

**MDE Series**  
**Molding Power Inductors**  
**Size 0650**



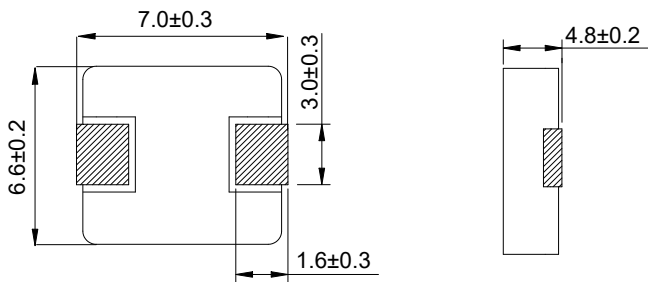
**FEATUERS**

- 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

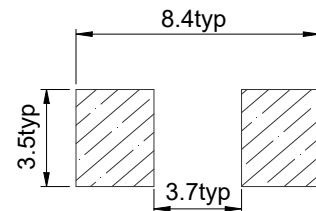
**APPLICATION**

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

**Dimensions: [mm]**



**Land Pattern: [mm]**



**Electrical Properties:**

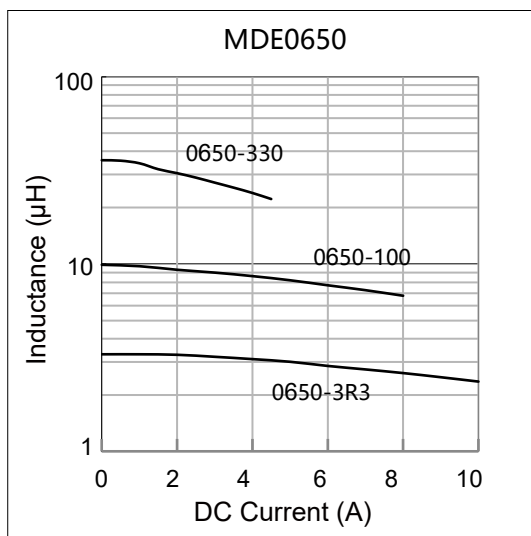
Part No.	L@100KHz /1V (μH)	Tolerance	R <sub>DC</sub> Max. (mΩ)	I <sub>sat</sub> Typ. (A)	I <sub>R</sub> Typ. (A)
MDE0650-R47M	0.47	±20%	3.9	21.0	20
MDE0650-R68M	0.68	±20%	4.5	18.0	16.5
MDE0650-1R0M	1.0	±20%	6.6	16.0	12
MDE0650-1R5M	1.5	±20%	10	13.0	9.5
MDE0650-2R2M	2.2	±20%	12.5	11.0	9
MDE0650-3R3M	3.3	±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 <sub>DC</sub> Max. (mΩ)	I <sub>sat</sub> Typ. (A)	I <sub>R</sub> 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

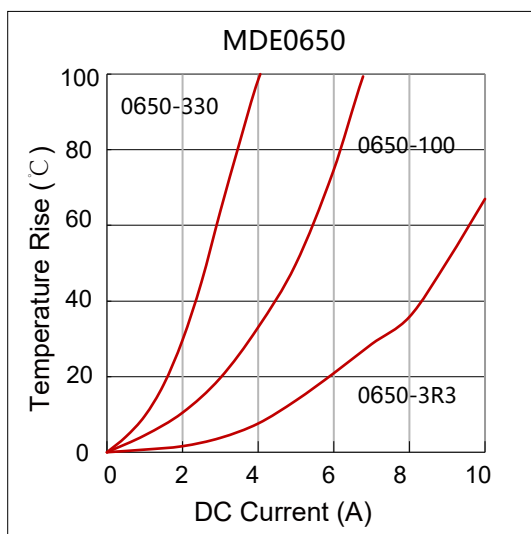
Operating temperature range - 55 °C to + 125 °C  
 I<sub>R</sub> will cause the coil temperature approximate ΔT40 °C  
 I<sub>sat</sub> will cause to drop approximately 30 %

### Typical Electrical Characteristics:

#### Inductance vs DC Current Characteristics:



#### Temperature Rise vs DC Current Characteristics:



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