

Power Inductor AMRM Series

Automotive
AEC-Q200

RoHS Compliant
 Halogen Free
 REACH Compliant



Power
Circuit

Shield

Wire
Wound

Metal

Ultra
High
Current

■ Part Numbering

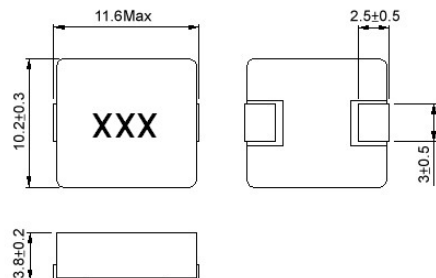
A	MRM	00	101040	1R0	M	A1
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			101040 10.2x11.6x3.8	R22 0.22 1R0 1.0 3R3 3.3	M ±20%	

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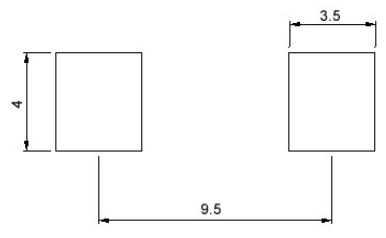
AMRM00101040 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



■ Electrical Characteristics

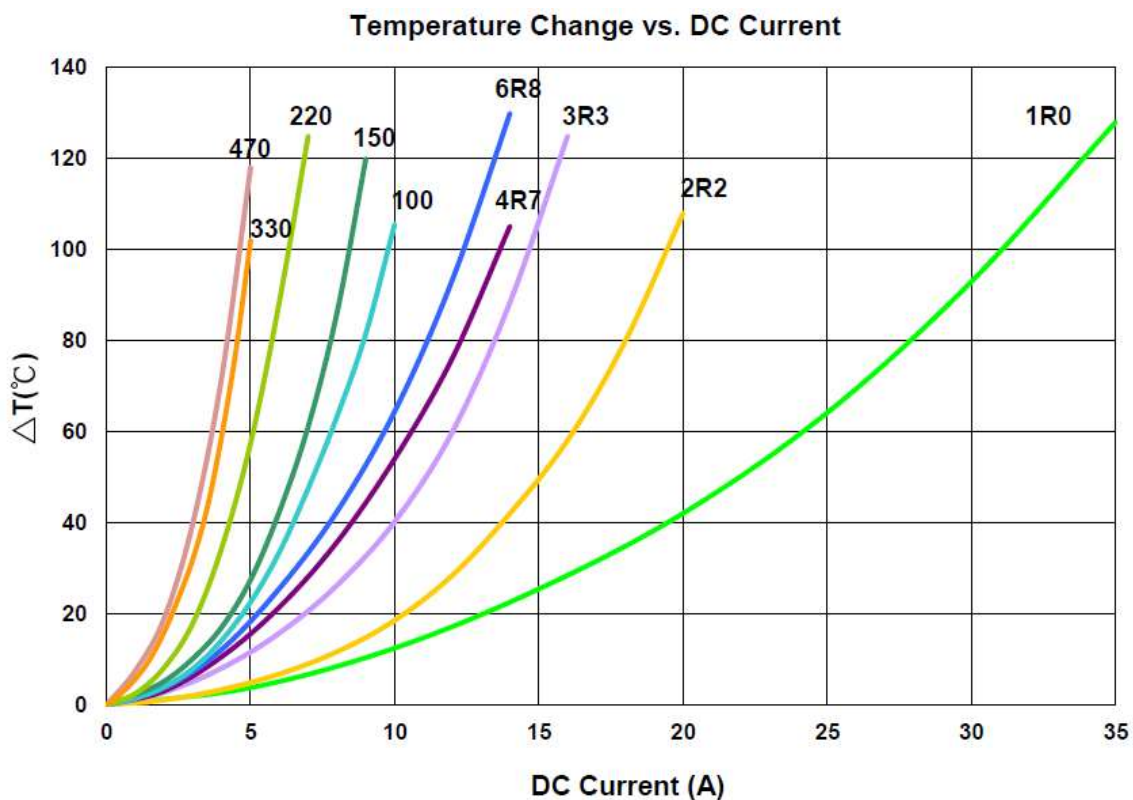
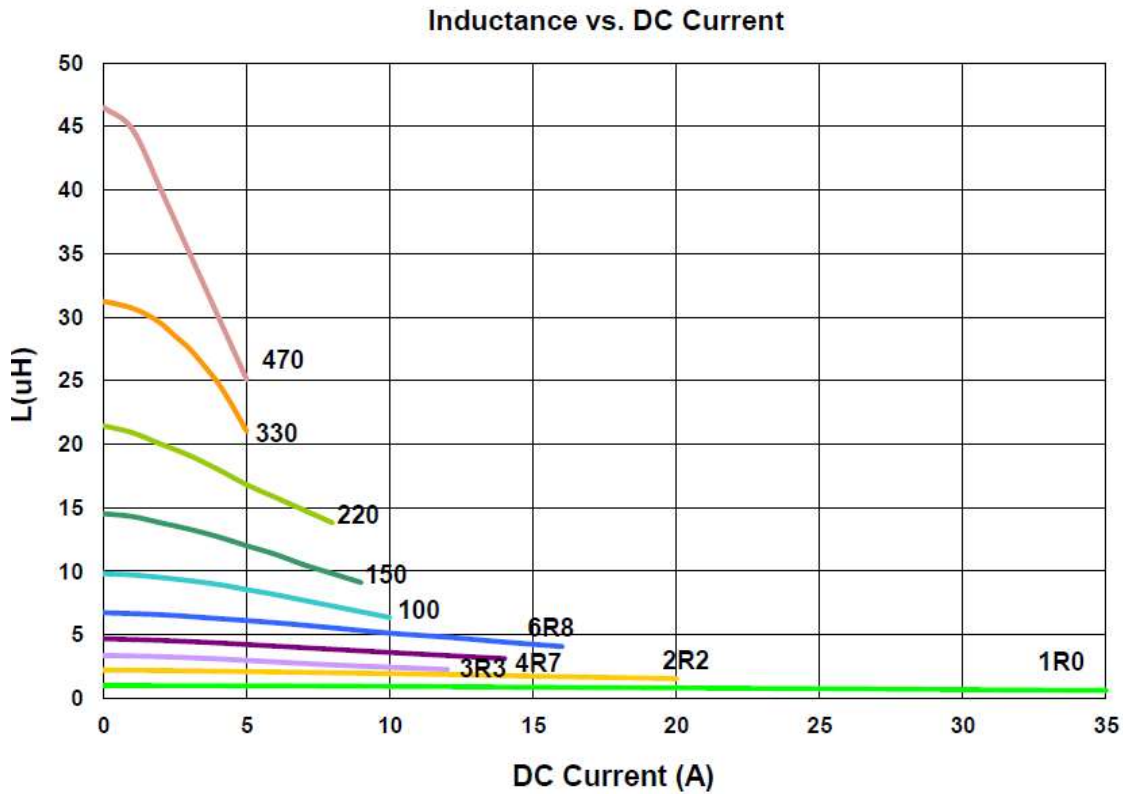
Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMRM001010401R0MA1	1	100kHz/0.5V	3.3(3.0)	20	18	20	1R0
AMRM001010402R2MA1	2.2	100kHz/0.5V	6.8(6.0)	16	14	20	2R2
AMRM001010403R3MA1	3.3	100kHz/0.5V	11(10)	13	11	20	3R3
AMRM001010404R7MA1	4.7	100kHz/0.5V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

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

- Operating temperature range $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$
- 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

AMRM00101040 Type

Characteristics Graph



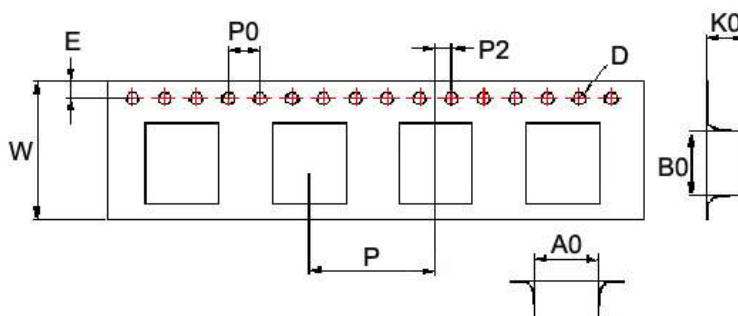
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

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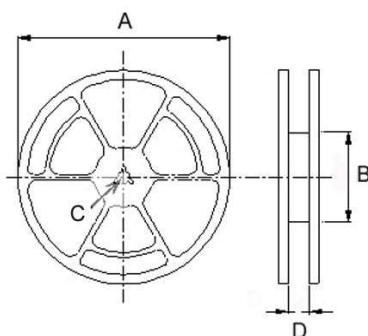
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■ Packaging

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Pulse:

[AMRM00101040100MA1](#) [AMRM00101040150MA1](#) [AMRM001010401R0MA1](#) [AMRM00101040220MA1](#)
[AMRM001010402R2MA1](#) [AMRM00101040330MA1](#) [AMRM001010403R3MA1](#) [AMRM00101040470MA1](#)
[AMRM001010404R7MA1](#) [AMRM001010406R8MA1](#)