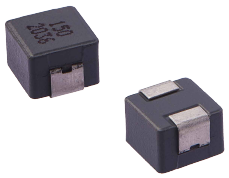
MD Series

SMD Low Profile High Current Molded Inductor

Size 7040



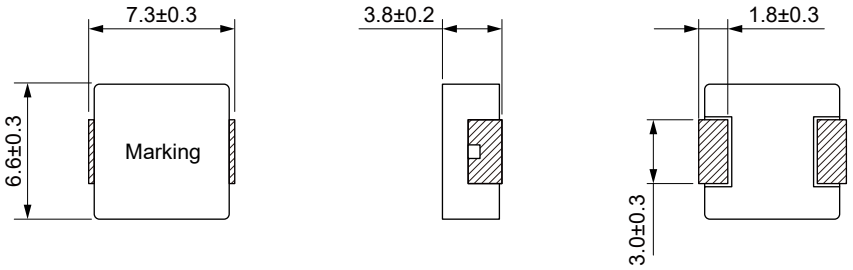
CHARACTERISTICS

- Molded type
- High saturation current due to CIP material
- Nature air gap and no acoustic noise
- Different sizes available
- Quantity: 1000pcs

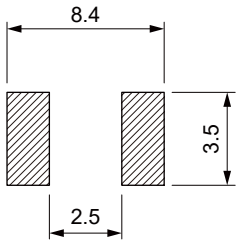
APPLICATION

- 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)
MD7040-R12N	0.12	±30%	32	64	0.7	1.0
MD7040-R15N	0.15	±30%	30	55	0.9	1.2
MD7040-R47M	0.47	±20%	23	28	3.0	3.4
MD7040-R56M	0.56	±20%	20	26	3.8	4.3
MD7040-R68M	0.68	±20%	16	24	4.1	4.5
MD7040-1R0M	1.00	±20%	14	22	6.8	8.0
MD7040-1R5M	1.50	±20%	12	20	10	12
MD7040-2R2M	2.20	±20%	9.0	14	11.5	14
MD7040-4R7M	4.70	±20%	6.0	11	28	32.5
MD7040-5R6M	5.60	±20%	5.0	9.0	33	38
MD7040-6R8M	6.80	±20%	4.5	8.5	44	50
MD7040-8R2M	8.20	±20%	4.5	8.0	55	64
MD7040-100M	10.0	±20%	4.0	7.0	64	72
MD7040-150M	15.0	±20%	3.0	3.5	80	90
MD7040-220M	22.0	±20%	2.5	3.5	120	145
MD7040-330M	33.0	±20%	1.8	3.2	180	210

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%

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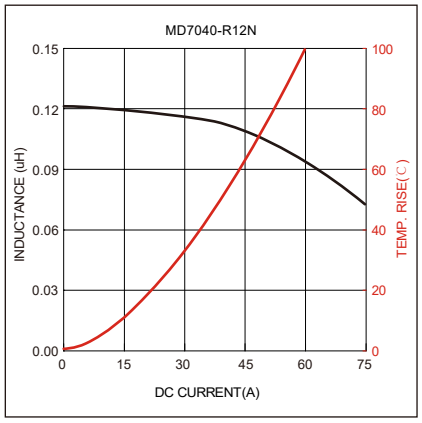
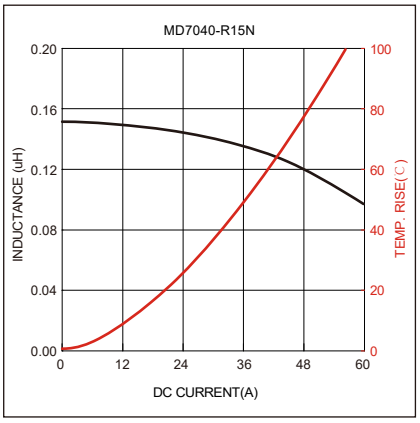
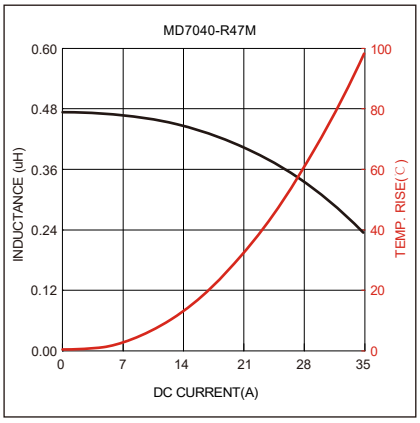
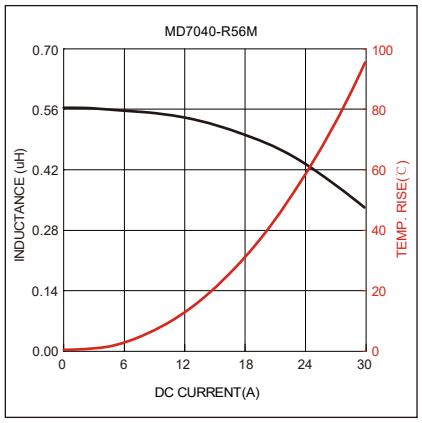
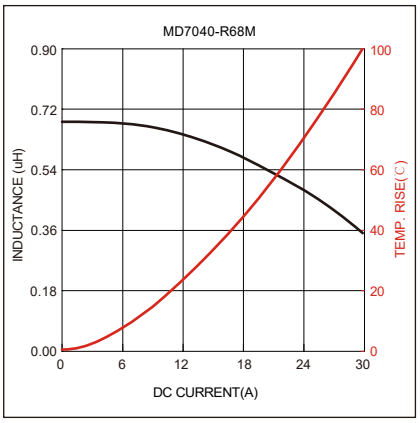
Typical Electrical Characteristics:

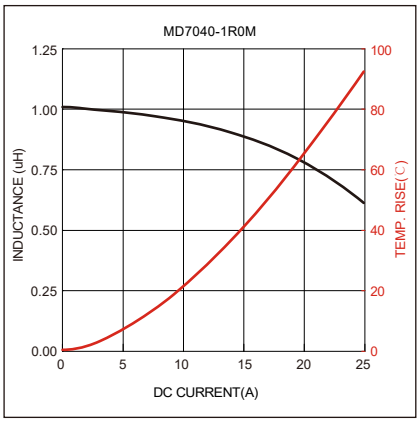


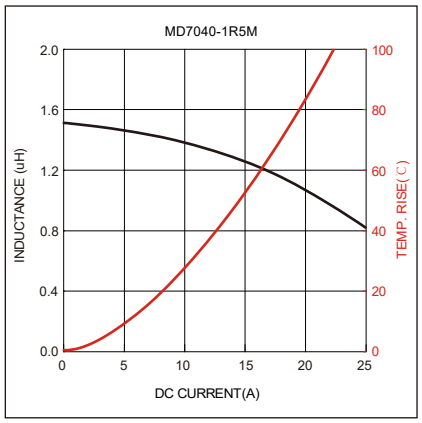


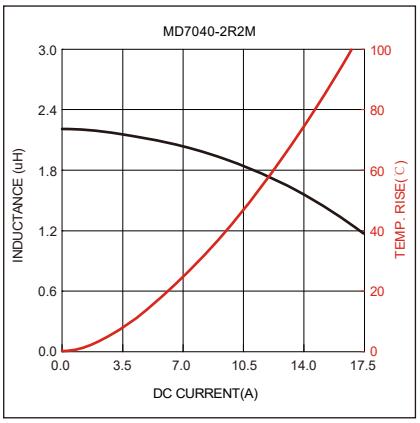


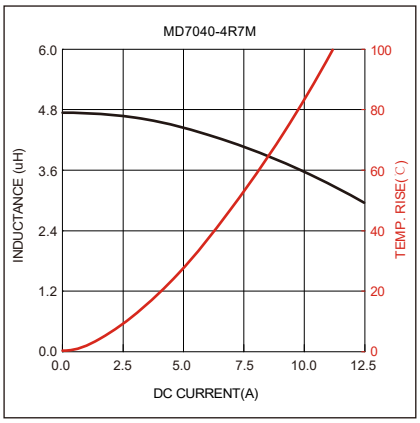


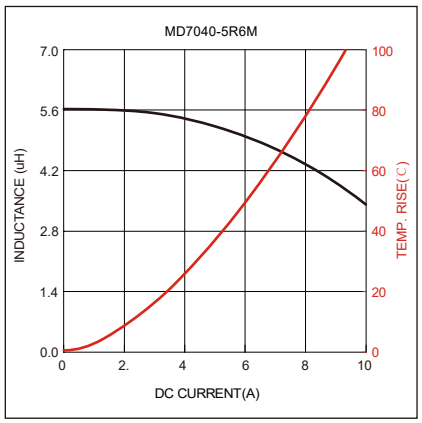


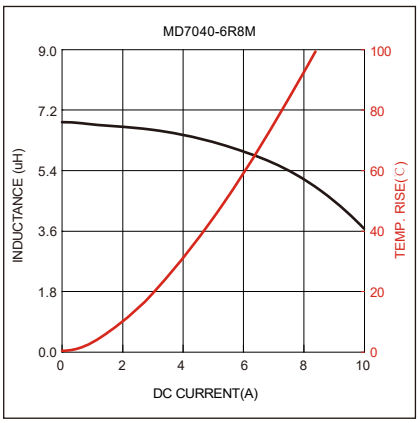


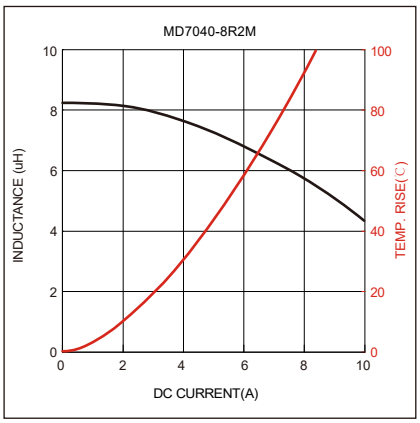












