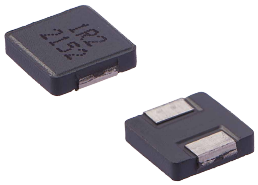
MD Series

SMD Low Profile High Current Molded Inductor

Size 7018



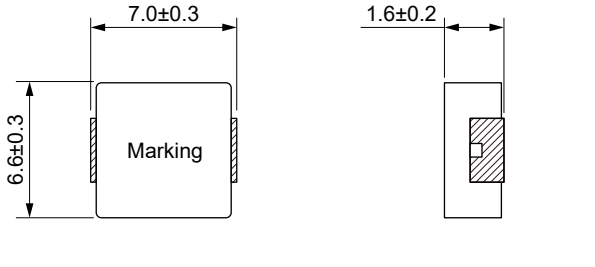
CHARACTERISTICS

- Molded type
- High saturation current due to CIP material
- Nature air gap and no acoustic noise
- Different sizes available
- Quantity: 2000pcs

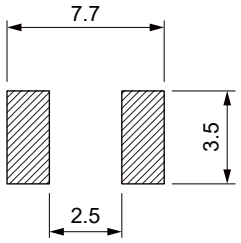
APPLICATION

- 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)
MD7018-R10N	0.10	±30%	18	45	2.1	2.5
MD7018-R15N	0.15	±30%	18	34	2.2	2.6
MD7018-R22M	0.22	±20%	16	26	2.5	3.0
MD7018-R33M	0.33	±20%	14	22	4.8	5.8
MD7018-R47M	0.47	±20%	12	18	6.4	7.4
MD7018-R56M	0.56	±20%	11	17.5	8.5	10
MD7018-R68M	0.68	±20%	10	17	9.5	11
MD7018-R82M	0.82	±20%	8.5	15.5	11.5	14
MD7018-1R0M	1.00	±20%	7.0	14	14.5	17
MD7018-1R5M	1.50	±20%	6.0	13	21	25.2
MD7018-2R2M	2.20	±20%	6.0	11	31	35
MD7018-3R3M	3.30	±20%	5.0	9.0	40	46
MD7018-4R7M	4.70	±20%	4.0	7.0	68	76
MD7018-5R6M	5.60	±20%	3.5	6.0	78	86
MD7018-6R8M	6.80	±20%	3.0	5.5	93	104
MD7018-8R2M	8.20	±20%	2.6	4.5	123	140

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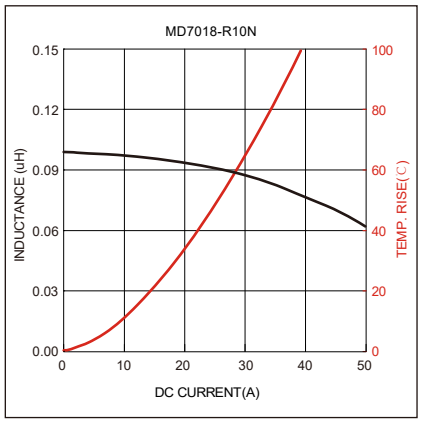
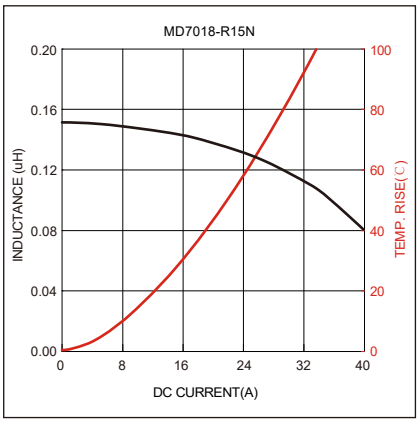
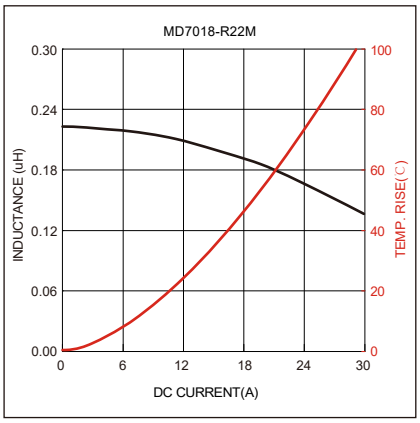
Part No	Inductance @ 100KHz/1V (μH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation current Typ. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)
MD7018-100M	10.0	±20%	2.3	3.5	143	160
MD7018-150M	15.0	±20%	2.0	3.0	240	280
MD7018-220M	22.0	±20%	1.8	2.5	300	360

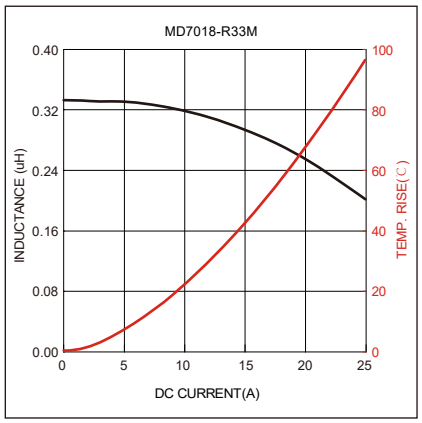
Operating temperature : -40℃ ~ +125℃
Temperature rise current : The actual value of DC current when the temperature rise is ΔT40℃
Saturation Current will cause L to drop approximately 30%

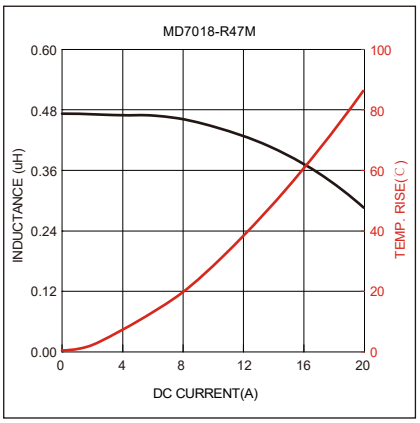
Typical Electrical Characteristics:

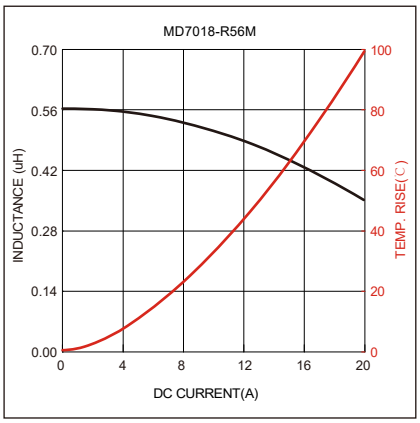


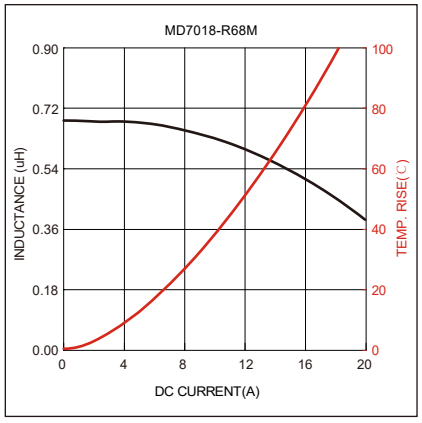


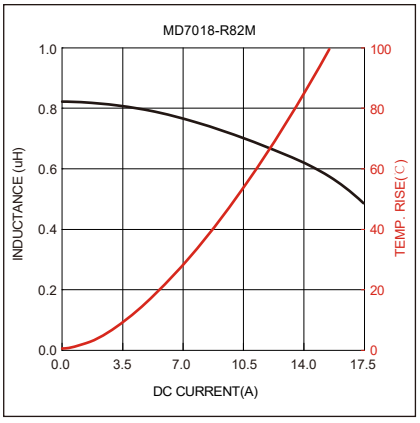


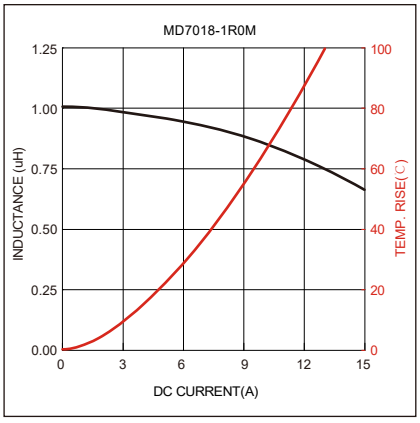












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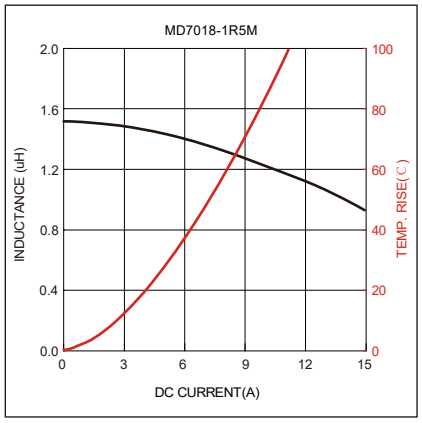

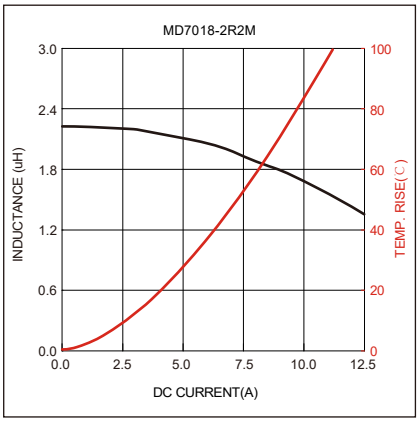

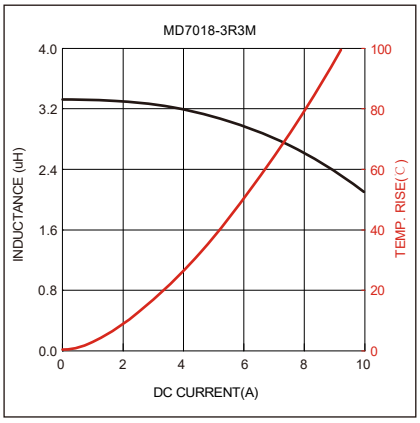

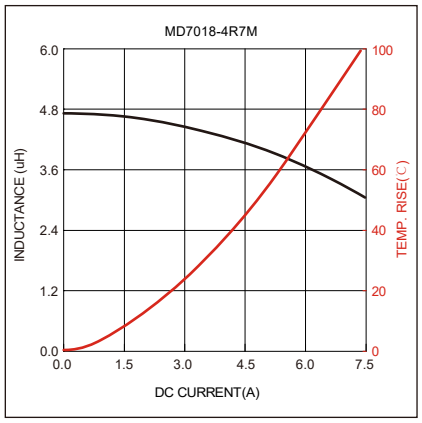

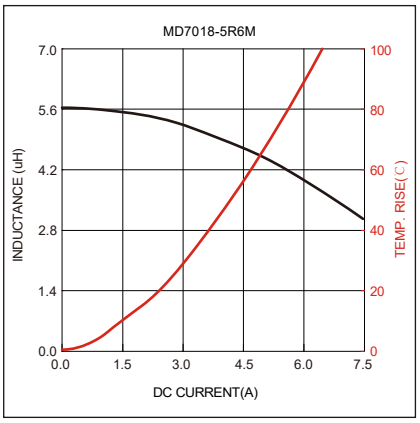

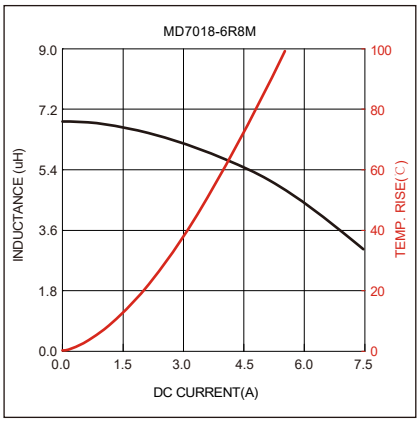

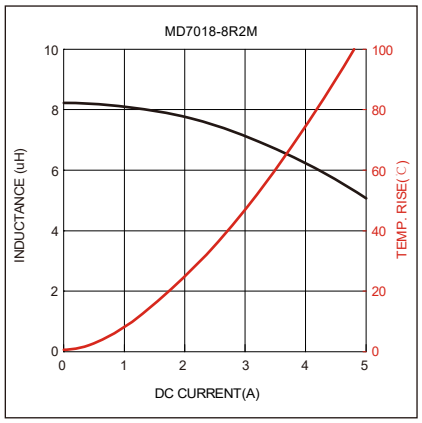

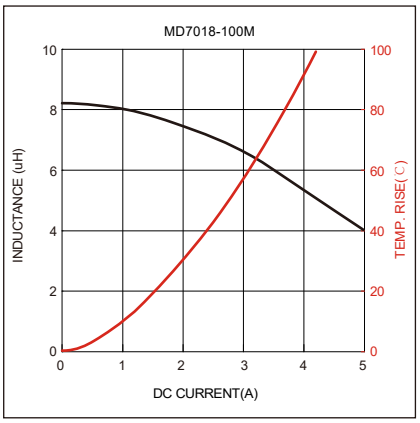

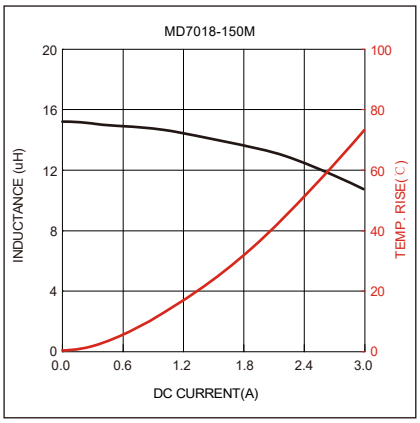

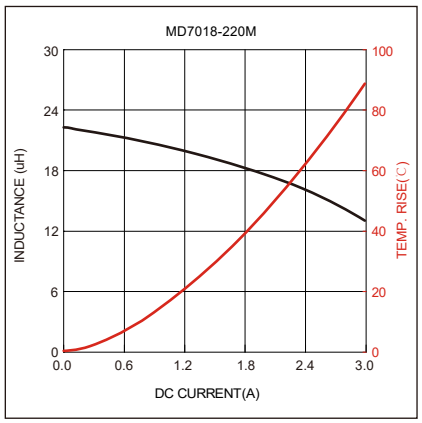

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