

Power Inductor AMDC Series

Automotive
AEC-Q200

RoHS Compliant
 Halogen Free
 REACH Compliant



Power
Circuit

Shield

Wire
Wound

Metal

Ultra
High
Current

Part Numbering

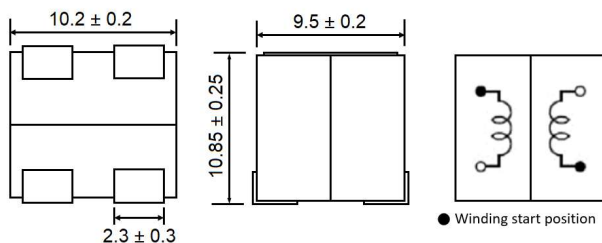
A	MDC	00	1010J0	100	M	QA
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			1010J0 10.2x9.5x10.85	100 10 150 15 220 22	M ±20%	

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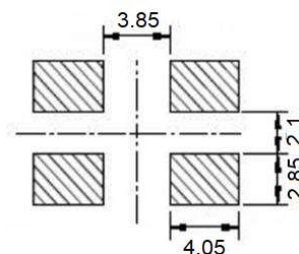
AMDC001010J0 Type

Shapes and Dimensions



unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

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

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

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

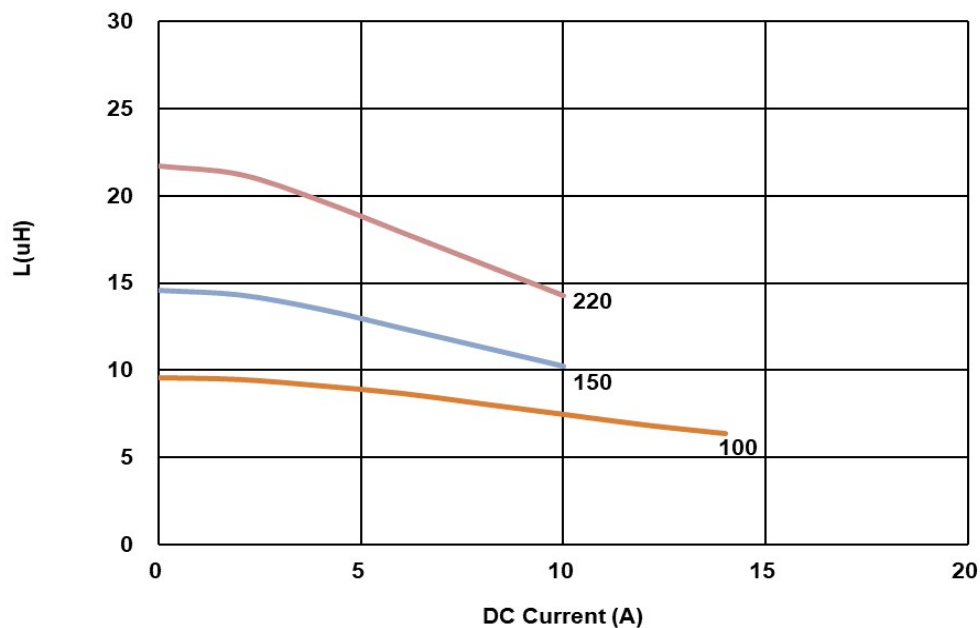
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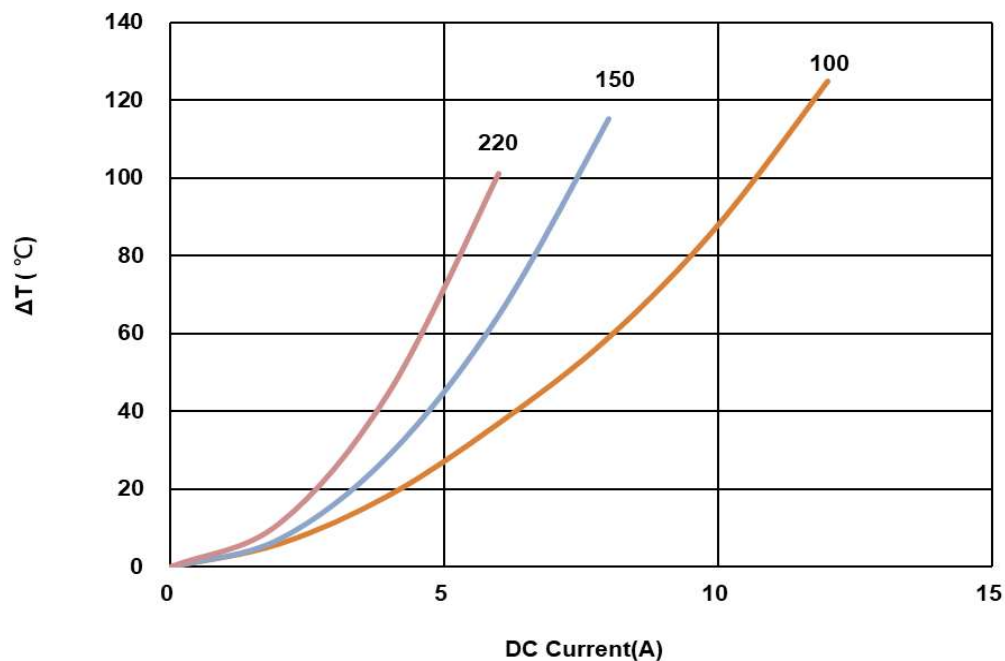
AMDC001010J0 Type

■ Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

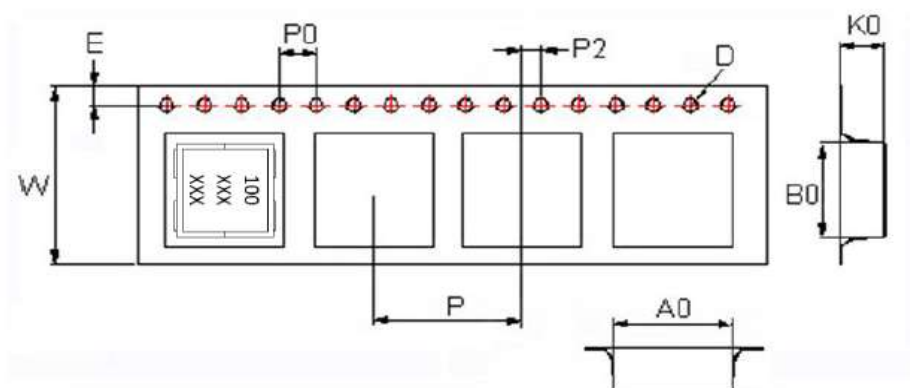


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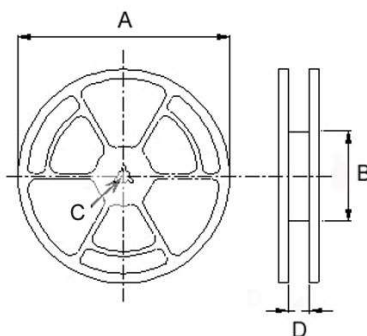
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■ Packaging

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