

MDE Series
Molding Power Inductors
Size 0320



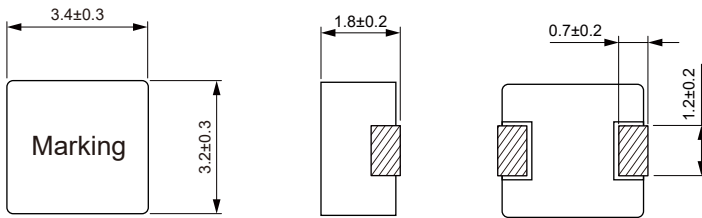
FEATURES

- 100% Lead(Pb)-Free and RoHS compliant
- High current, low DCR, high efficiency
- 3.7×3.5×2.0mm maximum surface mount package
- Operating temperature -40 °C ~+125 °C (Including self - temperature rise)
- Quantity: 3000pcs

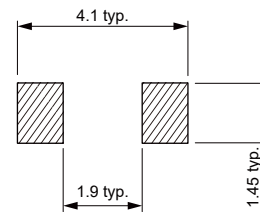
APPLICATION

- Note PC power system
- DC/DC converter

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) |
|--------------|-----------------------------|-----------|-------------------------|-----------------------------|-----------------------------------|
| MDE0320-R33M | 0.33 | ±20% | 21 | 10.0 | 8.0 |
| MDE0320-R47M | 0.47 | ±20% | 23 | 9.0 | 7.0 |
| MDE0320-R68M | 0.68 | ±20% | 29 | 7.0 | 5.5 |
| MDE0320-1R0M | 1.00 | ±20% | 38 | 5.0 | 4.0 |
| MDE0320-1R5M | 1.50 | ±20% | 50 | 4.0 | 3.8 |
| MDE0320-2R2M | 2.20 | ±20% | 75 | 3.7 | 3.5 |
| MDE0320-3R3M | 3.30 | ±20% | 145 | 3.5 | 3.0 |
| MDE0320-4R7M | 4.70 | ±20% | 200 | 3.0 | 2.6 |
| MDE0320-100M | 10.0 | ±20% | 422 | 1.6 | 1.4 |

Saturation Current will cause L to drop approximately 30%

Temperature Rise Current: The actual value of DC current when the temperature rise is ΔT=40°C

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