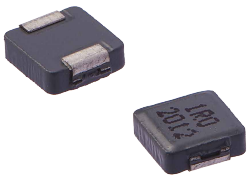
MD Series

SMD Low Profile High Current Molded Inductor

Size 5018



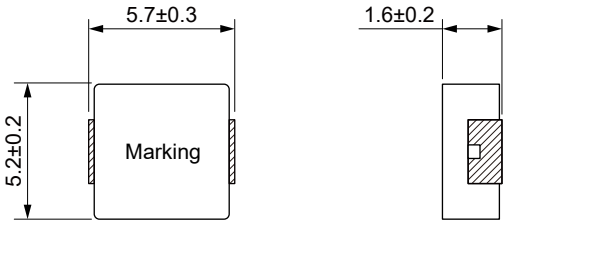
CHARACTERISTICS

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

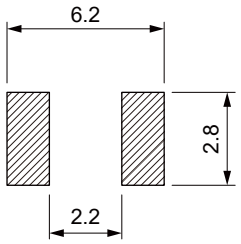
APPLICATION

- High current DC/DC converter
- LC flter

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)
MD5018-R15N	0.15	±30%	15.5	27	3.5	3.9
MD5018-R22M	0.22	±20%	13	22	4.2	5.0
MD5018-R33M	0.33	±20%	11	15	7.5	8.6
MD5018-R47M	0.47	±20%	10	14	9.8	11.3
MD5018-R56M	0.56	±20%	9.5	13.5	11	13
MD5018-R68M	0.68	±20%	9.0	13	12.4	14.3
MD5018-1R0M	1.00	±20%	6.8	10	18.2	21
MD5018-1R5M	1.50	±20%	6.0	9.0	26	30
MD5018-2R2M	2.20	±20%	4.5	7.5	42	48.3
MD5018-3R3M	3.30	±20%	3.5	5.0	60	69
MD5018-4R7M	4.70	±20%	3.0	4.5	85	98
MD5018-5R6M	5.60	±20%	2.5	4.0	110	127
MD5018-6R8M	6.80	±20%	2.4	3.5	118	137
MD5018-8R2M	8.20	±20%	2.3	3.0	143	165

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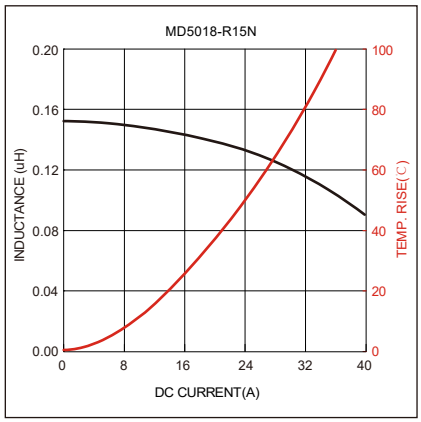
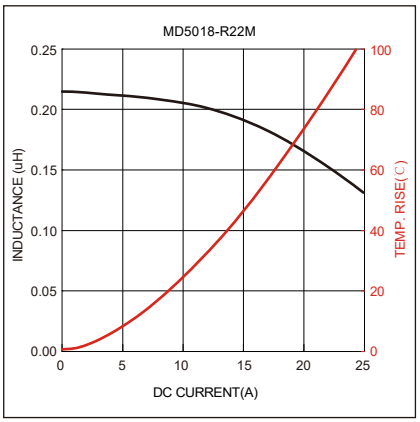
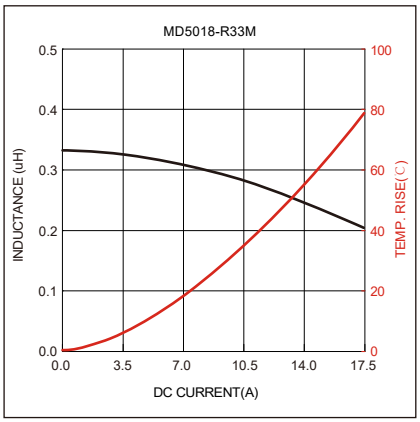
Part No	Inductance @ 100KHz/1V (μH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation current Typ. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)
MD5018-100M	10.0	±20%	2.3	2.8	165	190
MD5018-150M	15.0	±20%	1.7	2.3	275	318

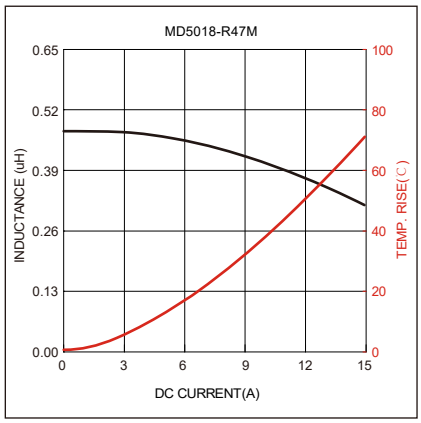
Operating temperature : -40℃ ~ +125℃
Temperature rise current : The actual value of DC current when the temperature rise is ΔT40℃
Saturation Current will cause L to drop approximately 30%

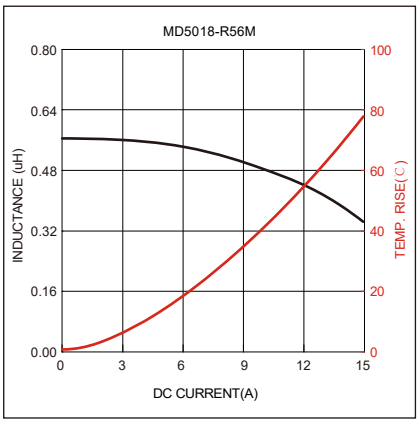
Typical Electrical Characteristics:

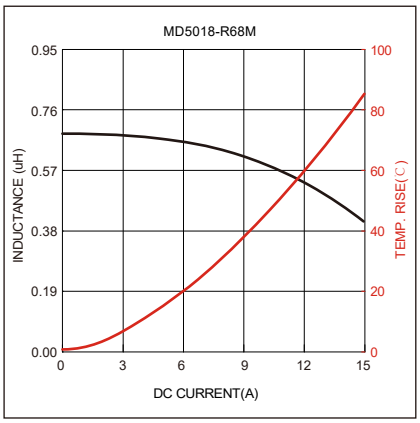


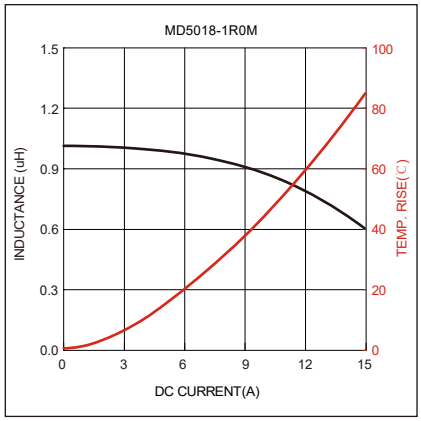


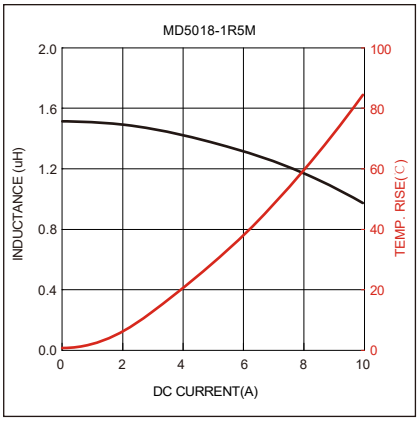


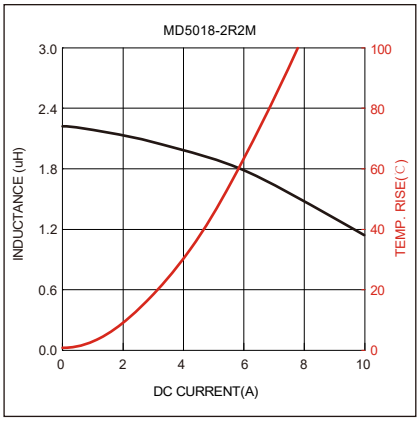












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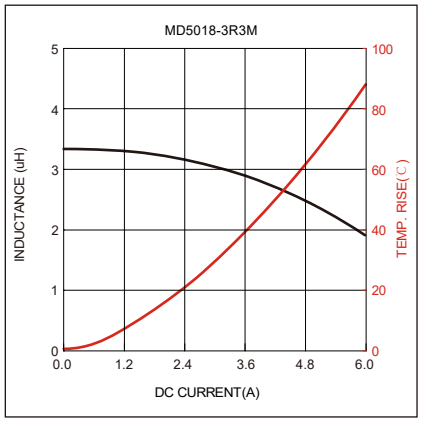

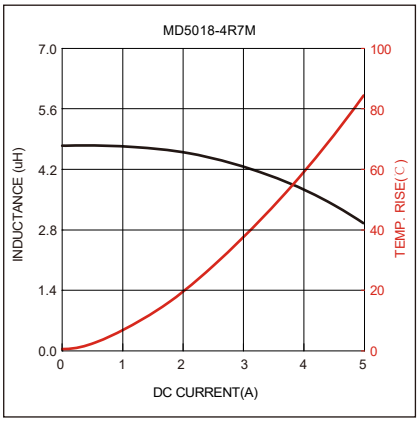

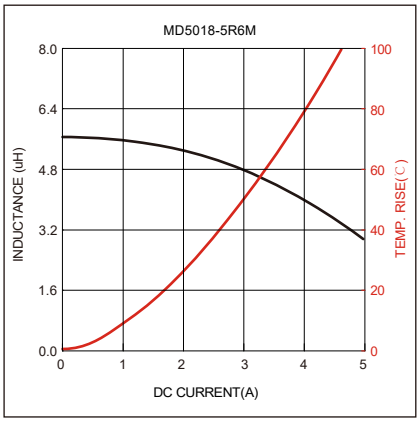

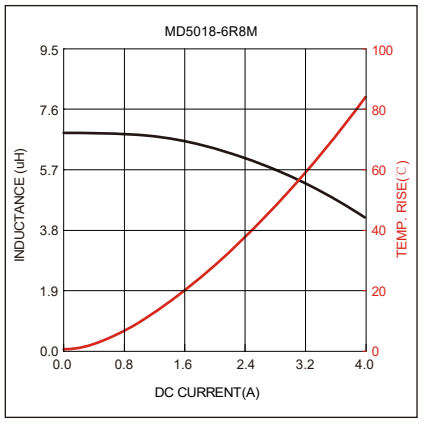

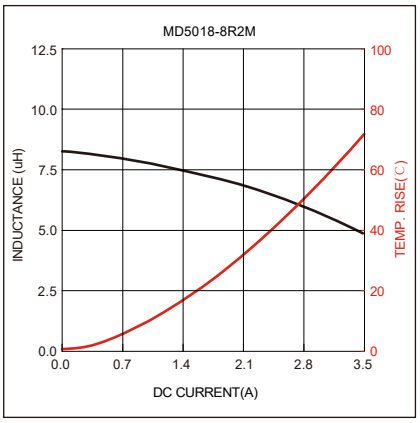

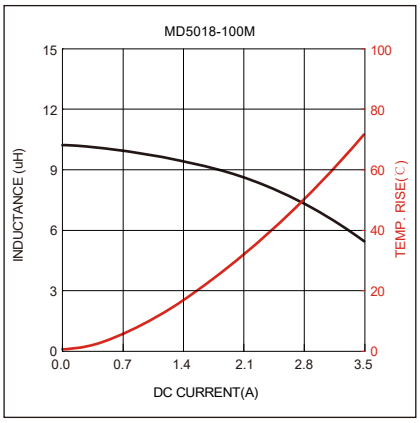

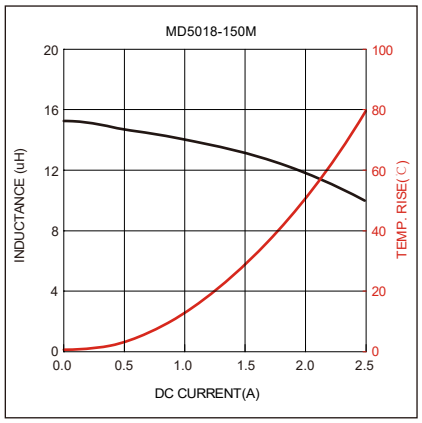

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