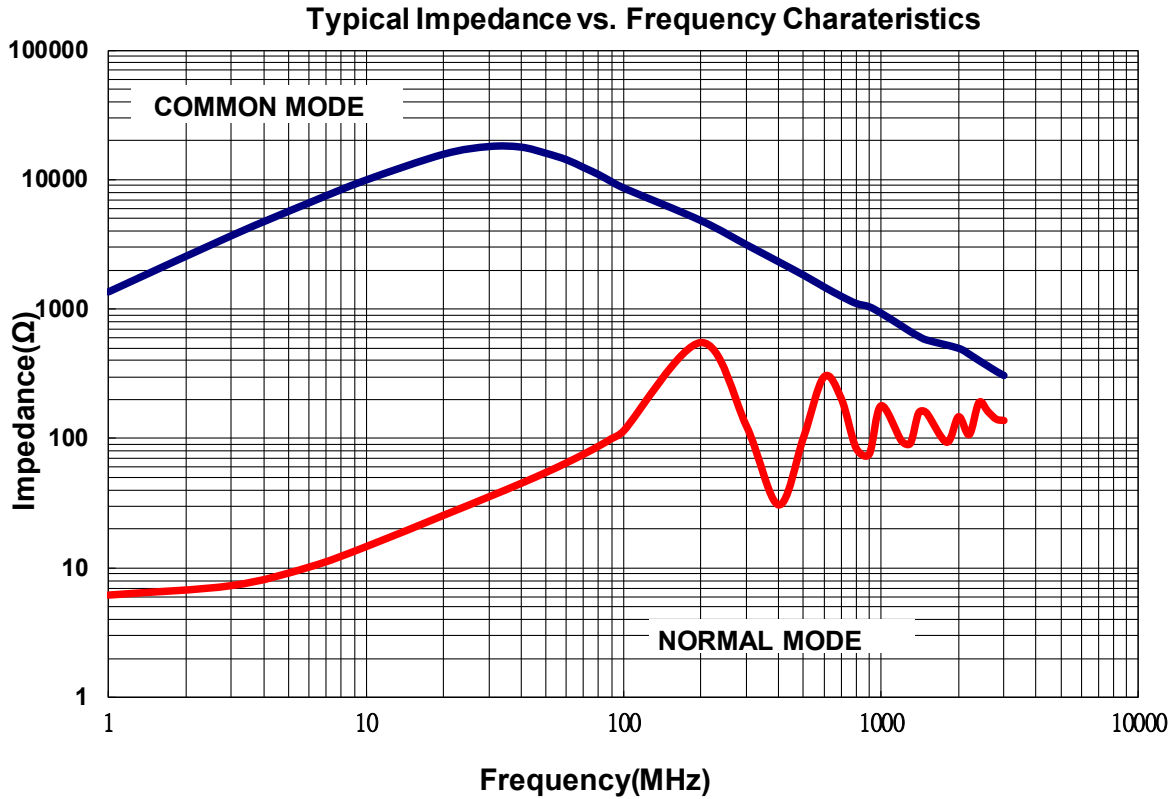
1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. RDC: SINGLE WIRE TEST VALUE
3. I_{rms} for 15°C rise above 25°C ambient.
4. Measure Equipment:
 L: HP4284A+HP42841A/HP4285A+HP42841A
 RDC: CHROMA MILLIOM METER MODE 16502
 I_{rms}: HP4284A+HP42841A/HP4285A+HP42841A
 Insulation Resistance: HP4339B

Common Mode Choke AWCU Series

Automotive
AEC-Q200

AWCU00453228 Type

■ Characteristics Graph

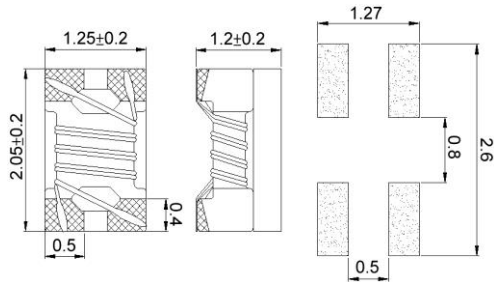


Common Mode Choke AWCU Series

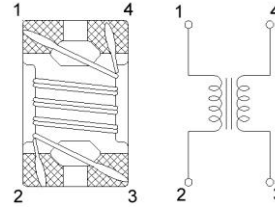
**Automotive
AEC-Q200**

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	25
AWCU00201212670□03	67	100	0.3	500	50	125	10	25
AWCU00201212900□03	90	100	0.3	500	50	125	10	25
AWCU00201212121□03	120	100	0.35	330	50	125	10	25

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

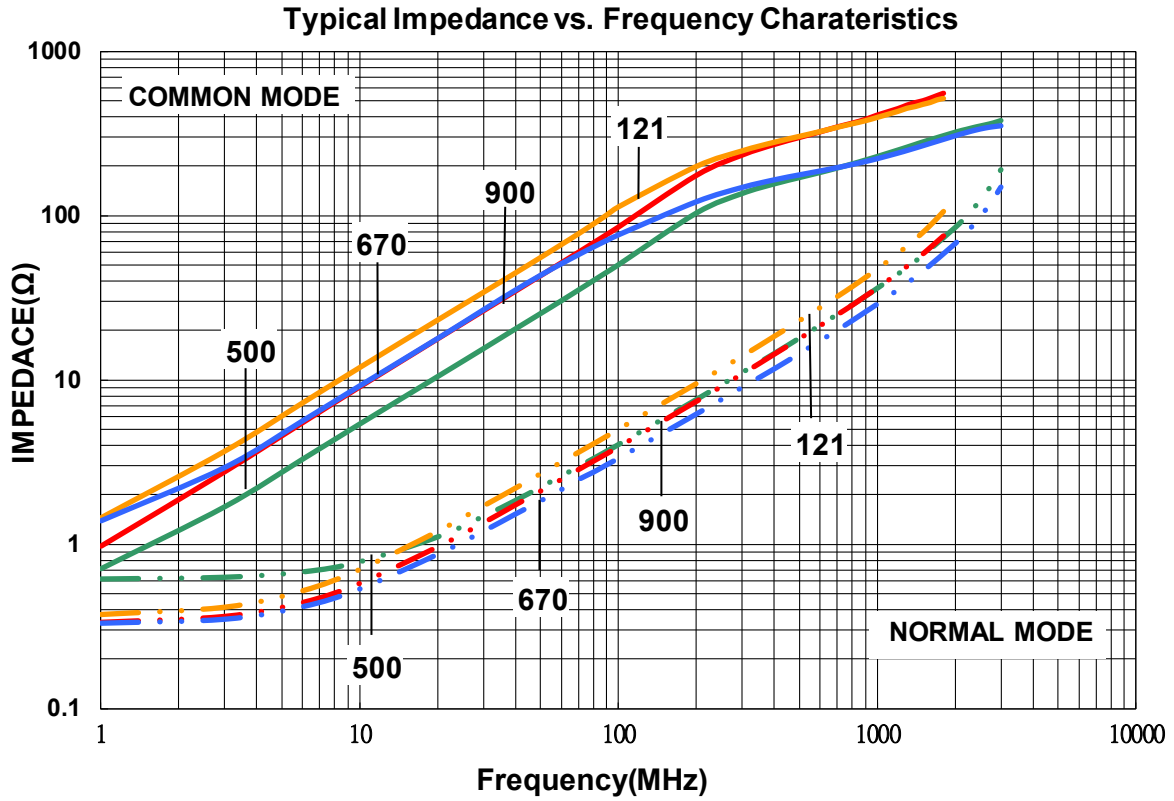
1. Operating temperature range - 50°C ~ 150°C(Including self - temperature rise)
2. RDC: SINGLE WIRE TEST VALUE
3. IDC for Inductance drop 10% from its value without current.
4. Measure Equipment:
 Z: Agilent HP4287A+Agilent 16197A
 RDC: Chroma 16502 (Single Wire Test Value)
 IDC: HP4284A+HP42841A/HP4285A+HP42841A

Common Mode Choke AWCU Series

Automotive
AEC-Q200

AWCU00201212-03 Type

Characteristics Graph

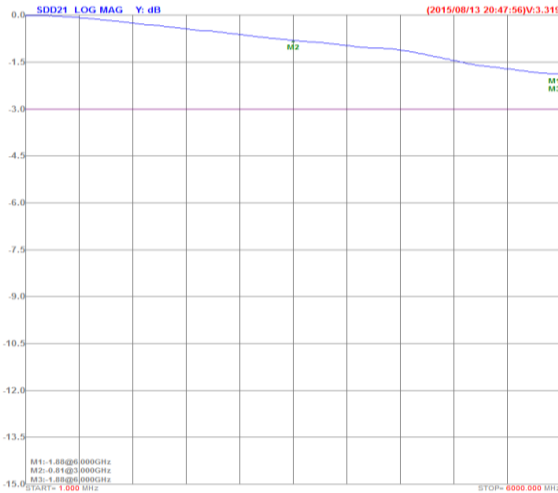


Common Mode Choke AWCU Series

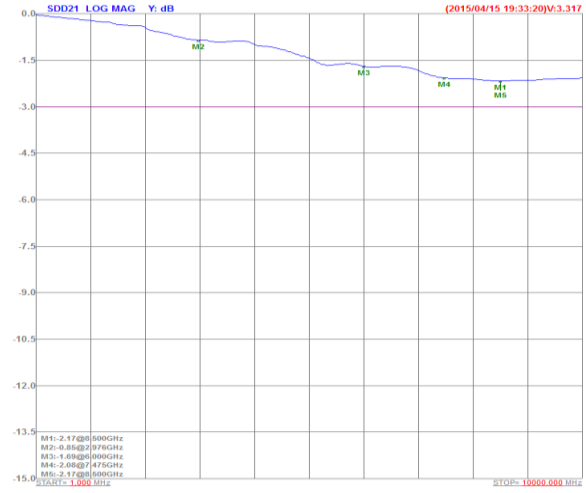
Automotive
AEC-Q200

AWCU00201212500Y03

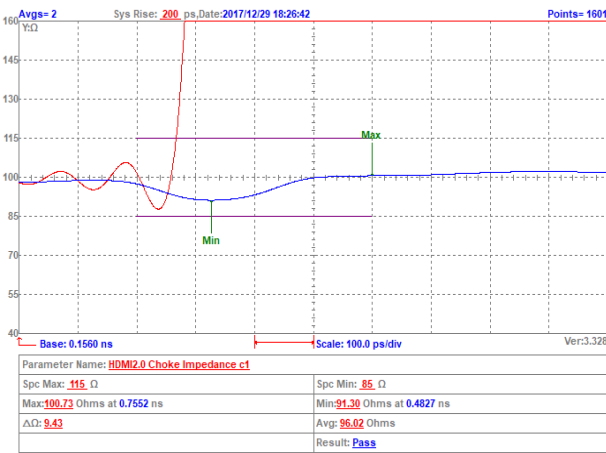
■ Insertion Loss For HDMI2.0 Testing:



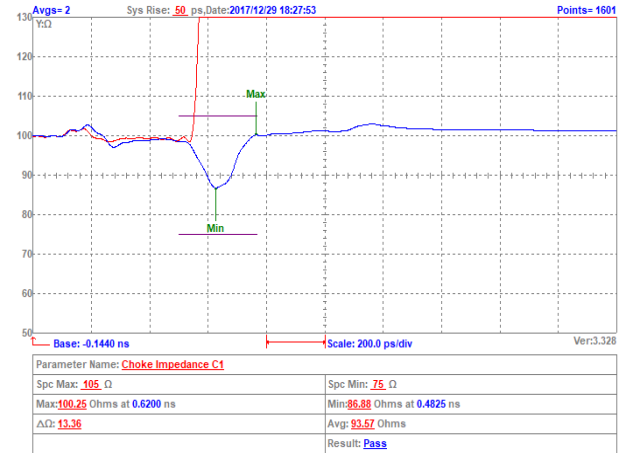
■ Insertion Loss For USB3.0 Testing:



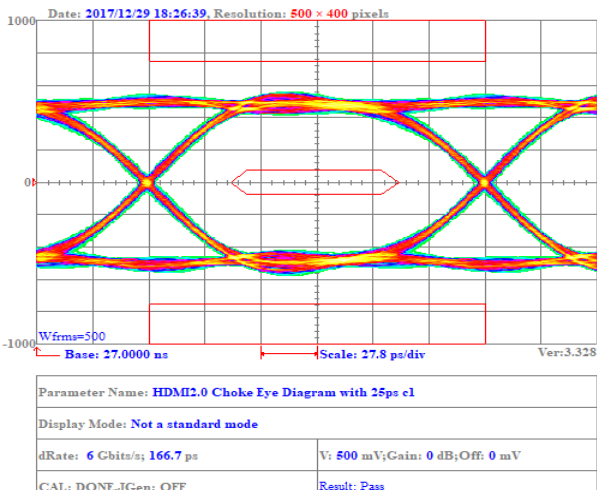
■ TDR For HDMI2.0 Testing:



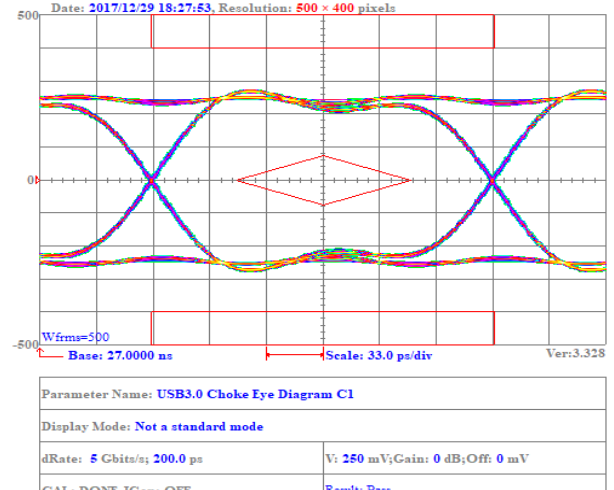
■ TDR For USB3.0 Testing:



■ Eye Diagram For HDMI2.0 Testing:



■ Eye Diagram For USB3.0 Testing:



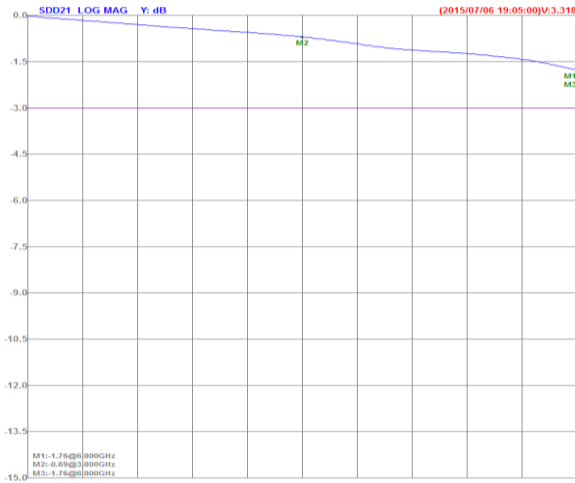
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

Common Mode Choke AWCU Series

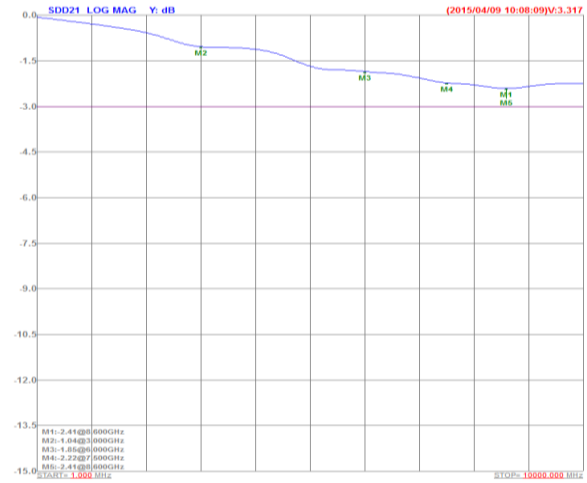
Automotive
AEC-Q200

AWCU00201212670Y03

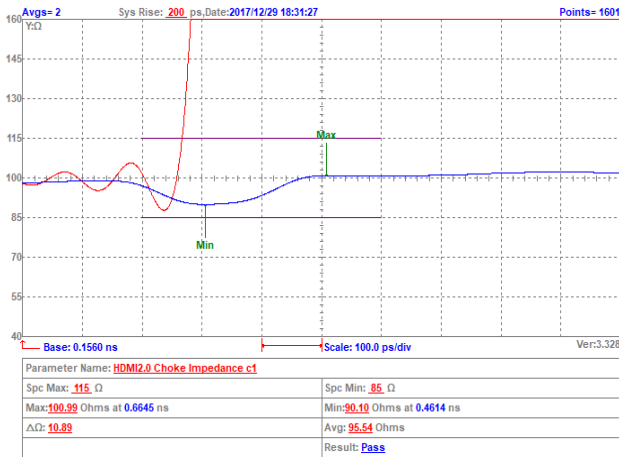
Insertion Loss For HDMI2.0 Testing:



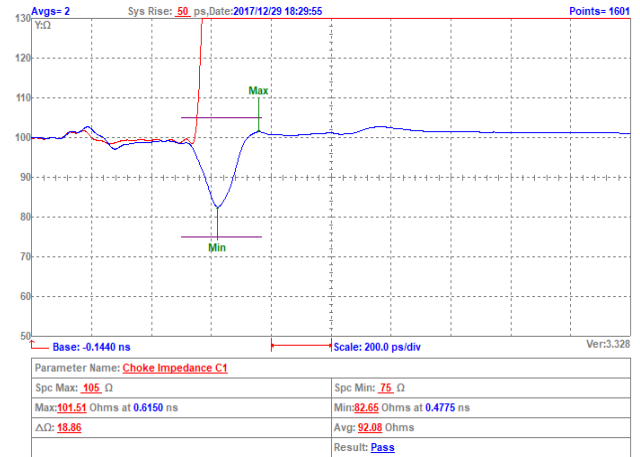
Insertion Loss For USB3.0 Testing:



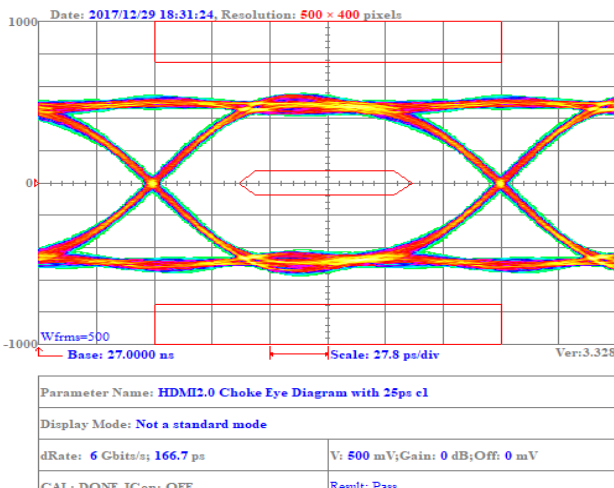
TDR For HDMI2.0 Testing:



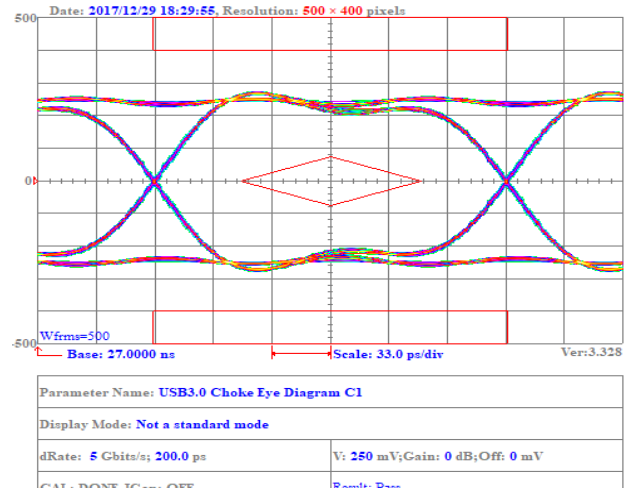
TDR For USB3.0 Testing:



Eye Diagram For HDMI2.0 Testing:



Eye Diagram For USB3.0 Testing:



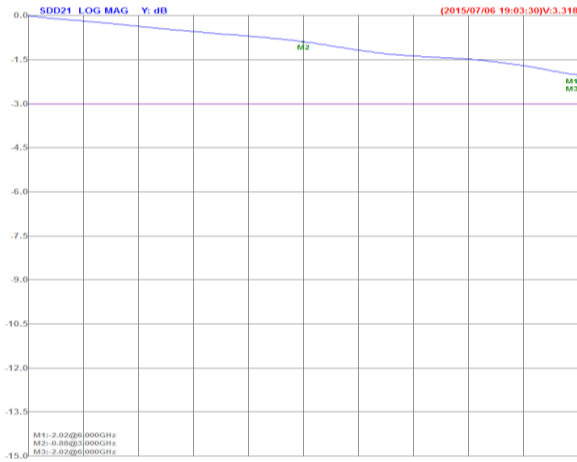
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

Common Mode Choke AWCU Series

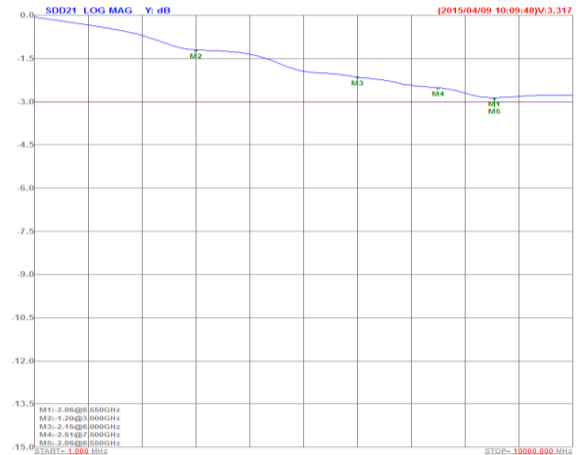
Automotive
AEC-Q200

AWCU00201212900Y03

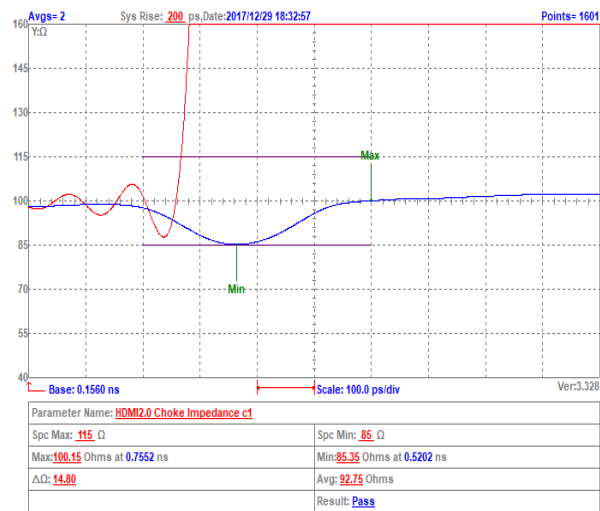
Insertion Loss For HDMI2.0 Testing:



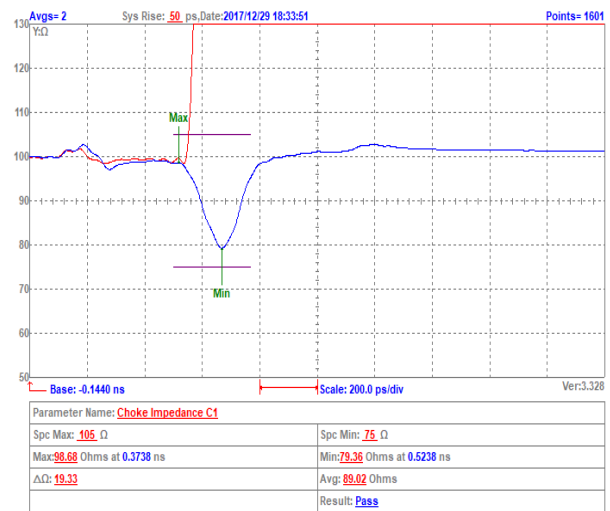
Insertion Loss For USB3.0 Testing:



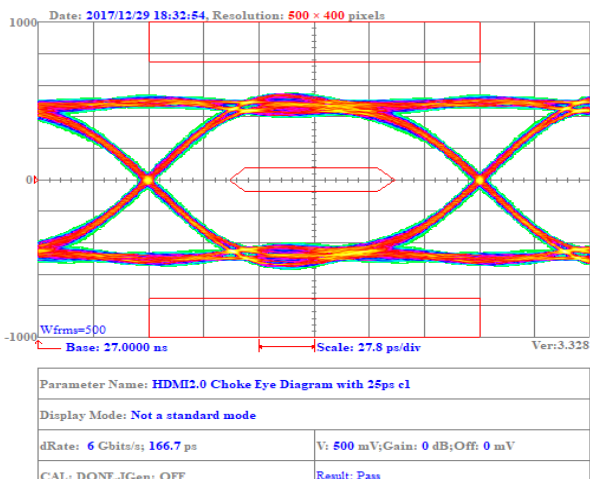
TDR For HDMI2.0 Testing:



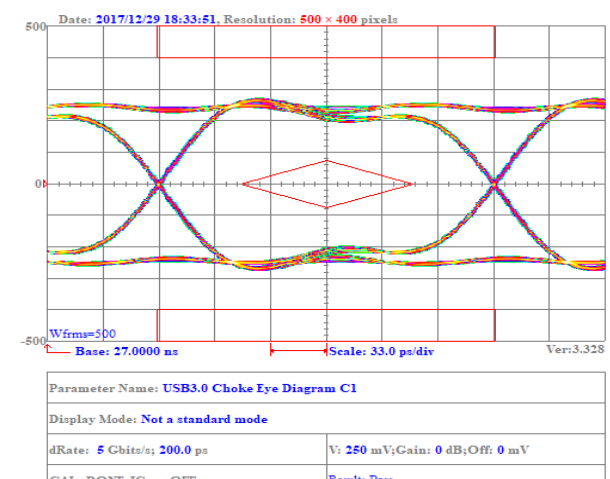
TDR For USB3.0 Testing:



Eye Diagram For HDMI2.0 Testing:



Eye Diagram For USB3.0 Testing:



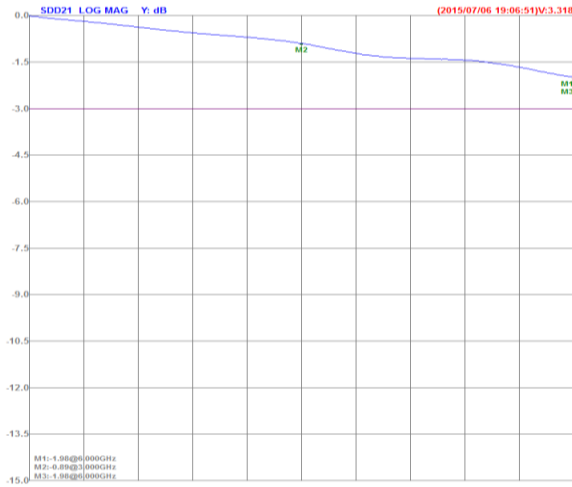
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

Common Mode Choke AWCU Series

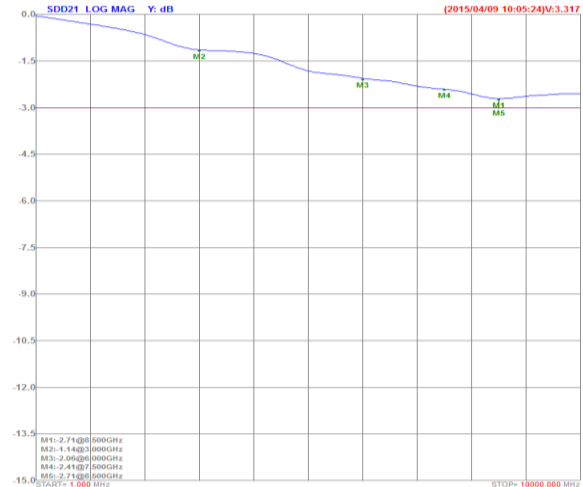
Automotive
AEC-Q200

AWCU00201212121Y03

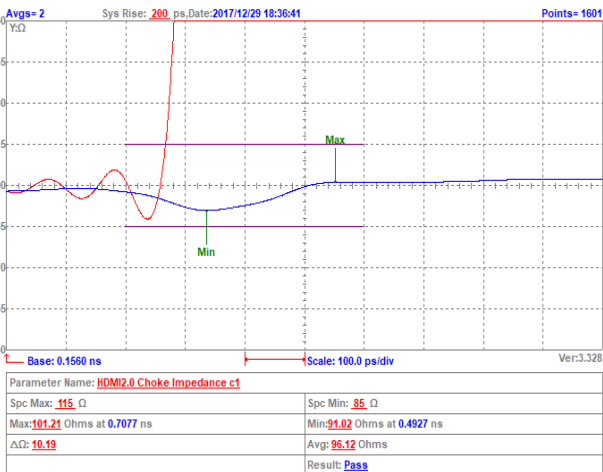
Insertion Loss For HDMI2.0 Testing:



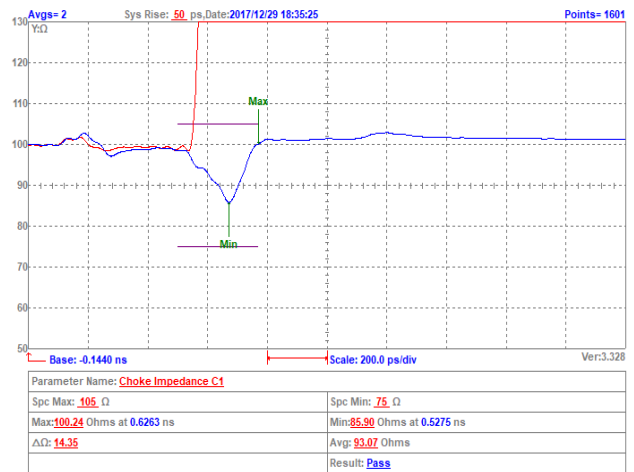
Insertion Loss For USB3.0 Testing:



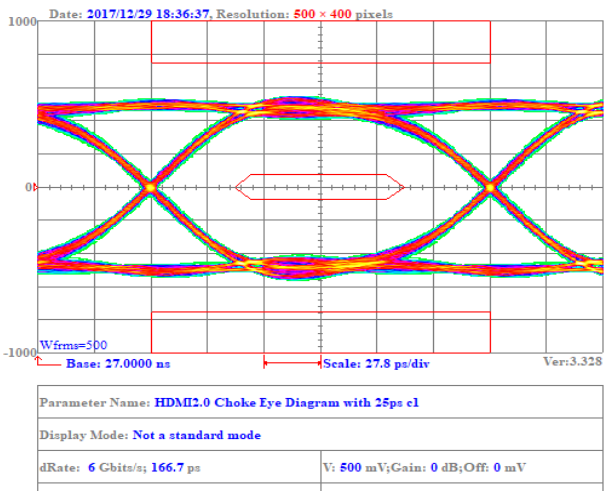
TDR For HDMI2.0 Testing:



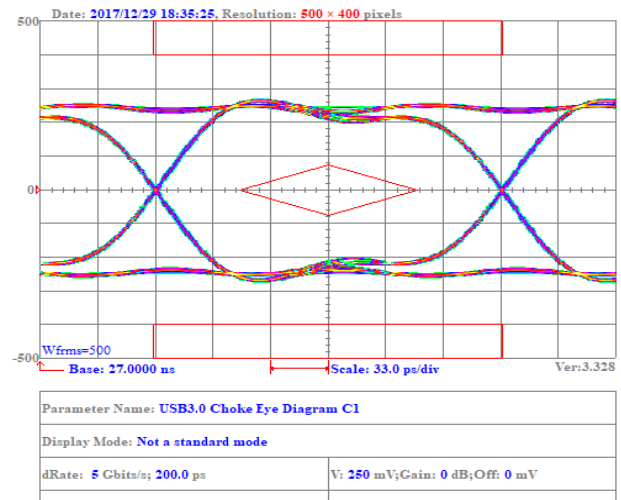
TDR For USB3.0 Testing:



Eye Diagram For HDMI2.0 Testing:



Eye Diagram For USB3.0 Testing:



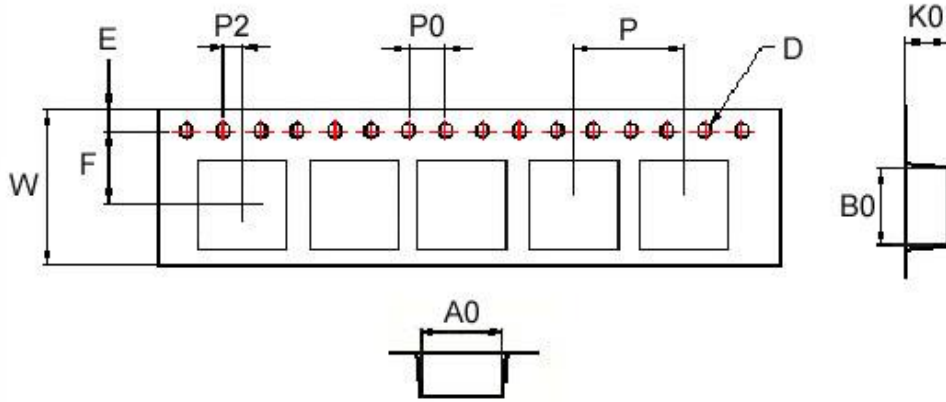
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

Common Mode Choke AWCU Series

**Automotive
AEC-Q200**

■ Packaging

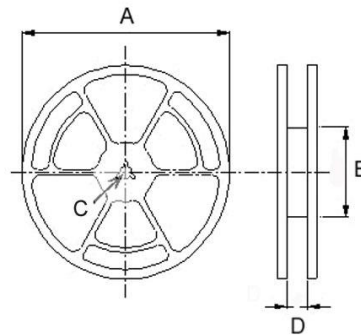
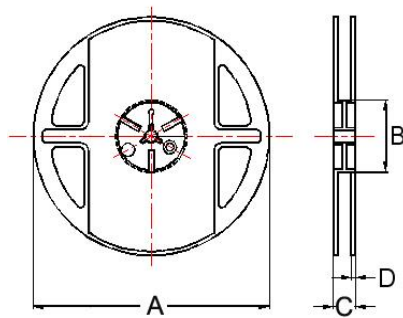
Tape Dimensions



Reel Dimensions

Figure1

Figure 2



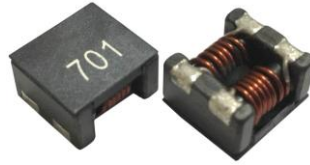
Dimensions in mm

TYPE	Tape Dimensions										Fig.	Reel Dimensions				Quantity PCS/REEL
	A0	B0	K0	D	E	F	W	P	P0	P2		A	B	C	D	
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	12	1.5	1500
AWCU00332525	2.72	3.52	2.60	1.5	1.75	5.5	12	4	4	2	1	178	60	12	1.5	1500
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

Common Mode Choke APPM Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



Noise
Suppression

Wire
Wound

Ferrite

Automotive
Power line

Part Numbering

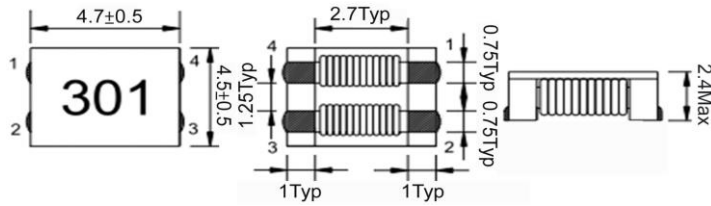
A	PPM	00	070638	800	X	Y0
Grade	Series Name	Control Code	Dimensions Code (mm)	Impedance (Ω) Min	Tolerance	Internal Code
			050524 4.7x4.5x2.4	800 80 Ω		YE
			070638 7x6x3.8	101 100 Ω		Y0
			090748 9x7x4.8	701 500 Ω		Z0
			121165 12x10.8x6.5			
			151365 15x13x6.5			

Common Mode Choke APPM Series

**Automotive
AEC-Q200**

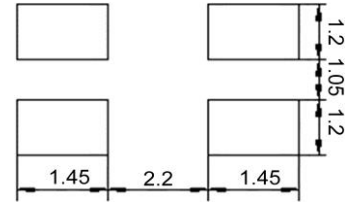
APPM00050524 - YE Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

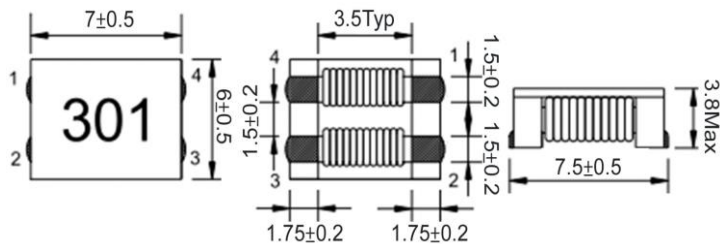
Part No.	Impedance(Ω)		Test Freq.	RDC (mΩ)Max.	Rated Current (A) Max	Insulation Resistance (MΩ) Min	Rated Voltage (V) Max	Marking
	Min.	Typ.						
APPM00050524301XYE	100	300	100 MHz,0.5 V	45	3	10	50	301
APPM00050524401XYE	200	400	100 MHz,0.5 V	50	2.5	10	50	401
APPM00050524701XYE	500	700	100 MHz,0.5 V	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

- Operating temperature range - 40°C ~ 125°C
- Rated Current: Based on temperature rise ($\Delta T: 40^\circ\text{C}$ Typ.)
- Measure Equipment:
 Z : HP 4291B IMPEDANCE ANALYZER (or equivalent)
 RDC : CHROMA MODEL 16502 MILLIOHM METER (or equivalent)
 Rated Current : WK3255BQ+ WK3265B (or equivalent)
 I.R : CHROMA MODEL 19073 AC/DC/IR HIPOT TESTER (or equivalent)

Common Mode Choke APPM Series **Automotive AEC-Q200**

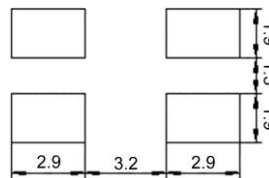
APPM00070638 - Y0 Type

Dimensions



unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

Part No.	Impedance(Ω)		Test Freq.	RDC (mΩ)Max.	Rated Current (A) Max	Insulation Resistance (MΩ) Min	Rated Voltage (V) Max	Marking
	Min.	Typ.						
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

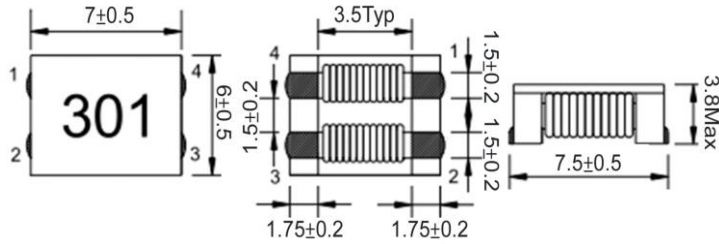
- Operating temperature range - 40°C ~ 125°C
- Rated Current: Based on temperature rise ($\Delta T: 40^\circ\text{C}$ Typ.)
- Measure Equipment:
 Z : HP 4291B IMPEDANCE ANALYZER (or equivalent)
 RDC : CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
 Rated Current : WK3255BQ+ WK3265B (or equivalent)
 I.R : CHROMA MODEL 19073 AC/DC/IR HIPOT TESTER (or equivalent)

Common Mode Choke APPM Series

**Automotive
AEC-Q200**

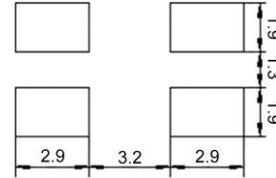
APPM00070638 - Z0 Type

Dimensions



unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

Part No.	Impedance(Ω)		Test Freq.	RDC (mΩ)Max.	Rated Current (A) Max	Insulation Resistance (MΩ) Min	Rated Voltage (V) Max	Marking
	Min.	Typ.						
APPM00070638101XZ0	100	140	100 MHz,0.5 V	10	9	10	125	101
APPM00070638301XZ0	225	300	100 MHz,0.5 V	10	5	10	125	301
APPM00070638701XZ0	500	700	100 MHz,0.5 V	15	4	10	125	701
APPM00070638102XZ0	800	1020	100 MHz,0.5 V	17	3	10	125	102
APPM00070638132XZ0	910	1300	100 MHz,0.5 V	21	2.5	10	125	132
APPM00070638272XZ0	2000	2700	100 MHz,0.5 V	63	1	10	125	272
APPM00070638302XZ0	2500	3000	100 MHz,0.5 V	75	0.9	10	125	302

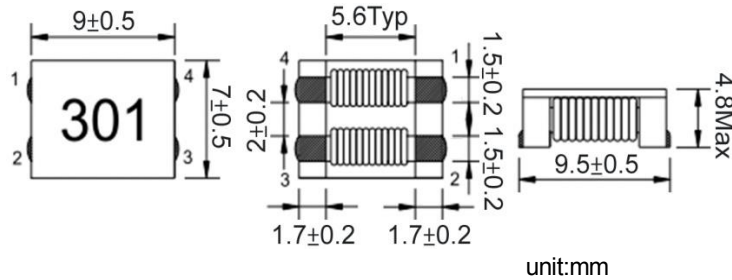
- Operating temperature range - 50°C ~ 150°C(Including self - temperature rise)
- Rated Current: Based on temperature rise ($\Delta T:40^{\circ}C$ Typ.)
- Measure Equipment:
 Z : HP 4291B IMPEDANCE ANALYZER (or equivalent)
 RDC : CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
 Rated Current : WK3255BQ+ WK3265B (or equivalent)
 I.R : CHROMA MODEL 19073 AC/DC/IR HIPOT TESTER (or equivalent)

Common Mode Choke APPM Series

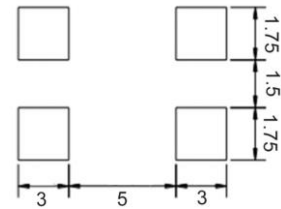
**Automotive
AEC-Q200**

APPM00090748 - Y0 Type

Dimensions



Recommended Land Pattern



Electrical Characteristics

Part No.	Impedance(Ω)		Test Freq.	RDC (mΩ)Max.	Rated Current (A) Max	Insulation Resistance (MΩ) Min	Rated Voltage (V) Max	Marking
	Min.	Typ.						
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

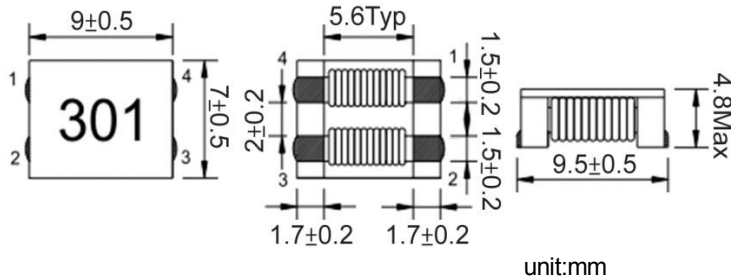
- Operating temperature range - 40°C ~ 125°C
- Rated Current: Based on temperature rise ($\Delta T: 40^\circ\text{C}$ Typ.)
- Measure Equipment:
 Z : HP 4291B IMPEDANCE ANALYZER (or equivalent)
 RDC : CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
 Rated Current : WK3255BQ+ WK3265B (or equivalent)
 I.R : CHROMA MODEL 19073 AC/DC/IR HIPOT TESTER (or equivalent)

Common Mode Choke APPM Series

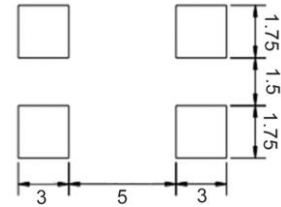
**Automotive
AEC-Q200**

APPM00090748 - Z0 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Impedance(Ω)		Test Freq.	RDC (mΩ)Max.	Rated Current (A) Max	Insulation Resistance (MΩ) Min	Rated Voltage (V) Max	Marking
	Min.	Typ.						
APPM00090748301XZ0	225	300	100 MHz,0.5 V	6	6	10	80	301
APPM00090748501XZ0	450	600	100 MHz,0.5 V	8	5.5	10	80	501
APPM00090748701XZ0	500	700	100 MHz,0.5 V	10	5	10	80	701
APPM00090748102XZ0	750	1000	100 MHz,0.5 V	13	4	10	80	102
APPM00090748152XZ0	1100	1500	100 MHz,0.5 V	18	3.5	10	80	152
APPM00090748222XZ0	1700	2200	100 MHz,0.5 V	60	2.5	10	80	222
APPM00090748272XZ0	2000	2700	100 MHz,0.5 V	86	2	10	80	272

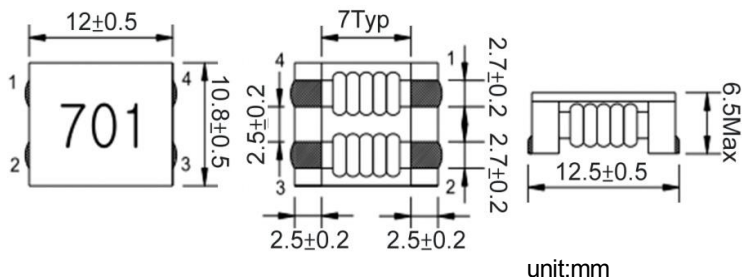
- Operating temperature range - 50°C ~ 150°C(Including self - temperature rise)
- Rated Current: Based on temperature rise ($\Delta T:40^{\circ}C$ Typ.)
- Measure Equipment:
 Z : HP 4291B IMPEDANCE ANALYZER (or equivalent)
 RDC : CHROMA MODEL 16502 MILLIOHMETER (or equivalent)
 Rated Current : WK3255BQ+ WK3265B (or equivalent)
 I.R : CHROMA MODEL 19073 AC/DC/IR HIPOT TESTER (or equivalent)

Common Mode Choke APPM Series

**Automotive
AEC-Q200**

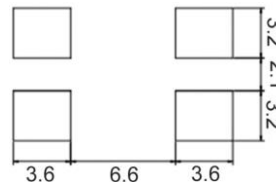
APPM00121165 - Y0 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Impedance(Ω)		Test Freq.	RDC (mΩ)Max.	Rated Current (A) Max	Insulation Resistance (MΩ) Min	Rated Voltage (V) Max	Marking
	Min.	Typ.						
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

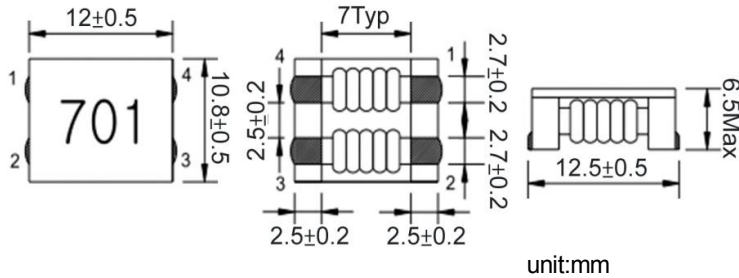
- Operating temperature range - 40°C ~ 125°C
- Rated Current: Based on temperature rise ($\Delta T:40^{\circ}C$ Typ.)
- Measure Equipment:
 Z : HP 4291B IMPEDANCE ANALYZER (or equivalent)
 RDC : CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
 Rated Current : WK3255BQ+ WK3265B (or equivalent)
 I.R : CHROMA MODEL 19073 AC/DC/IR HIPOT TESTER (or equivalent)

Common Mode Choke APPM Series

**Automotive
AEC-Q200**

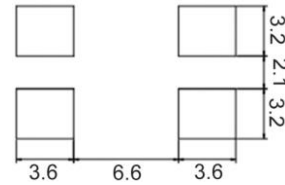
APPM00121165 - Z0 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Impedance(Ω)		Test Freq.	RDC (mΩ)Max.	Rated Current (A) Max	Insulation Resistance (MΩ) Min	Rated Voltage (V) Max	Marking
	Min.	Typ.						
APPM00121165800XZ0	80	230	100 MHz,0.5 V	2.2Typ	10	10	80	800
APPM00121165701XZ0	500	700	100 MHz,0.5 V	6	8	10	80	701
APPM00121165801XZ0	600	800	100 MHz,0.5 V	8	8	10	80	801
APPM00121165102XZ0	750	1000	100 MHz,0.5 V	14	6	10	80	102
APPM00121165222XZ0	2200	2500	10 MHz,0.5 V	35	1.8	10	80	222
APPM00121165272XZ0	2300	2700	10 MHz,0.5 V	50	1.5	10	80	272

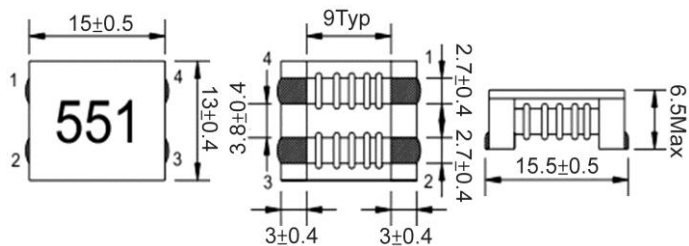
1. Operating temperature range - 50°C ~ 150°C(Including self - temperature rise)
2. Rated Current: Based on temperature rise ($\Delta T:40^{\circ}C$ Typ.)
3. Measure Equipment:
 Z : HP 4291B IMPEDANCE ANALYZER (or equivalent)
 RDC : CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
 Rated Current : WK3255BQ+ WK3265B (or equivalent)
 I.R : CHROMA MODEL 19073 AC/DC/IR HIPOT TESTER (or equivalent)

Common Mode Choke APPM Series

**Automotive
AEC-Q200**

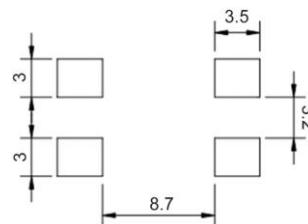
APPM00151365 - Y0 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Impedance(Ω)		Test Freq.	RDC (mΩ)Max.	Rated Current (A) Max	Insulation Resistance (MΩ) Min	Rated Voltage (V) Max	Marking
	Min.	Typ.						
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	232
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

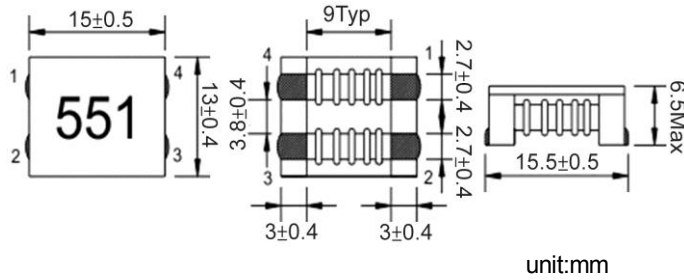
- Operating temperature range - 40°C ~ 125°C
- Rated Current: Based on temperature rise (ΔT:40°C Typ.)
- Measure Equipment:
 Z : HP 4291B IMPEDANCE ANALYZER (or equivalent)
 RDC : CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)
 Rated Current : WK3255BQ+ WK3265B (or equivalent)
 I.R : CHROMA MODEL 19073 AC/DC/IR HIPOT TESTER (or equivalent)

Common Mode Choke APPM Series

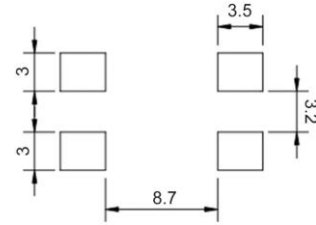
**Automotive
AEC-Q200**

APPM00151365 - Z0 Type

Dimensions



Recommended Land Pattern



Electrical Characteristics

Part No.	Impedance(Ω)		Test Freq.	RDC (mΩ)Max.	Rated Current (A) Max	Insulation Resistance (MΩ) Min	Rated Voltage (V) Max	Marking
	Min.	Typ.						
APPM00151365301XZ0	250	300	100 MHz,0.5 V	4.7	13	10	80	301
APPM00151365551XZ0	450	550	100 MHz,0.5 V	3.8±20%	10	10	80	551
APPM00151365701XZ0	500	700	100 MHz,0.5 V	7	10	10	80	701
APPM00151365152XZ0	1100	1500	50 MHz,0.5 V	9	8.5	10	80	152

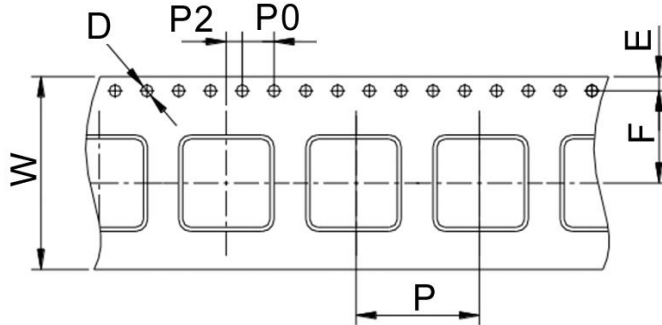
1. Operating temperature range - 50°C ~ 150°C(Including self - temperature rise)
2. Rated Current: Based on temperature rise ($\Delta T:40^{\circ}C$ Typ.)
3. Measure Equipment:
 Z : HP 4291B IMPEDANCE ANALYZER (or equivalent)
 RDC : CHROMA MODEL 16502 MILLIOHMETER (or equivalent)
 Rated Current : WK3255BQ+ WK3265B (or equivalent)
 I.R : CHROMA MODEL 19073 AC/DC/IR HIPOT TESTER (or equivalent)

Common Mode Choke APPM Series

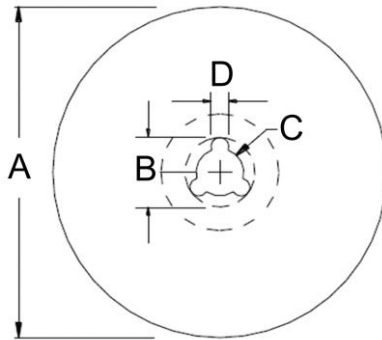
**Automotive
AEC-Q200**

■ Packaging

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity PCS / REEL
	W	D	E	F	P	P0	P2	A	B	C	D	
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

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

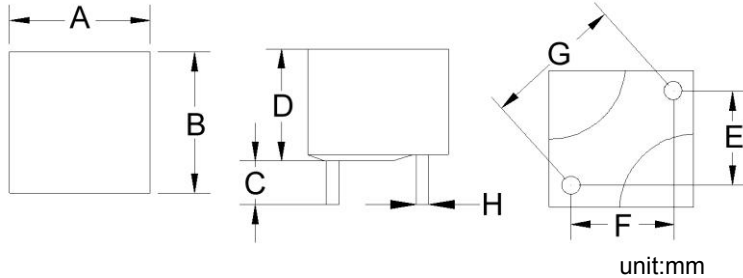
A	FDI	00	303012	1R0	M	01
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			111109 12x12x9~9.5	1R0 1.0	M ±20%	R1
			121210 12x12x10	100 10		04
			131210 13x12x8~12	101 100		06
			161311 15.5x13x10~12			
			191909 19.5x8.5			
			212010 20.5x9.5			
			282811 28x10.5			
			303012 30x12.7			

Leaded Power Chokes AFDI Series

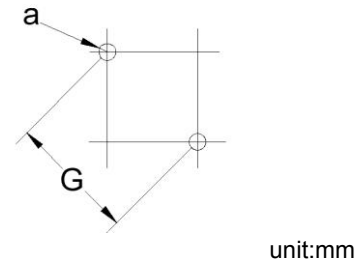
**Automotive
AEC-Q200**

AFDI00111109 Type

Dimensions



Recommended Land Pattern



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
AFDI001111091R0MR1	1	100kHz,1V	0.62(1.5)	35	35	20	12	12	3.4	9	7.3	6	9.4	1.5	1.9
AFDI001111092R5MR1	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°C ~ 155°C(Including self - temperature rise)
3. Isat for Inductance drop 20% from its value without current
4. Irms for a 40°C temperature rise from 25°C ambient with current
5. Measure Equipment:
L: WK4237
RDC: CHEN HWA502
Isat: WK3260B/ 3265
Irms: WK3260B/ 3265

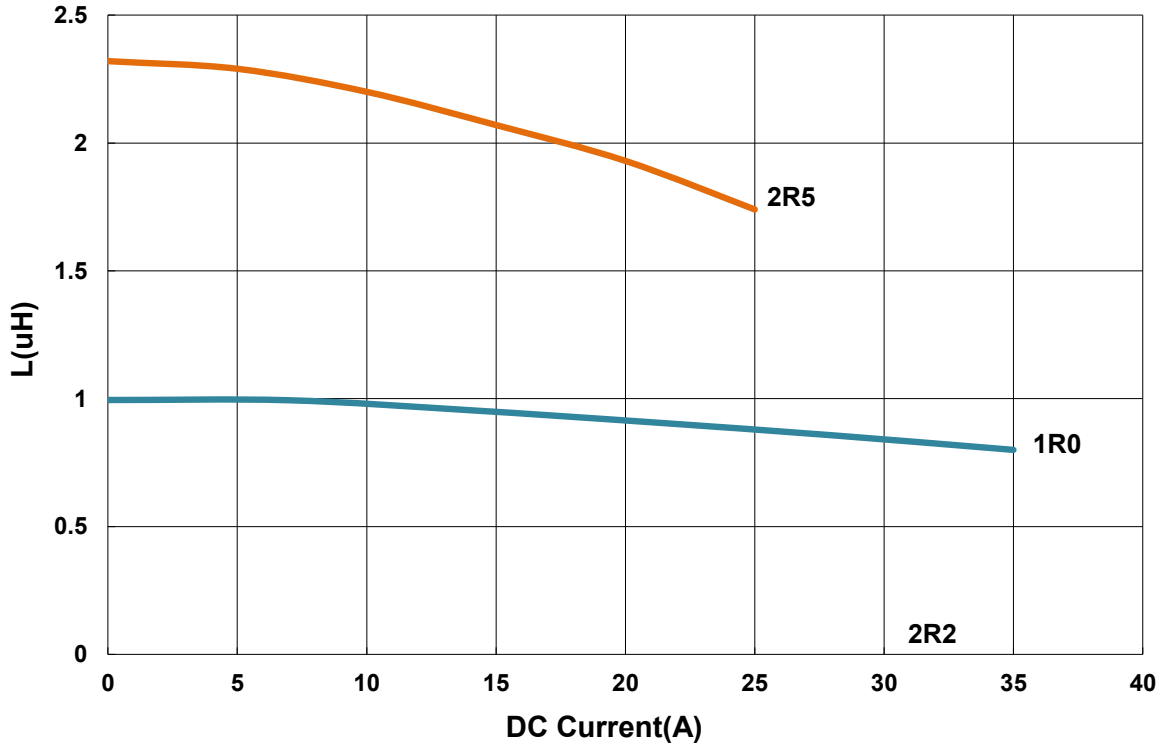
Leaded Power Chokes AFDI Series

**Automotive
AEC-Q200**

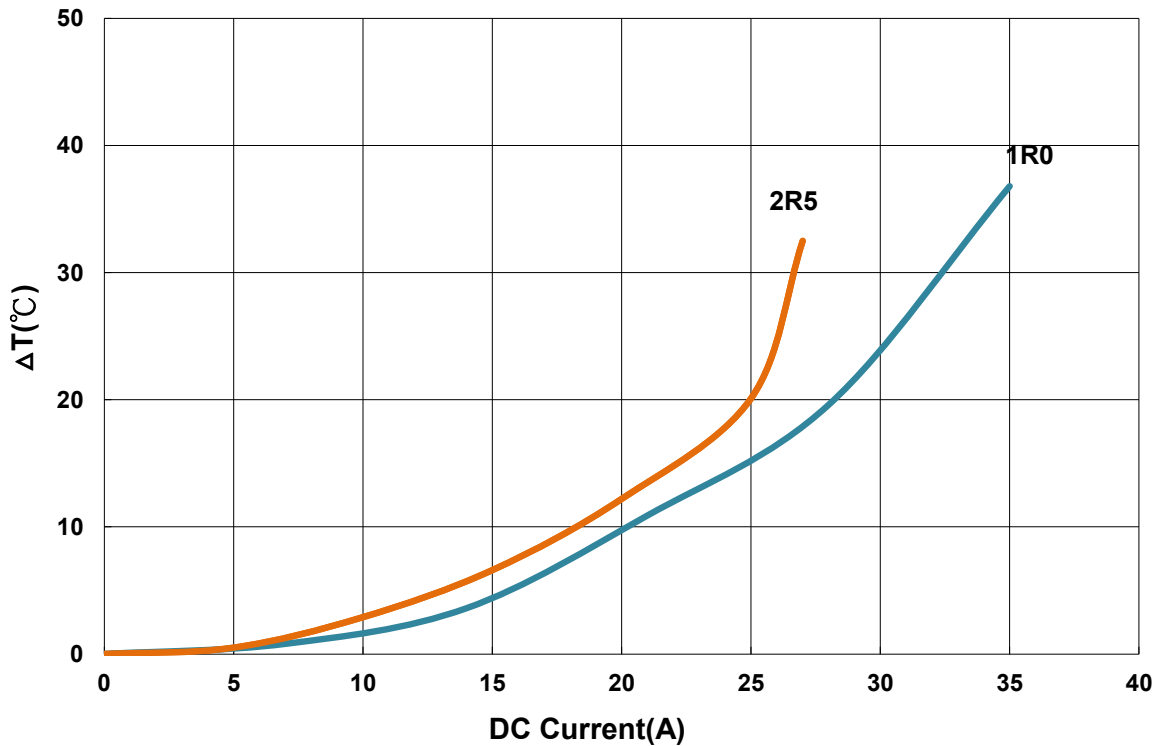
AFDI00111109 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

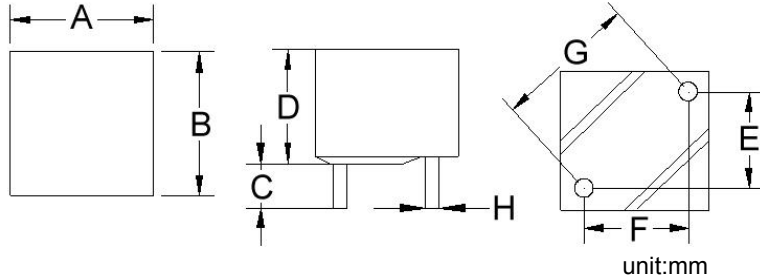


Leaded Power Chokes AFDI Series

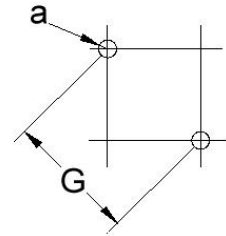
**Automotive
AEC-Q200**

AFDI00121210 Type

■ Dimensions



■ Recommended Land Pattern



■ 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°C ~ 155°C(Including self - temperature rise)
3. Isat for Inductance drop 20% from its value without current
4. Irms for a 40°C temperature rise from 25°C ambient with current
5. Measure Equipment:
 L: WK4237
 RDC: CHEN HWA502
 Isat: WK3260B/ 3265
 Irms: WK3260B/ 3265

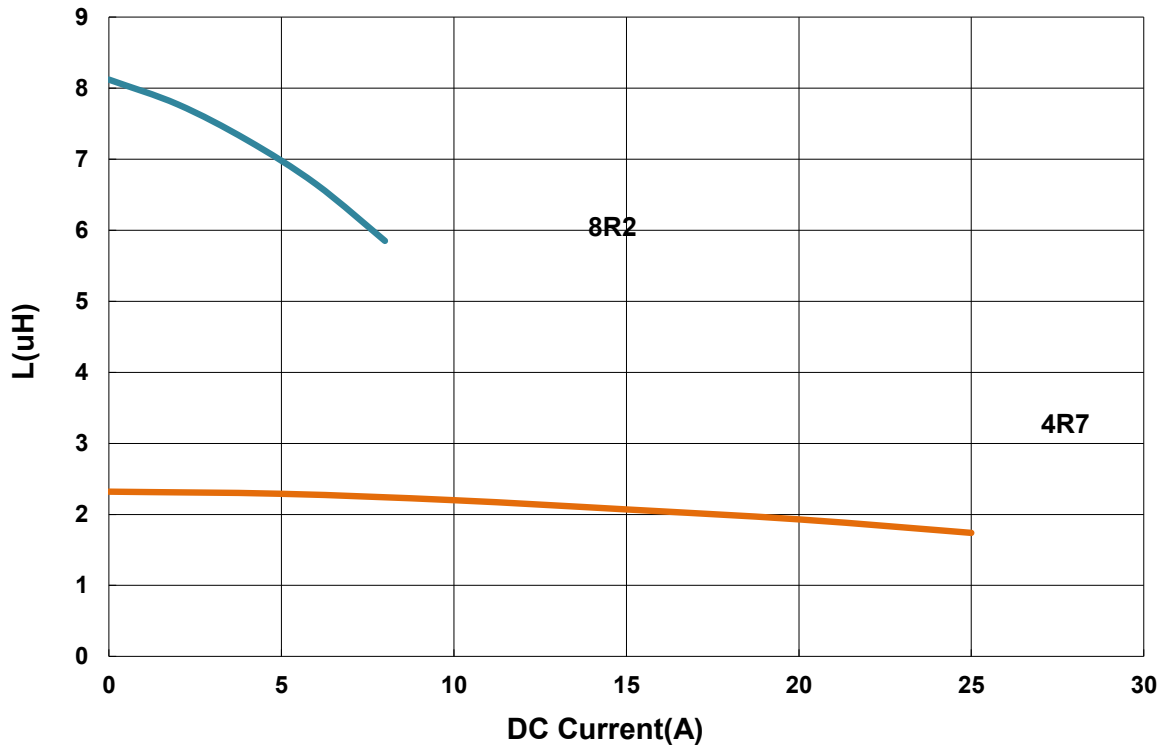
Leaded Power Chokes AFDI Series

Automotive
AEC-Q200

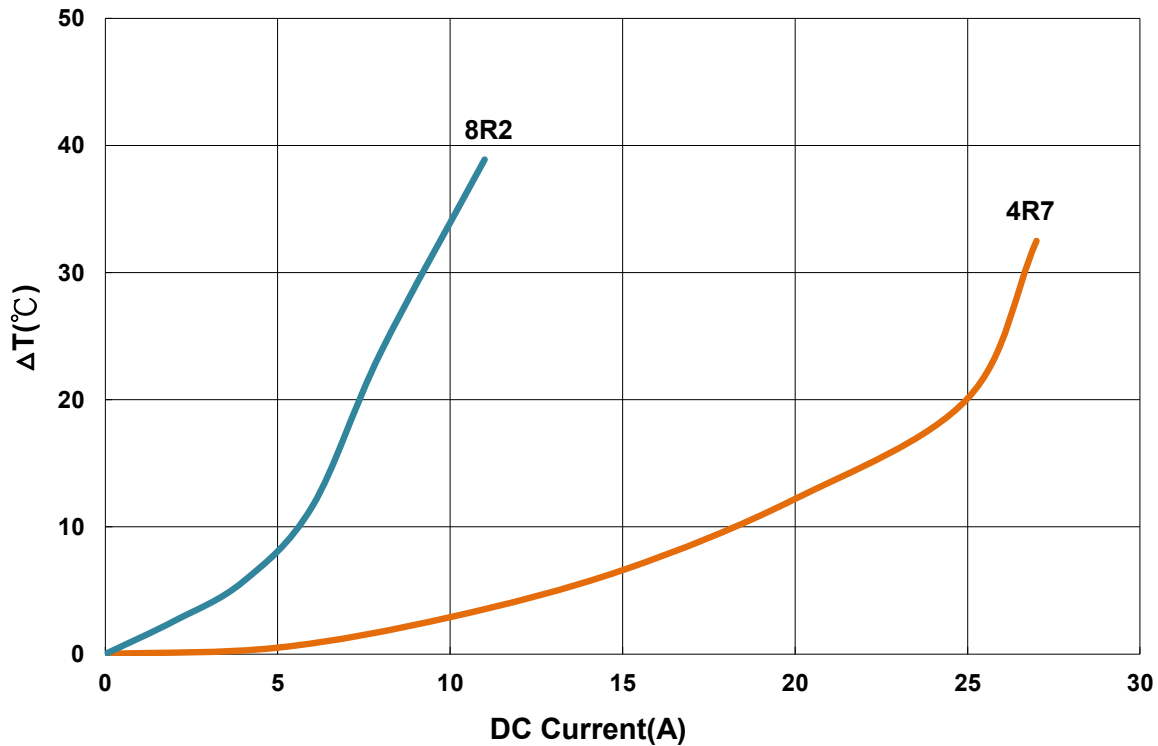
AFDI00121210 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

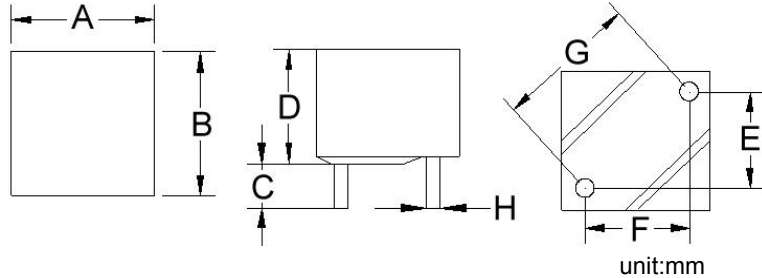


Leaded Power Chokes AFDI Series

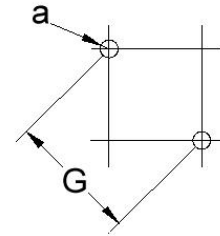
**Automotive
AEC-Q200**

AFDI00131210 Type

■ Dimensions



■ Recommended Land Pattern



■ 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
AFDI00131210R22M01	0.2	100kHz,1V	0.45(0.6)	55	60	20	12	13	3.5	8	7.5	6.5	10	1.5±0.2	1.9
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°C ~ 155°C(Including self - temperature rise)
3. Isat for Inductance drop 20% from its value without current
4. Irms for a 40°C temprature rise from 25°C ambient with current
5. Measure Equipment:
 L: WK4237
 RDC: CHEN HWA502
 Isat: WK3260B/ 3265
 Irms: WK3260B/ 3265

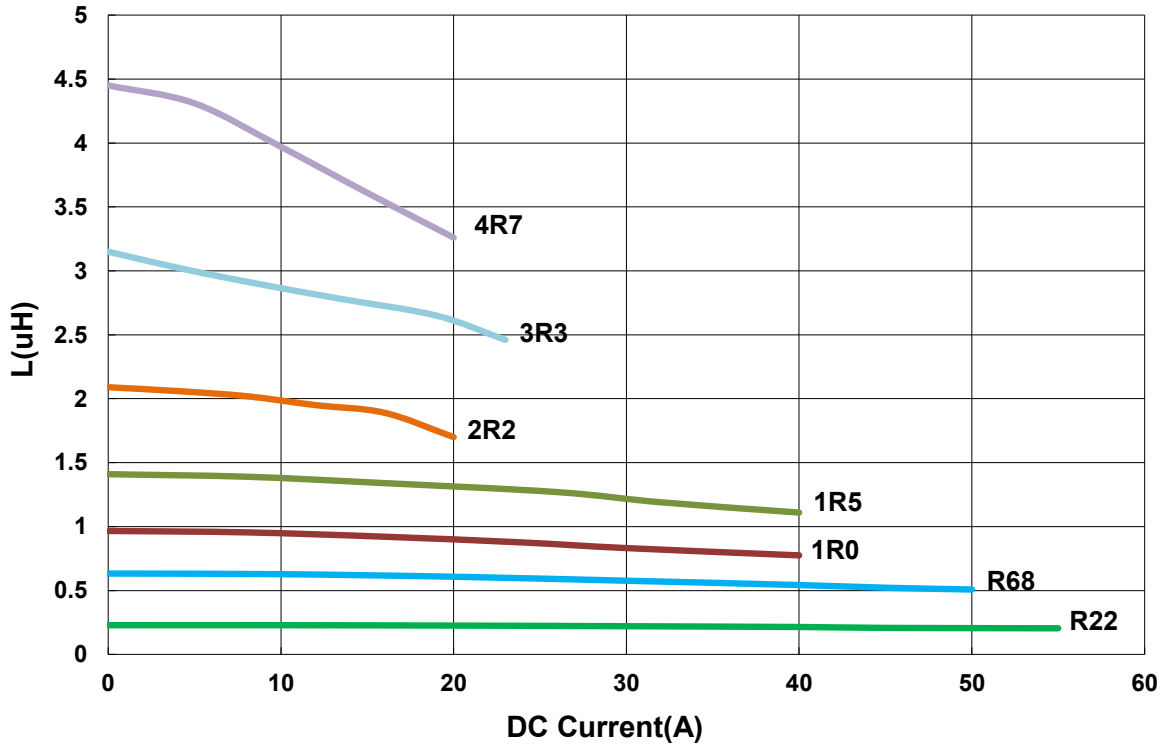
Leaded Power Chokes AFDI Series

**Automotive
AEC-Q200**

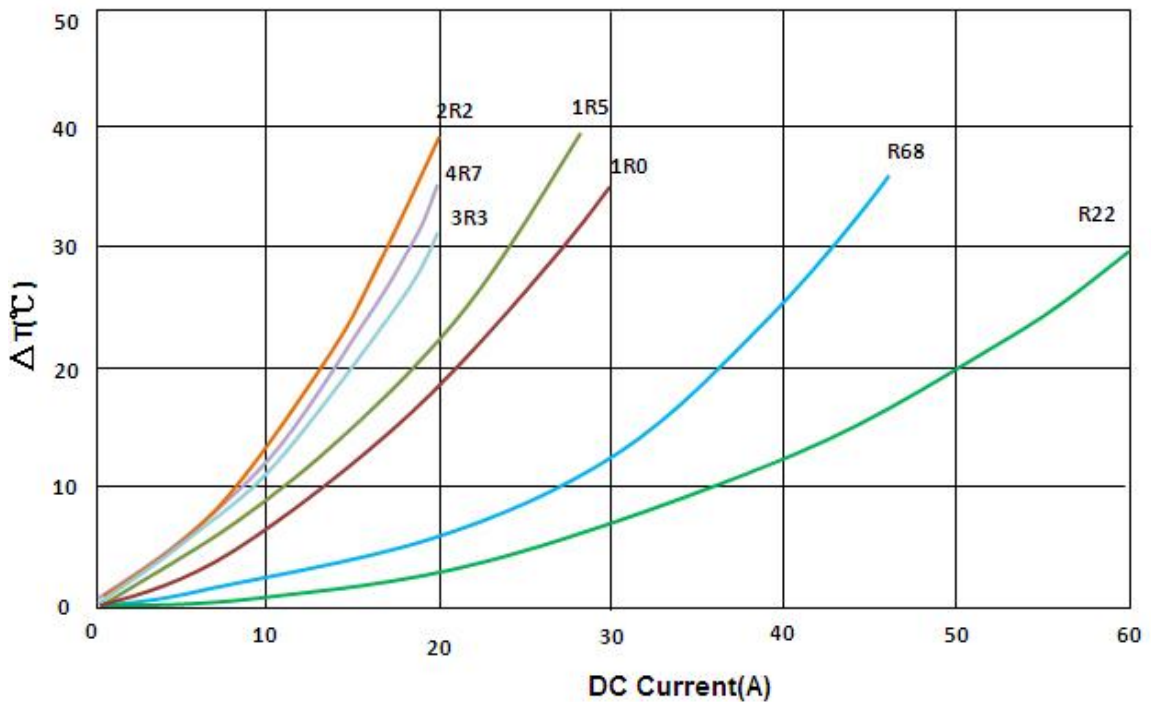
AFDI00131210 Type

Characteristics Graph

Inductance vs. DC Current



Inductance vs. DC Current

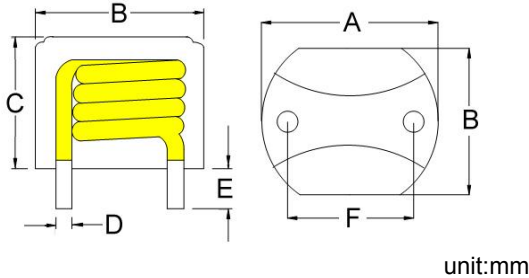


Leaded Power Chokes AFDI Series

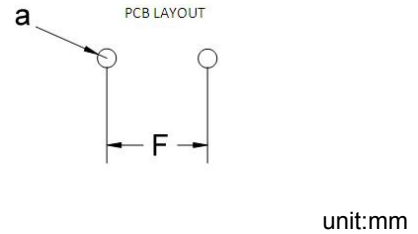
**Automotive
AEC-Q200**

AFDI00161311 Type

Dimensions



Recommended Land Pattern



Electrical Characteristics

Part No.	L (uH)	Test Freq.	RDC(mΩ) Typ(Max)	Isat (A)Typ.	Irms (A)Typ.	ToI. (±%)	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°C ~ 155°C(Including self - temperature rise)
3. Isat for Inductance drop 20% from its value without current
4. Irms for a 40°C temperature rise from 25°C ambient with current
5. Measure Equipment:

L: WK4237
RDC: CHEN HWA502
Isat: WK3260B/ 3265
Irms: WK3260B/ 3265

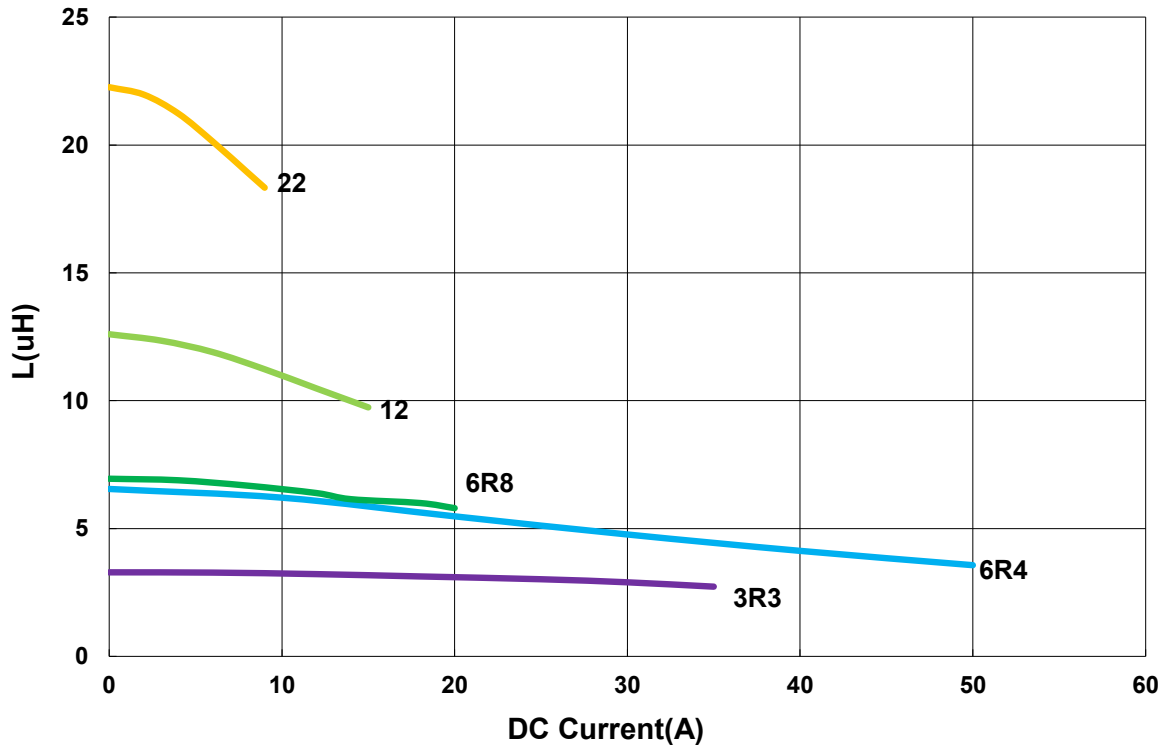
Leaded Power Chokes AFDI Series

**Automotive
AEC-Q200**

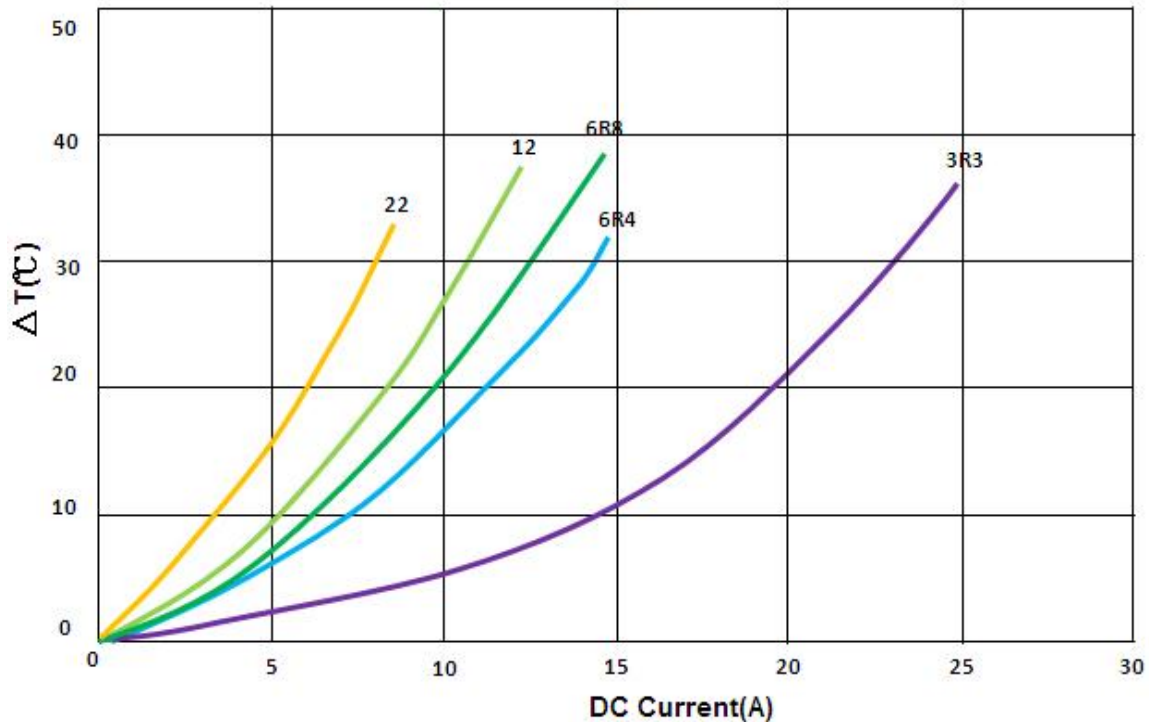
AFDI00161311 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

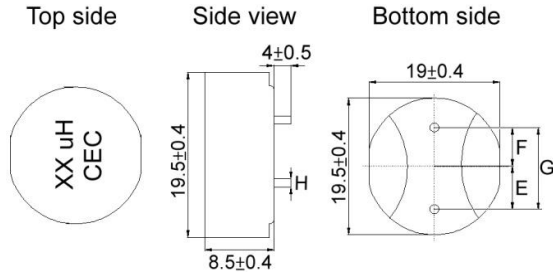


Leaded Power Chokes AFDI Series

**Automotive
AEC-Q200**

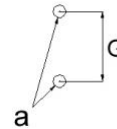
AFDI00191909 Type

Dimensions

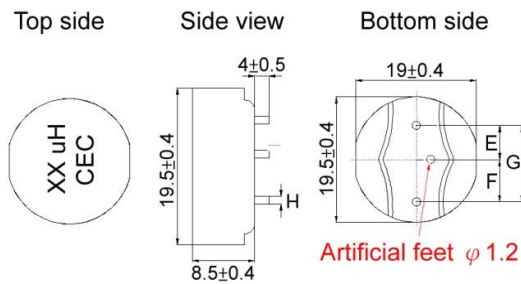


0.47uH~10uH

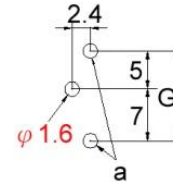
Recommended Land Pattern



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
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°C ~ 155°C(Including self - temperature rise)
3. Isat for Inductance drop 20% from its value without current
4. Irms for a 40°C temperature rise from 25°C ambient with current
5. Measure Equipment:

L: WK4237
RDC: CHEN HWA502
Isat: WK3260B/ 3265
Irms: WK3260B/ 3265

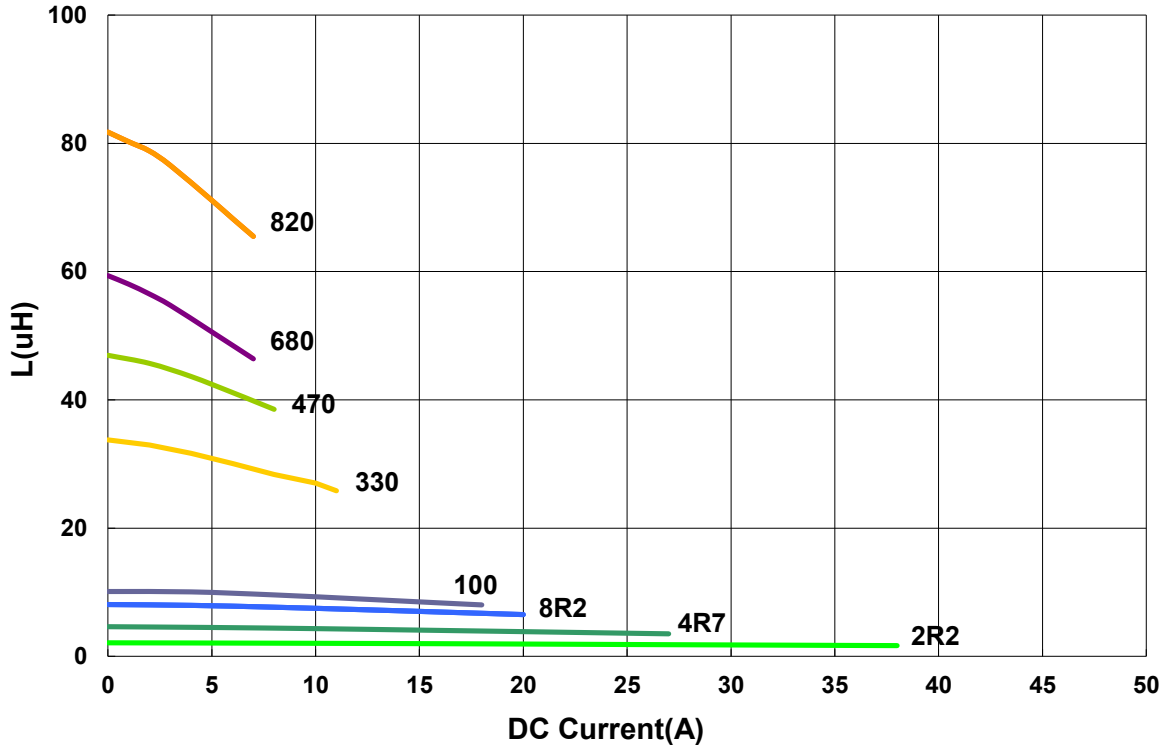
Leaded Power Chokes AFDI Series

**Automotive
AEC-Q200**

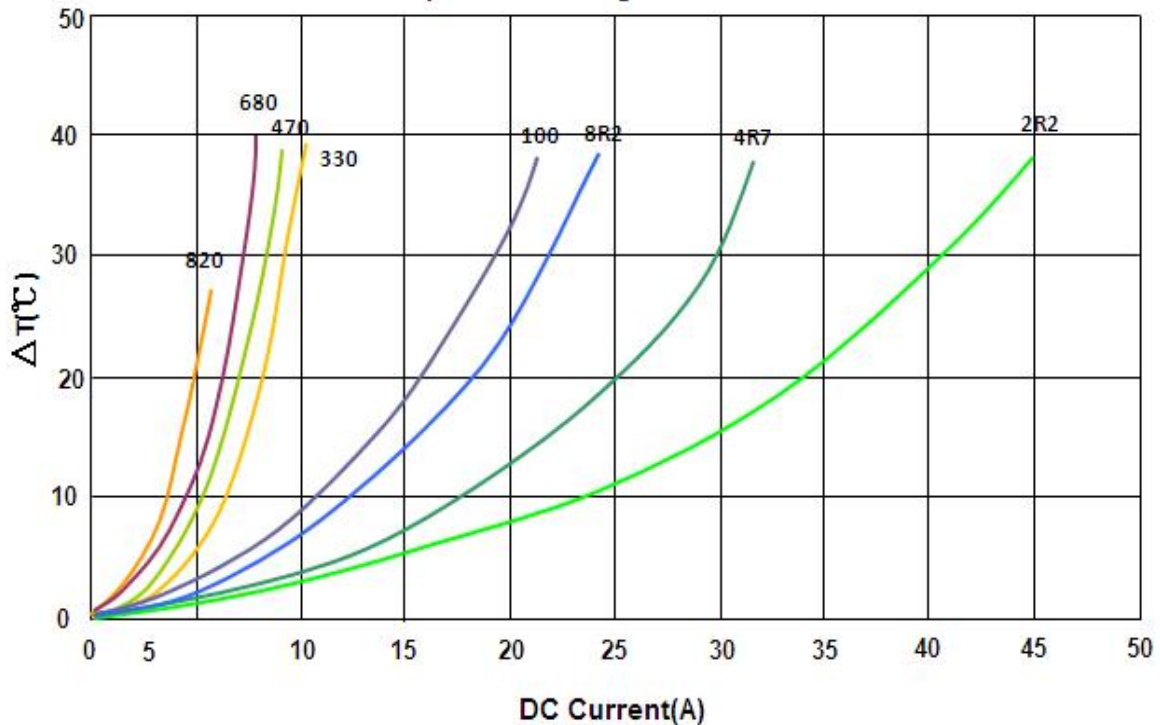
AFDI00191909 Type

■ Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

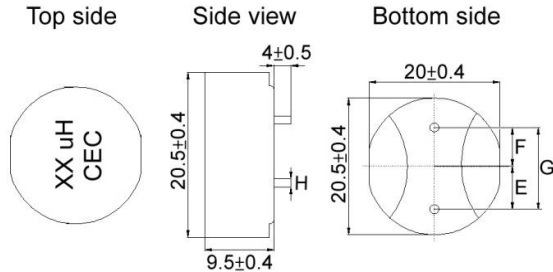


Leaded Power Chokes AFDI Series

**Automotive
AEC-Q200**

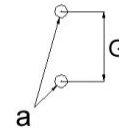
AFDI00212010 Type

■ Dimensions

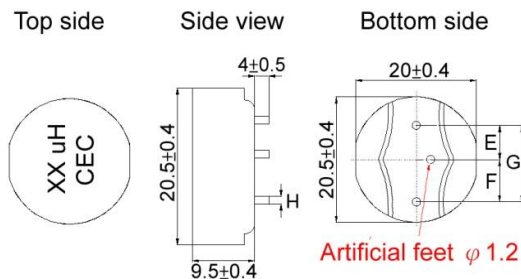


0.47uH~10uH

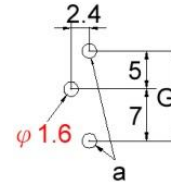
■ Recommended Land Pattern



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
AFDI0021201010M01	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
AFDI0021201022M01	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
AFDI0021201033M01	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
AFDI0021201047M01	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
AFDI0021201068M01	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
AFDI0021201082M01	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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5. Measure Equipment:

L: WK4237
RDC: CHEN HWA502
Isat: WK3260B/ 3265
Irms: WK3260B/ 3265

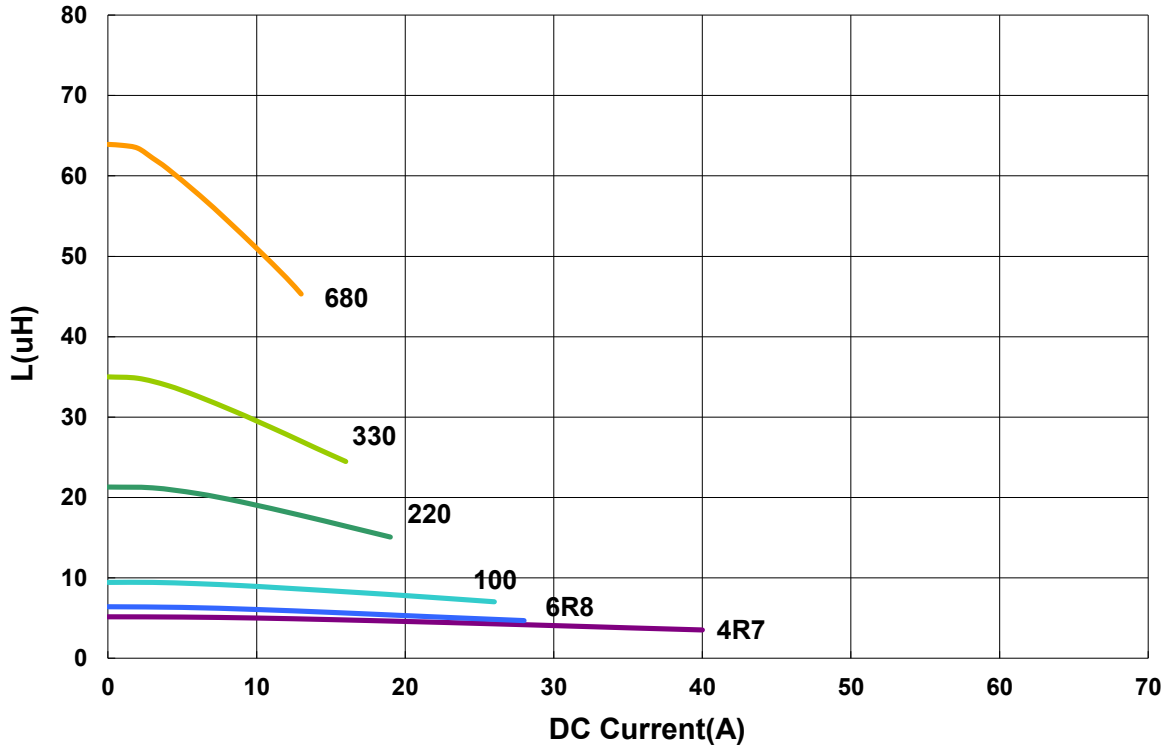
Leaded Power Chokes AFDI Series

**Automotive
AEC-Q200**

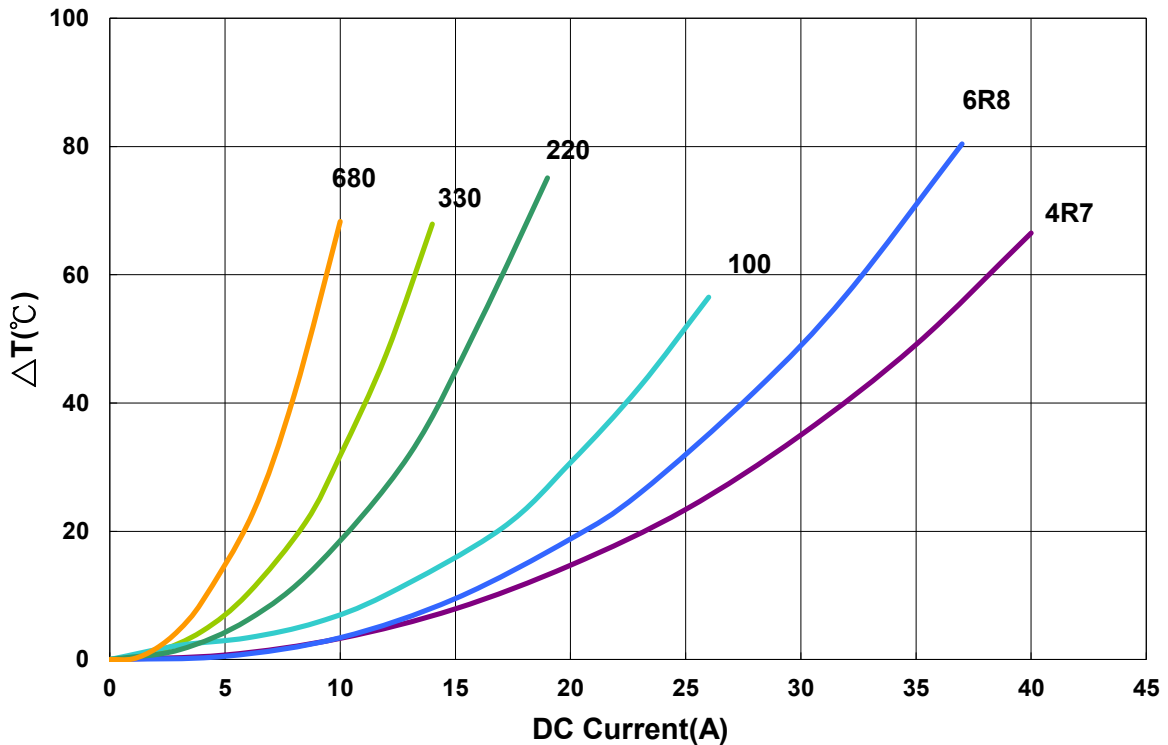
AFDI00212010 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

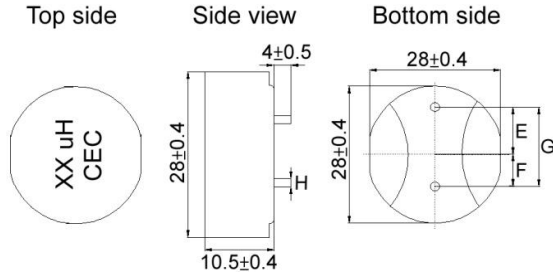


Leaded Power Chokes AFDI Series

**Automotive
AEC-Q200**

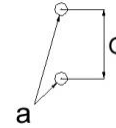
AFDI00282811 Type

Dimensions

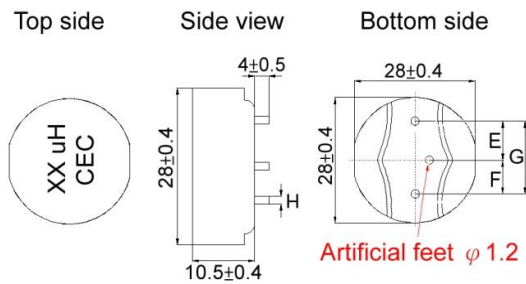


1.0uH~47uH

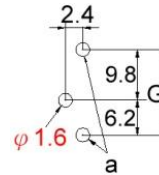
Recommended Land Pattern



unit:mm



68uH~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
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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3. Isat for Inductance drop 20% from its value without current
4. Irms for a 40°C temperature rise from 25°C ambient with current
5. Measure Equipment:

L: WK4237
 RDC: CHEN HWA502
 Isat: WK3260B/ 3265
 Irms: WK3260B/ 3265

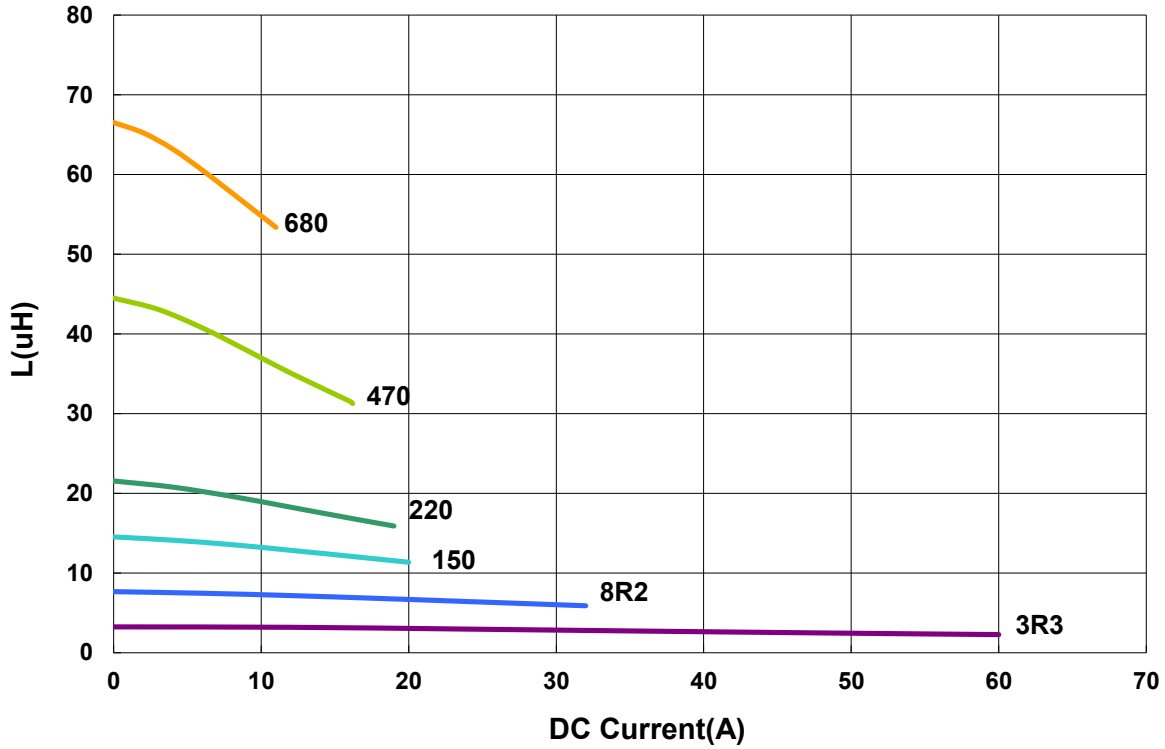
Leaded Power Chokes AFDI Series

**Automotive
AEC-Q200**

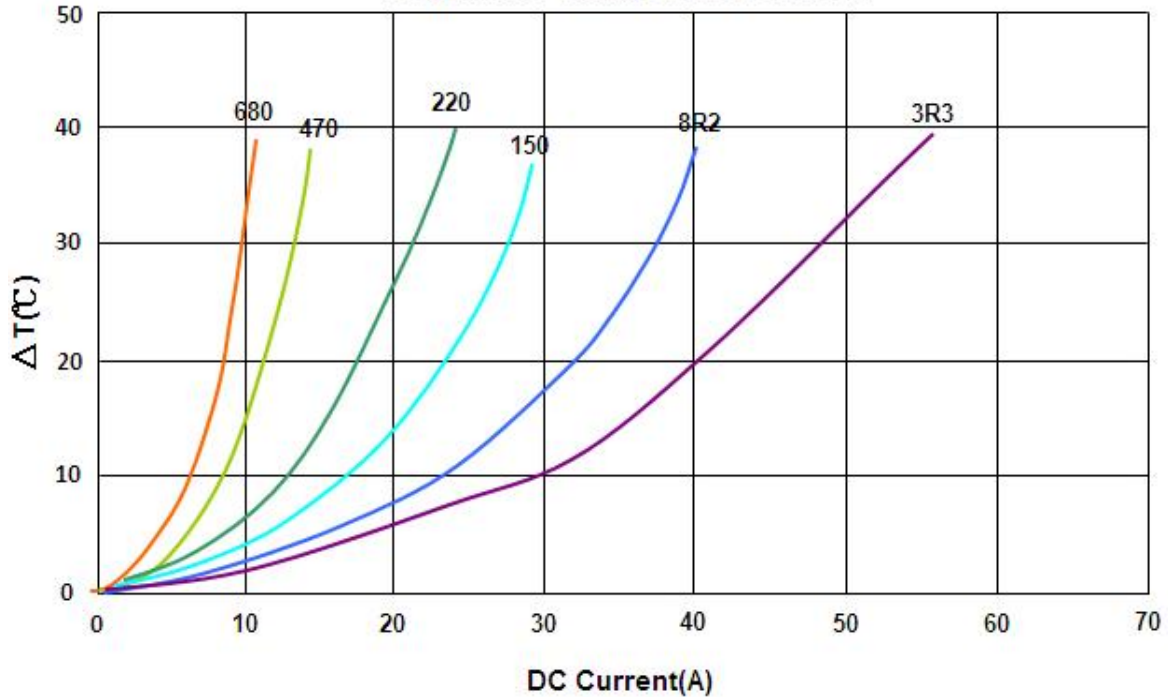
AFDI00282811 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

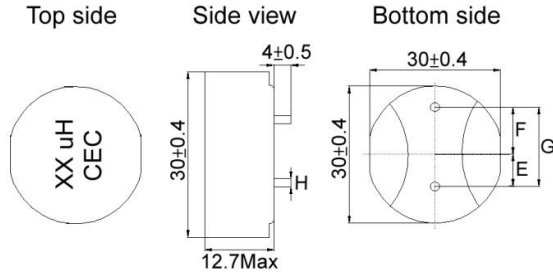


Leaded Power Chokes AFDI Series

**Automotive
AEC-Q200**

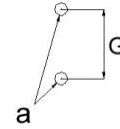
AFDI00303012 Type

Dimensions

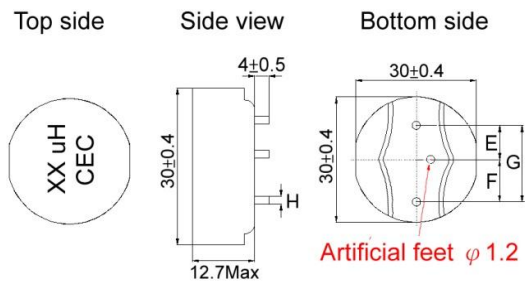


1.0uH~47uH

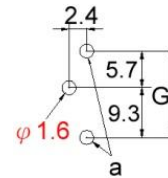
Recommended Land Pattern



unit:mm



68uH~120uH



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±0.59	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%

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4. Irms for a 40°C temperature rise from 25°C ambient with current
5. Measure Equipment:

L: WK4237
 RDC: CHEN HWA502
 Isat: WK3260B/ 3265
 Irms: WK3260B/ 3265

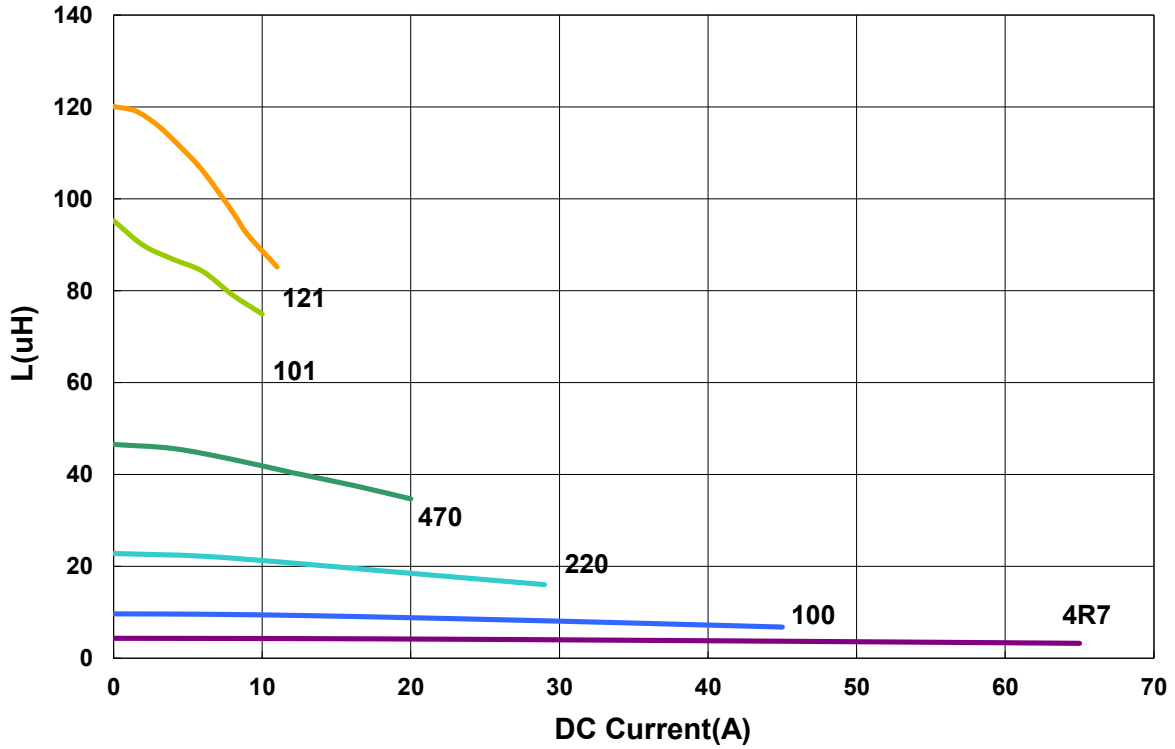
Leaded Power Chokes AFDI Series

**Automotive
AEC-Q200**

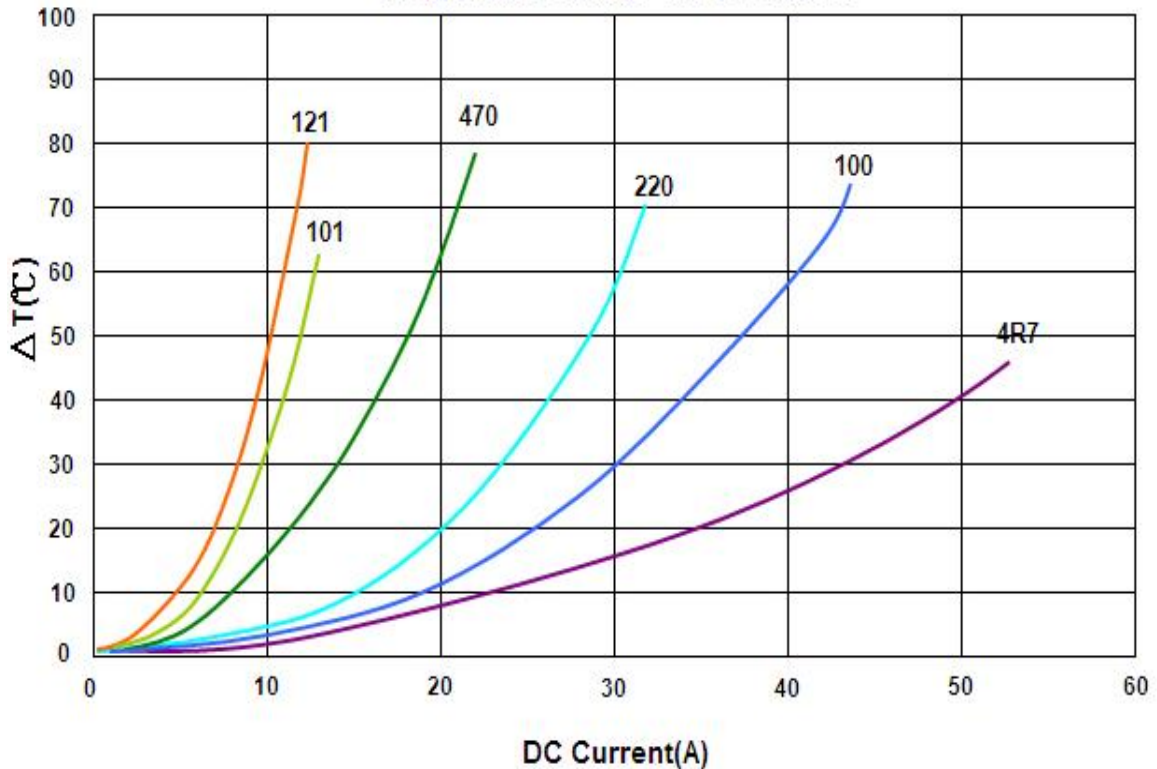
AFDI00303012 Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

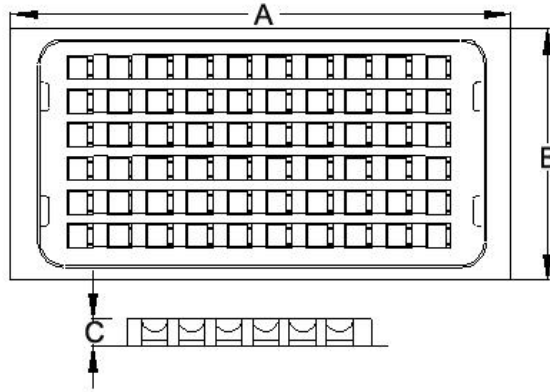


Leaded Power Chokes AFDI Series

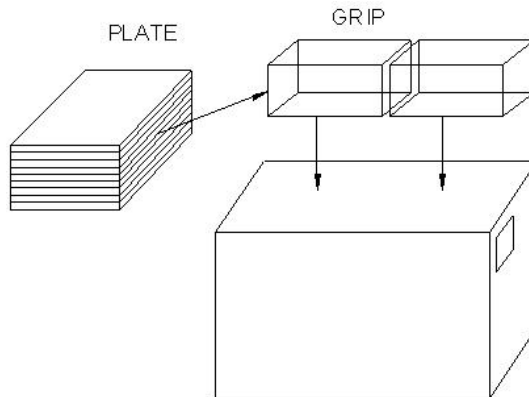
**Automotive
AEC-Q200**

■ 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