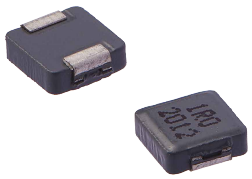
MD Series

SMD Low Profile High Current Molded Inductor

Size 5020



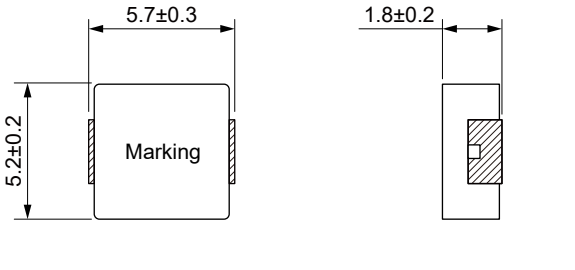
CHARACTERISTICS

- Molded type
- High saturation current due to CIP material
- Nature air gap and no acoustic noise
- Different sizes available
- Quantity: 3000pcs

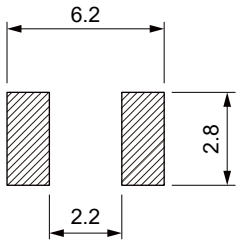
APPLICATION

- 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)
MD5020-R10N	0.10	±30%	18	45	3.6	4.0
MD5020-R15N	0.15	±30%	16	27	3.8	4.6
MD5020-R22M	0.22	±20%	15	25	4.0	5.5
MD5020-R33M	0.33	±20%	12	21.3	6.3	7.3
MD5020-R47M	0.47	±20%	11.5	18	7.3	8.6
MD5020-R68M	0.68	±20%	10	12.8	11	12.4
MD5020-1R0M	1.00	±20%	7.0	13.7	17.5	20
MD5020-1R5M	1.50	±20%	5.5	9.8	26.5	30.5
MD5020-2R2M	2.20	±20%	4.2	9.0	42	50
MD5020-3R3M	3.30	±20%	3.3	7.3	66	76
MD5020-4R7M	4.70	±20%	2.8	5.0	103	116
MD5020-5R6M	5.60	±20%	2.5	4.0	112	122
MD5020-6R8M	6.80	±20%	2.4	3.8	130	150
MD5020-8R2M	8.20	±20%	2.3	3.5	148	171

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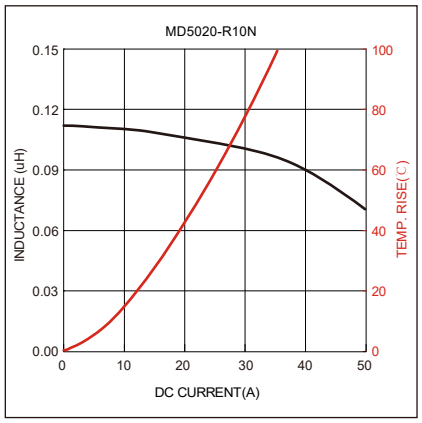
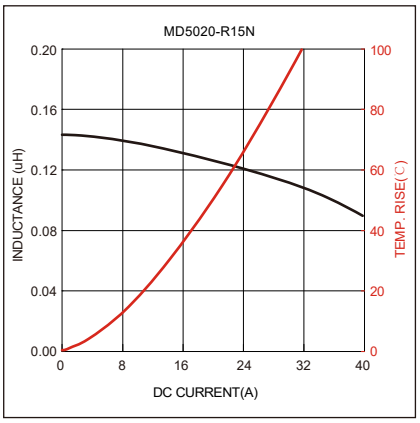
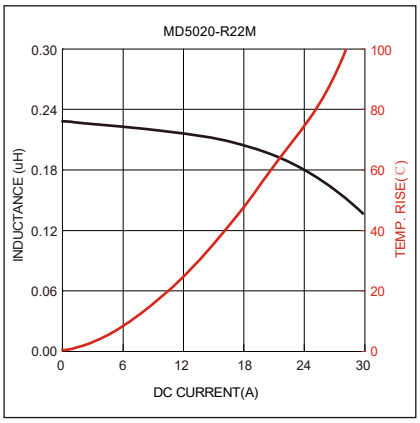
Part No	Inductance @ 100KHz/1V (μH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation current Typ. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)
MD5020-100M	10.0	±20%	2.3	3.4	180	199
MD5020-150M	15.0	±20%	1.9	2.8	240	270
MD5020-220M	22.0	±20%	1.5	1.8	350	390

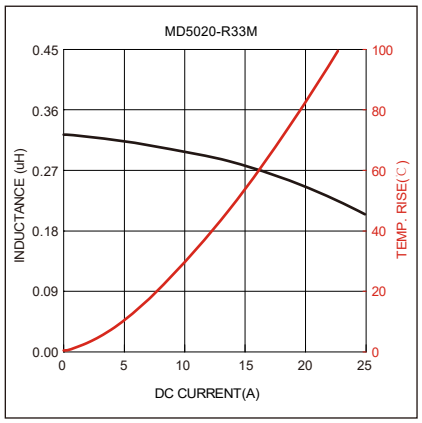
Operating temperature : -40℃ ~ +125℃
Temperature rise current : The actual value of DC current when the temperature rise is ΔT40℃
Saturation Current will cause L to drop approximately 30%

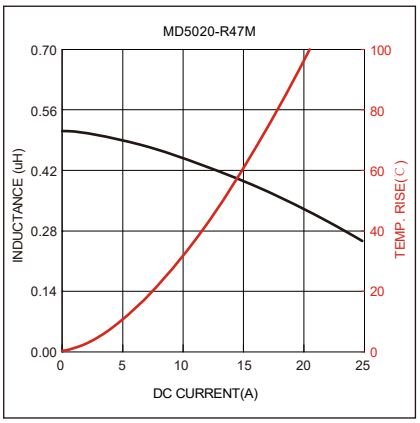
Typical Electrical Characteristics:

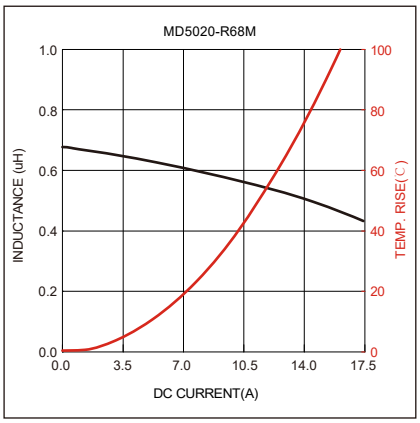


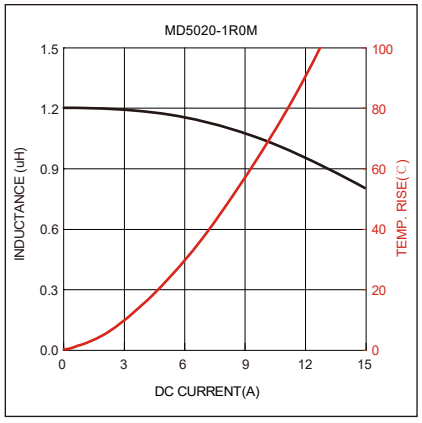


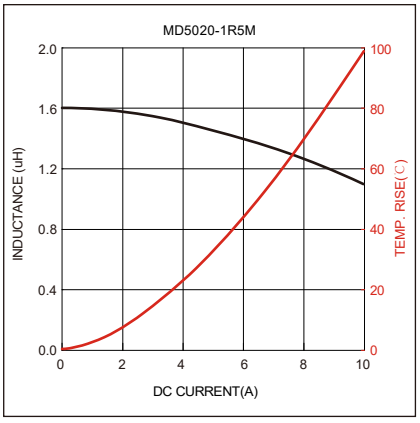


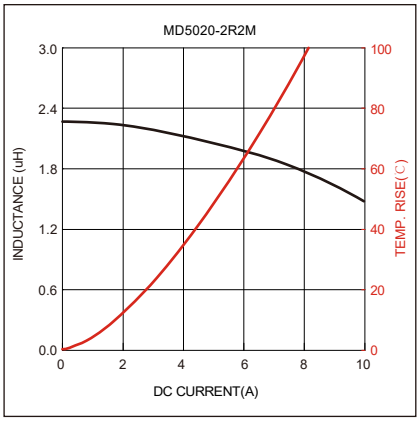












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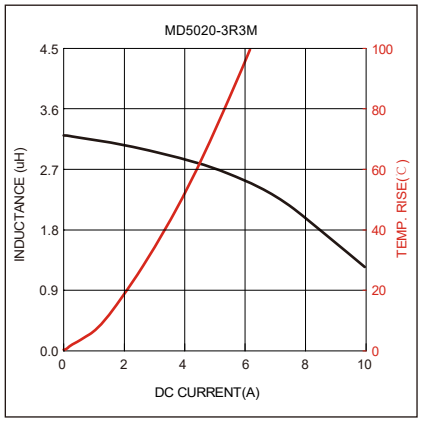

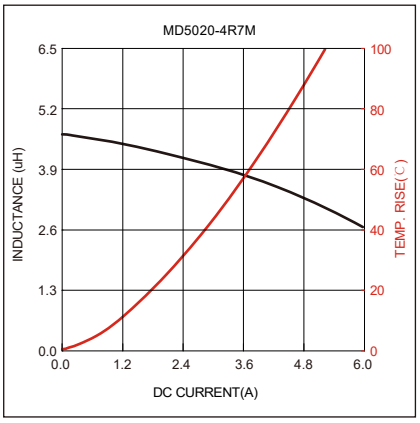

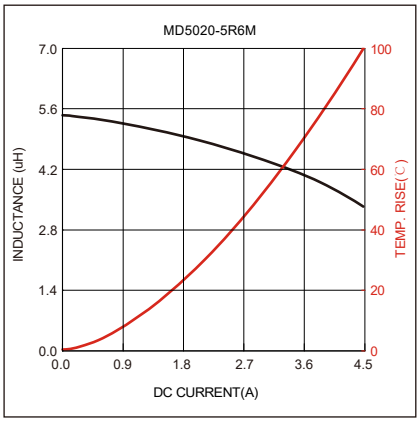

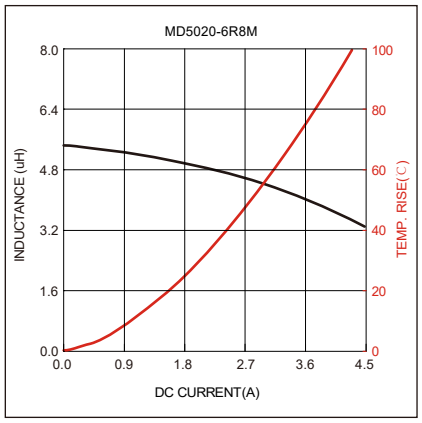

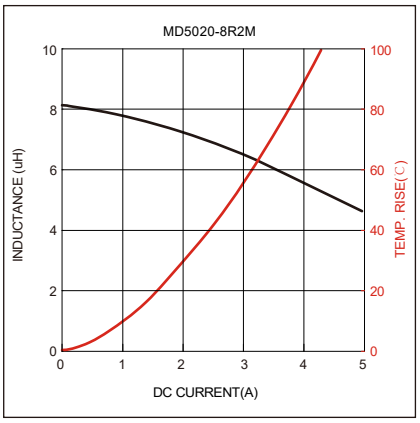

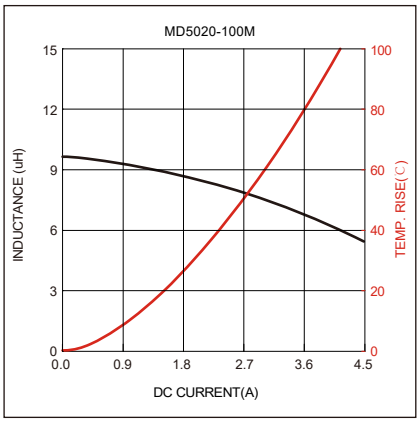

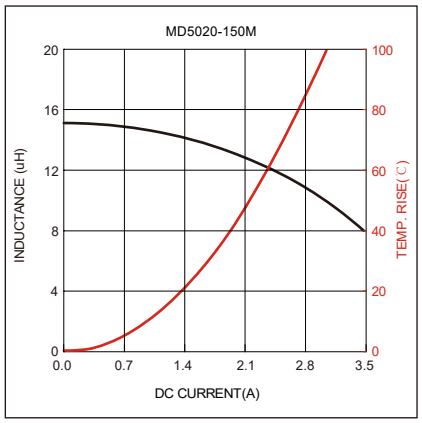

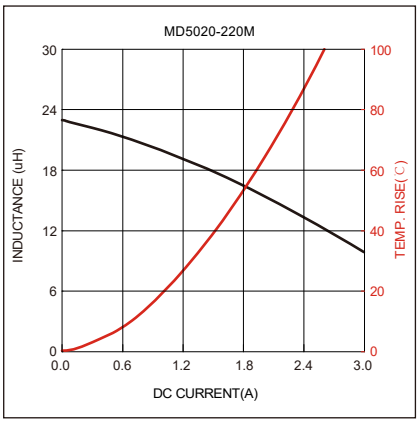

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