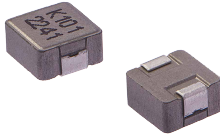


**MDA Series**  
**SMD Low Profile High Current Molded Inductor**  
**Size 5030**



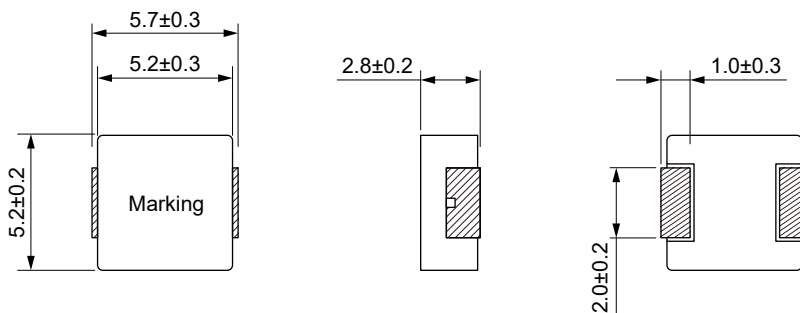
**FEATURES**

- 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: 2000PCS

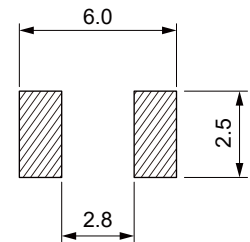
**APPLICATION**

- 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]**



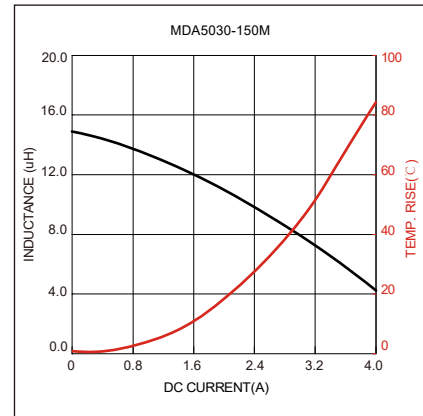
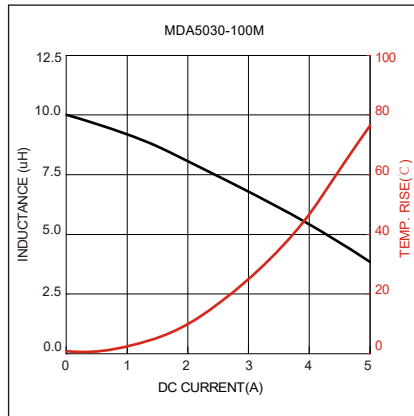
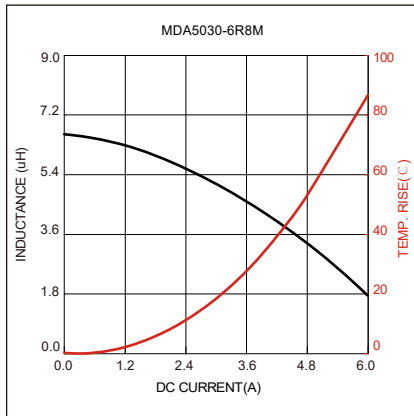
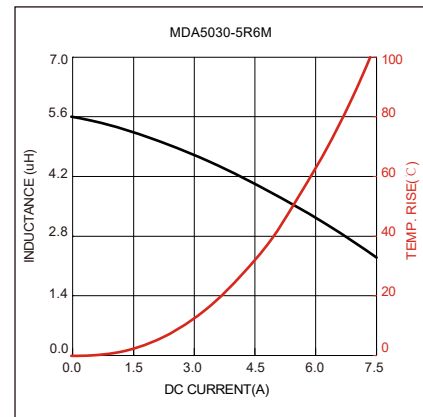
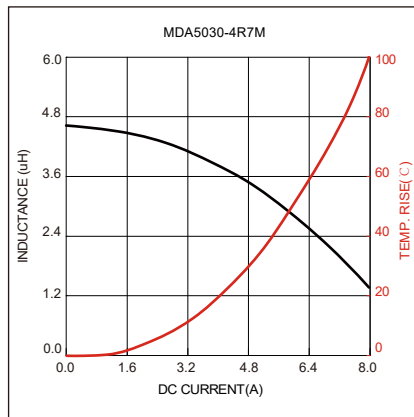
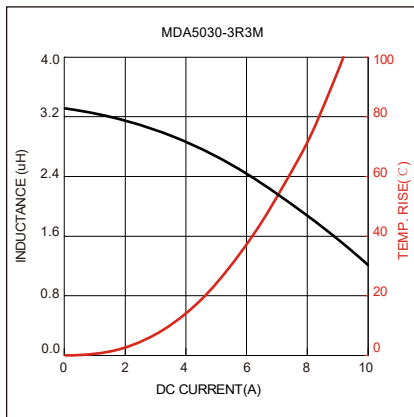
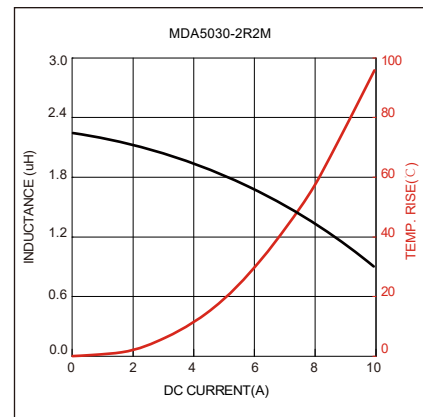
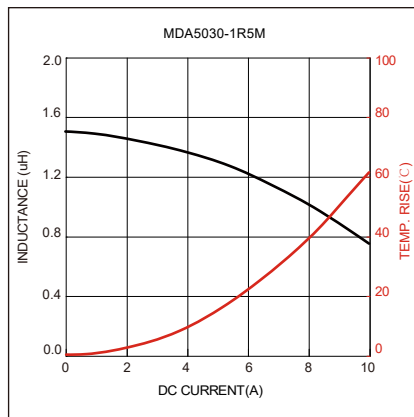
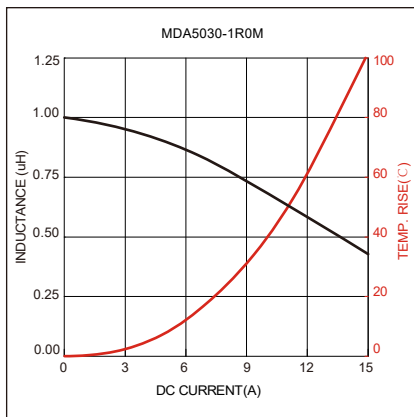
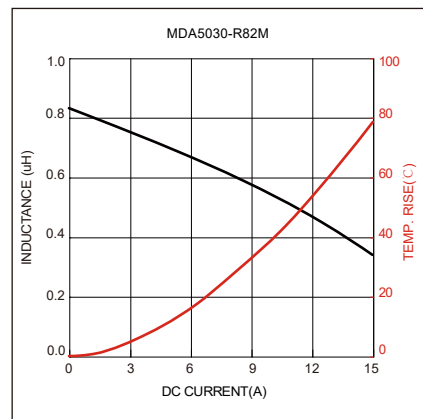
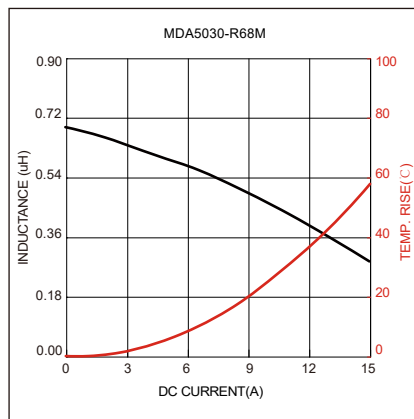
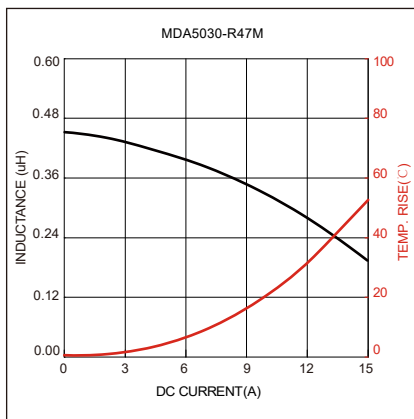
**Electrical Properties:**

