MD Series

SMD Low Profile High Current Molded Inductor

Size 5015

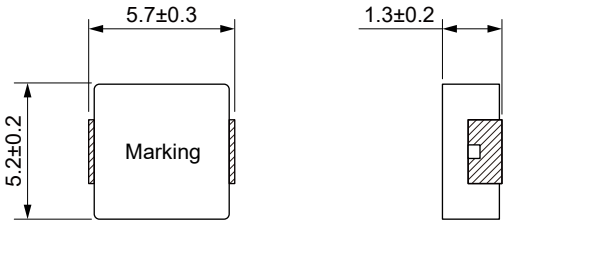
CHARACTERISTICS

- Molded type
- High saturation current due to CIP material
- Nature air gap and no acoustic noise
- Different sizes available
- Quantity: 3500pcs

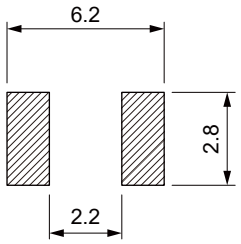
APPLICATION

- 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)
MD5015-R15N	0.15	±30%	16	25	3.6	4.1
MD5015-R22N	0.22	±30%	12	20	5.0	6.5
MD5015-R33M	0.33	±20%	9.0	16	8.5	9.8
MD5015-R36M	0.36	±20%	8.5	15.5	10	12.5
MD5015-R47M	0.47	±20%	8.0	15	12	13.8
MD5015-R68M	0.68	±20%	7.0	13	14	16.2
MD5015-1R0M	1.00	±20%	6.0	9.0	22	25.3
MD5015-1R5M	1.50	±20%	4.5	7.0	39	45
MD5015-2R2M	2.20	±20%	4.0	6.0	45	52
MD5015-3R3M	3.30	±20%	3.2	4.5	78	90
MD5015-4R7M	4.70	±20%	2.7	4.0	103	118
MD5015-5R6M	5.60	±20%	2.4	3.2	126	152
MD5015-6R8M	6.80	±20%	2.3	3.0	142	171
MD5015-8R2M	8.20	±20%	2.1	2.6	175	210

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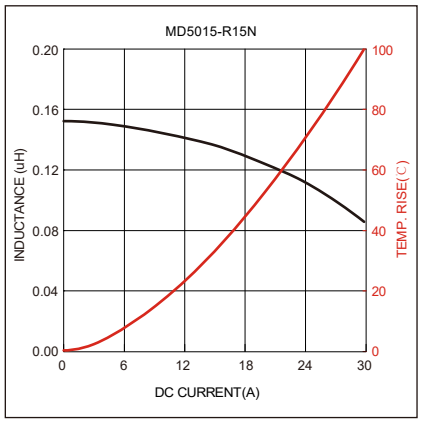
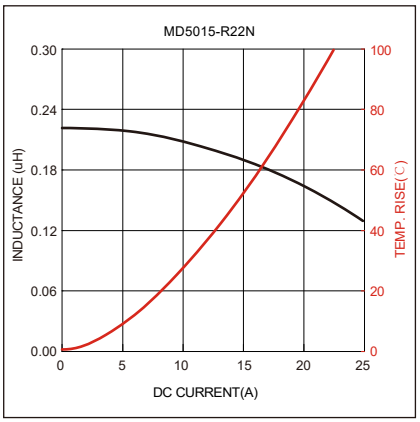
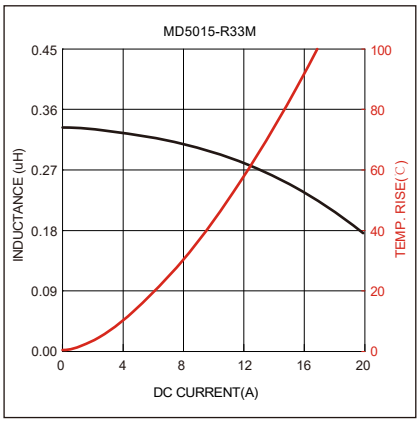
Part No	Inductance @ 100KHz/1V (μH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation current Typ. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)
MD5015-100M	10.0	±20%	2.0	2.3	210	235
MD5015-220M	22.0	±20%	1.2	1.7	405	466

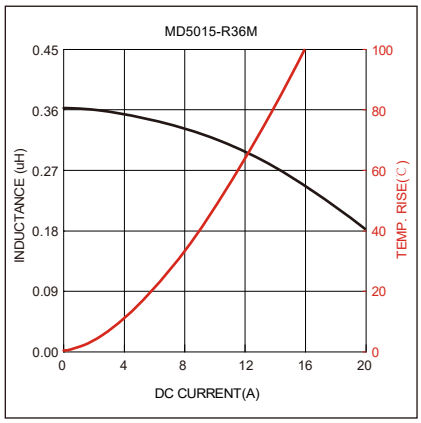
Operating temperature : -40℃ ~ +125℃
Temperature rise current : The actual value of DC current when the temperature rise is ΔT40℃
Saturation Current will cause L to drop approximately 30%

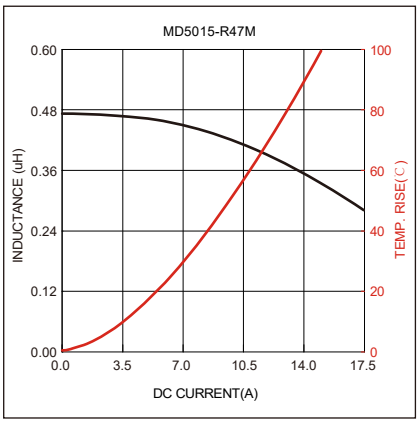
Typical Electrical Characteristics:

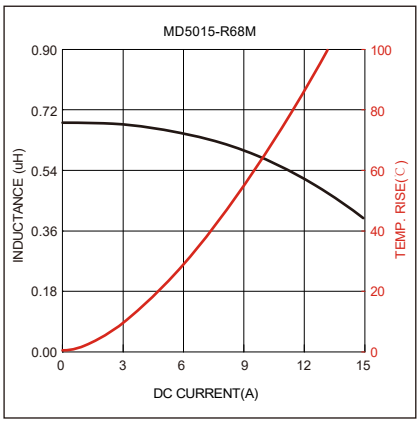


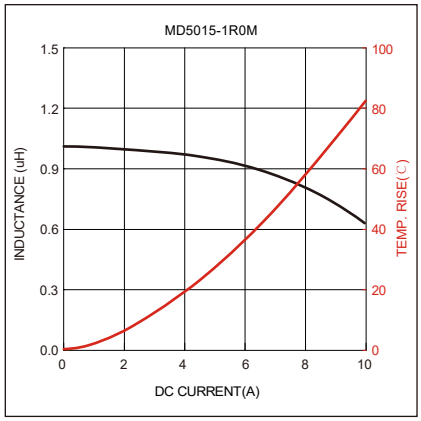


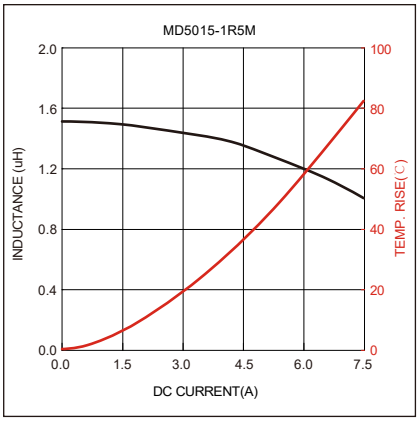


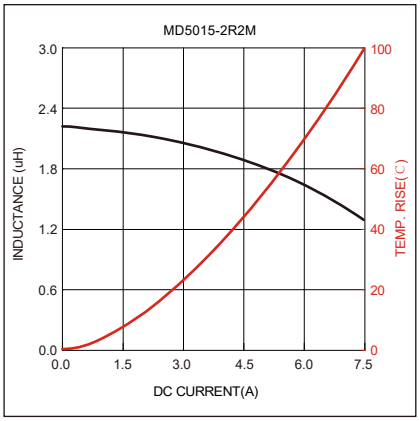












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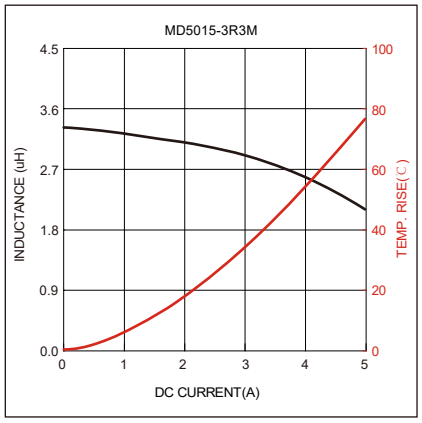

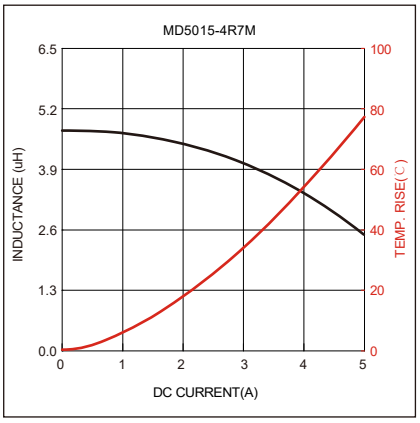

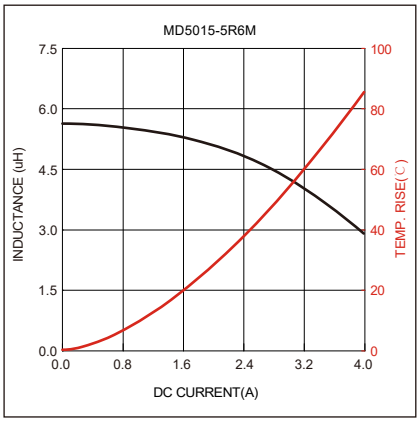

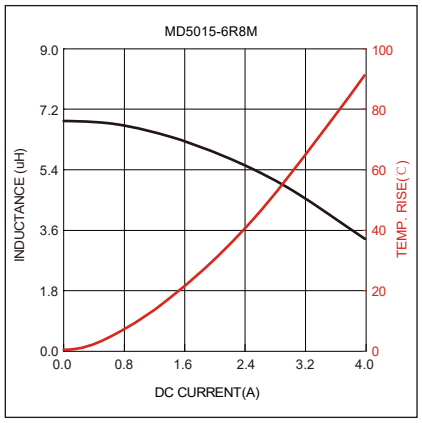

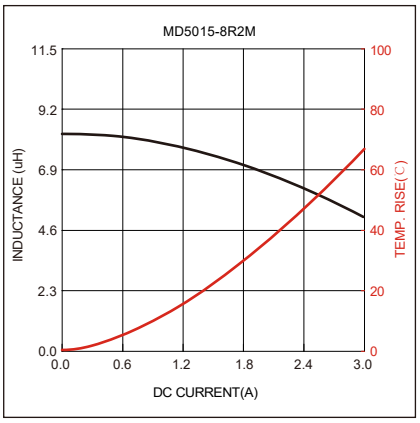

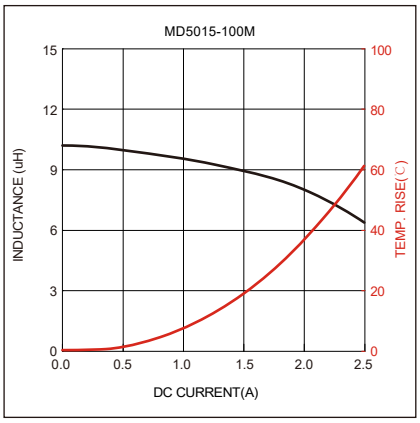

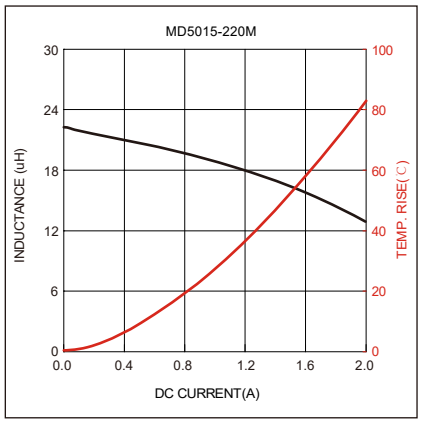

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