

## MDE Series

### Molding Power Inductors

### Size 201610



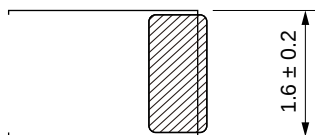
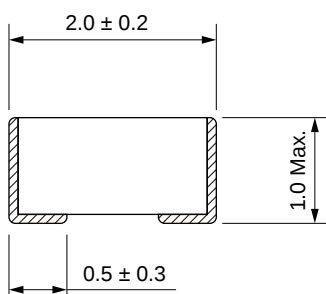
#### FEATURES

- 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

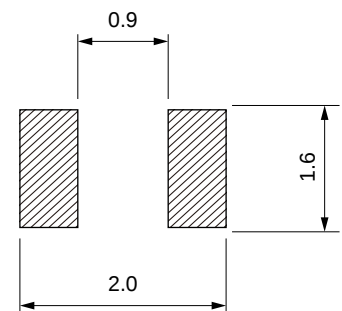
#### APPLICATION

- Generic in portable DC to DC converter line.
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- DC/DC converter
- Thin-type power supply module.

#### Dimensions: [mm]



#### Land Pattern: [mm]

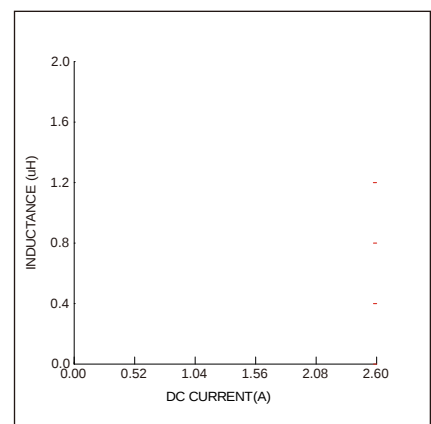
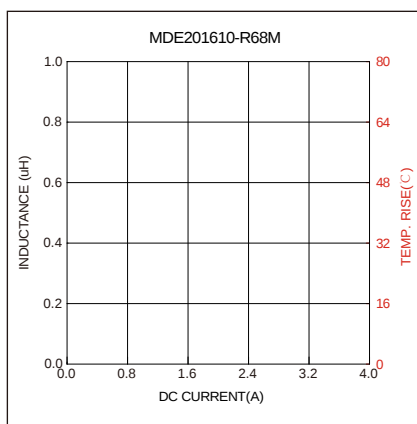
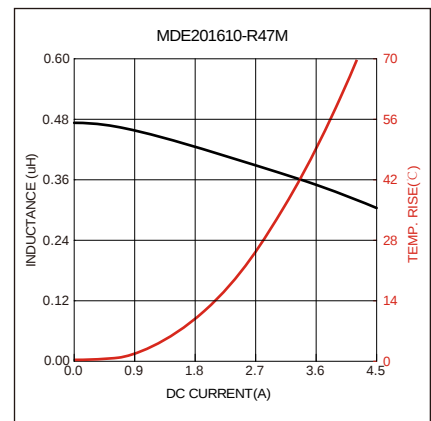
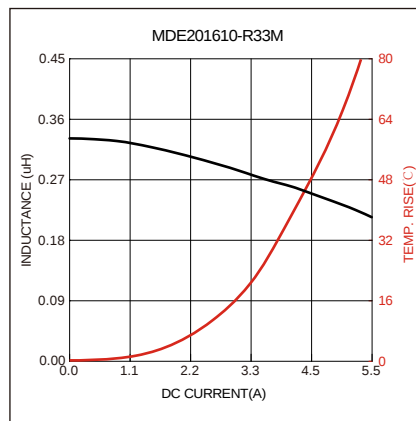
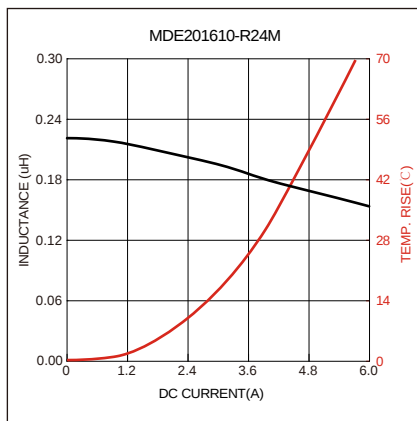


#### Electrical Properties:

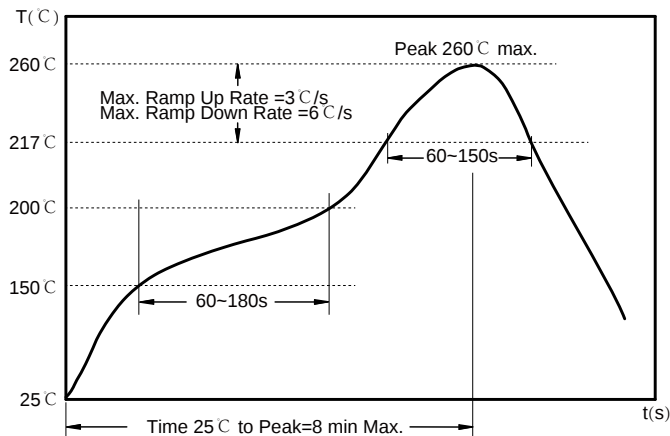
|  | ( $\mu$ H) |  | (m $\Omega$ ) | (m $\Omega$ ) | Saturation<br>(A) | Saturation<br>(A) | (A) | (A) |
|--|------------|--|---------------|---------------|-------------------|-------------------|-----|-----|
|  |            |  |               |               |                   |                   |     |     |
|  |            |  |               |               |                   |                   |     |     |
|  |            |  |               |               |                   |                   |     |     |
|  |            |  |               |               |                   |                   |     |     |
|  |            |  |               |               |                   |                   |     |     |
|  |            |  |               |               |                   |                   |     |     |
|  |            |  |               |               |                   |                   |     |     |

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

## Typical Electrical Characteristics:



## Soldering Reflow:



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

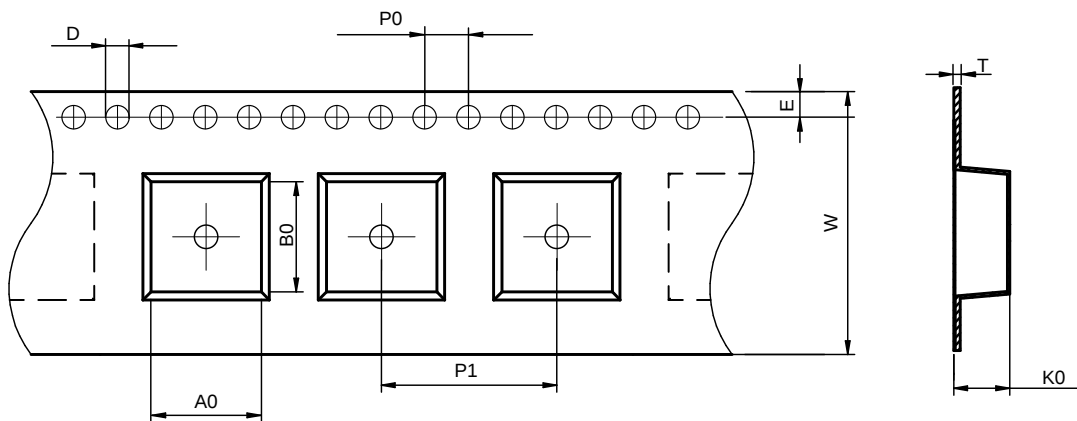
Allowed time above 217 °C : 60~150 sec.

Max temperature: 260 °C .

Time within 5 °C of actual Peak Temperature: 20-40 sec.

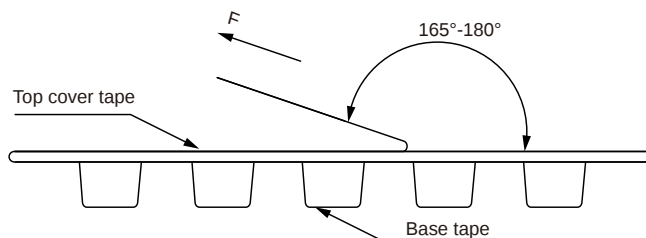
## Packaging Information:

### Tape Dimension:



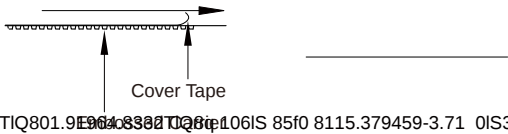
| Series    | A0 (mm)   | B0 (mm)   | D (mm)    | P0 (mm) | P1 (mm) | W (mm)  | K0 (mm)   | E (mm)   | T (mm)    |
|-----------|-----------|-----------|-----------|---------|---------|---------|-----------|----------|-----------|
| MDE201610 | 1.82±0.05 | 2.23±0.05 | 1.55±0.05 | 4.0±0.1 | 4.0±0.1 | 8.0±0.3 | 1.15±0.05 | 1.75±0.1 | 0.22±0.05 |

### 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: