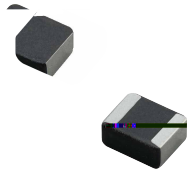
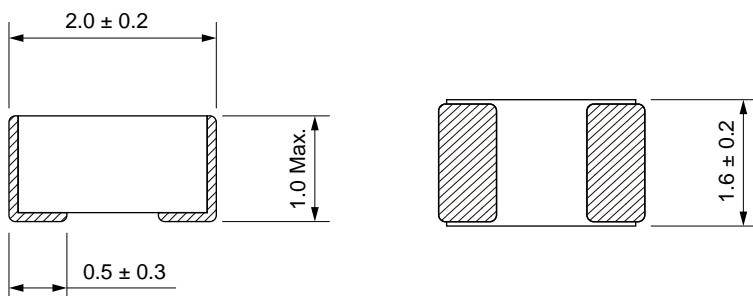


## Molding Power Inductors Size 201610

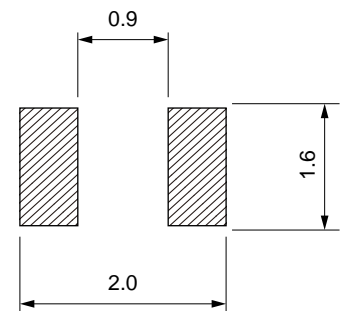


- High saturation current realized by material properties and structure design.
  - Low DC resistance to achieve high conversion efficiency and lower temperature rising.
  - Low Profile.
  - Magnetically shielded structure to accomplish high resolution in EMC protection.
  - Halogen free, Lead Free, RoHS Compliance.
- 
- 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 Number    | DC Resistance (mΩ) | Inductance (μH) | DC Resistance (mΩ) | Inductance (μH) | DC Resistance (mΩ) | Inductance (μH) | DC Resistance (mΩ) | Inductance (μH) |
|----------------|--------------------|-----------------|--------------------|-----------------|--------------------|-----------------|--------------------|-----------------|
| 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            |

Operating temperature range - 40 °C to + 125 °C

Temperature rising current will cause the coil temperature approximate T40 °C

Saturation current will cause to drop approximately 30 %

# Typical Electrical Characteristics:

## Inductance&Temp Rise VS DC Current Characteristics:

