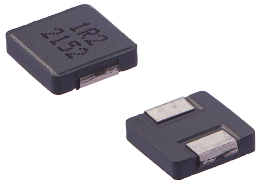
MD Series

SMD Low Profile High Current Molded Inductor

Size 7020



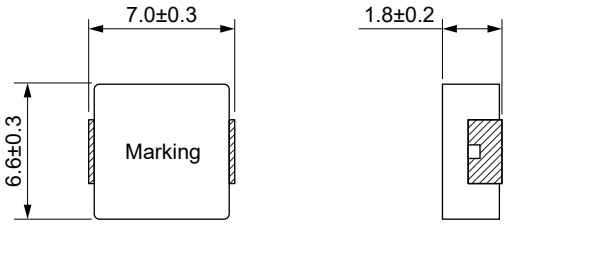
CHARACTERISTICS

- Molded type
- High saturation current due to CIP material
- Nature air gap and no acoustic noise
- Different sizes available
- Quantity: 1500pcs

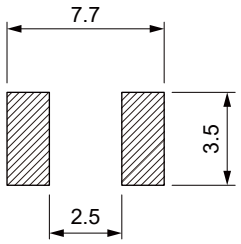
APPLICATION

- 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)
MD7020-R10N	0.10	±30%	21	40	2.0	2.4
MD7020-R15N	0.15	±30%	18	39	2.3	2.7
MD7020-R22N	0.22	±30%	15	32	3.5	4.0
MD7020-R33M	0.33	±20%	14	25	4.5	5.0
MD7020-R47M	0.47	±20%	11.7	20	7.1	8.3
MD7020-R56M	0.56	±20%	11	18	7.9	9.3
MD7020-R68M	0.68	±20%	10.5	16	8.3	10
MD7020-1R0M	1.00	±20%	8.0	14	16.5	18
MD7020-1R5M	1.50	±20%	7.0	12	23	27
MD7020-2R2M	2.20	±20%	6.0	10	32	37
MD7020-3R3M	3.30	±20%	5.0	8.0	43	48
MD7020-4R7M	4.70	±20%	4.5	7.0	53	60
MD7020-5R6M	5.60	±20%	4.0	6.0	59	68
MD7020-6R8M	6.80	±20%	4.0	5.5	63	73
MD7020-8R2M	8.20	±20%	3.2	5.0	101	116

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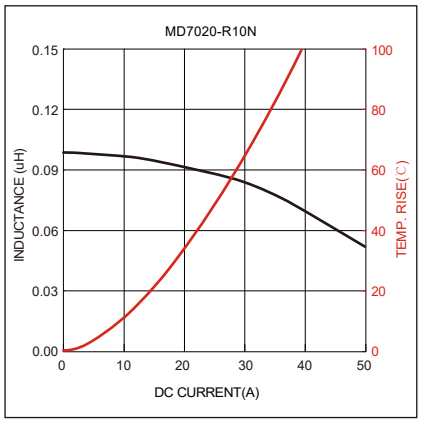
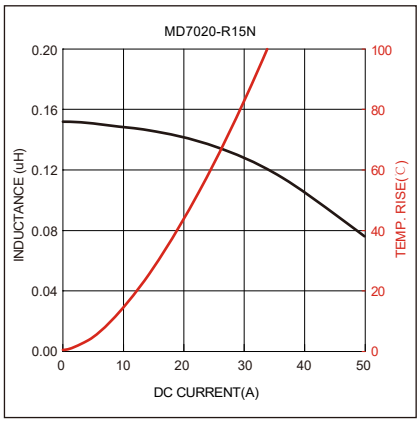
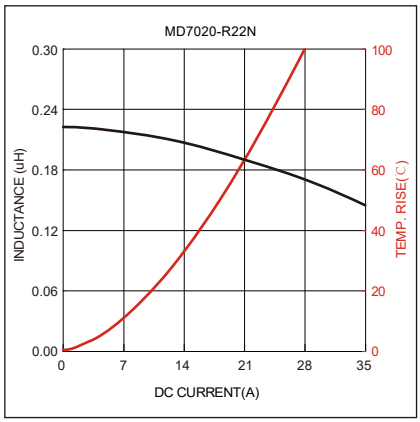
Part No	Inductance @ 100KHz/1V (μH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation current Typ. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)
MD7020-100M	10.0	±20%	2.8	4.0	134	154
MD7020-150M	15.0	±20%	2.1	3.3	190	210
MD7020-220M	22.0	±20%	1.5	2.5	236	280

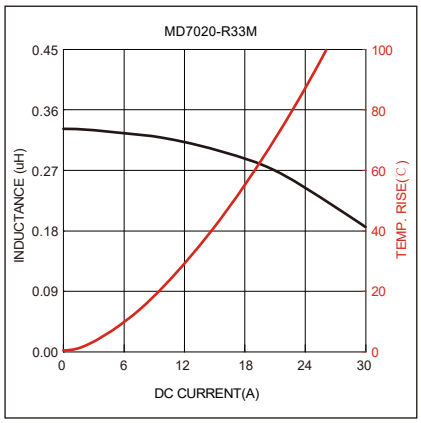
Operating temperature : -40℃ ~ +125℃
Temperature rise current : The actual value of DC current when the temperature rise is ΔT40℃
Saturation Current will cause L to drop approximately 30%

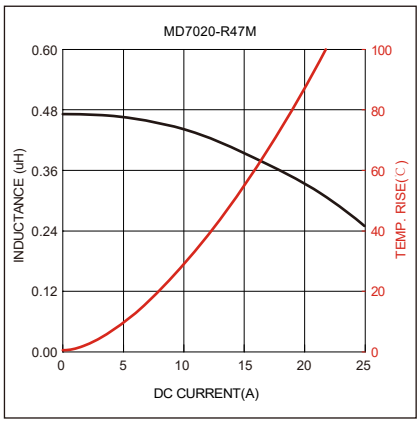
Typical Electrical Characteristics:

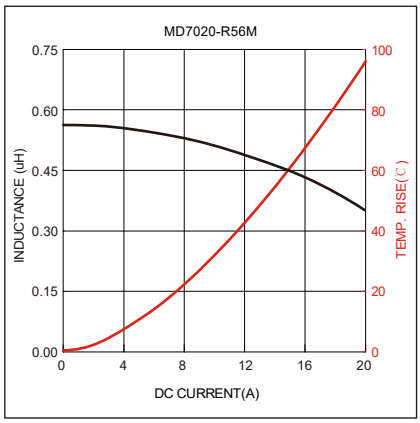


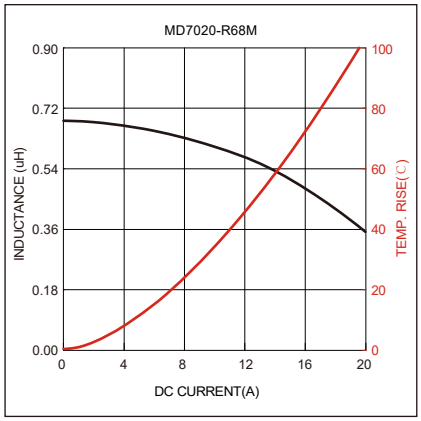


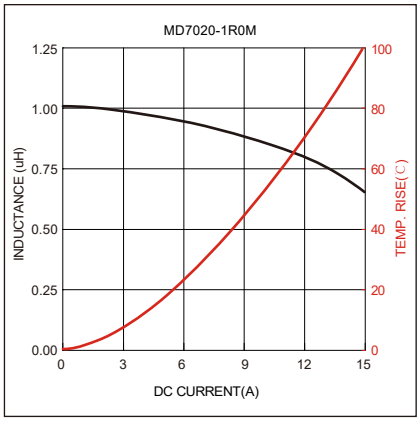


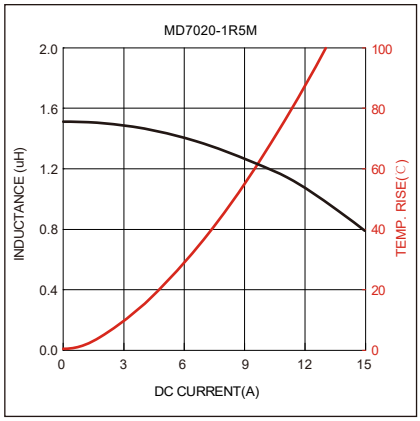












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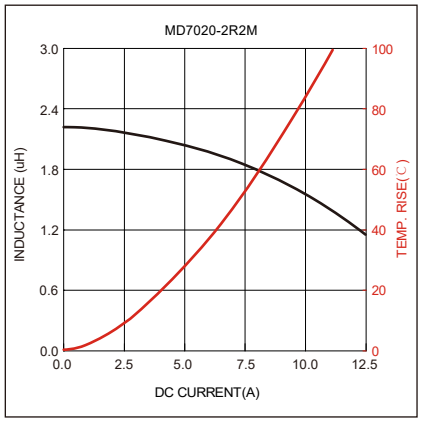

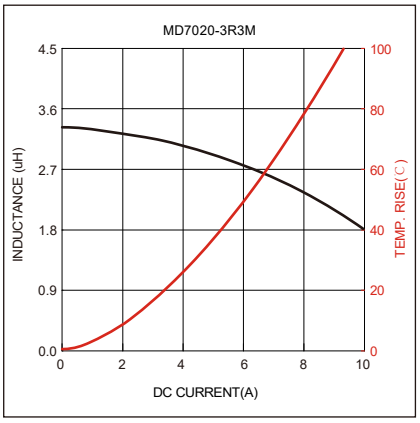

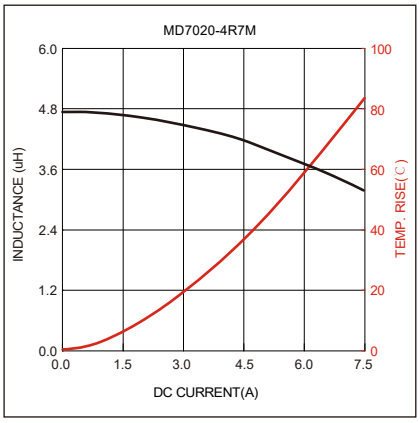

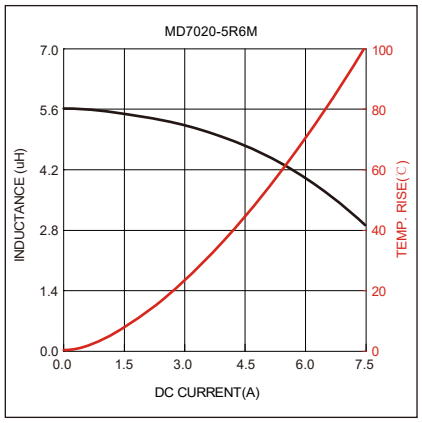

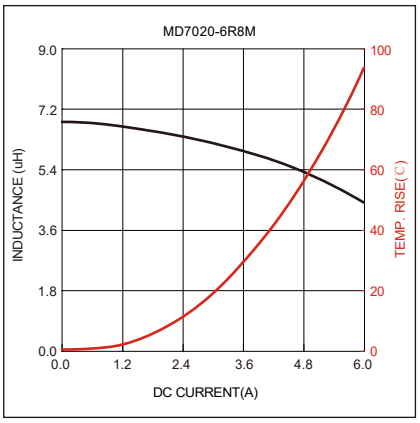

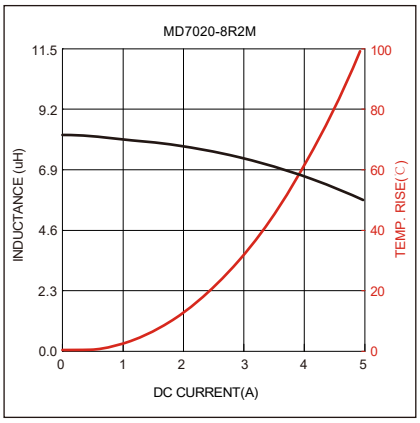

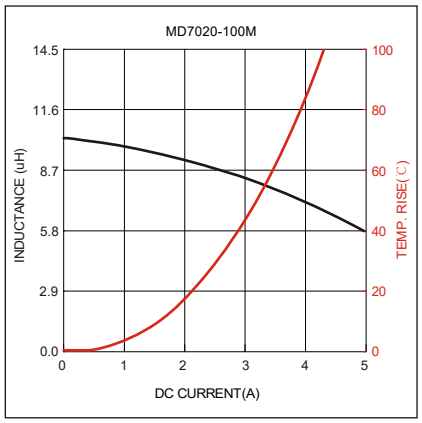

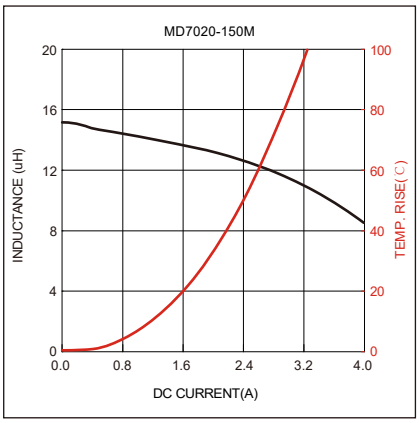

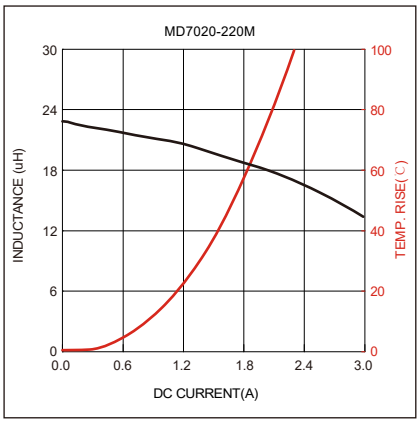

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