MD Series

SMD Low Profile High Current Molded Inductor
Size 1040

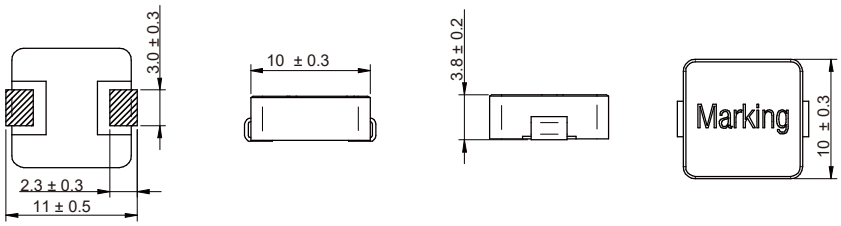
CHARACTERISTICS

- Molded type
- High saturation current due to CIP material
- Nature air gap and no acoustic noise
- Different sizes available
- Quantity: 500pcs

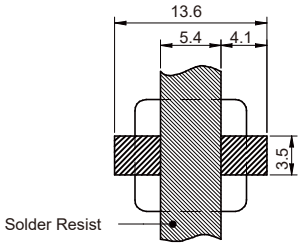
APPLICATION

- High current DC/DC converter
- LC flter

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

Part No	Inductance (µH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation current Typ. (A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
MD1040-R15N	0.15	±30%	43	75	0.5	0.6
MD1040-R22M	0.22	±20%	35	60	0.8	1.0
MD1040-R36M	0.36	±20%	31	60	1.05	1.2
MD1040-R39M	0.39	±20%	30	60	1.1	1.3
MD1040-R45M	0.45	±20%	29	45	1.3	1.5
MD1040-R56M	0.56	±20%	25	40	1.6	1.8
MD1040-1R0M	1.00	±20%	18	36	3.0	3.3
MD1040-2R2M	2.20	±20%	12	27	6.5	7.0
MD1040-3R3M	3.30	±20%	11	20	10.8	11.8
MD1040-4R7M	4.70	±20%	10	17	15	15.5
MD1040-5R6M	5.60	±20%	9.0	14	17	19.3
MD1040-6R8M	6.80	±20%	8.5	13.5	17.5	23.3
MD1040-8R2M	8.20	±20%	8.0	12.5	20	22.5
MD1040-100M	10.0	±20%	7.5	12	27	30
MD1040-150M	15.0	±20%	6.25	10	40	45
MD1040-220M	22.0	±20%	5.0	7.0	64	74

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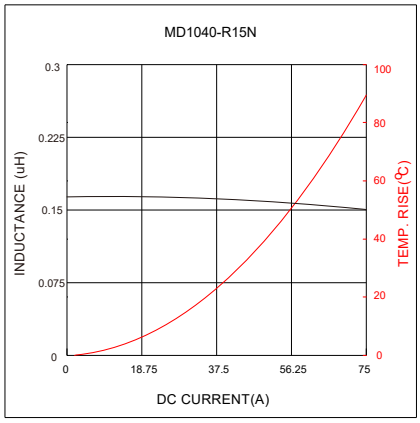
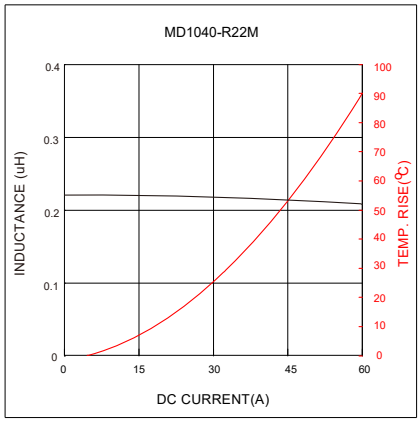
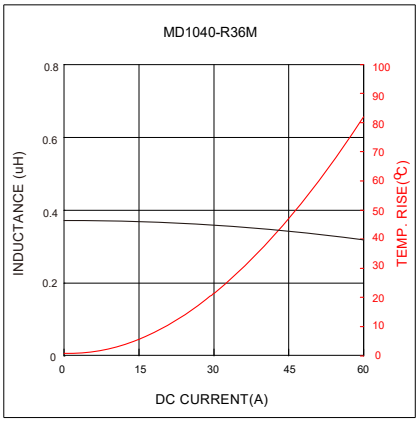
Part No	Inductance (μH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation current Typ. (A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
MD1040-330M	33.0	±20%	3.5	5.0	92	112
MD1040-470M	47.0	±20%	3.0	4.5	145	167

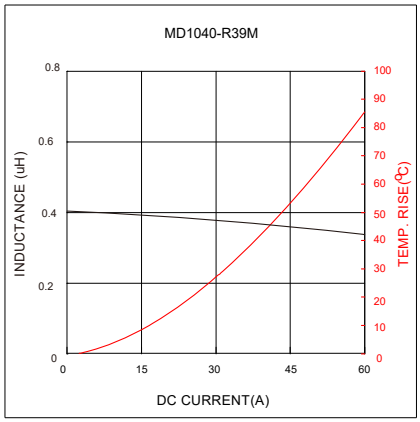
Operating temperature : -40℃ ~ +125℃
Temperature rise current : The actual value of DC current when the temperature rise is ΔT40℃
Saturation Current that will cause initial inductance to drop 20% approximately .

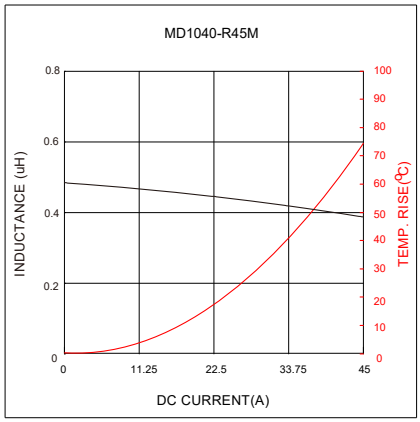
Typical Electrical Characteristics:

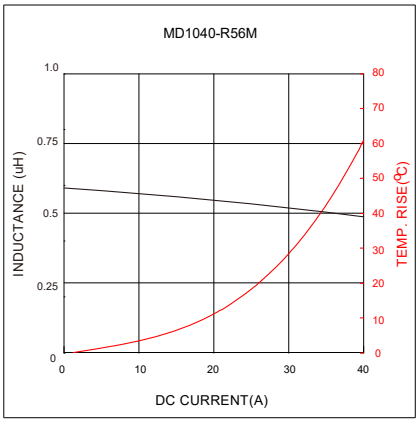


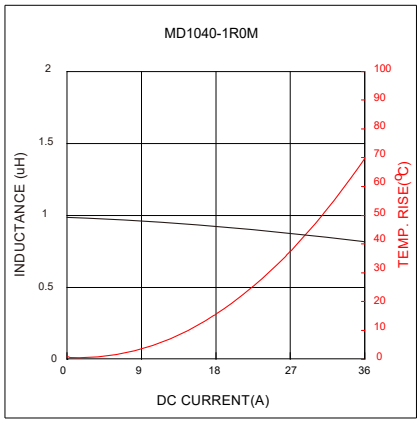


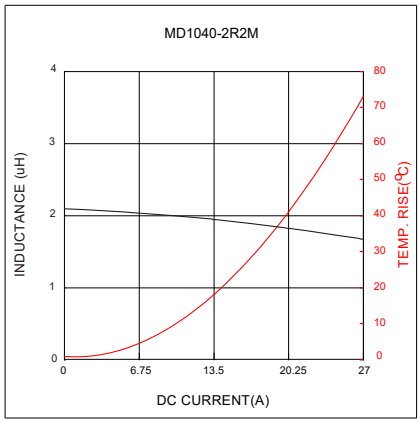


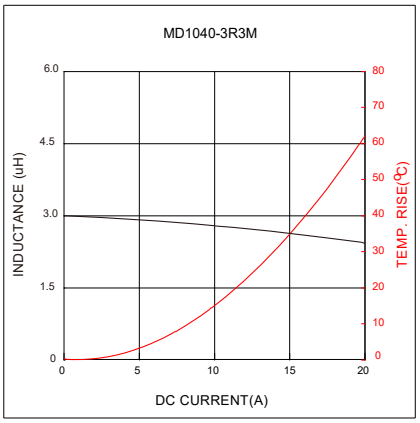












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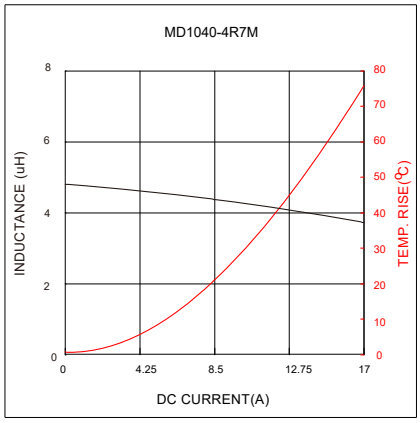

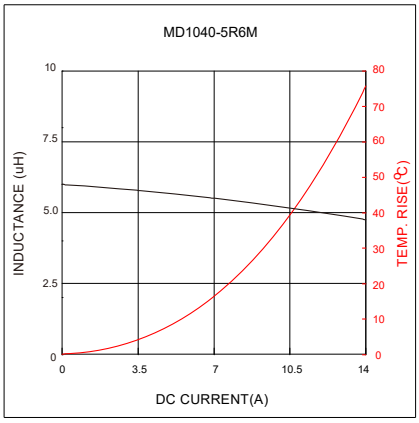

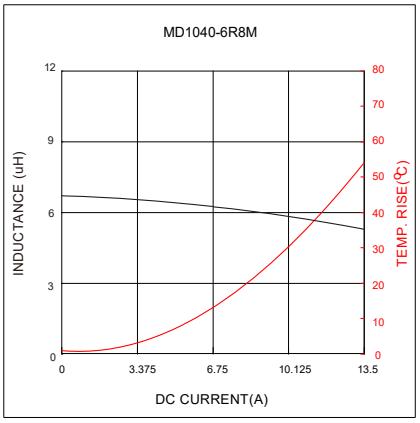

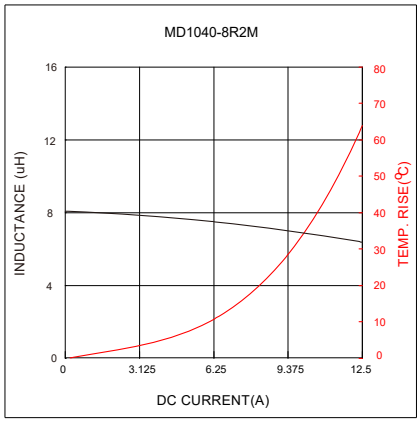

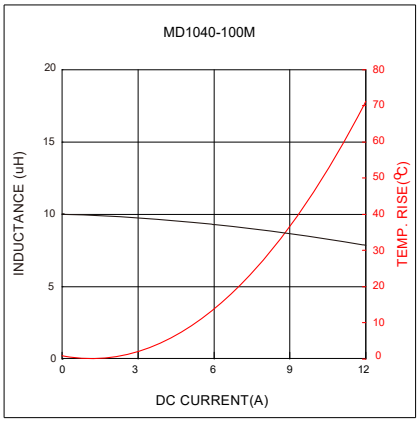

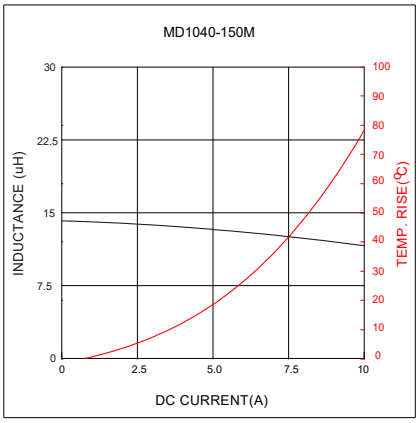

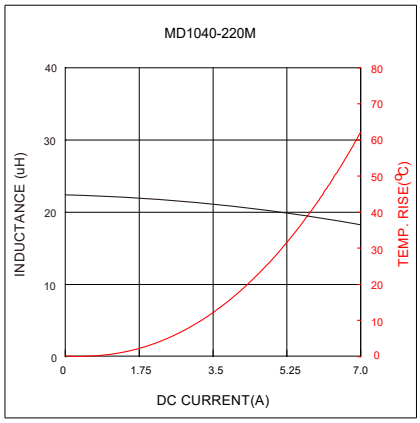

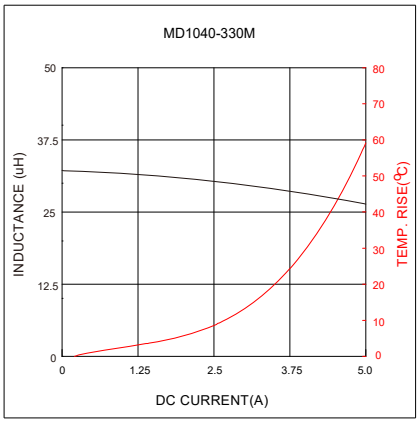

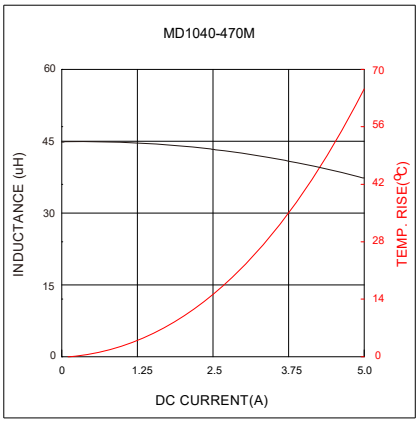

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