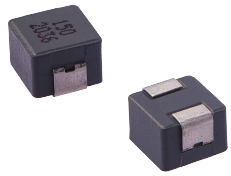
MD Series

SMD Low Profile High Current Molded Inductor
Size 7050



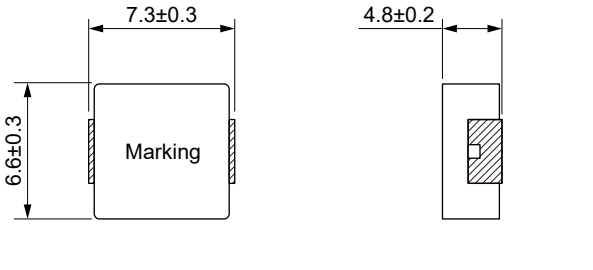
CHARACTERISTICS

- Molded type
- High saturation current due to CIP material
- Nature air gap and no acoustic noise
- Different sizes available
- Quantity: 800pcs

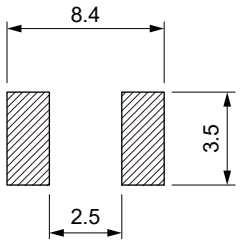
APPLICATION

- 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)
MD7050-R33M	0.33	±20%	25.0	32.0	2.50	3.00
MD7050-R47M	0.47	±20%	22.0	30.0	3.50	3.90
MD7050-R56M	0.56	±20%	20.0	27.0	3.60	4.20
MD7050-R68M	0.68	±20%	18.0	24.0	4.00	4.50
MD7050-R82M	0.82	±20%	16.5	22.0	4.60	4.90
MD7050-1R0M	1.00	±20%	15.0	20.0	6.10	6.50
MD7050-1R5M	1.50	±20%	12.0	16.5	8.60	9.00
MD7050-2R2M	2.20	±20%	10.0	14.0	11.2	12.0
MD7050-3R3M	3.30	±20%	8.00	12.0	19.0	20.9
MD7050-4R7M	4.70	±20%	6.50	10.0	28.0	30.8
MD7050-5R6M	5.60	±20%	6.00	9.00	43.5	49.0
MD7050-6R8M	6.80	±20%	5.50	8.50	46.0	51.5
MD7050-8R2M	8.20	±20%	5.00	8.00	56.0	63.0
MD7050-100M	10.0	±20%	4.00	7.50	60.0	69.0
MD7050-150M	15.0	±20%	3.50	6.00	81.0	92.0
MD7050-220M	22.0	±20%	2.50	5.50	140	170
MD7050-330M	33.0	±20%	2.00	3.50	173	200

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%

KOHER Electronics
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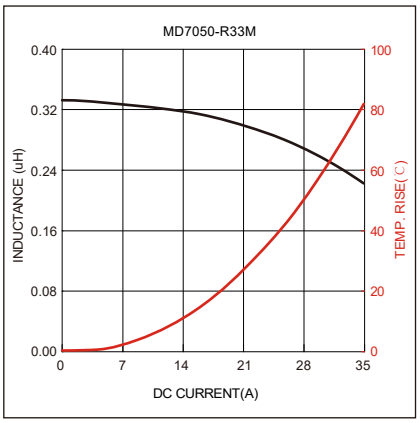
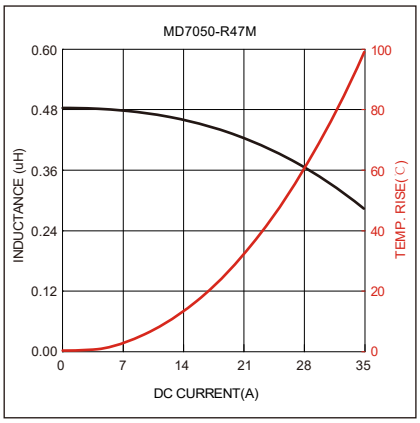
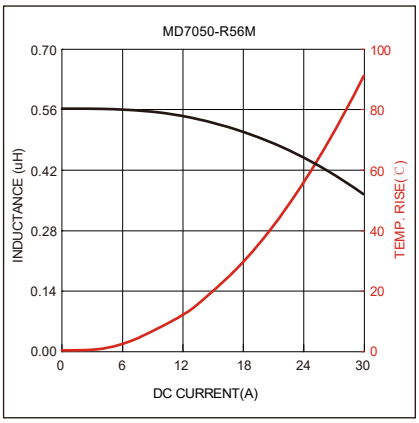
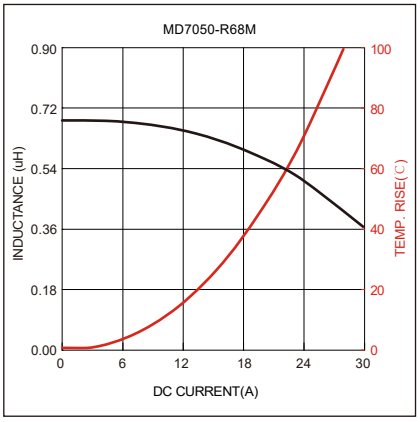
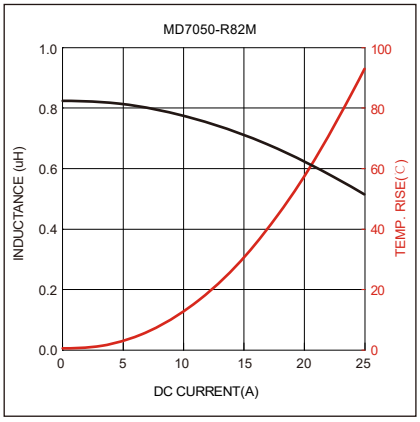
Typical Electrical Characteristics:

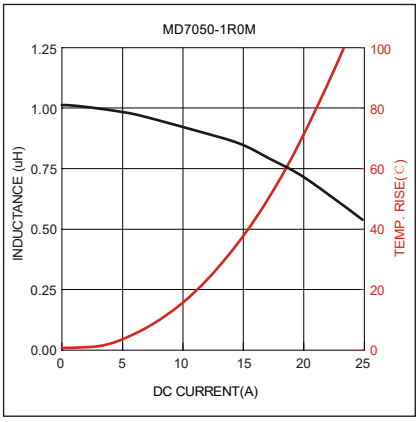


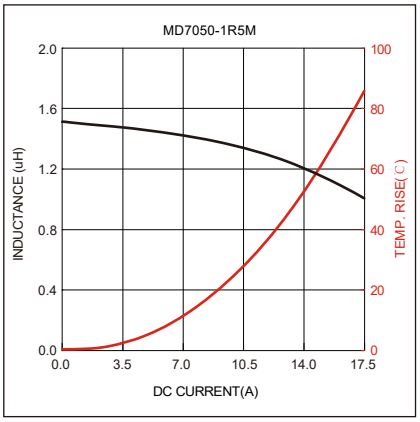


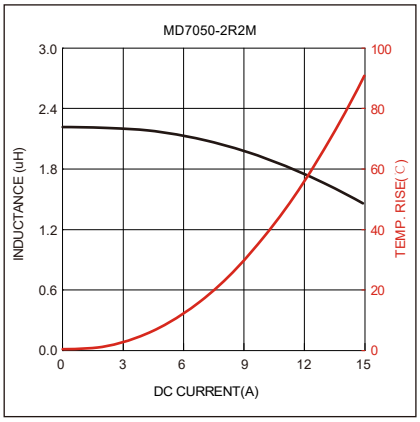


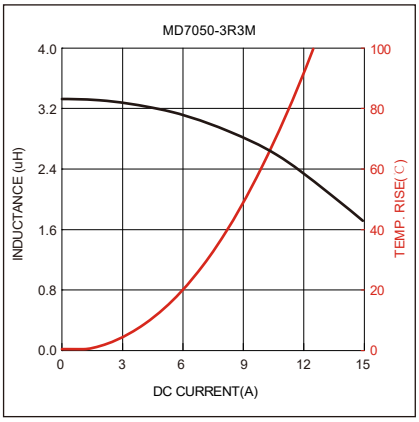


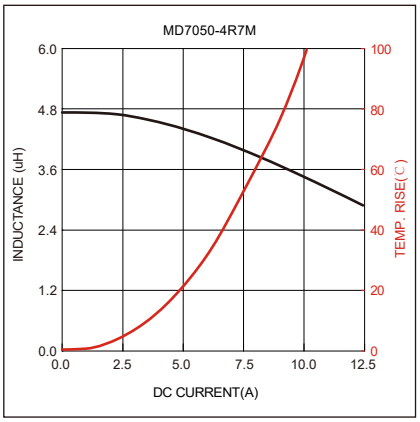


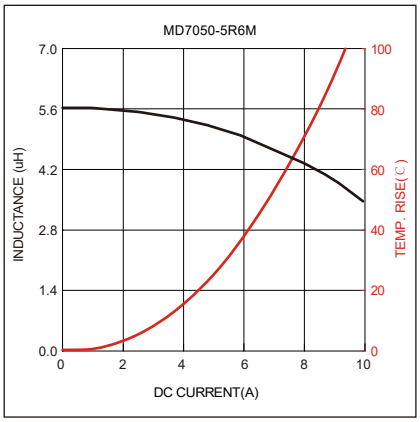


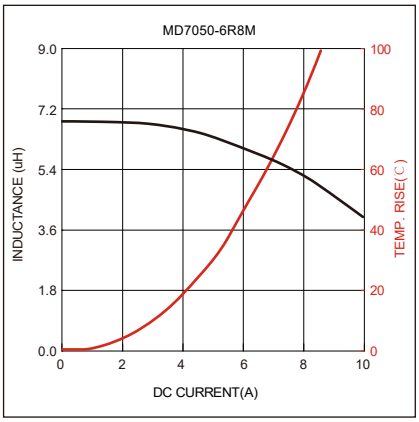












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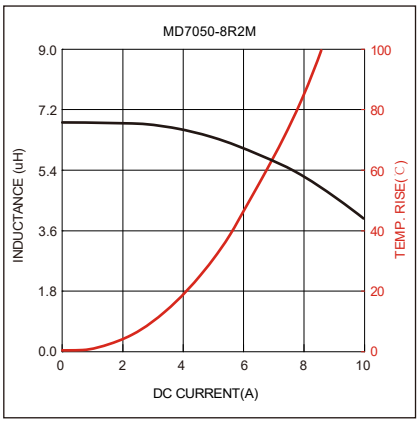

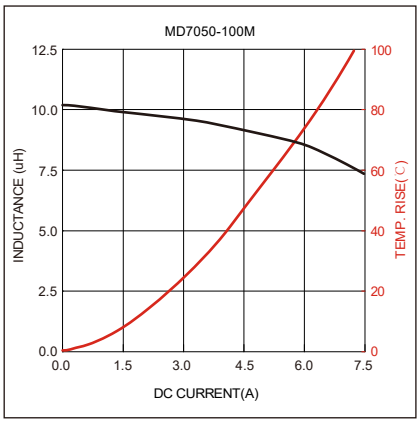

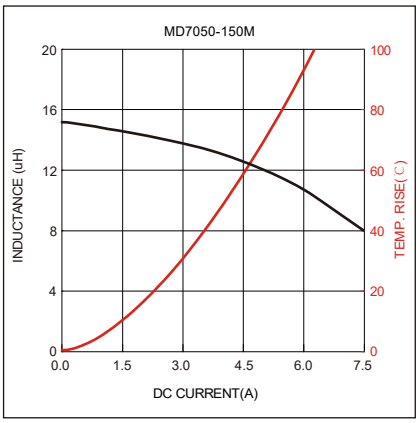

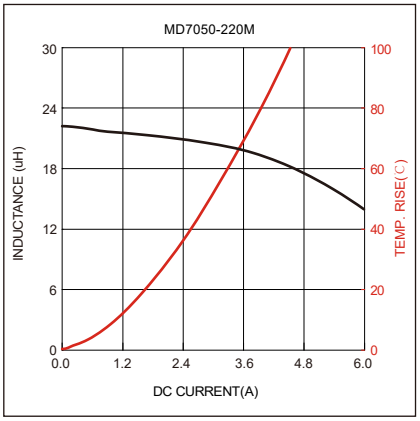

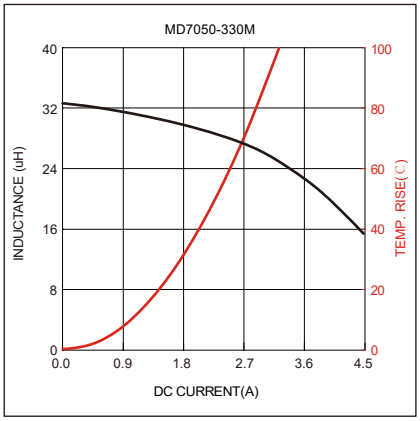

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