

MDE Series
Molding Power Inductors
Size 0650



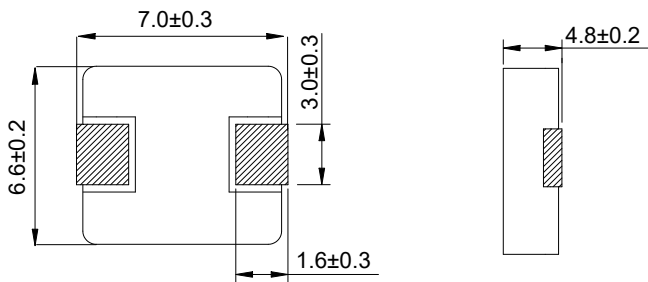
FEATUERS

- 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
- Quantity: 1000pcs

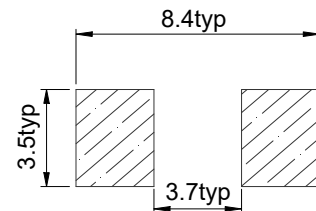
APPLICATION

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

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

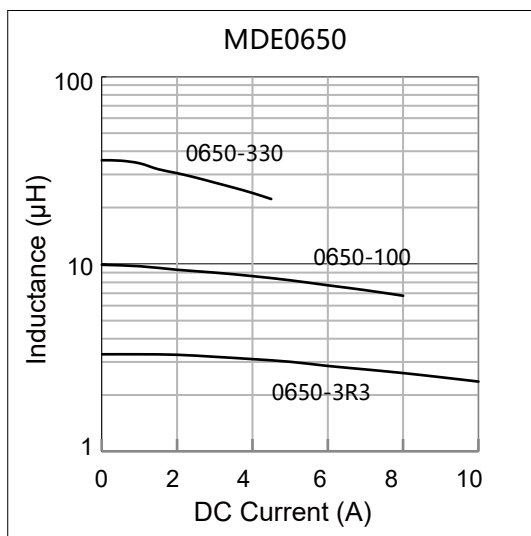
| Part No. | L@100KHz /1V (µH) | Tolerance | R _{DC} Max. (mΩ) | I _{sat} Typ. (A) | I _R Typ. (A) |
|--------------|-------------------|-----------|---------------------------|---------------------------|-------------------------|
| MDE0650-R47M | 0.47 | ±20% | 3.9 | 21.0 | 20 |
| MDE0650-R68M | 0.68 | ±20% | 4.5 | 18.0 | 16.5 |
| MDE0650-1R0M | 1.0 | ±20% | 6.6 | 16.0 | 12 |
| MDE0650-1R5M | 1.5 | ±20% | 10 | 13.0 | 9.5 |
| MDE0650-2R2M | 2.2 | ±20% | 12.5 | 11.0 | 9 |
| MDE0650-3R3M | 3.3 | ±20% | 22.0 | 10.0 | 8.5 |
| MDE0650-4R7M | 4.7 | ±20% | 29 | 8 | 6 |
| MDE0650-6R8M | 6.8 | ±20% | 41 | 6.3 | 5.8 |
| MDE0650-8R2M | 8.2 | ±20% | 48 | 5.5 | 5.5 |
| MDE0650-100M | 10 | ±20% | 60 | 5.3 | 4.5 |
| MDE0650-150M | 15 | ±20% | 90 | 4.0 | 3.1 |

| Part No. | L@100KHz /1V (μH) | Tolerance | R _{DC} Max. (mΩ) | I _{sat} Typ. (A) | I _R Typ. (A) |
|--------------|-------------------|-----------|---------------------------|---------------------------|-------------------------|
| MDE0650-220M | 22 | ±20% | 140 | 3.5 | 2.6 |
| MDE0650-330M | 33 | ±20% | 190 | 3.0 | 2.3 |
| MDE0650-470M | 47 | ±20% | 230 | 2.6 | 2.0 |

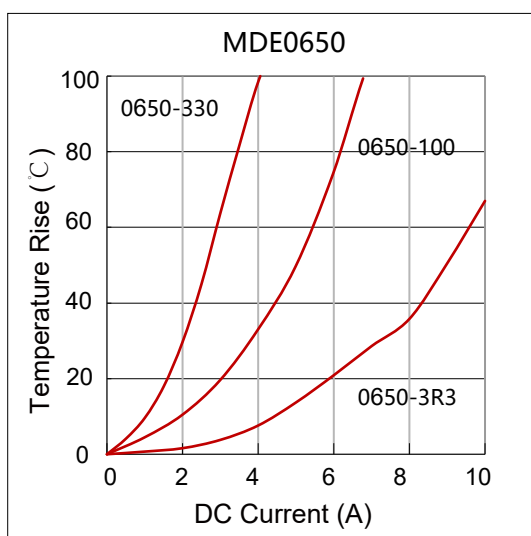
Operating temperature range - 55 °C to + 125 °C
 I_R will cause the coil temperature approximate ΔT40 °C
 I_{sat} will cause to drop approximately 30 %

Typical Electrical Characteristics:

Inductance vs DC Current Characteristics:



Temperature Rise vs DC Current Characteristics:



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