

MD Series

SMD Low Profile High Current Molded Inductor Size 4012



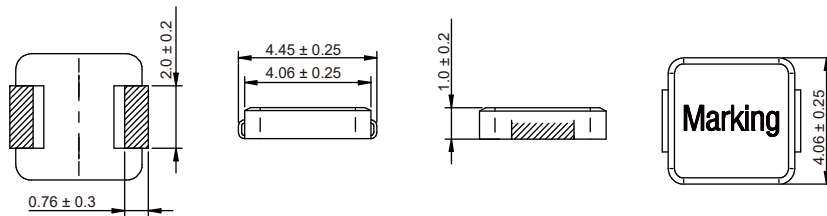
CHARACTERISTICS

- Molded type
- High saturation current due to CIP material
- Nature air gap and no acoustic noise
- Different sizes available
- Quantity: 4000pcs

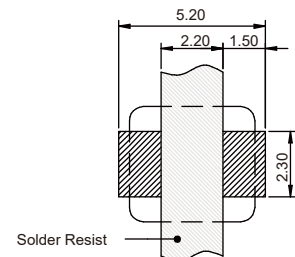
APPLICATION

- 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)
MD4012-R10N	0.10	±30%	11.5	25.0	4.3	5.5
MD4012-R15N	0.15	±30%	10.0	21.5	5.5	6.8
MD4012-R22M	0.22	±20%	8.5	20.0	6.6	8.0
MD4012-R33M	0.33	±20%	7.0	11.0	13.6	16
MD4012-R47M	0.47	±20%	6.0	6.5	18	20
MD4012-R60M	0.60	±20%	5.3	6.0	22.5	26
MD4012-R68M	0.68	±20%	5.0	6.0	32	37
MD4012-1R0M	1.00	±20%	4.0	6.0	41	47
MD4012-1R2M	1.20	±20%	3.5	5.0	48	56
MD4012-1R5M	1.50	±20%	3.0	4.0	55	63.3
MD4012-2R2M	2.20	±20%	2.8	3.5	69.2	80
MD4012-3R3M	3.30	±20%	2.3	3.0	84	97
MD4012-4R7M	4.70	±20%	2.0	2.5	128	145
MD4012-5R6M	5.60	±20%	1.7	2.3	180	208
MD4012-6R8M	6.80	±20%	1.5	1.7	300	360

Part No	Inductance (μH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation current Typ. (A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
MD4012-8R2M	8.20	±20%	1.4	1.6	313	376
MD4012-100M	10.0	±20%	1.3	1.4	410	463
MD4012-220M	22.0	±20%	0.8	1.0	950	1050

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:

