MD Series

SMD Low Profile High Current Molded Inductor

Size 4012

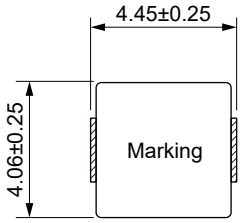
CHARACTERISTICS

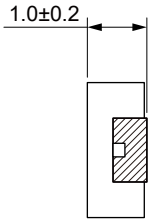
- Molded type
- High saturation current due to CIP material
- Nature air gap and no acoustic noise
- Different sizes available
- Quantity: 4000pcs

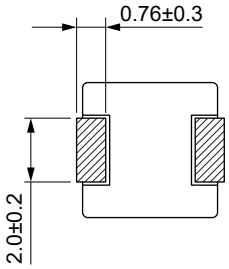
APPLICATION

- High current DC/DC converter
- LC flter

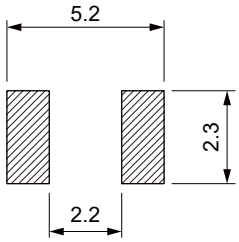
Dimensions: [mm]







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)
MD4012-R10N	0.10	±30%	11.5	25	4.30	5.50
MD4012-R22M	0.22	±20%	8.5	20	6.60	8.00
MD4012-R33M	0.33	±20%	7.0	11	13.6	16.0
MD4012-R36M	0.36	±20%	6.5	8.5	15.5	18.0
MD4012-R47M	0.47	±20%	6.0	6.5	18.0	20.0
MD4012-R68M	0.68	±20%	5.0	6.0	32.0	37.0
MD4012-1R0M	1.00	±20%	4.0	6.0	41.0	47.0
MD4012-1R5M	1.50	±20%	3.0	4.0	55.0	63.3
MD4012-2R2M	2.20	±20%	2.8	3.5	69.2	80.0
MD4012-3R3M	3.30	±20%	2.3	3.0	84.0	97.0
MD4012-4R7M	4.70	±20%	2.0	2.5	128	145
MD4012-5R6M	5.60	±20%	1.7	2.3	180	208
MD4012-6R8M	6.80	±20%	1.5	1.7	300	360
MD4012-8R2M	8.20	±20%	1.4	1.6	313	376
MD4012-100M	10.0	±20%	1.3	1.4	410	463
MD4012-220M	22.0	±20%	0.8	1.0	950	1050

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%

KOHER Electronics
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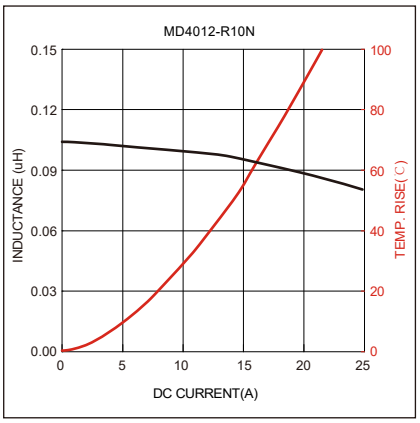
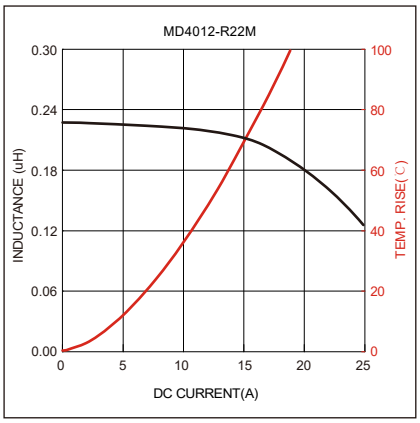
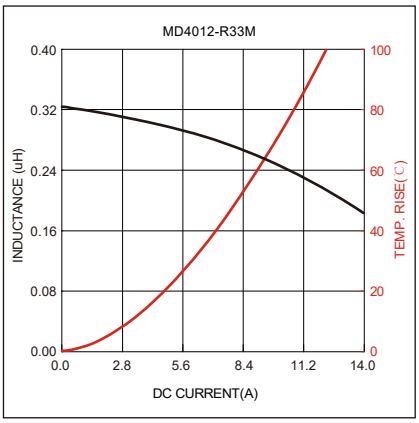
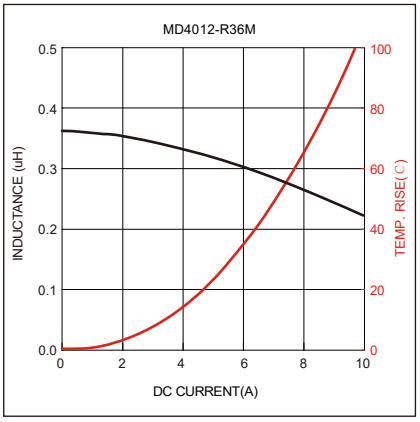
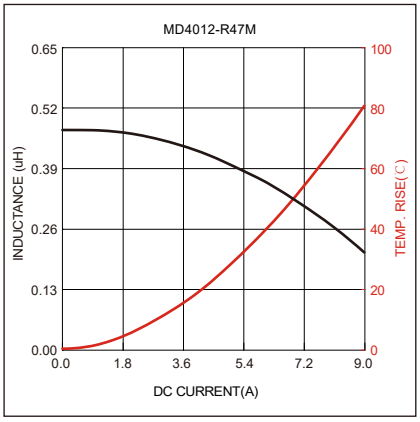
Typical Electrical Characteristics:

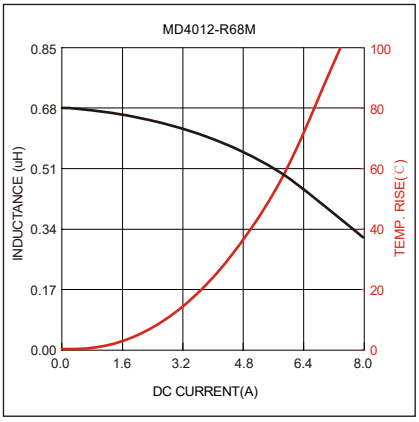


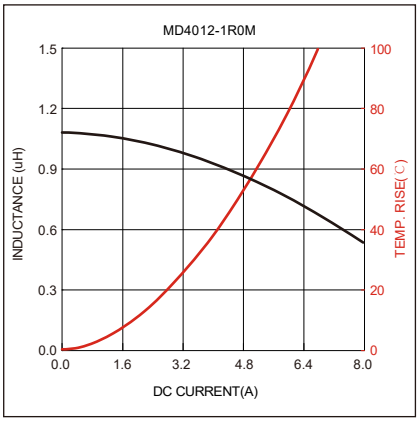


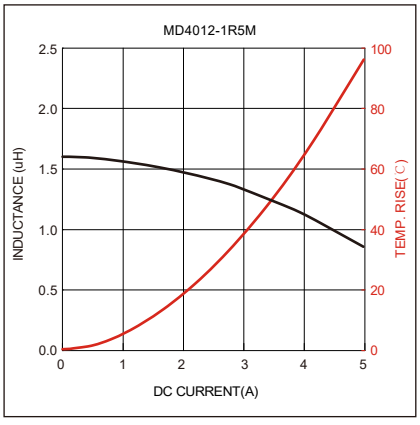


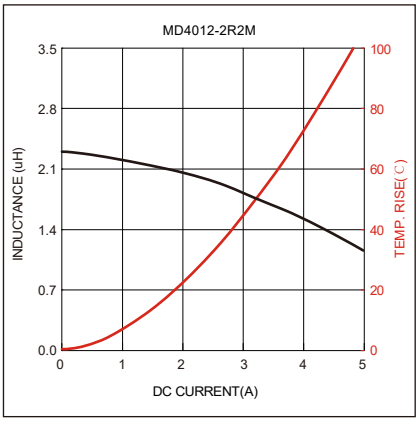


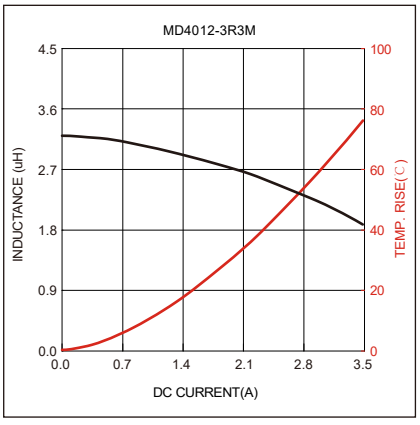


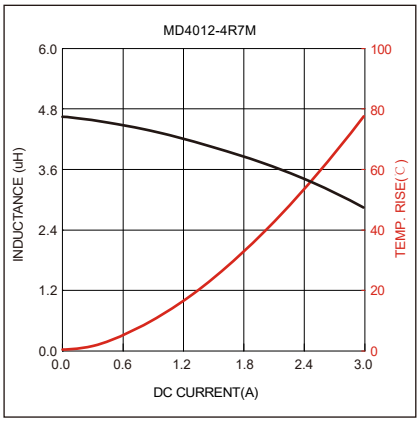


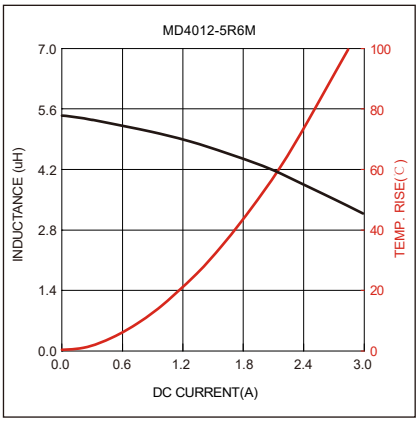
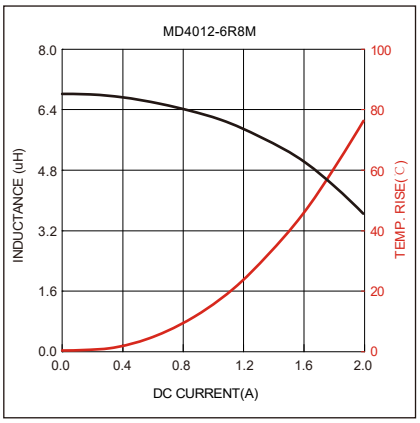
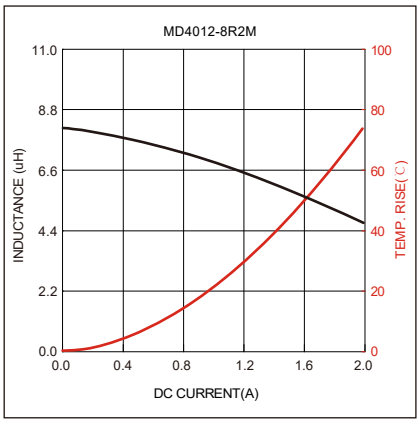
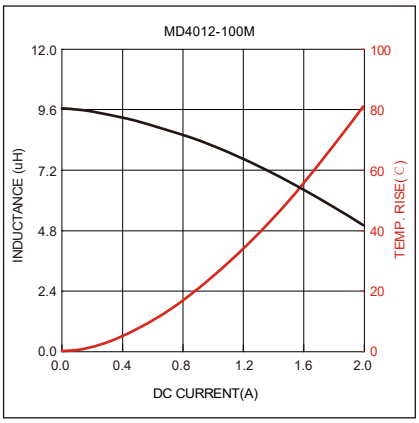
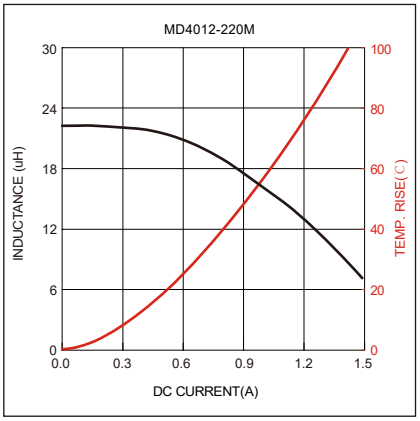








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