

Power Inductor ADCC Series

Automotive
AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant



Power
Circuit

Shield

Wire
Wound

Metal

Ultra
High
Current

Part Numbering

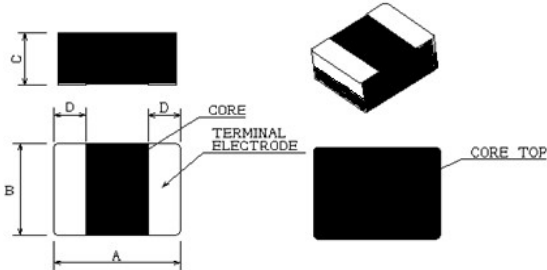
A	DCC	00	201612	1R0	M	C1
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			201612 2.0x1.6x1.2	R15 0.15	M ±20%	
			252012 2.5x2.0x1.2	R24 0.24		
				R33 0.33		
				R47 0.47		
				1R0 1.00		
				1R5 1.50		

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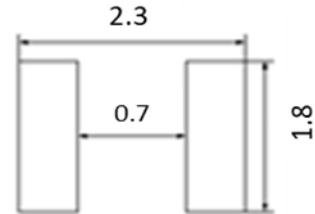
ADCC00201612 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

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

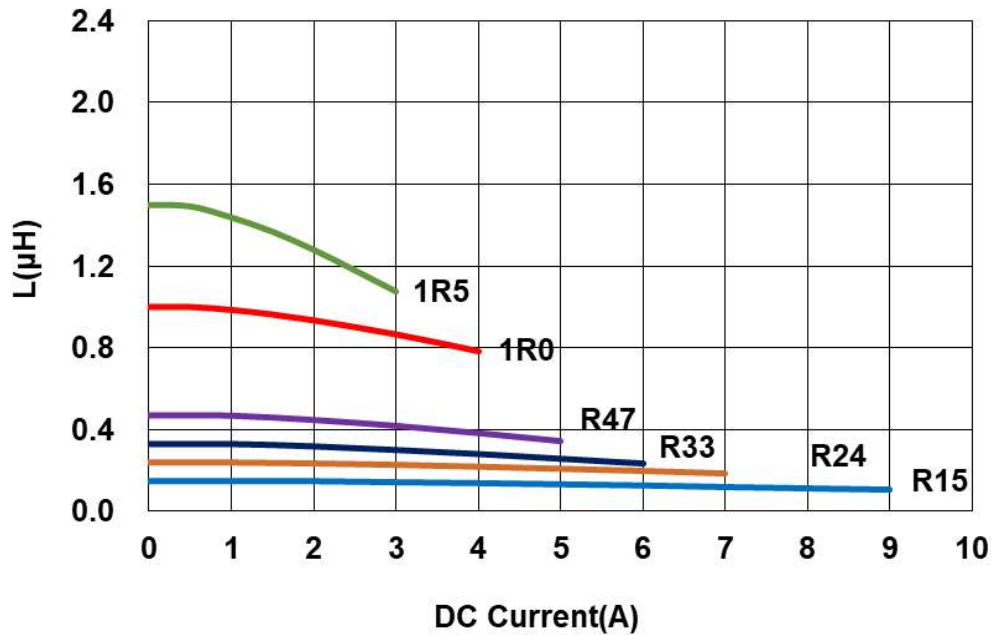
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40°C~125°C (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40°C temperature rise from 25°C ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC
- Measure Equipment:
 - L: WK 6500B/HP4285A (or equivalent), 2MHz
 - RDC: Chen Hwa 502BC/HP4338B (or equivalent)
 - Isat: Agilent E4980A+HP42841A (or equivalent)
 - Irms: Agilent 6641 system DC power supply (or equivalent)

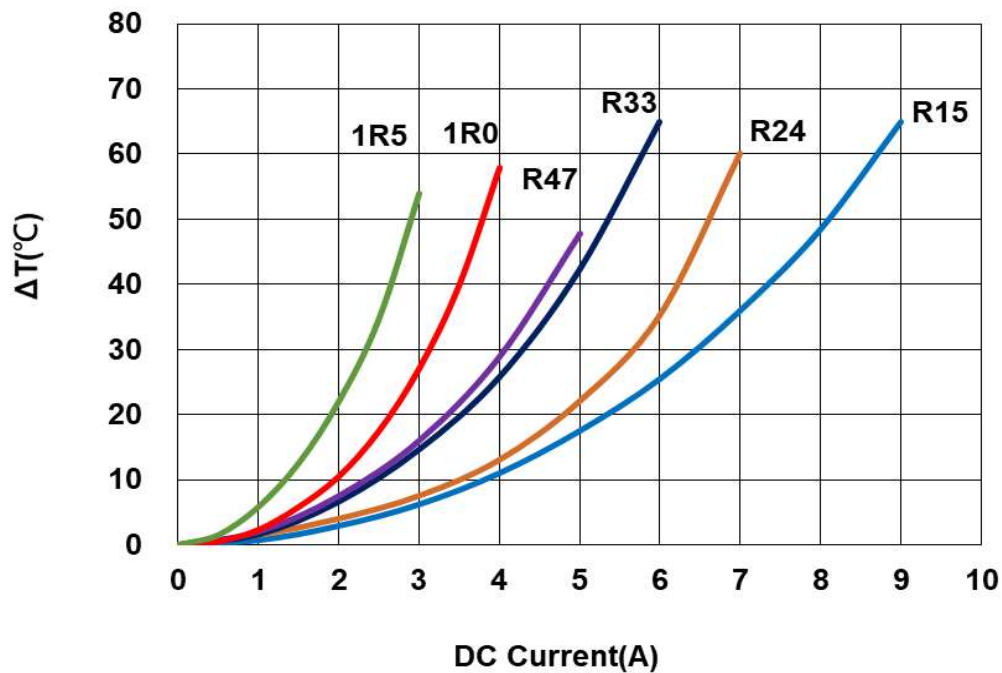
ADCC00201612 Type

■ Characteristics Graph

Inductance vs.DC Current



Temperature Change vs. DC Current

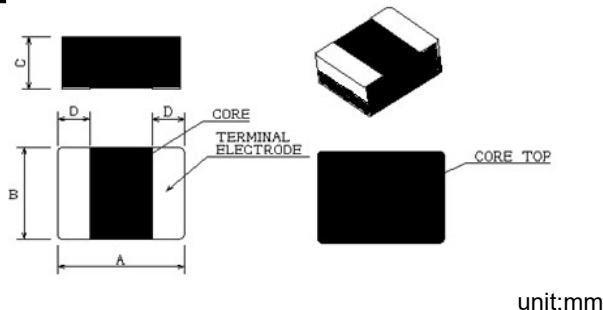


Power Inductor ADCC Series

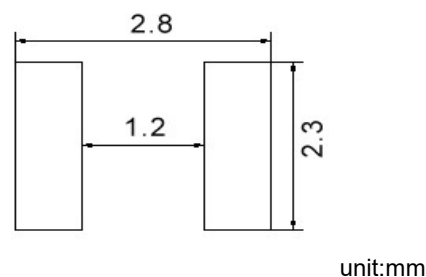
Automotive
AEC-Q200

ADCC00252012 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

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

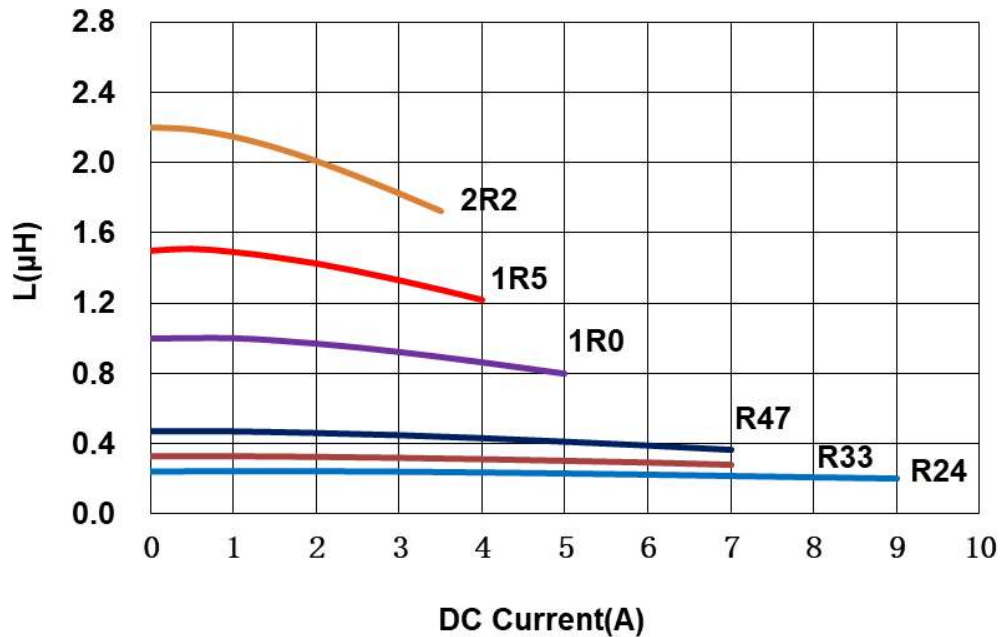
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40°C~125°C (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40°C temperature rise from 25°C ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC
- Measure Equipment:
 - L: WK 6500B/HP4285A (or equivalent), 2MHz
 - RDC: Chen Hwa 502BC/HP4338B (or equivalent)
 - Isat: Agilent E4980A+HP42841A (or equivalent)
 - Irms: Agilent 6641 system DC power supply (or equivalent)

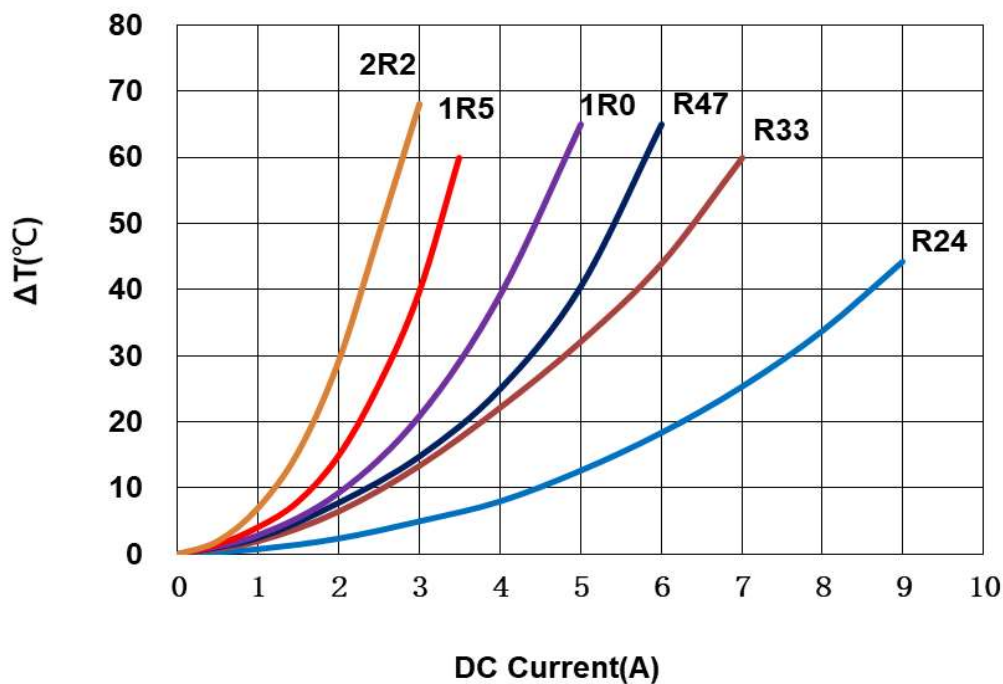
ADCC00252012 Type

Characteristics Graph

Inductance vs.DC Current



Temperature Change vs. DC Current

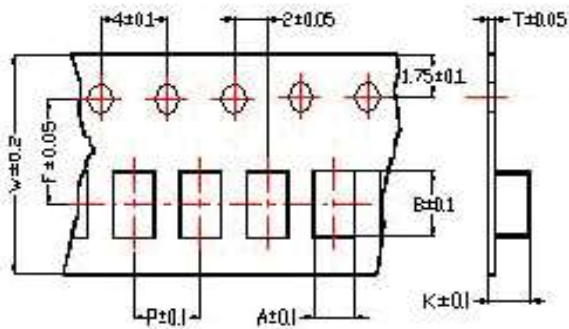


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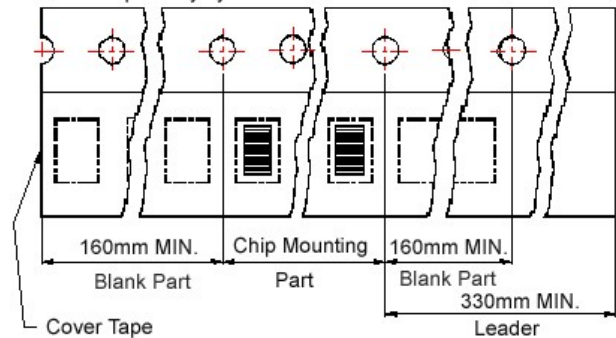
■ Packaging

Tape Dimensions

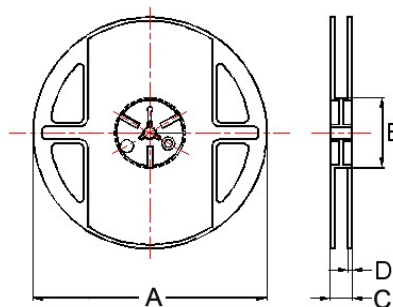


Tape Material

Carrier Tape: Polycarbonate
Cover Tape: Polystyrene



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity PCS / Reel
	A	B	T	W	P	F	K	A	B	C	D	
ADCC00201612	1.90	2.20	0.22	8	4	3.5	1.15	178	60	12	2	3000
ADCC00252012	2.30	2.80	0.22	8	4	3.5	1.35	178	60	12	2	3000

Mouser Electronics

Authorized Distributor

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[ADCC00201612R24MC1](#)