MD Series

SMD Low Profile High Current Molded Inductor

Size 3512

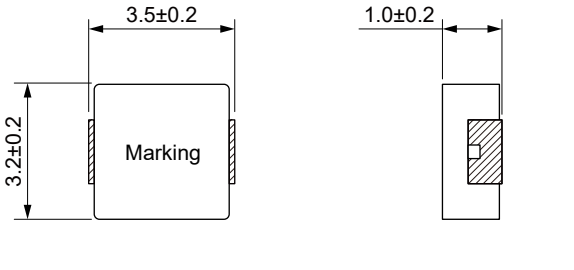
CHARACTERISTICS

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

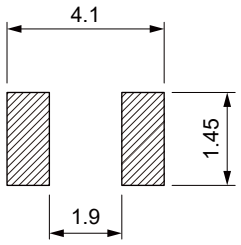
APPLICATION

- 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)
MD3512-R22M	0.22	±20%	6.5	10	14	17
MD3512-R33M	0.33	±20%	6.2	9.2	16	20
MD3512-R36M	0.36	±20%	6.0	8.5	18.5	23
MD3512-R47M	0.47	±20%	5.0	7.2	25	30
MD3512-R56M	0.56	±20%	4.5	6.6	31	36
MD3512-R68M	0.68	±20%	4.0	6.1	34	40
MD3512-R82M	0.82	±20%	3.5	5.8	41	48
MD3512-1R0M	1.00	±20%	3.3	5.5	50	60
MD3512-1R5M	1.50	±20%	3.0	4.0	71	85
MD3512-2R2M	2.20	±20%	2.7	3.4	98	115
MD3512-3R3M	3.30	±20%	2.0	3.1	191	210
MD3512-4R7M	4.70	±20%	1.6	2.8	266	293
MD3512-5R6M	5.60	±20%	1.5	2.2	310	360

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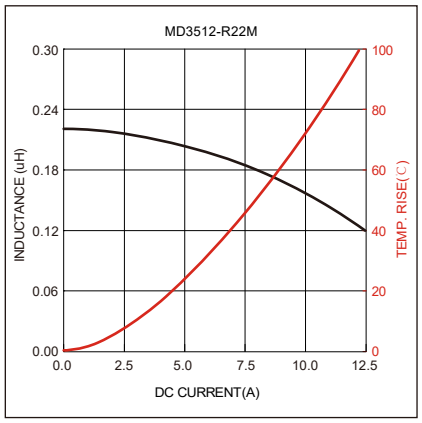
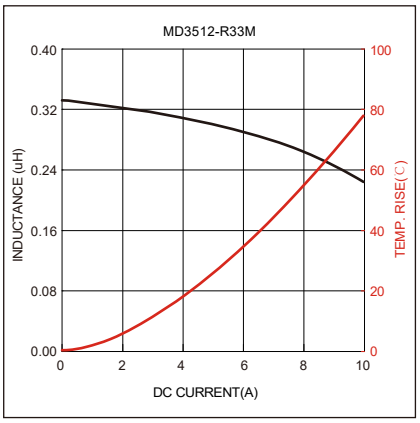
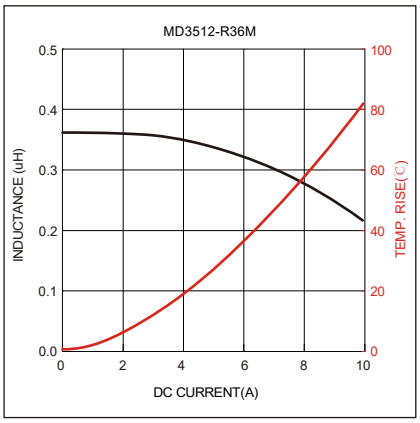
Part No	Inductance @ 100KHz/1V (μH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation current Typ. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)
MD3512-6R8M	6.80	±20%	1.4	2.0	360	400
MD3512-8R2M	8.20	±20%	1.2	1.7	420	463
MD3512-100M	10.0	±20%	1.0	1.4	498	550

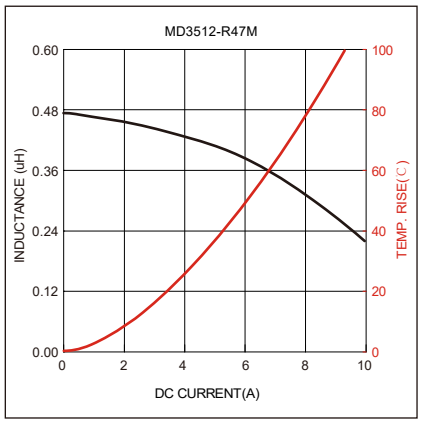
Operating temperature : -40℃ ~ +125℃
Temperature rise current : The actual value of DC current when the temperature rise is ΔT40℃
Saturation Current will cause L to drop approximately 30%

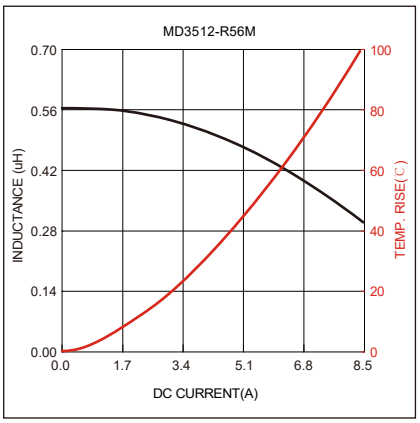
Typical Electrical Characteristics:

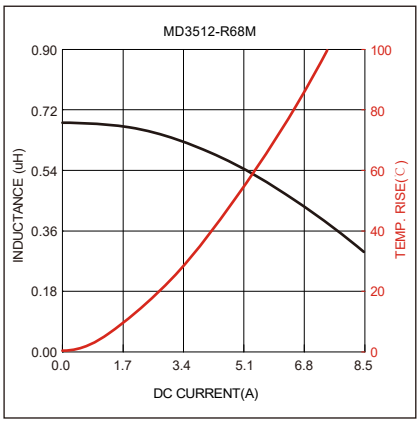


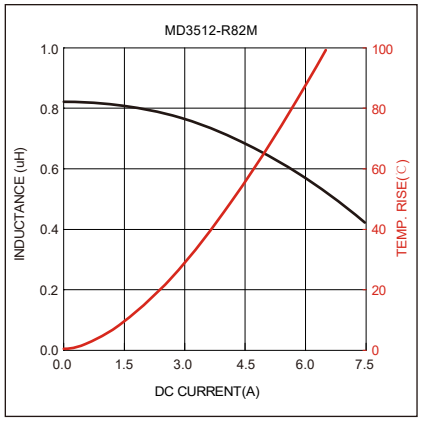


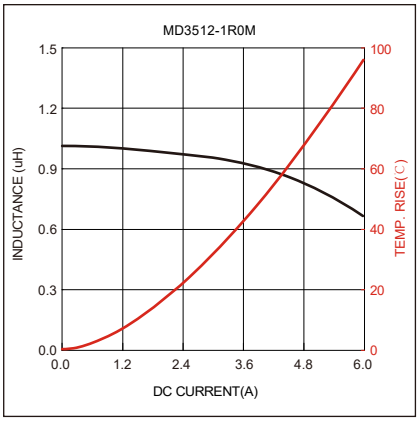


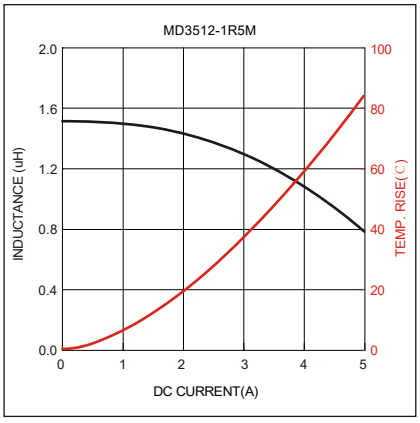












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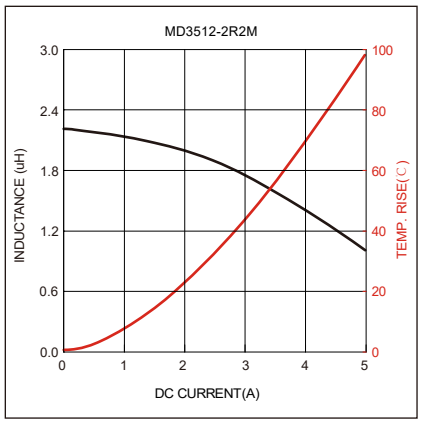

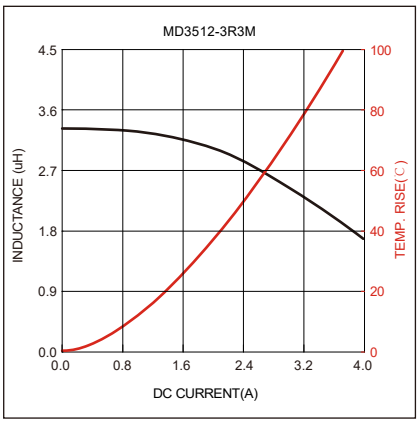

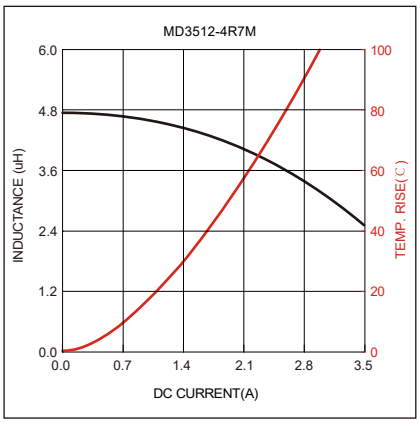

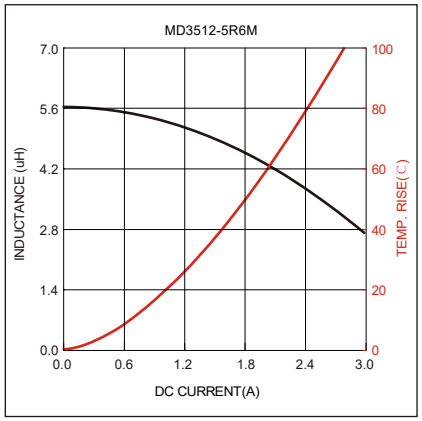

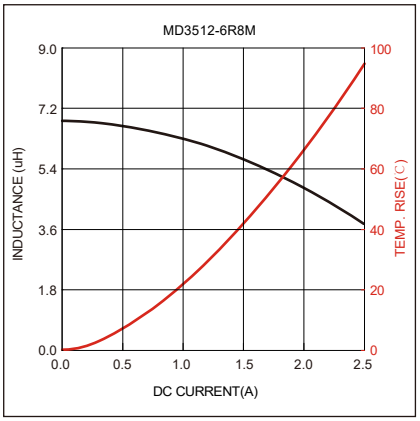

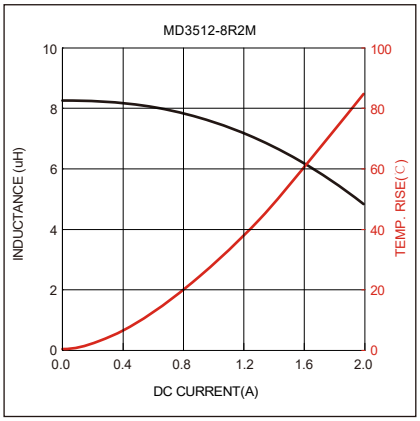

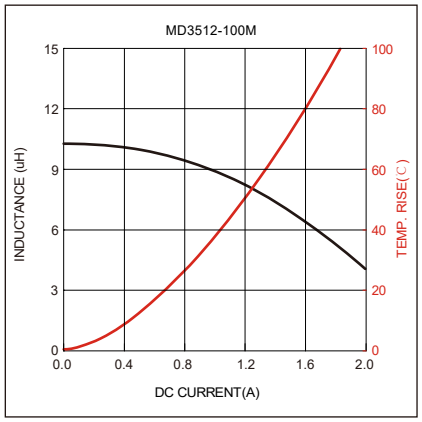

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