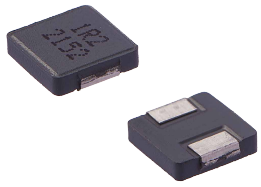
MD Series

SMD Low Profile High Current Molded Inductor

Size 7012



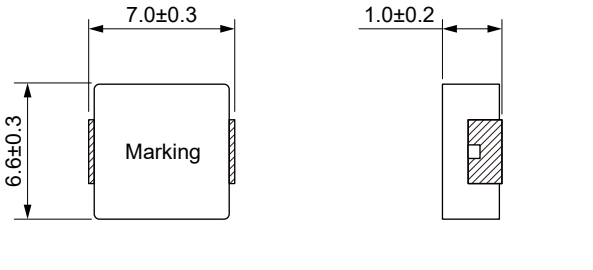
CHARACTERISTICS

- Molded type
- High saturation current due to CIP material
- Nature air gap and no acoustic noise
- Different sizes available
- Quantity: 3000pcs

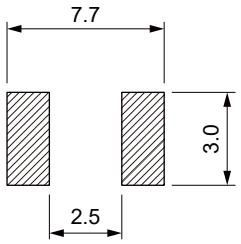
APPLICATION

- 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)
MD7012-R15N	0.15	±30%	14	24	4.9	5.7
MD7012-R22N	0.22	±30%	11	19	6.5	7.5
MD7012-R33M	0.33	±20%	9.5	16	9.0	10
MD7012-R47M	0.47	±20%	8.5	12	13	17
MD7012-R68M	0.68	±20%	7.0	9.0	17	19
MD7012-1R0M	1.00	±20%	6.0	7.0	27	30
MD7012-1R5M	1.50	±20%	4.5	6.5	35	40
MD7012-2R2M	2.20	±20%	4.0	5.0	53	61
MD7012-3R3M	3.30	±20%	3.2	4.0	90	103
MD7012-4R7M	4.70	±20%	2.5	3.8	130	150
MD7012-6R8M	6.80	±20%	2.1	3.0	172	198
MD7012-100M	10.0	±20%	1.8	2.5	280	290
MD7012-180M	18.0	±20%	1.35	2.0	490	540
MD7012-220M	22.0	±20%	1.2	1.7	540	600

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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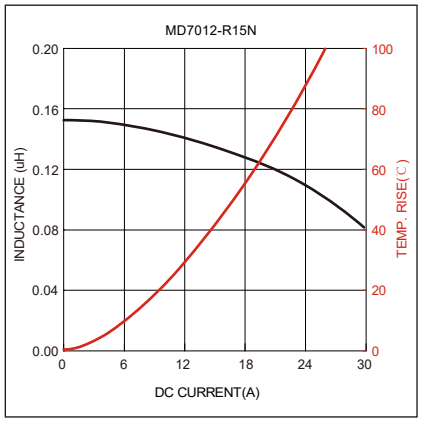
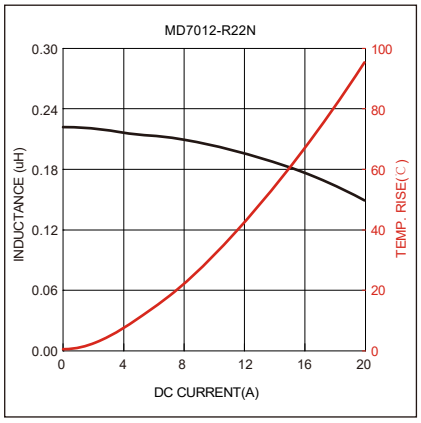
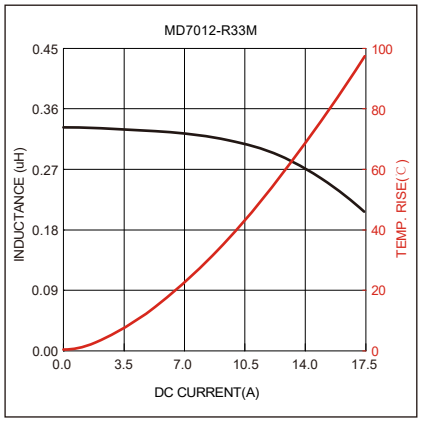
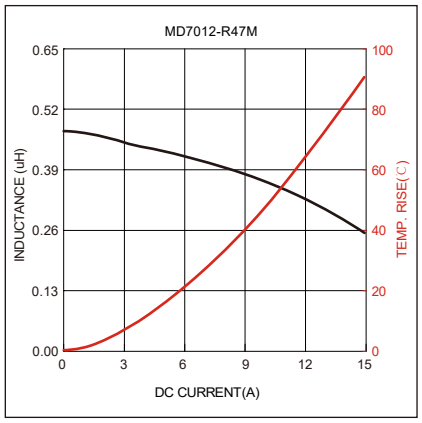
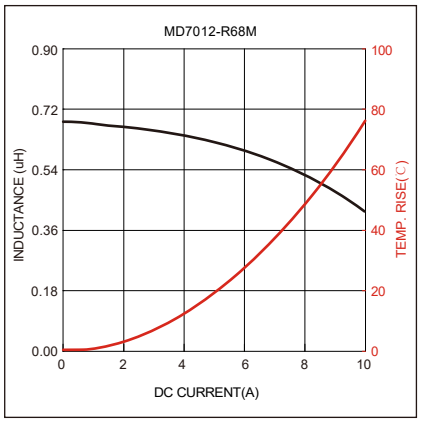
Typical Electrical Characteristics:

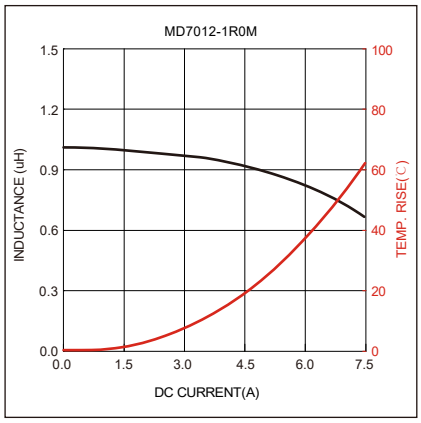


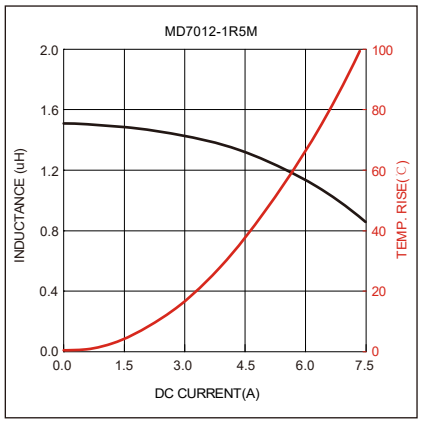


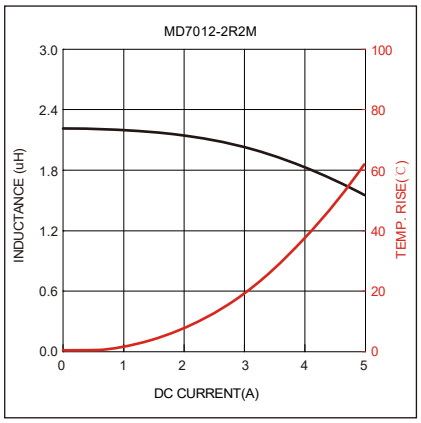


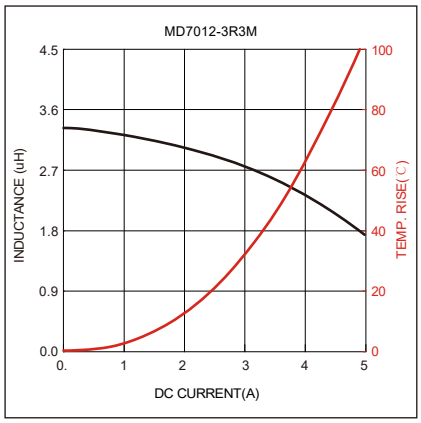


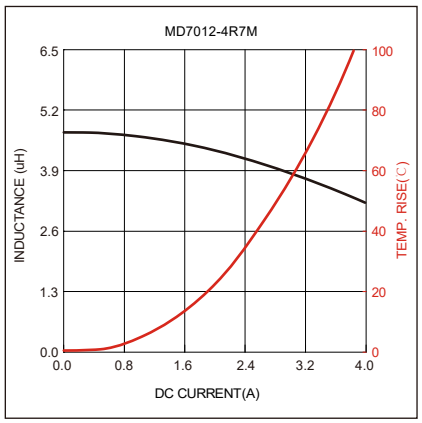


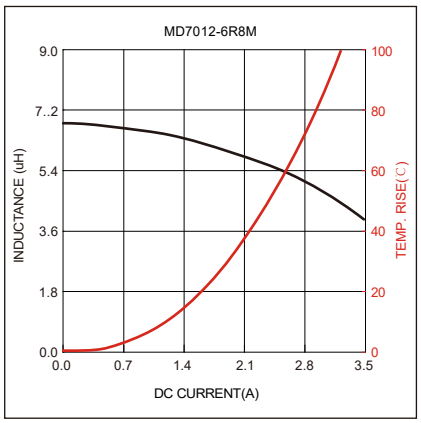


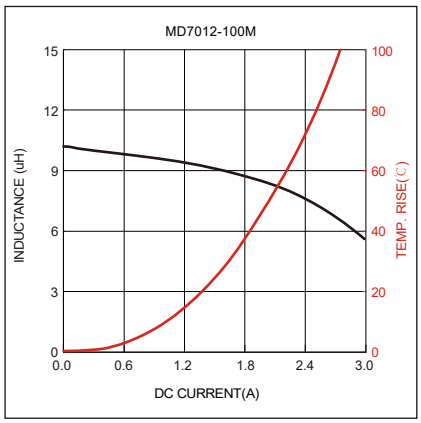












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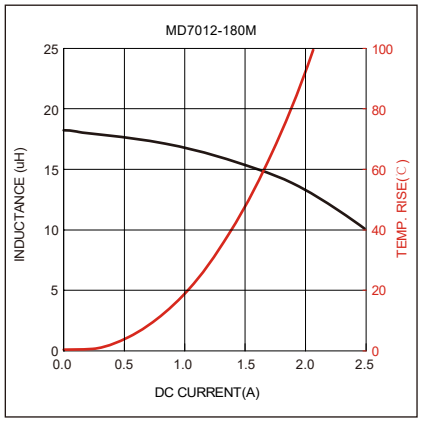

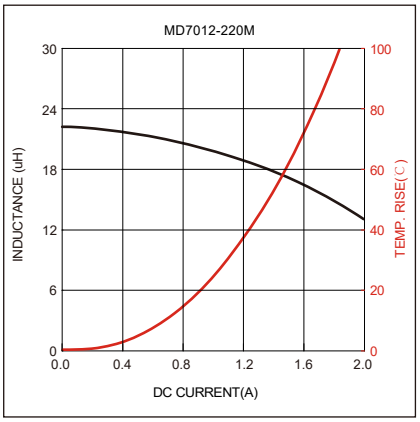

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