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)
MDA5030-R47M	0.47	±20%	13.5	12.0	10.0	9.0	5.20	6.00
MDA5030-R68M	0.68	±20%	12.5	11.0	9.0	8.0	7.40	8.50
MDA5030-R82M	0.82	±20%	10.0	9.0	8.8	7.7	8.00	9.20
MDA5030-1R0M	1.00	±20%	9.0	8.0	8.5	7.5	10.5	12.0
MDA5030-1R5M	1.50	±20%	8.0	7.0	7.5	6.5	13.6	15.7
MDA5030-2R2M	2.20	±20%	7.0	6.5	6.5	5.8	21.6	25.0
MDA5030-3R3M	3.30	±20%	6.3	5.8	6.0	5.3	28.0	33.0
MDA5030-4R7M	4.70	±20%	5.5	4.8	5.3	4.6	38.0	44.0
MDA5030-5R6M	5.60	±20%	5.0	4.3	4.6	4.0	50.0	58.0
MDA5030-6R8M	6.80	±20%	4.3	3.7	3.5	3.1	57.0	66.0
MDA5030-100M	10.0	±20%	3.8	3.4	2.5	2.1	88.0	103.0
MDA5030-150M	15.0	±20%	2.9	2.5	2.2	1.7	140.0	170.0

Saturation Current will cause L to drop approximately 30%

Temperature Rise Current: The actual value of DC current when the temperature rise is ΔT=40°C

Typical Electrical Characteristics:



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