

MD Series

SMD Low Profile High Current Molded Inductor Size 7050



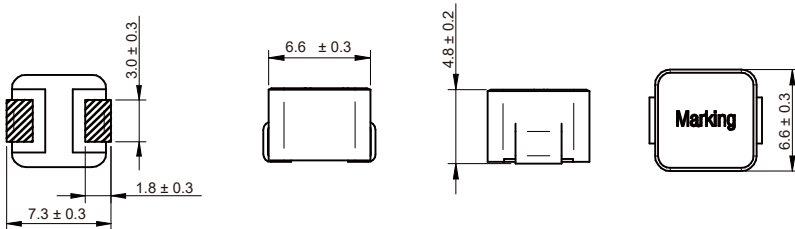
CHARACTERISTICS

- Molded type
- High saturation current due to CIP material
- Nature air gap and no acoustic noise
- Different sizes available
- Quantity: 800pcs

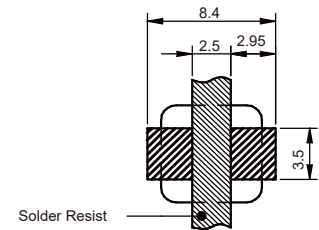
APPLICATION

- 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)
MD7050-R33M	0.33	$\pm 20\%$	25	32	2.5	3.0
MD7050-R47M	0.47	$\pm 20\%$	22	30	3.5	3.9
MD7050-R56M	0.56	$\pm 20\%$	20	27	3.6	4.2
MD7050-R68M	0.68	$\pm 20\%$	18	24	4.0	4.5
MD7050-R82M	0.82	$\pm 20\%$	15	22	4.6	4.9
MD7050-1R0M	1.00	$\pm 20\%$	15	20	6.1	6.5
MD7050-1R2M	1.20	$\pm 20\%$	14	18	6.7	7.5
MD7050-1R5M	1.50	$\pm 20\%$	12	16.5	8.6	9.0
MD7050-2R2M	2.20	$\pm 20\%$	10	14	11.2	12
MD7050-3R3M	3.30	$\pm 20\%$	8.0	12	19	20.9
MD7050-4R7M	4.70	$\pm 20\%$	6.5	10	28	30.8
MD7050-5R6M	5.60	$\pm 20\%$	6.0	9.0	43.5	49
MD7050-6R8M	6.80	$\pm 20\%$	5.5	8.5	46	51.5
MD7050-8R2M	8.20	$\pm 20\%$	5.0	8.0	56	63
MD7050-100M	10.0	$\pm 20\%$	4.0	7.5	60	69
MD7050-150M	15.0	$\pm 20\%$	3.5	6.0	81	92

Part No	Inductance (μH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation current Typ. (A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
MD7050-220M	22.0	±20%	2.5	5.5	140	170
MD7050-330M	33.0	±20%	2.0	3.5	173	200
MD7050-470M	47.0	±20%	1.9	2.7	290	330
MD7050-560M	56.0	±20%	1.6	2.1	342	396
MD7050-680M	68.0	±20%	1.2	2.0	386	445

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:

