

MD Series

SMD Low Profile High Current Molded Inductor Size 5030



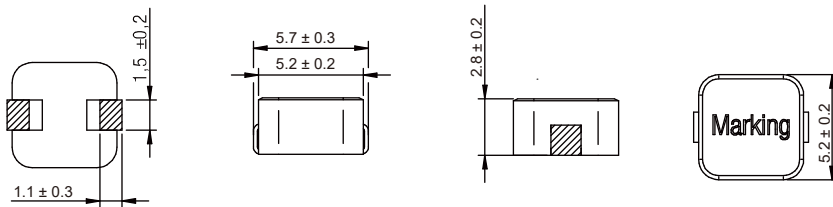
CHARACTERISTICS

- Molded type
- High saturation current due to CIP material
- Nature air gap and no acoustic noise
- Different sizes available
- Quantity: 2000pcs

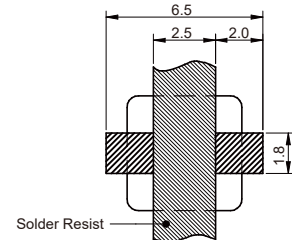
APPLICATION

- High current DC/DC converter
- LC filter

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

Part No	Inductance (μH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation current Typ. (A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
MD5030-R10N	0.10	±30%	23	27	2.5	3.0
MD5030-R15N	0.15	±30%	18	30	2.3	2.7
MD5030-R20N	0.20	±30%	16	25	2.6	3.2
MD5030-R22M	0.22	±20%	15.5	21	3.7	4.4
MD5030-R33M	0.33	±20%	14	18	4.3	5.0
MD5030-R47M	0.47	±20%	12	16	6.4	7.4
MD5030-R56M	0.56	±20%	10	15	8.0	10
MD5030-R68M	0.68	±20%	8.5	14	10	12
MD5030-R82M	0.82	±20%	8.0	12.5	11.5	13
MD5030-1R0M	1.00	±20%	7.0	11	13	14
MD5030-1R2M	1.20	±20%	6.5	11	14	16
MD5030-1R5M	1.50	±20%	6.0	10	16	25
MD5030-2R2M	2.20	±20%	5.5	9.0	25	35
MD5030-3R3M	3.30	±20%	5.0	8.0	32	38
MD5030-4R7M	4.70	±20%	4.6	6.0	50	53
MD5030-5R6M	5.60	±20%	4.25	4.5	55	63
MD5030-6R8M	6.80	±20%	4.0	4.3	68	76.2
MD5030-100M	10.0	±20%	2.75	3.5	110	128

Part No	Inductance (μH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation current Typ. (A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
MD5030-150M	15.0	±20%	2.1	2.6	165	190
MD5030-180M	18.0	±20%	2.0	2.3	195	230
MD5030-220M	22.0	±20%	1.9	1.7	220	250
MD5030-330M	33.0	±20%	1.6	1.6	380	440

Operating temperature : -40 °C ~ +125 °C

Temperature rise current : The actual value of DC current when the temperature rise is ΔT40 °C

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

Typical Electrical Characteristics:

