

# MD Series

## SMD Low Profile High Current Molded Inductor

### Size 7050



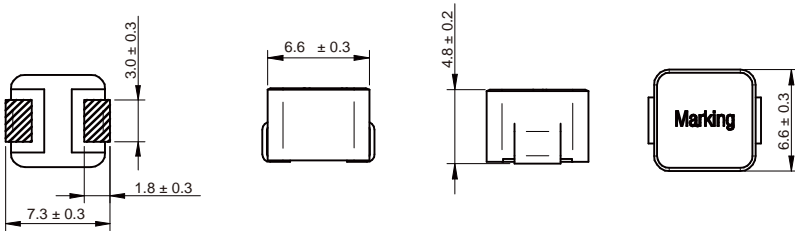
#### CHARACTERISTICS

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

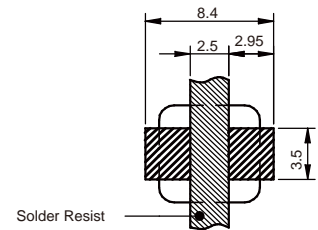
#### APPLICATION

- High current DC/DC converter
- LC filter

#### Dimensions: [mm]



#### Land Pattern: [mm]



#### Electrical Properties:

Part No	Inductance (μH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation current Typ. (A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
MD7050-R33M	0.33	±20%	25	32	2.5	3.0
MD7050-R47M	0.47	±20%	22	30	3.5	3.9
MD7050-R56M	0.56	±20%	20	27	3.6	4.2
MD7050-R68M	0.68	±20%	18	24	4.0	4.5
MD7050-R82M	0.82	±20%	15	22	4.6	4.9
MD7050-1R0M	1.00	±20%	15	20	6.1	6.5
MD7050-1R2M	1.20	±20%	14	18	6.7	7.5
MD7050-1R5M	1.50	±20%	12	16.5	8.6	9.0
MD7050-2R2M	2.20	±20%	10	14	11.2	12
MD7050-3R3M	3.30	±20%	8.0	12	19	20.9
MD7050-4R7M	4.70	±20%	6.5	10	28	30.8
MD7050-5R6M	5.60	±20%	6.0	9.0	43.5	49
MD7050-6R8M	6.80	±20%	5.5	8.5	46	51.5
MD7050-8R2M	8.20	±20%	5.0	8.0	56	63
MD7050-100M	10.0	±20%	4.0	7.5	60	69
MD7050-150M	15.0	±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 T40°C

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

### Typical Electrical Characteristics:

