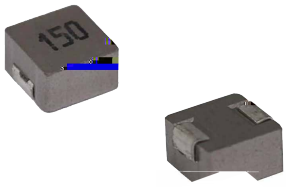
# MDE Series
Molding Power Inductors
Size 0640



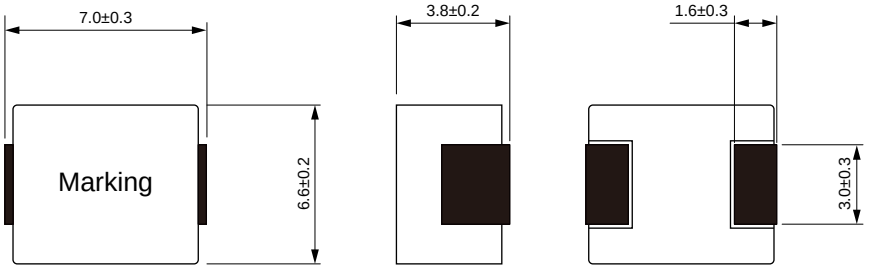

## FEATURES

- High rated current
- Frequency up to 3 MHz
- 125℃ maximum total temperature opera on
- Low core loss
- Ultra low buzz noise due to molding construc on
- Halogen Free & ROHS compliant
- Opera ng temperature range - 55 ℃ to + 125 ℃
- Quan ty: 1000pcs

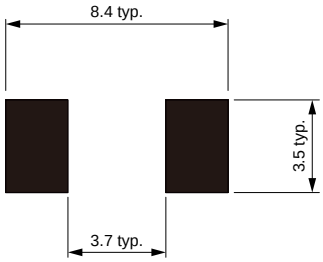
## APPLICATION

- Laptops and PCs
- Switch and servers
- Base sta ons
- DC/DC converters
- Ba ery powered devices
- SSD modules

## Dimensions: [mm]




## Land Pattern: [mm]




## Electrical Properties:

| Part No | Inductance @ 100kHz/1V | Tolerance | DC Resistance Max. | Current Typ. (A) | Temperature Rise Current Typ. (A) |
|---|---|---|---|---|---|
| MDE0640-R68M | 0.68 | ±20% | 4.80 | 19.0 | 17.0 |
| MDE0640-1R0M | 1.00 | ±20% | 6.60 | 16.0 | 13.5 |
| MDE0640-1R5M | 1.50 | ±20% | 10.0 | 12.5 | 12.4 |
| MDE0640-2R2M | 2.20 | ±20% | 14.0 | 11.0 | 10.0 |
| MDE0640-3R3M | 3.30 | ±20% | 20.0 | 9.50 | 8.50 |
| MDE0640-4R7M | 4.70 | ±20% | 30.0 | 9.00 | 6.50 |
| MDE0640-6R8M | 6.80 | ±20% | 45.0 | 6.50 | 5.50 |
| MDE0640-8R2M | 8.20 | ±20% | 55.0 | 6.00 | 5.20 |
| MDE0640-100M | 10.0 | ±20% | 65.0 | 6.00 | 4.80 |
| MDE0640-150M | 15.0 | ±20% | 95.0 | 4.50 | 3.70 |
| MDE0640-220M | 22.0 | ±20% | 125 | 4.00 | 3.30 |
| MDE0640-330M | 33.0 | ±20% | 240 | 3.00 | 2.20 |
| MDE0640-470M | 47.0 | ±20% | 320 | 2.50 | 1.80 |

Saturation Current will cause L to drop approximately 30%
Temperature Rise Current: The actual value of DC current when the temperature rise is △T=40°C