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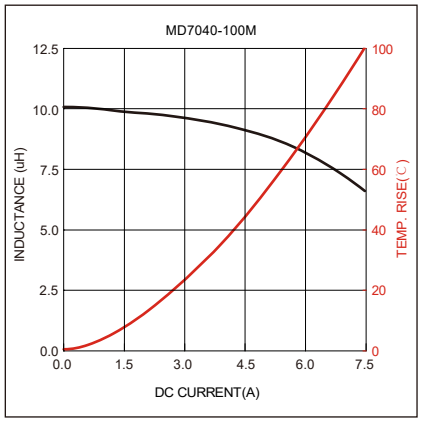

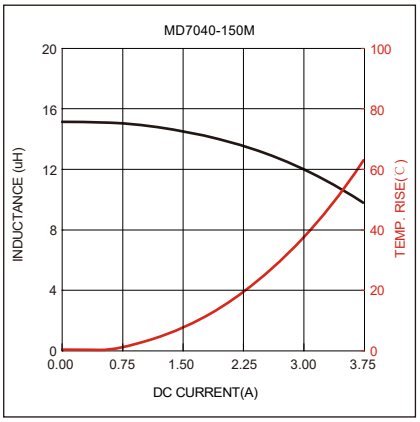

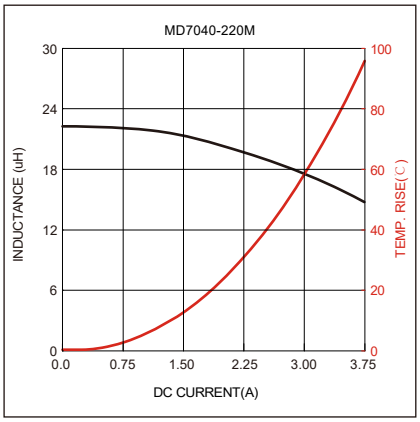

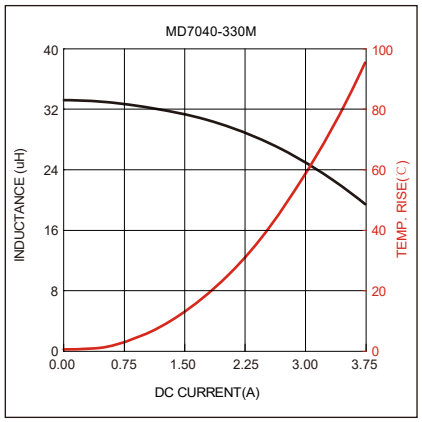

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