

MD Series
SMD Low Profile High Current Molded Inductor
Size 1870



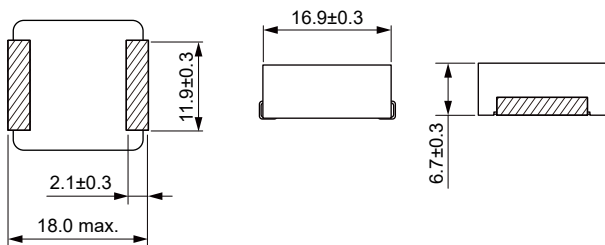
FEATURES

- Molded type
- High saturation current due to CIP material
- Nature air gap and no acoustic noise
- Different sizes available
- Operating temperature range - 40 °C to + 125 °C
- Quantity: 200pcs

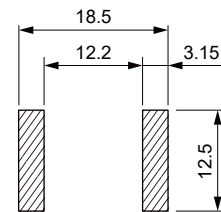
APPLICATION

- High current DC/DC converter
- LC filter

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

Part No	Inductance @100KHz/1V (µH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation Current Typ. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)
MD1870-R45M	0.45	±20%	62.0	125	0.80	0.96
MD1870-1R0M	1.00	±20%	52.0	70.0	1.60	2.00
MD1870-1R5M	1.50	±20%	47.0	65.0	2.00	2.50
MD1870-2R2M	2.20	±20%	43.5	62.0	2.40	2.70
MD1870-3R3M	3.30	±20%	28.0	54.0	3.50	3.90
MD1870-4R7M	4.70	±20%	25.0	50.0	4.80	5.50
MD1870-5R6M	5.60	±20%	21.0	45.0	5.80	7.05
MD1870-6R8M	6.80	±20%	19.0	39.0	8.40	9.20
MD1870-8R2M	8.20	±20%	18.0	31.0	9.60	10.8
MD1870-100M	10.0	±20%	16.5	29.0	11.8	13.0
MD1870-150M	15.0	±20%	12.5	27.0	17.8	20.5
MD1870-220M	22.0	±20%	12.0	23.0	25.1	26.5
MD1870-330M	33.0	±20%	10.7	20.0	38.0	44.0
MD1870-470M	47.0	±20%	8.70	16.0	48.0	55.0
MD1870-560M	56.0	±20%	7.80	15.0	54.0	62.0
MD1870-680M	68.0	±20%	7.00	13.0	68.0	80.0
MD1870-101M	100	±20%	5.30	12.0	102	118

Saturation Current will cause L to drop approximately 30%
 Temperature Rise Current: The actual value of DC current when the temperature rise is $\Delta T=40^{\circ}\text{C}$

Typical Electrical Characteristics:

