



## MDA Series

### SMD Low Profile High Current Molded Inductor

#### Size 5030



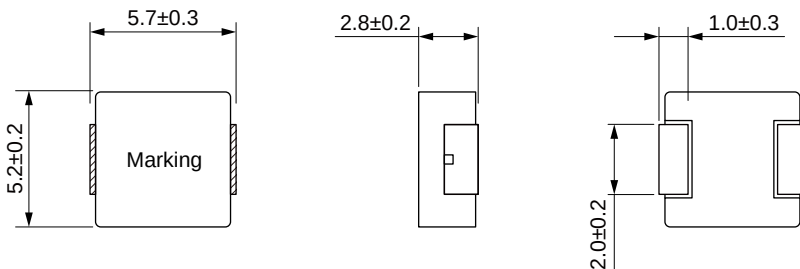
#### FEATURES

- Capable of corresponding high frequency .
- Low loss realized with low DCR.
- High performance (Isat) realized by metal dust core.
- 100% Lead(Pb)-Free and RoHS compliant.

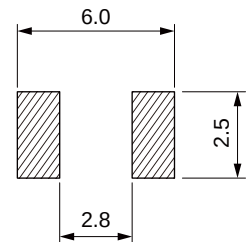
#### APPLICATION

- HVAC
- Audio subsystem
- Digital instrument cluster

Dimensions: [mm]



Land Pattern: [mm]

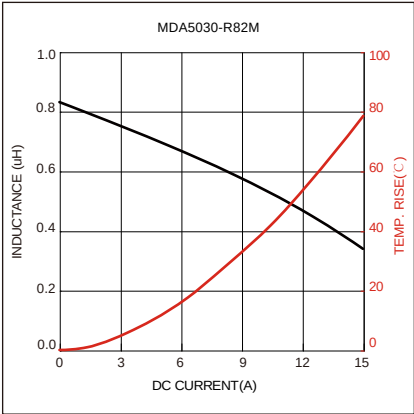
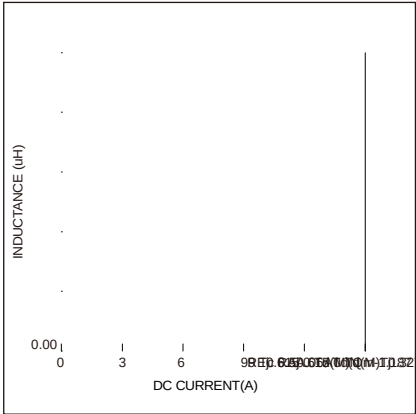
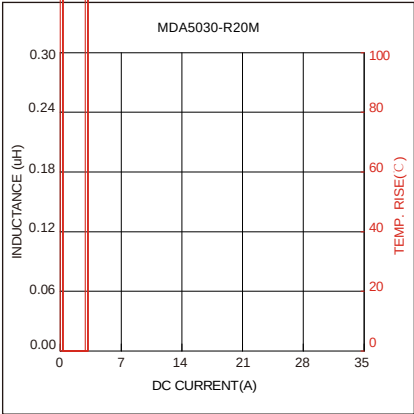


Electrical Properties:

| Part No      | Inductance<br>@ 100KHz/1V | Tolerance | Temperature<br>Rise Current<br>Typ.<br>(A) | Temperature<br>Rise Current<br>Max.<br>(A) | Current<br>Typ.<br>(A) | Current<br>Max.<br>(A) | DC<br>Resistance<br>Typ. | DC<br>Resistance<br>Max. |
|--------------|---------------------------|-----------|--------------------------------------------|--------------------------------------------|------------------------|------------------------|--------------------------|--------------------------|
| MDA5030-R20M | 0.20                      | ±20%      | 14.0                                       | 13.0                                       | 20.0                   | 16.0                   | 3.60                     | 3.90                     |
| 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                     |

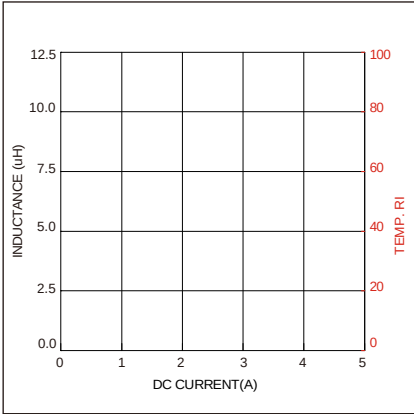
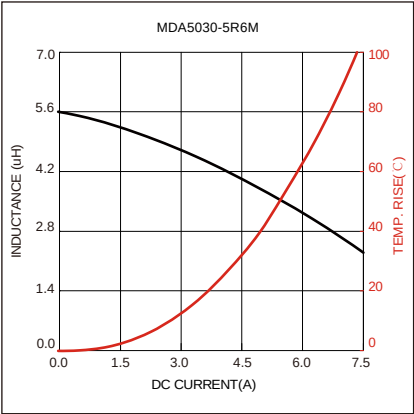


Typical Electrical Characteristics:





Typical Electrical Characteristics:





Reel Dimension: [mm]

|                                   |             |
|-----------------------------------|-------------|
| <div><div></div><div></div></div> | <div></div> |
|-----------------------------------|-------------|

Packaging Quantity: