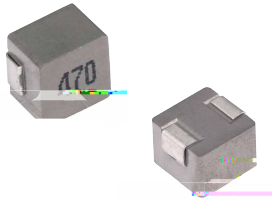


MDE Series

Molding Power Inductors

Size 0650



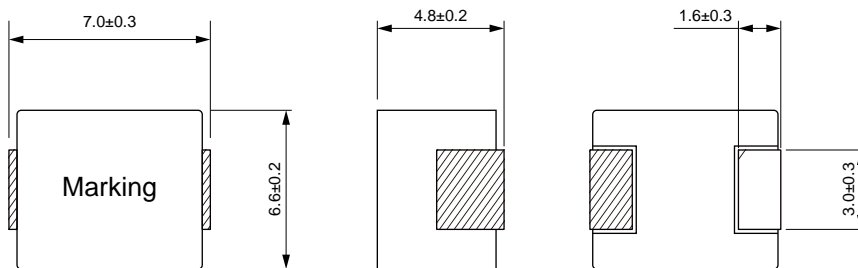
FEATURES

- High rated current
- Frequency up to 3 MHz
- 125 °C maximum total temperature operation
- Low core loss
- Ultra low buzz noise due to molding construction
- Halogen Free & ROHS compliant
- Operating temperature range - 55 °C to + 125 °C
- Quantity: 1000pcs

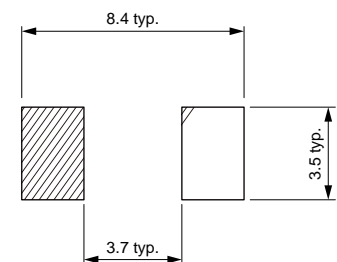
APPLICATION

- Laptops and PCs
- Switch and servers
- Base stations
- DC/DC converters
- Battery powered devices
- SSD modules

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

| Part No | Inductance @ 100kHz/1V (µH) | Tolerance | DC Resistance Max. (mΩ) | Saturation Current Typ. (A) | Temperature Rise Current Typ. (A) |
|--------------|-----------------------------|-----------|-------------------------|-----------------------------|-----------------------------------|
| MDE0650-R47M | 0.47 | ±20% | 3.90 | 21.0 | 20.0 |
| MDE0650-R68M | 0.68 | ±20% | 4.50 | 18.0 | 16.5 |
| MDE0650-1R0M | 1.00 | ±20% | 6.60 | 16.0 | 12.0 |
| MDE0650-1R5M | 1.50 | ±20% | 10.0 | 13.0 | 9.50 |
| MDE0650-2R2M | 2.20 | ±20% | 12.5 | 11.0 | 9.00 |
| MDE0650-3R3M | 3.30 | ±20% | 22.0 | 10.0 | 8.50 |
| MDE0650-4R7M | 4.70 | ±20% | 29.0 | 8.00 | 6.00 |
| MDE0650-6R8M | 6.80 | ±20% | 41.0 | 6.30 | 5.80 |
| MDE0650-8R2M | 8.20 | ±20% | 48.0 | 5.50 | 5.50 |
| MDE0650-100M | 10.0 | ±20% | 60.0 | 5.30 | 4.50 |
| MDE0650-150M | 15.0 | ±20% | 90.0 | 4.00 | 3.10 |
| MDE0650-220M | 22.0 | ±20% | 140 | 3.50 | 2.60 |
| MDE0650-330M | 33.0 | ±20% | 190 | 3.00 | 2.30 |
| MDE0650-470M | 47.0 | ±20% | 230 | 2.60 | 2.00 |
| MDE0650-680M | 68.0 | ±20% | 438 | 1.70 | 1.20 |

Saturation Current will cause L to drop approximately 30%

Temperature Rise Current: The actual value of DC current when the temperature rise is $\Delta T=40^{\circ}\text{C}$

