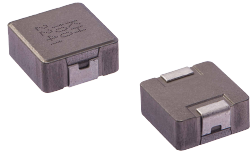


MDA Series

SMD Low Profile High Current Molded Inductor

Size 1350



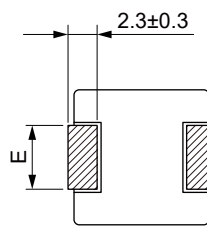
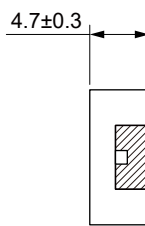
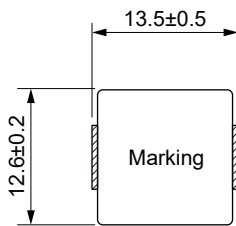
FEATURES

- 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.
- AEC-Q200 qualified
- Operating temperature: -55 to +155 °C (including self-temperature rise)
- Quantity: 500PCS

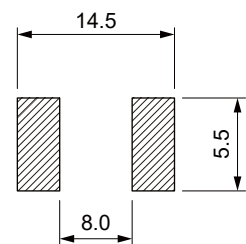
APPLICATION

- 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]



Land Pattern: [mm]



Electrical Properties:

Part No	Inductance @ 100KHz/1V (μH)	Tolerance	Temperature Rise Current Typ. (A)	Temperature Rise Current Max. (A)	Saturation Current Typ. (A)	Saturation Current Max. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)	E
MDA1350-R47M	0.47	±20%	38.0	34.0	65.0	58.0	0.77	0.90	4.0±0.3
MDA1350-R68M	0.68	±20%	34.0	31.0	50.0	42.0	1.30	1.55	4.0±0.3
MDA1350-1R0M	1.00	±20%	30.0	27.0	40.0	34.0	1.60	1.90	4.0±0.3
MDA1350-1R5M	1.50	±20%	25.0	22.0	31.0	28.0	3.20	3.80	4.7±0.3
MDA1350-2R2M	2.20	±20%	17.0	15.5	26.0	23.0	4.10	4.80	4.7±0.3
MDA1350-3R3M	3.30	±20%	15.5	14.0	23.0	20.5	6.00	7.00	4.7±0.3
MDA1350-4R7M	4.70	±20%	14.0	12.5	18.5	16.0	8.80	10.2	4.7±0.3
MDA1350-6R8M	6.80	±20%	12.0	11.0	16.5	15.0	13.0	16.0	4.7±0.3
MDA1350-100M	10.0	±20%	10.0	9.0	13.0	10.5	19.2	20.9	4.7±0.3
MDA1350-150M	15.0	±20%	9.40	8.2	11.0	9.2	30.0	36.0	4.7±0.3
MDA1350-220M	22.0	±20%	8.00	7.0	8.50	7.5	42.0	52.0	4.7±0.3

Electrical Properties:

Part No	Inductance @ 100KHz/1V (μ H)	Tolerance	Temperature Rise Current Typ. (A)	Temperature Rise Current Max. (A)	Saturation Current Typ. (A)	Saturation Current Max. (A)	DC Resistance Typ. (m Ω)	DC Resistance Max. (m Ω)	E
MDA1350-330M	33.0	$\pm 20\%$	6.00	5.2	7.30	6.5	66.0	80.0	4.7 ± 0.3
MDA1350-470M	47.0	$\pm 20\%$	5.20	4.3	6.00	5.2	78.0	94.0	4.7 ± 0.3
MDA1350-680M	68.0	$\pm 20\%$	4.30	3.4	5.00	4.0	95.0	132	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 $\Delta T = 40^\circ\text{C}$

Typical Electrical Characteristics:

