MD Series

SMD Low Profile High Current Molded Inductor

Size 4020



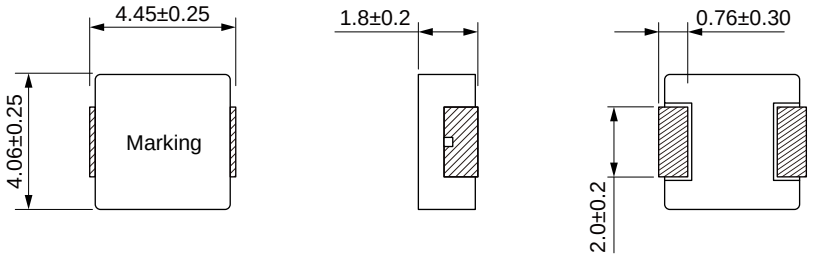
CHARACTERISTICS

- Molded type
- High satura on current due to CIP material
- Nature air gap and no acous c noise
- Di erent sizes available
- Opera ng temperature: -40 to +125 ℃
- Quan ty: 3000pcs

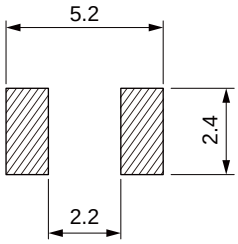
APPLICATION

- High current DC/DC converter
- LC filter

Dimensions: [mm]



Land Pattern: [mm]



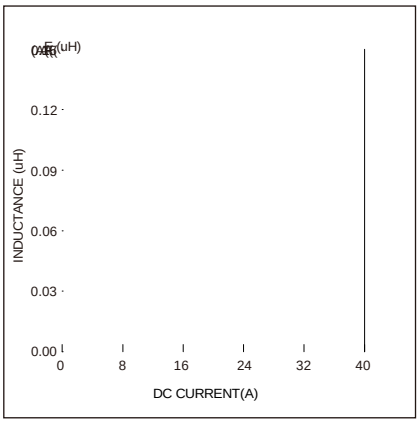
Electrical Properties:

Part No	Inductance @ 100KHz/1V (μH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation Current Typ. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)
MD4020-R10N	0.10	±30%	14.0	35	3.20	4.00
MD4020-R22N	0.22	±30%	13.0	24	6.60	7.30
MD4020-R33M	0.33	±20%	10.0	18	7.80	8.60
MD4020-R47M	0.47	±20%	8.00	12	11.2	14.0
MD4020-R56M	0.56	±20%	7.30	10	13.5	16.0
MD4020-R68M	0.68	±20%	7.00	10	16.0	19.0
MD4020-1R0M	1.00	±20%	5.00	8.5	22.0	27.0
MD4020-1R5M	1.50	±20%	4.50	7.0	34.8	42.0
MD4020-2R2M	2.20	±20%	4.00	6.0	51.0	61.0
MD4020-3R3M	3.30	±20%	3.50	4.0	69.0	76.0
MD4020-4R7M	4.70	±20%	2.60	3.5	95.0	105
MD4020-5R6M	5.60	±20%	2.20	3.0	112	125
MD4020-6R8M	6.80	±20%	2.10	2.8	150	172
MD4020-8R2M	8.20	±20%	2.00	2.5	158	180
MD4020-100M	10.0	±20%	1.80	2.3	215	243
MD4020-150M	15.0	±20%	1.50	1.9	325	374
MD4020-220M	22.0	±20%	1.20	1.4	470	500

Temperature rise current : The actual value of DC current when the temperature rise is ΔT40 ℃

Satura on Current will cause L to drop approximately 30%

Typical Electrical Characteristics:



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