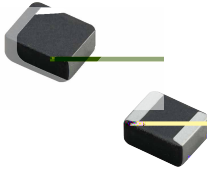




MDE Series

Molding Power Inductors

Size 201610



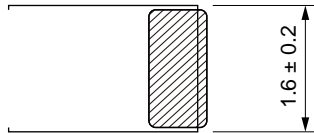
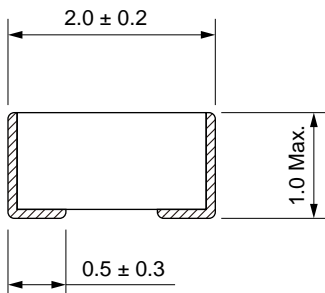
FEATURES

- High saturation current realized by material properties and structure design.
- Low DC resistance to achieve high conversion efficiency and lower temperature rising.
- Low Profile.
- Magnetically shielded structure to accomplish high resolution in EMC protection.
- Halogen free, Lead Free, RoHS Compliance.
- Operating temperature: -40 to +125 °C
- Quantity: 3000PCS

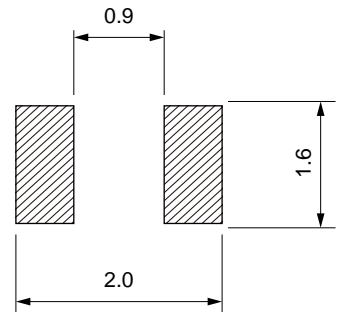
APPLICATION

- Generic in portable DC to DC converter line.
- Smart phone, PAD
- DC/DC converter
- Thin-type power supply module.

Dimensions: [mm]



Land Pattern: [mm]



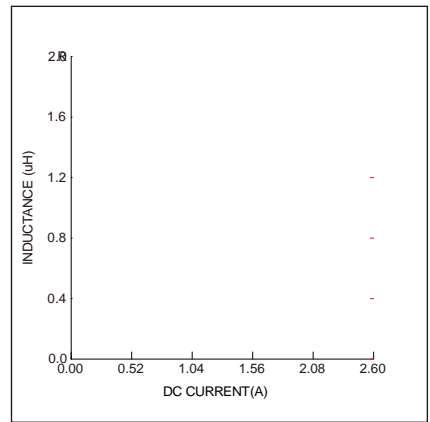
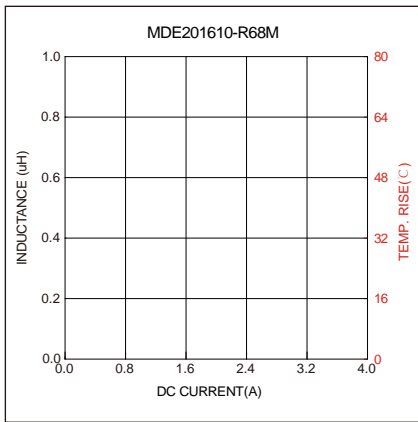
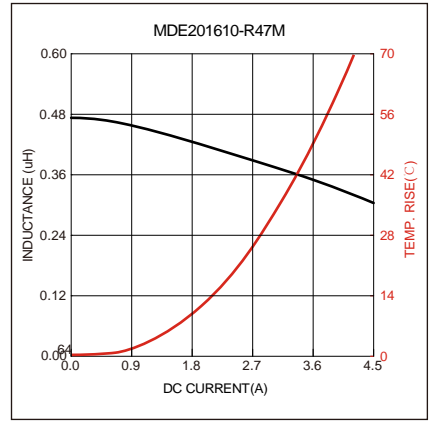
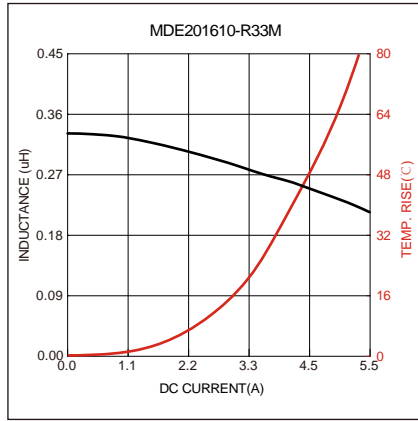
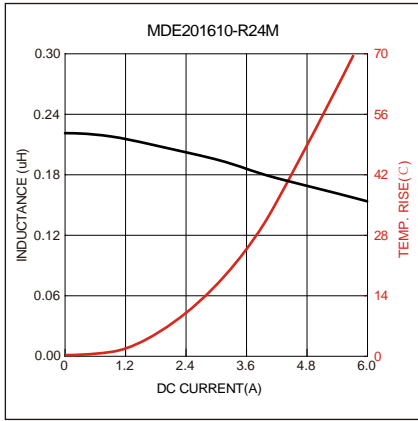
Electrical Properties:

| Part No | Inductance @ 1MHz/1V (μH) | Tolerance | DC Resistance Typ. (mΩ) | DC Resistance Max. (mΩ) | Saturation Current Typ. (A) | Saturation Current Max. (A) | Temperature Rise Current Typ. (A) | Temperature Rise Current Max. (A) |
|----------------|---------------------------|-----------|-------------------------|-------------------------|-----------------------------|-----------------------------|-----------------------------------|-----------------------------------|
| MDE201610-R24M | 0.24 | ±20% | 17 | 21 | 5.6 | 5.05 | 5.0 | 4.50 |
| MDE201610-R33M | 0.33 | ±20% | 24 | 29 | 5.0 | 4.50 | 4.1 | 3.69 |
| MDE201610-R47M | 0.47 | ±20% | 33 | 40 | 4.4 | 4.00 | 3.5 | 3.15 |
| MDE201610-R68M | 0.68 | ±20% | 41 | 49 | 3.7 | 3.33 | 3.4 | 3.06 |
| MDE201610-1R0M | 1.0 | ±20% | 60 | 69 | 2.9 | 2.61 | 2.6 | 2.26 |
| MDE201610-1R5M | 1.5 | ±20% | 114 | 129 | 2.5 | 2.25 | 2.0 | 1.81 |
| MDE201610-2R2M | 2.2 | ±20% | 135 | 150 | 1.9 | 1.71 | 1.7 | 1.50 |

Temperature rising current will cause the coil temperature approximate T40 °C
 Saturation current will cause to drop approximately 30%



Typical Electrical Characteristics:



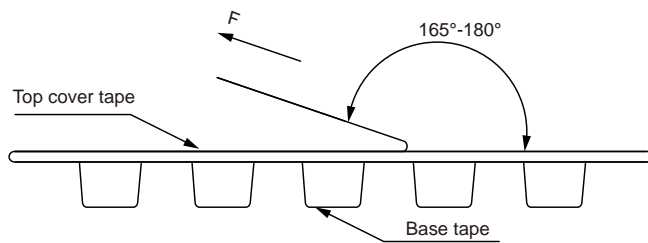
Soldering Reflow:

Preheat condition: 150 ~200:

Packaging Information:

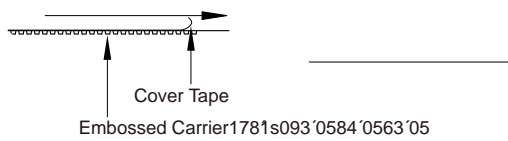
Tape Dimension:

Peel force of top cover tape:



The peel force of top cover tape shall be between 0.1 to 1.3 N

Reel Dimension: [mm]



Packaging Quantity: