

MD Series

SMD Low Profile High Current Molded Inductor

Size 1870



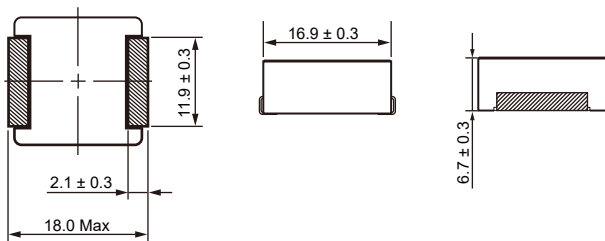
CHARACTERISTICS

- Molded type
- High saturation current due to CIP material
- Nature air gap and no acoustic noise
- Different sizes available
- Quantity: 300pcs

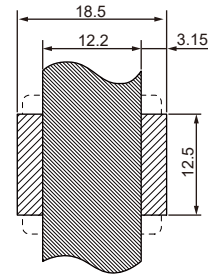
APPLICATION

- 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)
MD1870-R45M	0.45	±20%	62	125	0.8	0.96
MD1870-1R0M	1.00	±20%	52	70	1.6	2.0
MD1870-1R3M	1.30	±20%	49	67	1.7	2.3
MD1870-1R5M	1.50	±20%	47	65	2.0	2.5
MD1870-2R2M	2.20	±20%	43.5	62	2.4	2.7
MD1870-3R3M	3.30	±20%	28	54	3.5	3.9
MD1870-4R7M	4.70	±20%	25	50	4.8	5.5
MD1870-5R6M	5.60	±20%	21	45	5.8	7.05
MD1870-6R8M	6.80	±20%	19	39	8.4	9.2
MD1870-8R2M	8.20	±20%	18	31	9.6	10.8
MD1870-100M	10.0	±20%	16.5	29	11.8	13.0
MD1870-150M	15.0	±20%	12.5	27	17.8	20.5
MD1870-220M	22.0	±20%	12	23	25.1	26.5
MD1870-330M	33.0	±20%	10.7	20	38	44
MD1870-390M	39.0	±20%	9.2	18	40	48
MD1870-470M	47.0	±20%	8.7	16	48	55
MD1870-560M	56.0	±20%	7.8	15	54	62

Part No	Inductance (μH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation current Typ. (A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
MD1870-680M	68.0	±20%	7.0	13	68	80
MD1870-101M	100	±20%	5.3	12	102	118

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 30% approximately .

Typical Electrical Characteristics:

