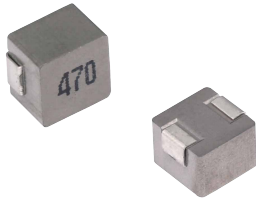


**MDE Series**  
Molding Power Inductors  
Size 1050



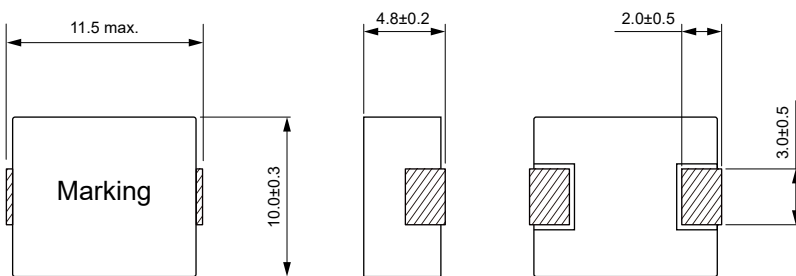
**FEATURES**

- ROHS, Halogen Free and REACH compliance
- High rated current
- 125 °C maximum total temperature operation
- Low core loss
- Ultra low buzz noise due to molding construction
- 11.5×10.3×5.0mm maximum surface mount package
- Operating temperature range - 55 °C to + 125 °C
- Quantity: 500pcs

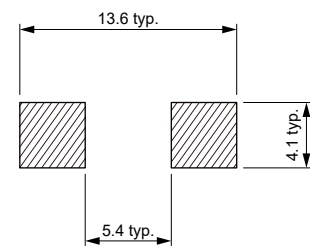
**APPLICATION**

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

**Dimensions: [mm]**



**Land Pattern: [mm]**



**Electrical Properties:**

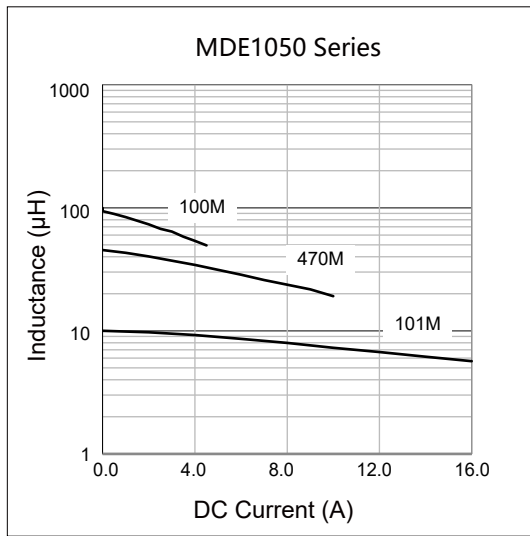
Part No	Inductance @ 100kHz/1V (μH)	Tolerance	DC Resistance Max. (mΩ)	Saturation Current Typ. (A)	Temperature Rise Current Typ. (A)
MDE1050-R22M	0.22	±20%	0.80	65.0	37.0
MDE1050-1R0M	1.00	±20%	3.00	30.0	23.0
MDE1050-1R5M	1.50	±20%	3.80	25.0	21.0
MDE1050-2R2M	2.20	±20%	6.00	19.0	15.0
MDE1050-3R3M	3.30	±20%	10.0	16.0	13.0
MDE1050-4R7M	4.70	±20%	14.0	15.0	11.0
MDE1050-5R6M	5.60	±20%	17.0	14.0	9.50
MDE1050-6R8M	6.80	±20%	18.5	14.0	9.00
MDE1050-100M	10.0	±20%	28.0	10.0	8.00
MDE1050-150M	15.0	±20%	42.0	7.50	6.50
MDE1050-220M	22.0	±20%	50.0	6.00	5.50
MDE1050-330M	33.0	±20%	86.0	5.20	4.80
MDE1050-470M	47.0	±20%	127	4.50	3.70
MDE1050-101M	100	±20%	290	2.80	2.10

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

## Typical Electrical Characteristics:

### Inductance vs DC Current Characteristics:



### Temperature Rise vs DC Current Characteristics:

