MD Series

SMD Low Profile High Current Molded Inductor

Size 3520

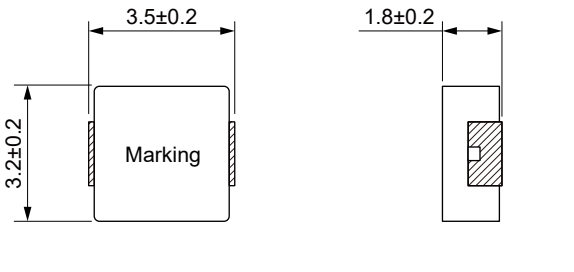
CHARACTERISTICS

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

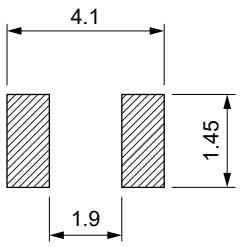
APPLICATION

- High current DC/DC converter
- LC 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)
MD3520-R10N	0.10	±30%	10.5	14	6.6	9.0
MD3520-R22N	0.22	±30%	9.0	11.2	11	14
MD3520-R33M	0.33	±20%	8.0	10	17	21
MD3520-R47M	0.47	±20%	7.0	9.0	19.7	23
MD3520-R68M	0.68	±20%	5.5	7.0	25.5	29
MD3520-R82M	0.82	±20%	4.8	6.0	27	32
MD3520-1R0M	1.00	±20%	4.0	5.0	32	38
MD3520-1R5M	1.50	±20%	3.8	4.0	42	50
MD3520-2R2M	2.20	±20%	3.5	3.7	65	75
MD3520-3R3M	3.30	±20%	3.0	3.5	125	145
MD3520-4R7M	4.70	±20%	2.6	3.0	172	200
MD3520-5R6M	5.60	±20%	2.2	2.6	205	238
MD3520-6R8M	6.80	±20%	1.9	2.2	260	300

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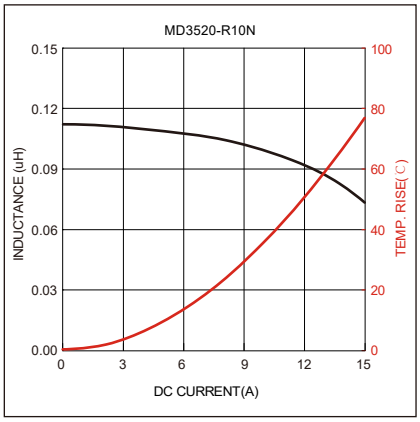
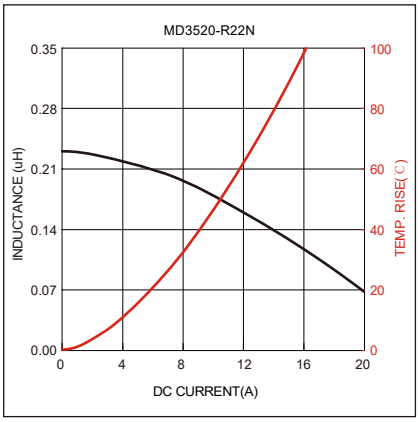
F9, No. 4188, Huaning Rd, Minhang District, Shanghai
021-34753361 Contact@kohergroup.com

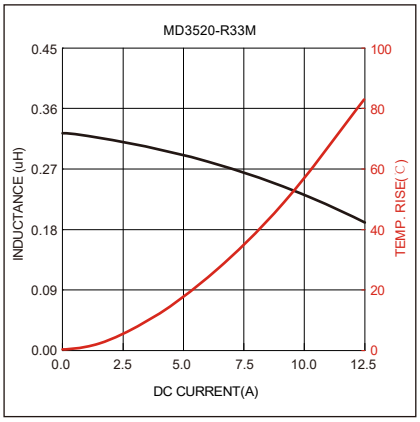
Part No	Inductance @ 100KHz/1V (μH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation current Typ. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)
MD3520-8R2M	8.20	±20%	1.6	1.9	340	390
MD3520-100M	10.0	±20%	1.4	1.6	366	422

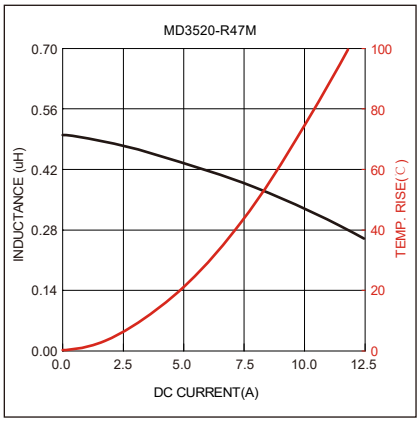
Operating temperature : -40℃ ~ +125℃
Temperature rise current : The actual value of DC current when the temperature rise is ΔT40℃
Saturation Current will cause L to drop approximately 30%

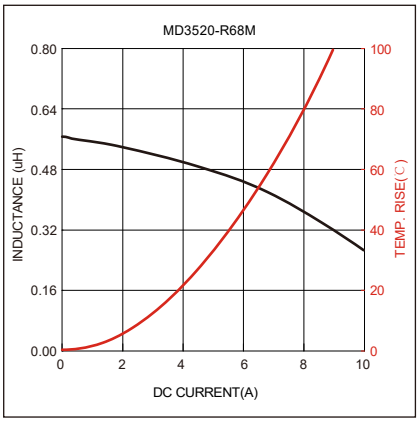
Typical Electrical Characteristics:

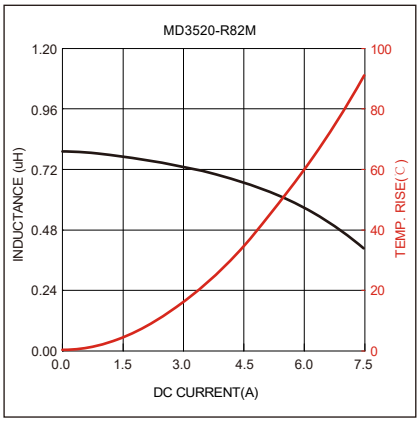


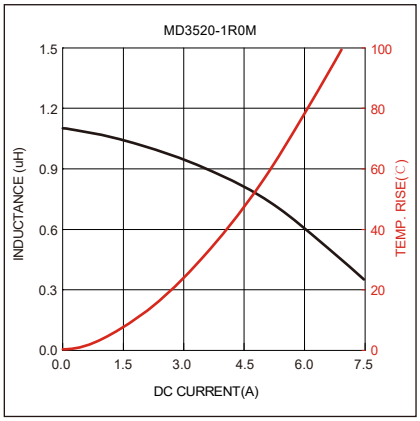


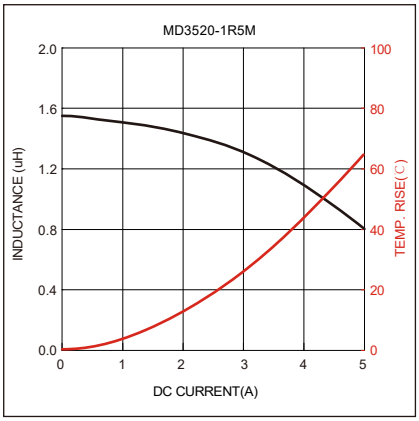


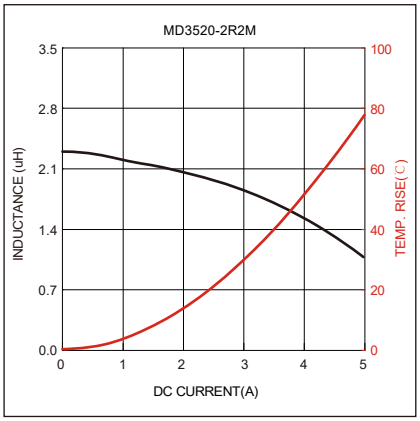












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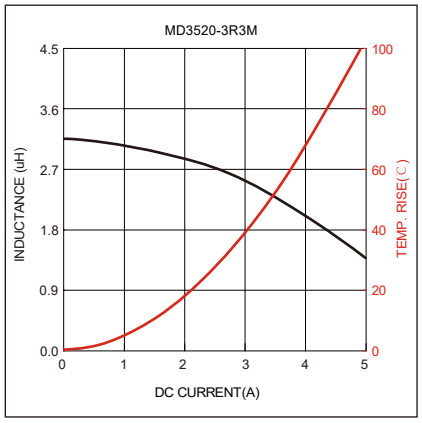

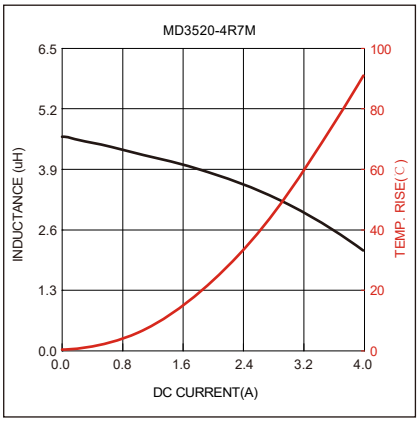

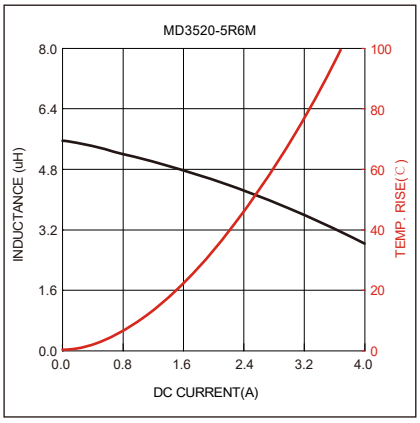

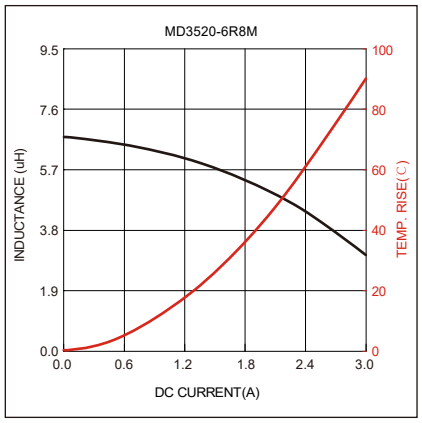

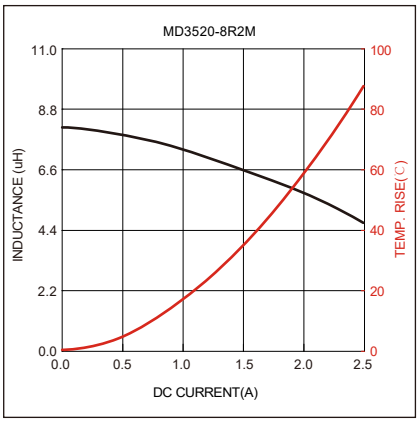

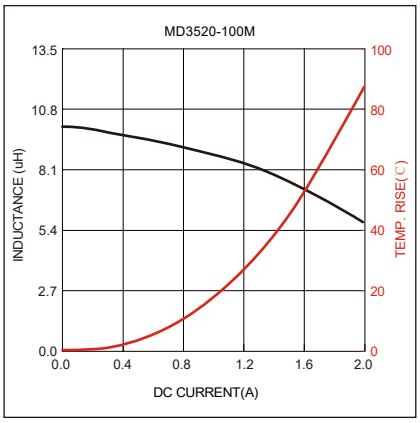

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