MDA Series

SMD Low Profile High Current Molded Inductor

Size 1350

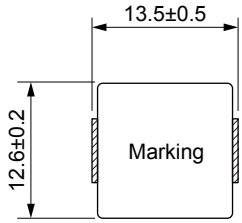
FEATURES

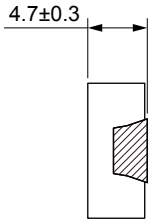
- Shielded construction
- Capable of corresponding high frequency .
- Low loss realized with low DCR.
- High performance (Isat) realized by metal dust core.
- Ultra low buzz noise, due to composite construction.
- 100% Lead(Pb)-Free and RoHS compliant.
- High reliability -Reliability test complied to AEC-Q200
- Operating temperature: -55 to +155 °C (including self-temperature rise)
- Quantity: 500PCS

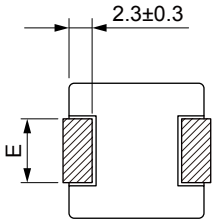
APPLICATION

- Headlamps, tail lamps and interior lighting
- HVAC
- Doors, window lift and seat control
- Audio subsystem
- Digital instrument cluster
- In-Vehicle Infotainment and navigation

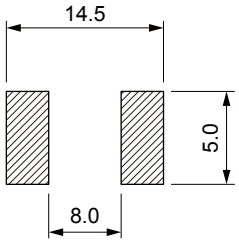
Dimensions: [mm] 0.47μH-1.0μH



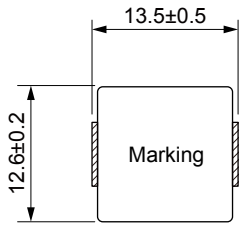


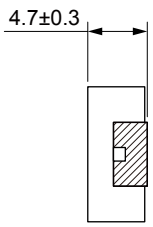


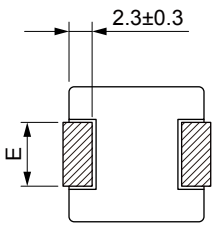
Land Pattern: [mm]



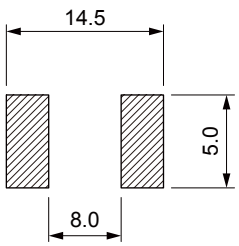
Dimensions: [mm] 1.5μH-33μH







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)	E
MDA1350-R47M	0.47	±20%	38.0	65.0	0.77	0.90	4.0±0.3
MDA1350-R68M	0.68	±20%	34.0	50.0	1.30	1.55	4.0±0.3
MDA1350-1R0M	1.00	±20%	30.0	40.0	1.60	1.90	4.0±0.3

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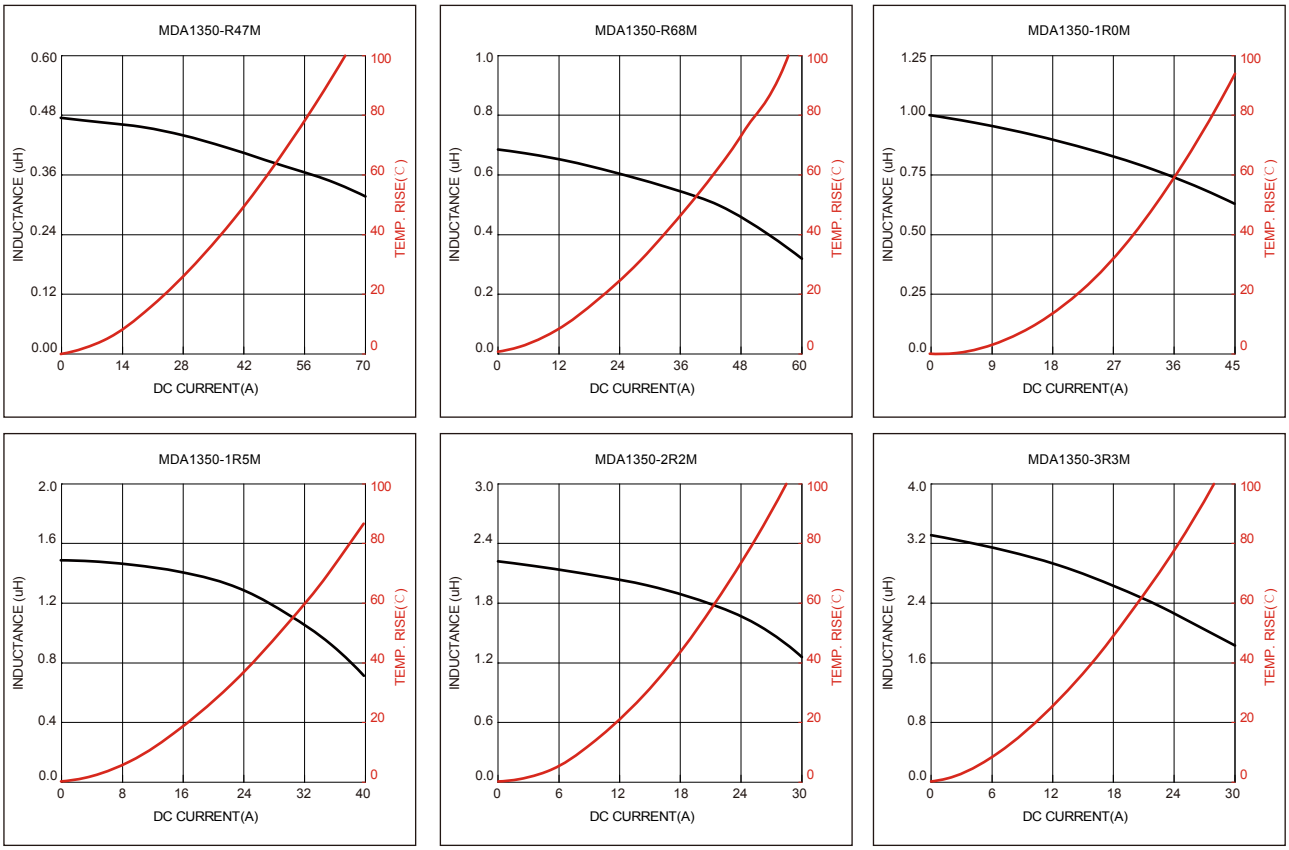
Part No	Inductance @ 100KHz/1V (μH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation Current Typ. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)	E
MDA1350-1R5M	1.50	±20%	25.0	31.0	3.20	3.80	4.7±0.3
MDA1350-2R2M	2.20	±20%	17.0	26.0	4.10	4.80	4.7±0.3
MDA1350-3R3M	3.30	±20%	15.5	23.0	6.00	7.00	4.7±0.3
MDA1350-4R7M	4.70	±20%	14.0	18.5	8.80	10.2	4.7±0.3
MDA1350-6R8M	6.80	±20%	12.0	16.5	13.0	16.0	4.7±0.3
MDA1350-100M	10.0	±20%	10.0	13.0	19.2	22.0	4.7±0.3
MDA1350-150M	15.0	±20%	9.4	11.0	30.0	36.0	4.7±0.3
MDA1350-220M	22.0	±20%	8.0	8.5	42.0	52.0	4.7±0.3
MDA1350-330M	33.0	±20%	6.0	7.3	66.0	80.0	4.7±0.3

Saturation Current will cause L to drop approximately 30%
Temperature Rise Current: The actual value of DC current when the temperature rise is △T=40°C

Typical Electrical Characteristics:



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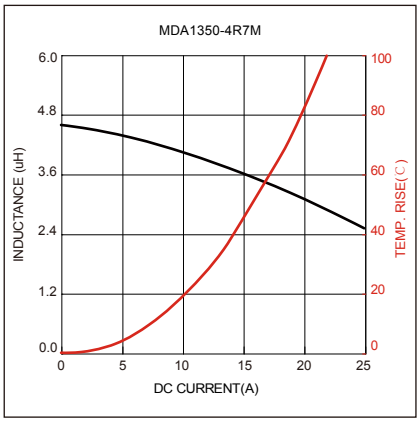

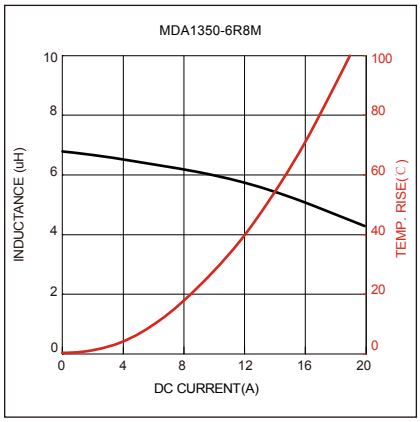

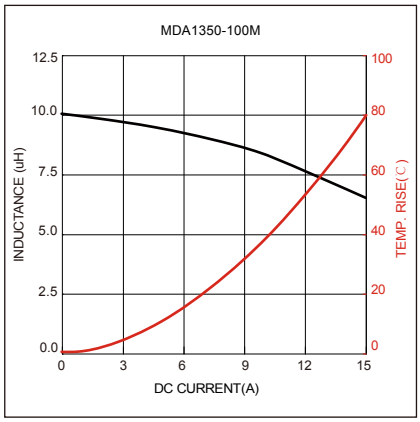

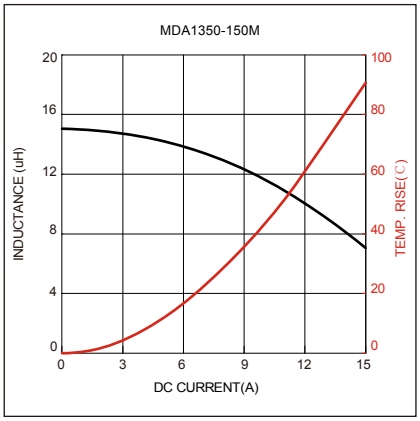

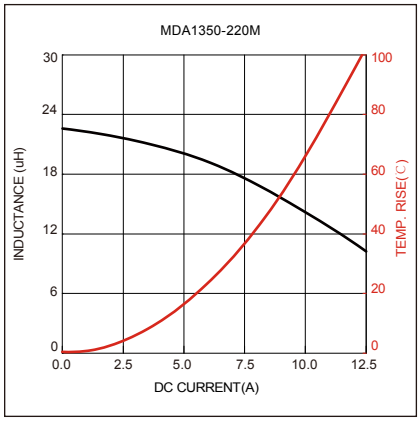

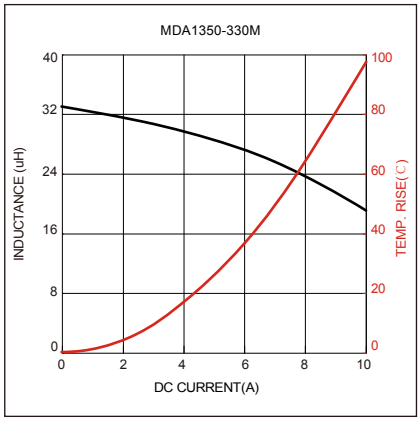

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