# MDA Series

SMD Low Profile High Current Molded Inductor

Size 1050

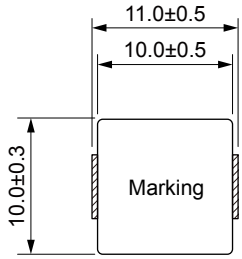

## FEATURES

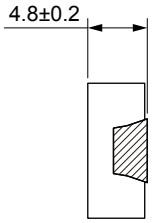
- Shielded construction
- Capable of corresponding high frequency .
- Low loss realized with low DCR.
- High performance (Isat) realized by metal dust core.
- Ultra low buzz noise, due to composite construction.
- 100% Lead(Pb)-Free and RoHS compliant.
- High reliability -Reliability test complied to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

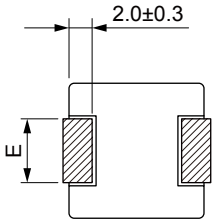
## APPLICATION

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

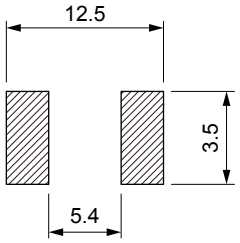
## Dimensions: [mm] 0.36μH-1.50μH



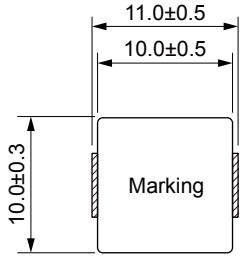



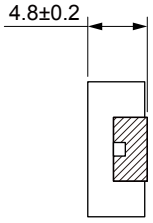



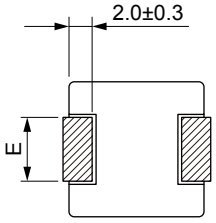

## Land Pattern: [mm]



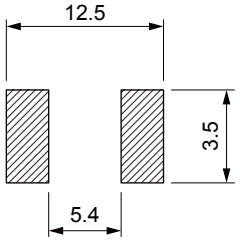

## Dimensions: [mm] 2.2μH-47μH




## 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 |
|---|---|---|---|---|---|---|---|
| MDA1050-R36M | 0.36 | ±20% | 34.0 | 52.0 | 0.82 | 0.92 | 3.0±0.3 |
| MDA1050-R47M | 0.47 | ±20% | 33.0 | 46.0 | 1.15 | 1.32 | 3.0±0.3 |
| MDA1050-R68M | 0.68 | ±20% | 28.0 | 35.0 | 1.60 | 1.90 | 2.5±0.3 |

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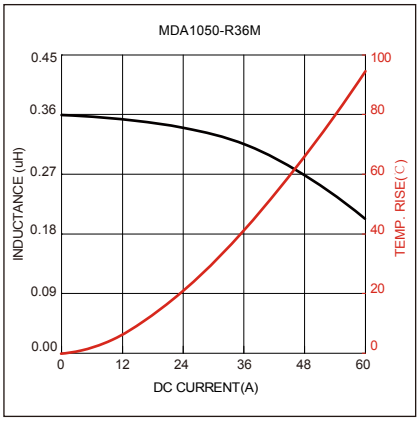
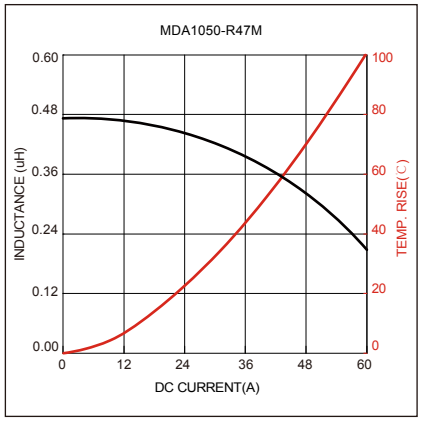
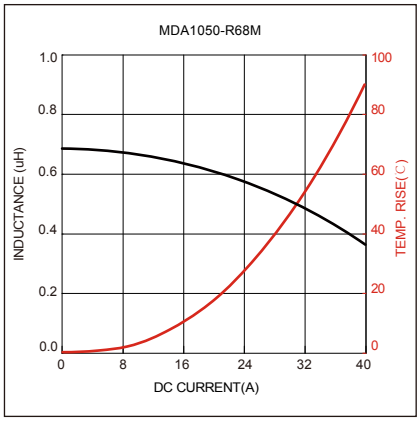
| Part No | Inductance @ 100KHz/1V (μH) | Tolerance | Temperature Rise Current Typ. (A) | Saturation Current Typ. (A) | DC Resistance Typ. (mΩ) | DC Resistance Max. (mΩ) | E |
|---|---|---|---|---|---|---|---|
| MDA1050-1R0M | 1.00 | ±20% | 25.0 | 33.0 | 2.60 | 3.00 | 2.5±0.3 |
| MDA1050-1R5M | 1.50 | ±20% | 23.0 | 27.0 | 3.40 | 3.80 | 2.5±0.3 |
| MDA1050-2R2M | 2.20 | ±20% | 19.5 | 20.0 | 5.10 | 5.60 | 3.0±0.3 |
| MDA1050-3R3M | 3.30 | ±20% | 17.0 | 17.5 | 8.10 | 9.10 | 3.0±0.3 |
| MDA1050-4R7M | 4.70 | ±20% | 15.0 | 16.0 | 9.30 | 10.5 | 3.0±0.3 |
| MDA1050-5R6M | 5.60 | ±20% | 13.0 | 15.0 | 12.8 | 14.4 | 3.0±0.3 |
| MDA1050-6R8M | 6.80 | ±20% | 12.0 | 14.0 | 15.0 | 17.3 | 3.0±0.3 |
| MDA1050-8R2M | 8.20 | ±20% | 10.0 | 13.5 | 16.1 | 18.8 | 3.0±0.3 |
| MDA1050-100M | 10.0 | ±20% | 7.6 | 13.0 | 18.9 | 21.8 | 3.0±0.3 |
| MDA1050-150M | 15.0 | ±20% | 6.5 | 8.5 | 32.0 | 39.0 | 3.0±0.3 |
| MDA1050-220M | 22.0 | ±20% | 6.0 | 6.0 | 44.0 | 54.0 | 3.0±0.3 |
| MDA1050-330M | 33.0 | ±20% | 5.5 | 5.8 | 74.0 | 86.0 | 3.0±0.3 |
| MDA1050-470M | 47.0 | ±20% | 4.5 | 4.0 | 106 | 127 | 3.0±0.3 |

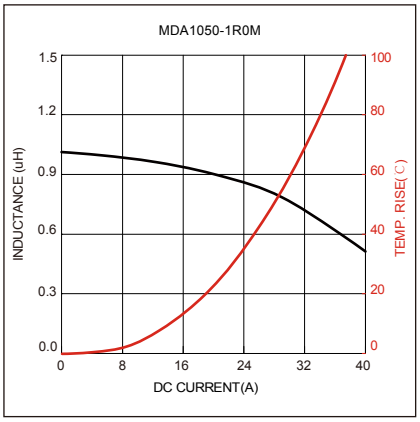
Saturation Current will cause L to drop approximately 30%
Temperature Rise Current: The actual value of DC current when the temperature rise is △T=40°C

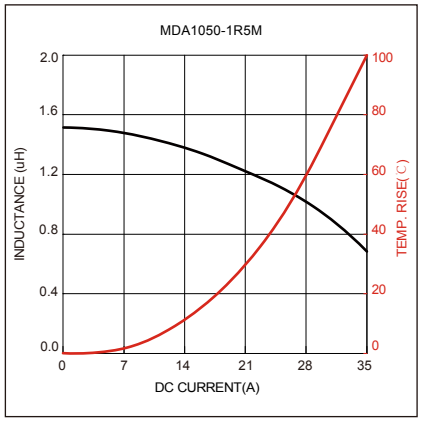
## Typical Electrical Characteristics:

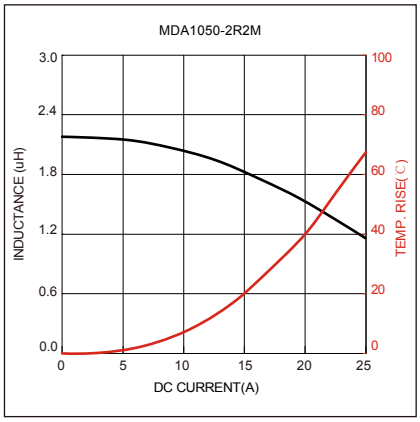
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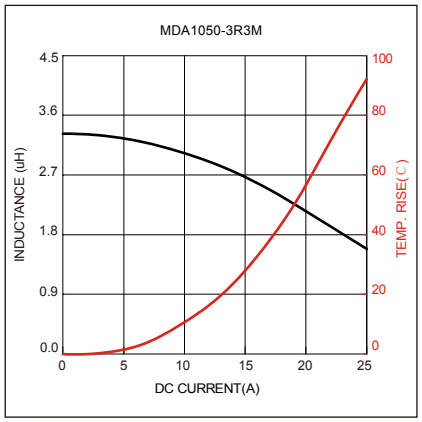


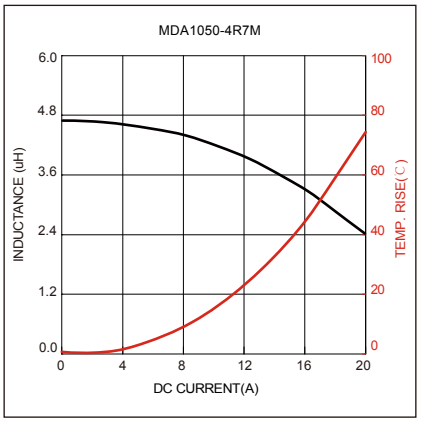


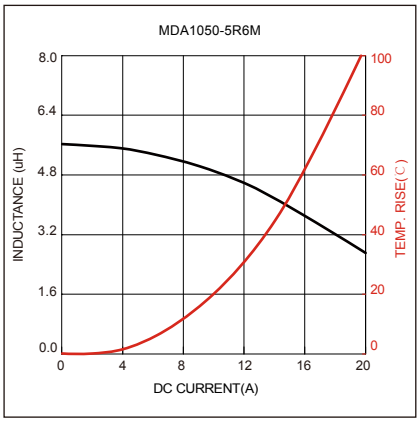


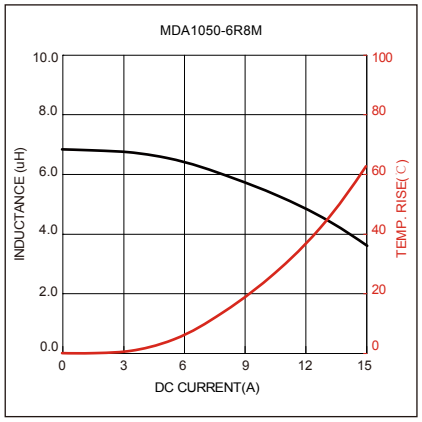


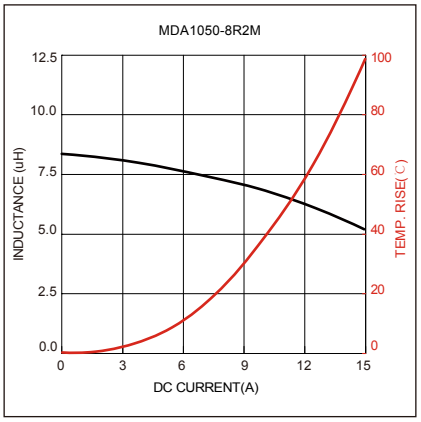


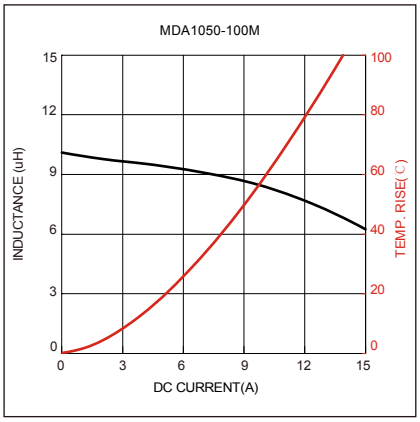


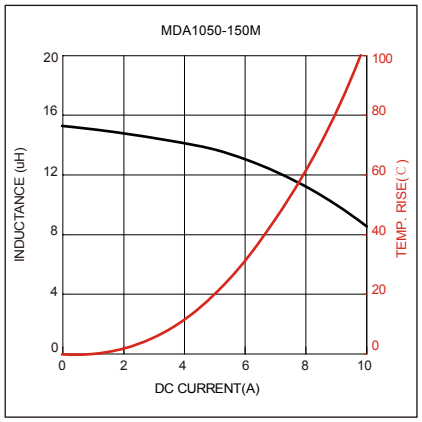


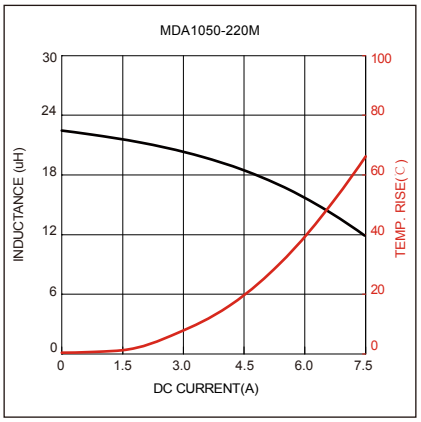


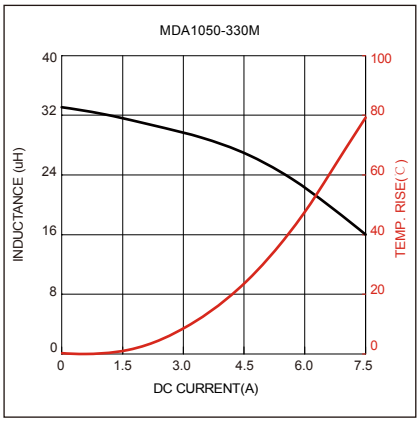


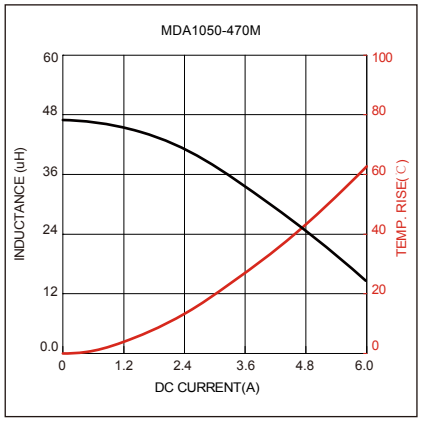


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