

MDA Series
SMD Low Profile High Current Molded Inductor
Size 7030



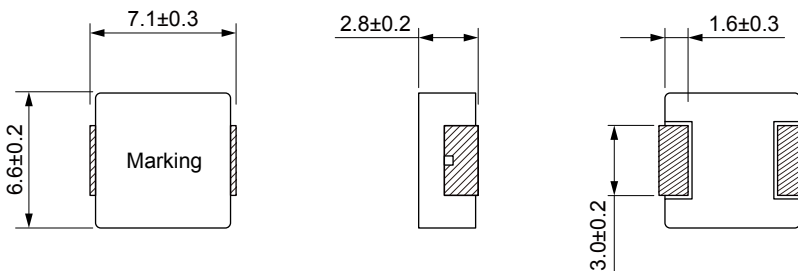
FEATURES

- 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: 1000PCS

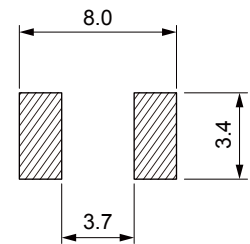
APPLICATION

- 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:

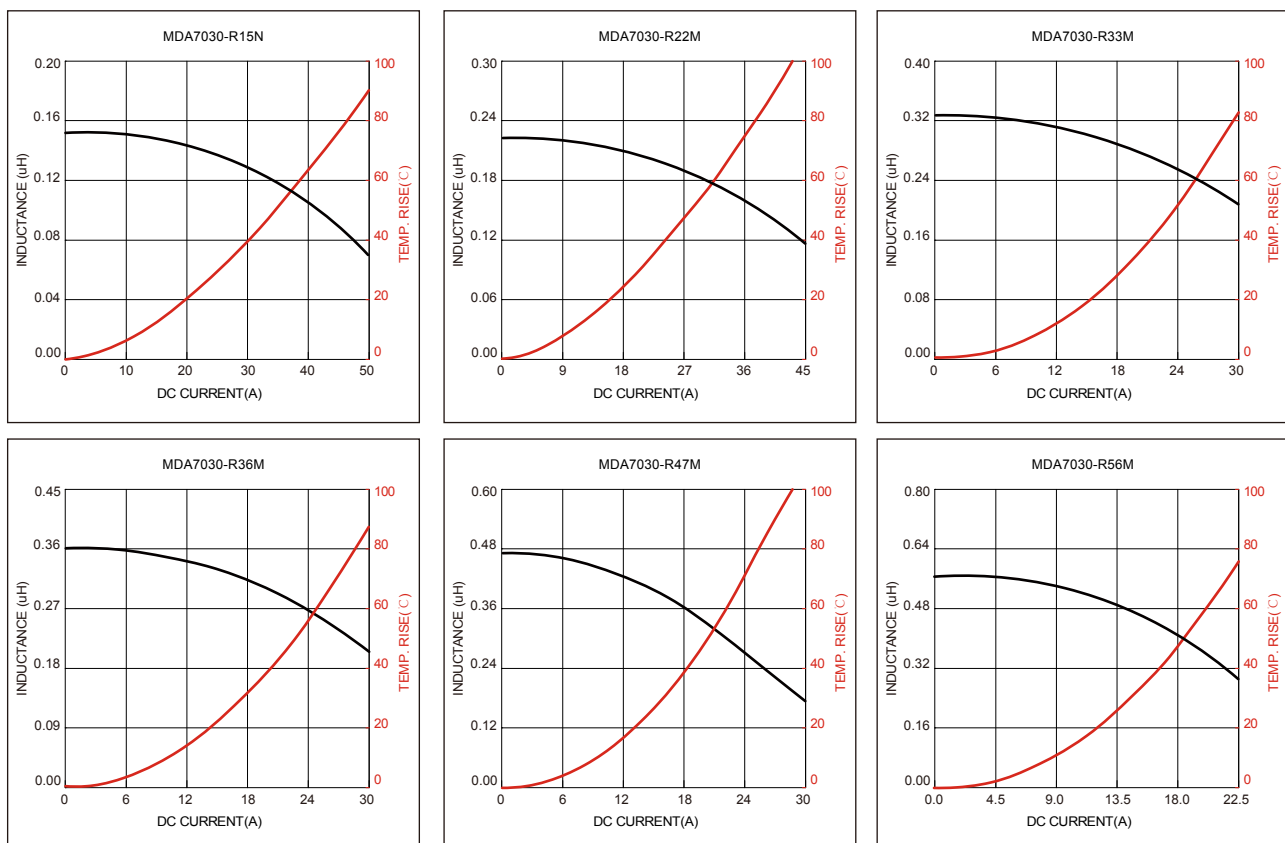
Part No	Inductance @ 100KHz/1V (μH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation Current Typ. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)
MDA7030-R15N	0.15	±30%	30.0	40.0	1.70	2.10
MDA7030-R22M	0.22	±20%	23.0	34.0	2.00	2.50
MDA7030-R33M	0.33	±20%	21.0	25.0	2.80	3.40
MDA7030-R36M	0.36	±20%	20.0	24.0	3.30	3.90
MDA7030-R47M	0.47	±20%	18.0	20.0	3.40	4.00
MDA7030-R56M	0.56	±20%	16.5	18.0	3.90	4.50
MDA7030-R68M	0.68	±20%	16.0	17.0	4.70	5.30
MDA7030-R82M	0.82	±20%	14.0	16.0	5.40	6.00
MDA7030-1R0M	1.00	±20%	12.0	15.0	6.70	7.40
MDA7030-1R2M	1.20	±20%	10.0	14.0	7.70	9.50

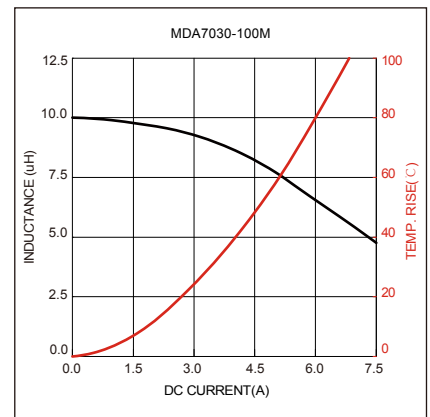
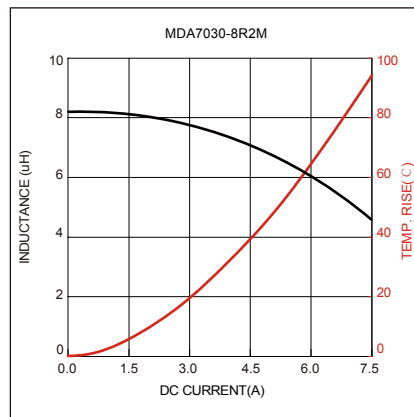
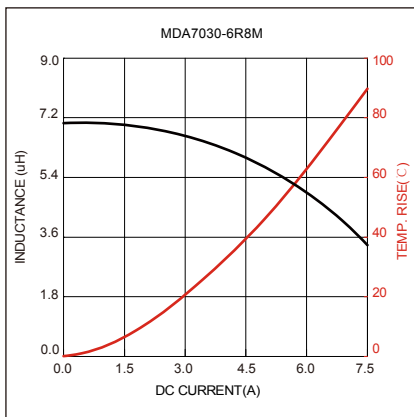
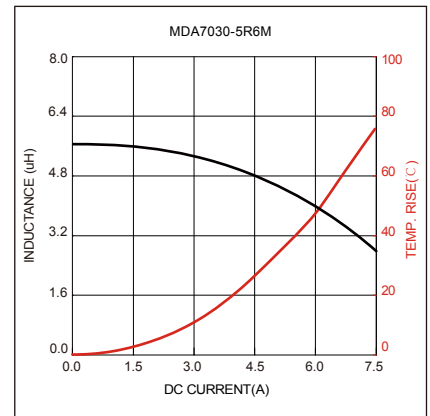
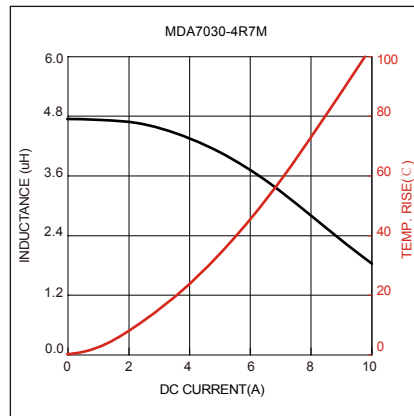
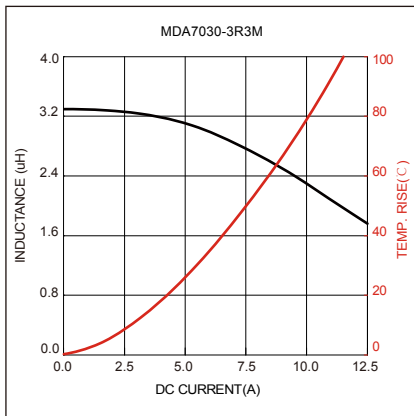
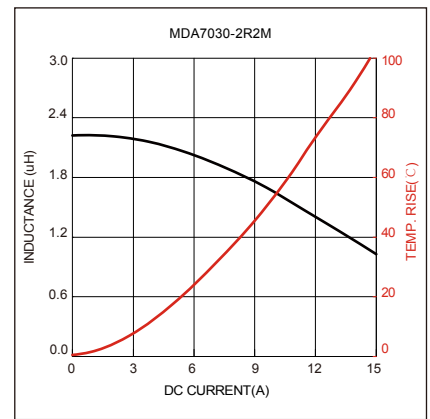
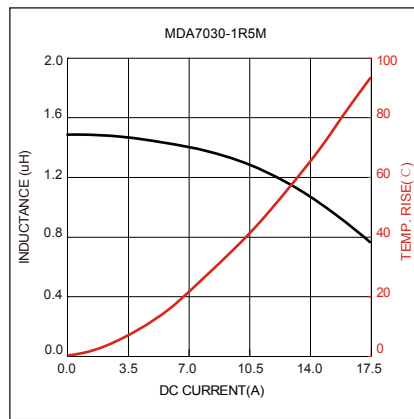
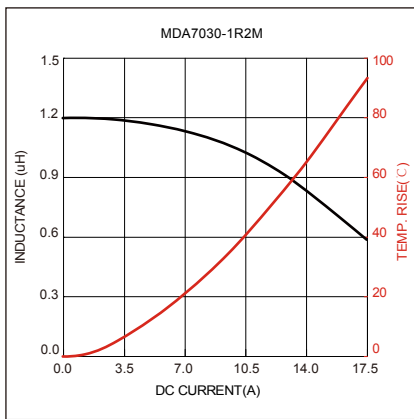
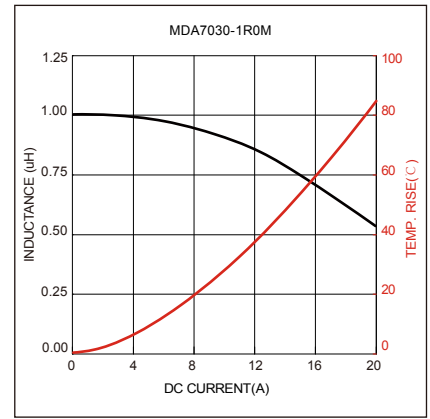
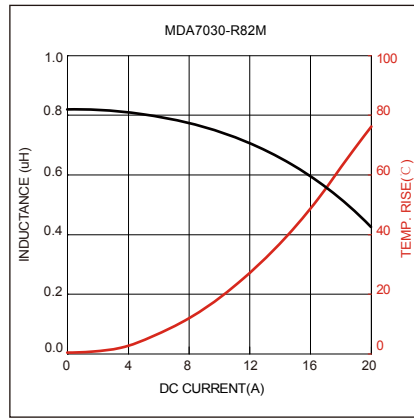
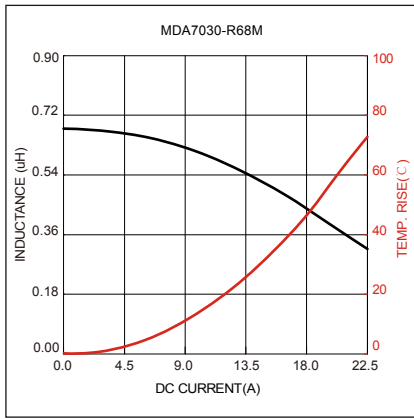
Part No	Inductance @ 100KHz/1V (μH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation Current Typ. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)
MDA7030-1R5M	1.50	±20%	10.0	14.0	10.2	12.1
MDA7030-2R2M	2.20	±20%	8.0	10.0	13.5	15.0
MDA7030-3R3M	3.30	±20%	6.5	9.5	19.0	22.0
MDA7030-4R7M	4.70	±20%	5.5	6.5	28.0	33.0
MDA7030-5R6M	5.60	±20%	5.5	6.0	39.0	42.0
MDA7030-6R8M	6.80	±20%	4.5	6.0	43.0	50.0
MDA7030-8R2M	8.20	±20%	4.5	6.0	54.0	60.0
MDA7030-100M	10.0	±20%	4.0	5.5	62.0	68.0
MDA7030-150M	15.0	±20%	3.0	4.5	110	140
MDA7030-220M	22.0	±20%	2.5	3.0	150	190

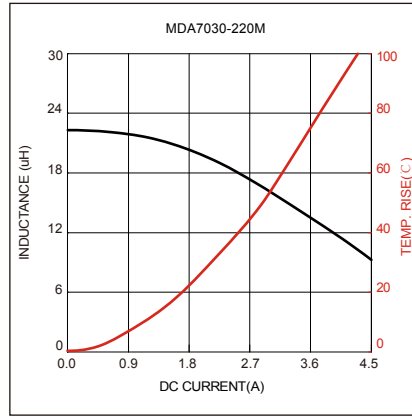
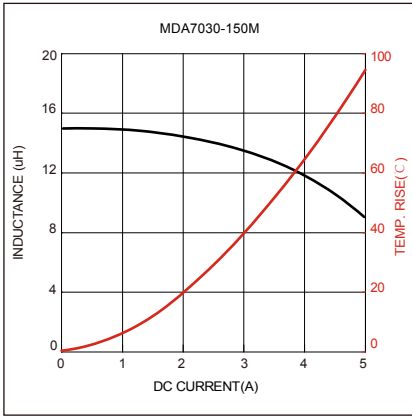
Saturation Current will cause L to drop approximately 30%

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

Typical Electrical Characteristics:







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