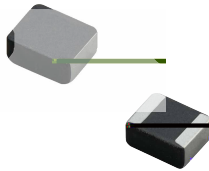




MDE Series

Molding Power Inductors

Size 252012S



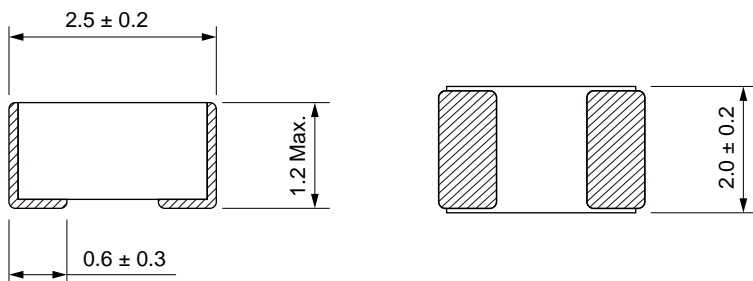
FEATURES

- 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.

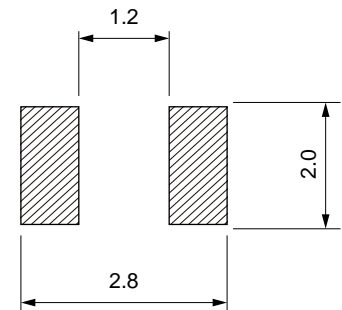
APPLICATION

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

Dimensions: [mm]



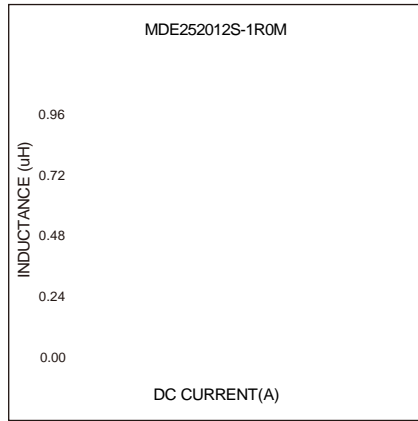
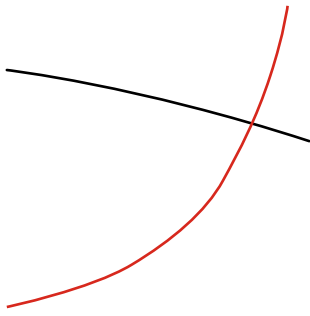
Land Pattern: [mm]



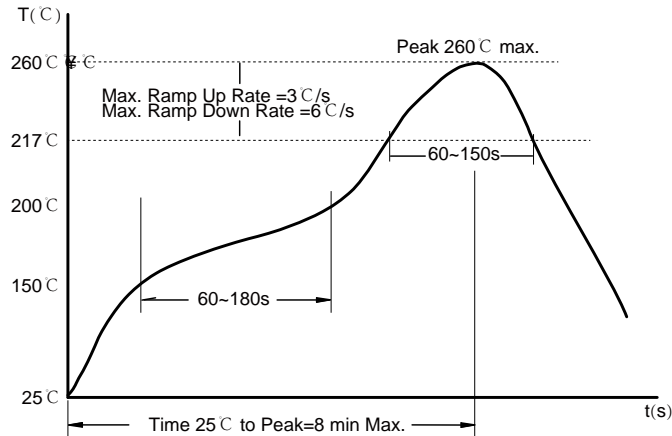
Electrical Properties:

| 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) |
|-----------------|---------------------------|-----------|-------------------------|-------------------------|-----------------------------|-----------------------------|-----------------------------------|-----------------------------------|
| MDE252012S-R47M | 0.47 | ±20% | 16 | 22 | 6.8 | 6.2 | 5.8 | 4.9 |
| MDE252012S-1R0M | 1.0 | ±20% | 36 | 44 | 4.8 | 4.3 | 3.9 | 3.3 |
| MDE252012S-2R2M | 2.2 | ±20% | 74 | 89 | 3.5 | 3.2 | 2.5 | 2.2 |

Temperature rising current will cause the coil temperature approximate $T+40^{\circ}\text{C}$
 Saturation current will cause to drop approximately 30%



Soldering Reflow:



Preheat condition: 150 ~200°C / 60~180 sec.

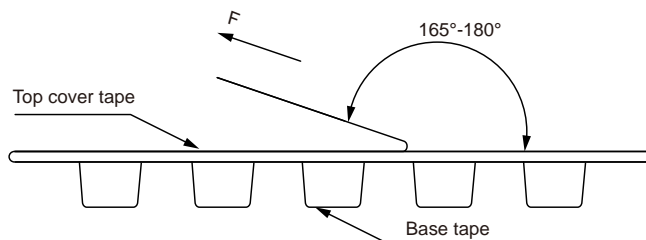
Allowed time above 217°C : 60~150 sec.

Max temperature: 260°C.

Packaging Information:

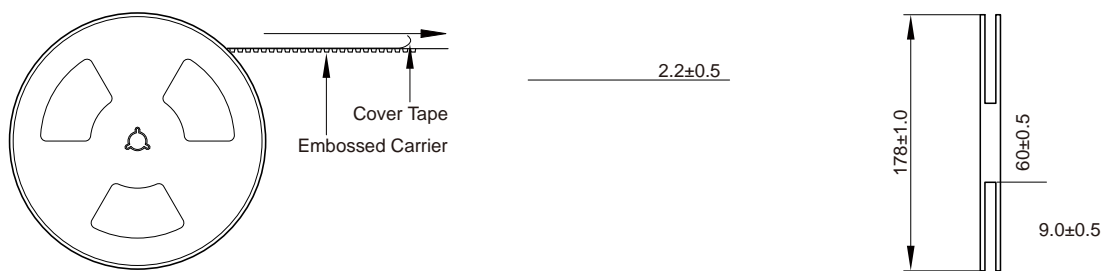
Tape Dimension:

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: