

MD Series

SMD Low Profile High Current Molded Inductor Size 5015



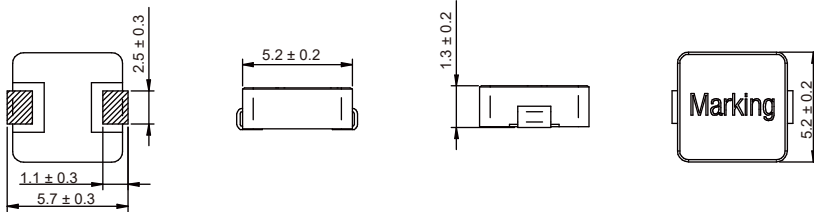
CHARACTERISTICS

- Molded type
- High saturation current due to CIP material
- Nature air gap and no acoustic noise
- Different sizes available
- Quantity: 3500pcs

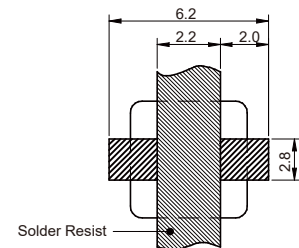
APPLICATION

- High current DC/DC converter
- LC filter

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

Part No	Inductance (μ H)	Tolerance	Temperature Rise Current Typ. (A)	Saturation current Typ. (A)	DCR Typ. (m Ω)	DCR Max. (m Ω)
MD5015-R15N	0.15	$\pm 30\%$	16	25	3.6	4.1
MD5015-R20N	0.20	$\pm 30\%$	15	22.5	3.8	4.2
MD5015-R22N	0.22	$\pm 30\%$	12	20	5.0	6.5
MD5015-R33M	0.33	$\pm 20\%$	9.0	16	8.5	9.8
MD5015-R47M	0.47	$\pm 20\%$	8.0	15	12	13.8
MD5015-R68M	0.68	$\pm 20\%$	7.0	13	14	16.2
MD5015-1R0M	1.00	$\pm 20\%$	6.0	9.0	22	25.3
MD5015-1R5M	1.50	$\pm 20\%$	4.5	7.0	39	45
MD5015-2R2M	2.20	$\pm 20\%$	4.0	6.0	45	52
MD5015-3R3M	3.30	$\pm 20\%$	3.2	4.5	78	90
MD5015-4R7M	4.70	$\pm 20\%$	2.7	4.0	103	118
MD5015-5R6M	5.60	$\pm 20\%$	2.4	3.2	126	152
MD5015-6R8M	6.80	$\pm 20\%$	2.3	3.0	142	171
MD5015-8R2M	8.20	$\pm 20\%$	2.1	2.6	175	210
MD5015-100M	10.0	$\pm 20\%$	2.0	2.3	210	235
MD5015-220M	22.0	$\pm 20\%$	1.2	1.7	405	466

Operating temperature : -40 $^{\circ}$ C ~ +125 $^{\circ}$ C

Temperature rise current : The actual value of DC current when the temperature rise is $\Delta T 40^{\circ}$ C

Saturation Current that will cause initial inductance to drop 20% approximately .

Typical Electrical Characteristics:

