

MD Series
SMD Low Profile High Current Molded Inductor
Size 7030



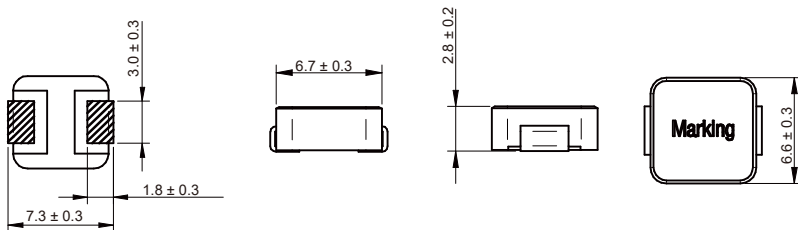
CHARACTERISTICS

- Molded type
- High saturation current due to CIP material
- Nature air gap and no acoustic noise
- Different sizes available
- Quantity: 1000pcs

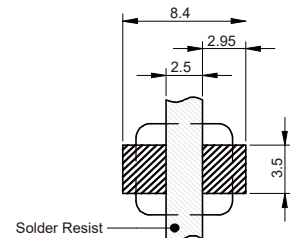
APPLICATION

- 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)
MD7030-R10N	0.10	±30%	32.5	60	1.2	1.7
MD7030-R22N	0.22	±30%	23	40	2.1	2.8
MD7030-R33M	0.33	±20%	20	32	3.5	3.9
MD7030-R47M	0.47	±20%	17.5	26	4.0	4.2
MD7030-R56M	0.56	±20%	16.5	25.5	4.7	5.0
MD7030-R68M	0.68	±20%	15.5	25	4.8	5.5
MD7030-R82M	0.82	±20%	13	24	6.7	8.0
MD7030-1R0M	1.00	±20%	11	22	8.3	10
MD7030-1R5M	1.50	±20%	9.0	18	13	15
MD7030-1R8M	1.80	±20%	8.5	16	14	17
MD7030-2R2M	2.20	±20%	8.0	14	18	20
MD7030-2R7M	2.70	±20%	7.0	13	24	27
MD7030-3R3M	3.30	±20%	6.0	13.5	28	30
MD7030-4R7M	4.70	±20%	5.5	10	37	40
MD7030-5R6M	5.60	±20%	5.0	9.0	43	48
MD7030-6R8M	6.80	±20%	4.5	8.0	54	60

Part No	Inductance (μH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation current Typ. (A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
MD7030-8R2M	8.20	±20%	4.0	7.5	64	68
MD7030-100M	10.0	±20%	3.5	6.0	75	85
MD7030-150M	15.0	±20%	3.0	4.0	107	123
MD7030-220M	22.0	±20%	2.0	3.5	165	190
MD7030-330M	33.0	±20%	2.0	2.5	200	240
MD7030-470M	47.0	±20%	1.75	2.0	302	363

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:

