

MDE Series
Molding Power Inductors
Size 0630



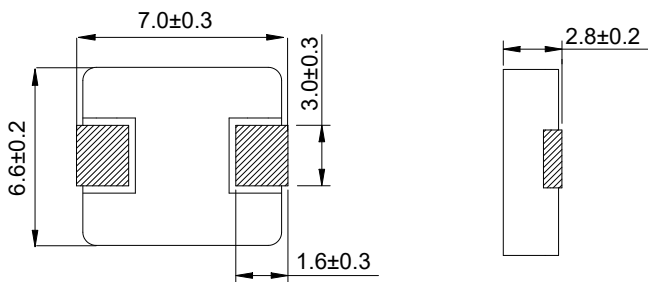
FEATUERS

- 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: 1500pcs

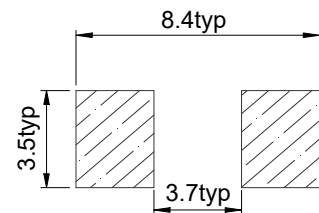
APPLICATION

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

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

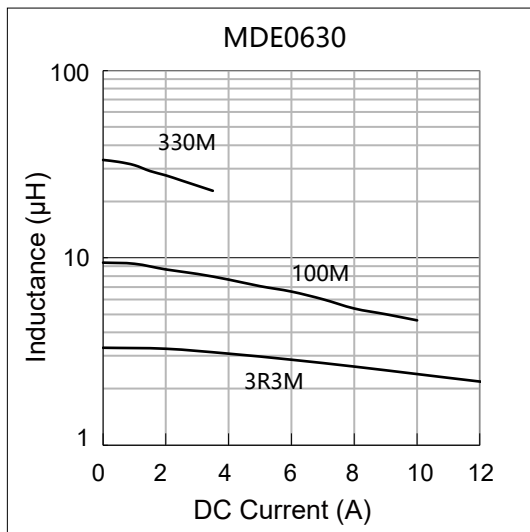
| Part No. | L@100KHz /1V (µH) | Tolerance | R _{DC} Max. (mΩ) | I _{sat} Typ. (A) | I _R Typ. (A) |
|--------------|-------------------|-----------|---------------------------|---------------------------|-------------------------|
| MDE0630-R22M | 0.22 | ±20% | 3 | 34 | 24 |
| MDE0630-R33M | 0.33 | ±20% | 3.5 | 25 | 21 |
| MDE0630-R47M | 0.47 | ±20% | 4.1 | 20 | 18 |
| MDE0630-R56M | 0.56 | ±20% | 4.5 | 18 | 16.5 |
| MDE0630-R68M | 0.68 | ±20% | 5.3 | 17 | 16 |
| MDE0630-R82M | 0.82 | ±20% | 6.0 | 16 | 14 |
| MDE0630-1R0M | 1.0 | ±20% | 7.4 | 15 | 12 |
| MDE0630-1R5M | 1.5 | ±20% | 12.1 | 12 | 12 |
| MDE0630-2R2M | 2.2 | ±20% | 15 | 10 | 9.5 |

| Part No. | L@100KHz /1V (μH) | Tolerance | R _{DC} Max. (mΩ) | I _{sat} Typ. (A) | I _R Typ. (A) |
|--------------|-------------------|-----------|---------------------------|---------------------------|-------------------------|
| MDE0630-3R3M | 3.3 | ±20% | 22 | 9.5 | 8.5 |
| MDE0630-4R7M | 4.7 | ±20% | 33 | 9 | 6 |
| MDE0630-5R6M | 5.6 | ±20% | 42 | 6.5 | 5.5 |
| MDE0630-6R8M | 6.8 | ±20% | 48 | 6 | 5 |
| MDE0630-8R2M | 8.2 | ±20% | 60 | 5.5 | 5 |
| MDE0630-100M | 10 | ±20% | 68 | 5.5 | 4.5 |
| MDE0630-150M | 15 | ±20% | 113 | 4.0 | 3 |
| MDE0630-220M | 22 | ±20% | 170 | 3 | 2.5 |
| MDE0630-330M | 33 | ±20% | 270 | 2.5 | 2 |
| MDE0630-470M | 47 | ±20% | 385 | 2 | 1.5 |

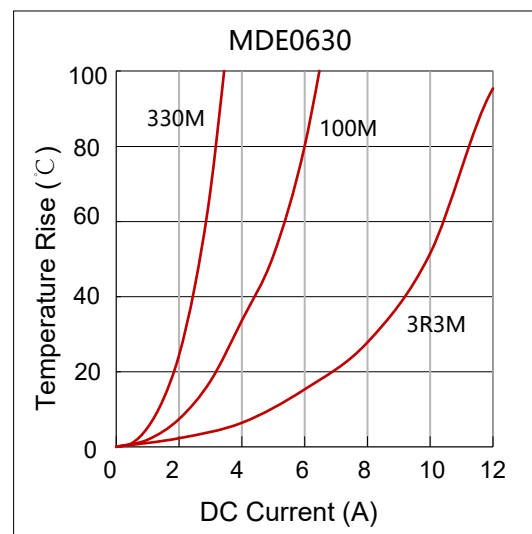
Operating temperature range - 55 °C to + 125 °C
 I_R will cause the coil temperature approximate ΔT40 °C
 I_{sat} will cause to drop approximately 30 %

Typical Electrical Characteristics:

Inductance vs DC Current Characteristics:



Temperature Rise vs DC Current Characteristics:



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[PE-53601NL](#) [PE-53602NL](#) [PG0936.113NLT](#) [9220-20](#) [9310-16](#) [PM06-2N7](#) [PM06-39NJ](#) [A01TK](#) [1206CS-471XJ](#) [HC2-R47-R](#) [HC8-1R2-R](#)
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