

# MDA HT Series

## SMD Moulded Inductor

### Size 5040



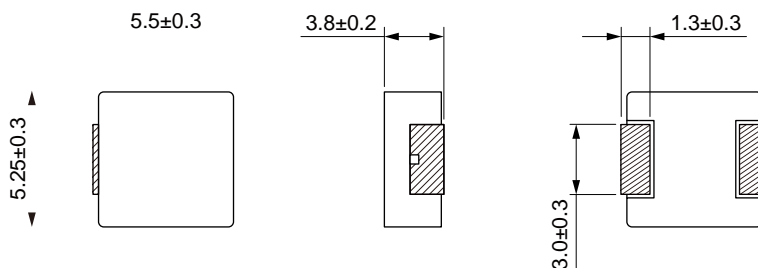
#### FEATURES

- Low loss realized with low DCR.
- Ultra low buzz noise, due to composite construction.
- 100% Lead(Pb)-Free and RoHS compliant.
- High performance (Isat) realized by metal dust core.
- AEC-Q200 qualified.
- Operating temperature: -55 to +165 °C (including self-temperature rise)
- Quantity: 1500PCS

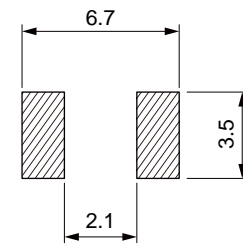
#### APPLICATION

- 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]



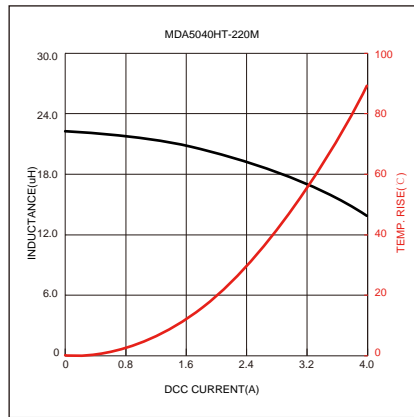
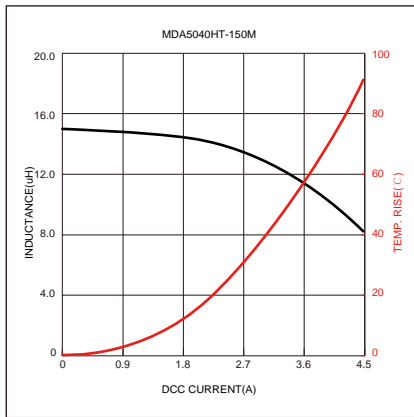
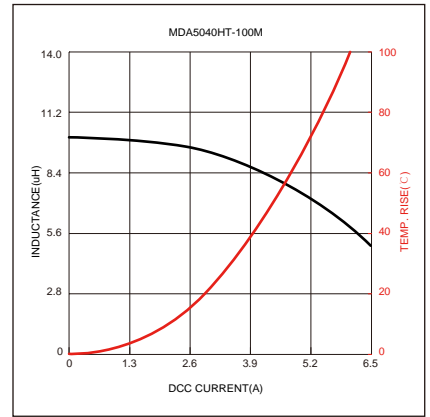
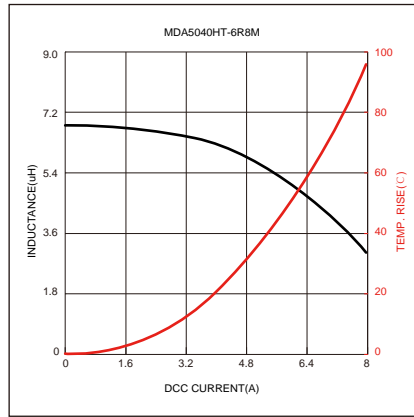
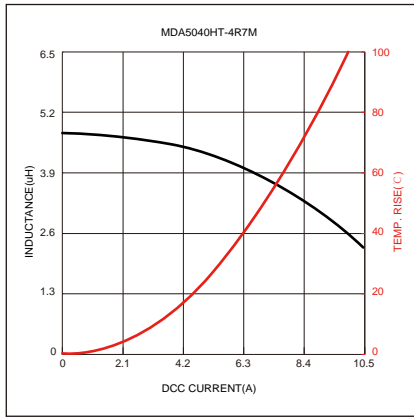
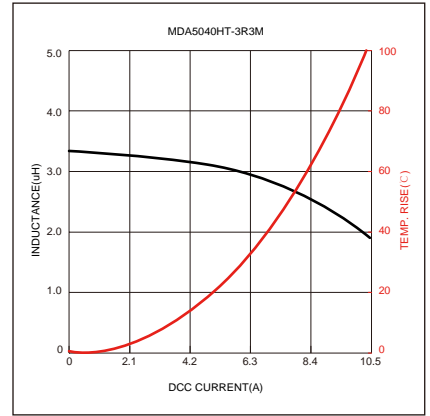
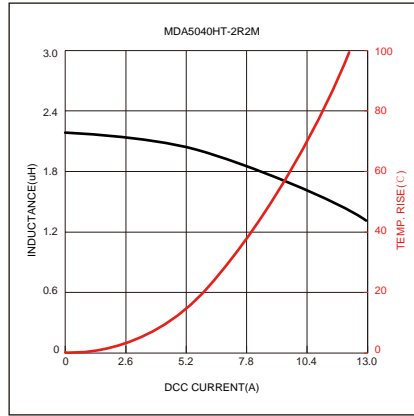
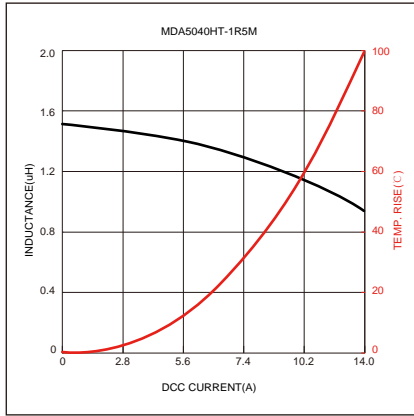
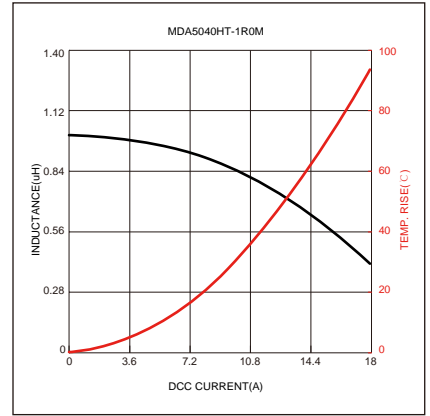
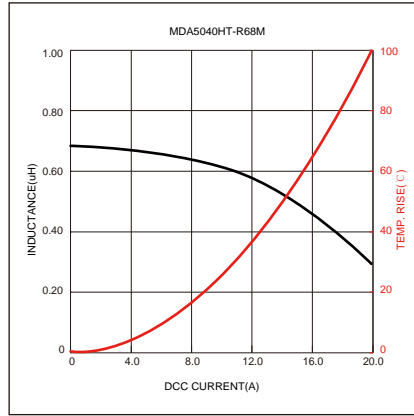
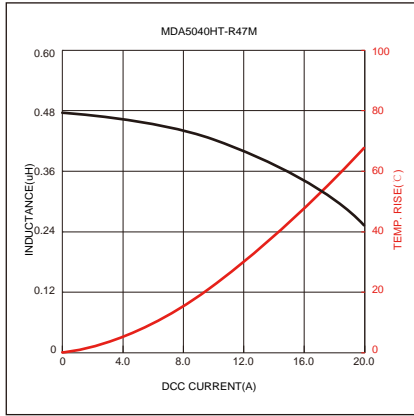
Electrical Properties:

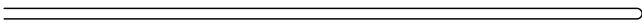
Part No	Inductance @ 100KHz/1V (μH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation Current Typ. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)
MDA5040HT-R47M	0.47	±20%	13.5	14.5	5.5	6.3
MDA5040HT-R68M	0.68	±20%	12.5	13.2	7.5	8.6
MDA5040HT-1R0M	1.00	±20%	11.5	11.2	9.8	11.3
MDA5040HT-1R5M	1.50	±20%	9.0	10.3	14.7	16.2
MDA5040HT-2R2M	2.20	±20%	7.8	9.3	21.8	24.0
MDA5040HT-3R3M	3.30	±20%	6.8	8.8	30.0	34.5
MDA5040HT-4R7M	4.70	±20%	6.1	7.2	35.6	39.2
MDA5040HT-6R8M	6.80	±20%	5.2	5.2	50.0	57.5
MDA5040HT-100M	10.0	±20%	4.0	5.2	82.0	92.0
MDA5040HT-150M	15.0	±20%	3.0	3.8	100	120
MDA5040HT-220M	22.0	±20%	2.7	3.0	170	187

Saturation Current will cause L to drop approximately 35%

Temperature Rise Current: The actual value of DC current when the temperature rise is  $\Delta T=40^{\circ}\text{C}$

# Typical Electrical Characteristics:





Reel Dimension: [mm]



Packaging Quantity: