

**MDE Series**  
**Molding Power Inductors**  
**Size 1250**



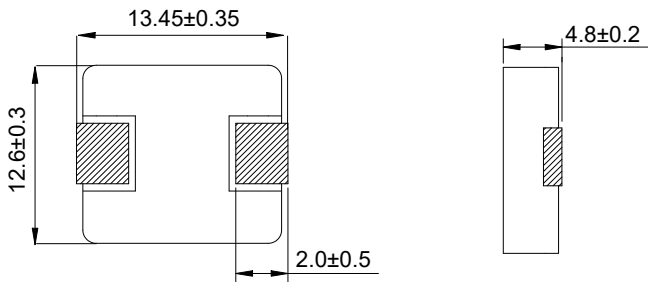
**FEATUERS**

- 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: 500pcs

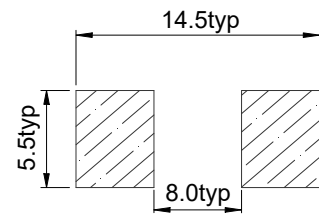
**APPLICATION**

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

**Dimensions: [mm]**



**Land Pattern: [mm]**



**Electrical Properties:**

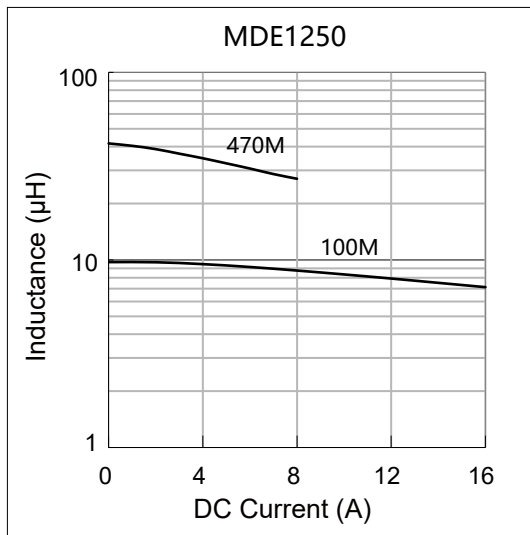
Part No.	L@100KHz /1V (µH)	Tolerance	R <sub>DC</sub> Max. (mΩ)	I <sub>sat</sub> Typ. (A)	I <sub>R</sub> Typ. (A)
MDE1250-R22M	0.22	±20%	0.7	75	50
MDE1250-R36M	0.36	±20%	0.85	50	42
MDE1250-R50M	0.50	±20%	1.15	48	38
MDE1250-R68M	0.68	±20%	1.55	46	33
MDE1250-R82M	0.82	±20%	1.67	39	30
MDE1250-1R0M	1.0	±20%	2.2	35	26
MDE1250-1R5M	1.5	±20%	3.2	33	23
MDE1250-2R2M	2.2	±20%	5.0	24	15
MDE1250-3R3M	3.3	±20%	7	22	14
MDE1250-4R7M	4.7	±20%	9	20	13
MDE1250-6R8M	6.8	±20%	18	16	12

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)
MDE1250-100M	10	±20%	22	12	9
MDE1250-150M	15	±20%	30	10	8
MDE1250-220M	22	±20%	58	6.5	4.5
MDE1250-330M	33	±20%	84	6.0	3.5
MDE1250-470M	47	±20%	130	5.0	3.0

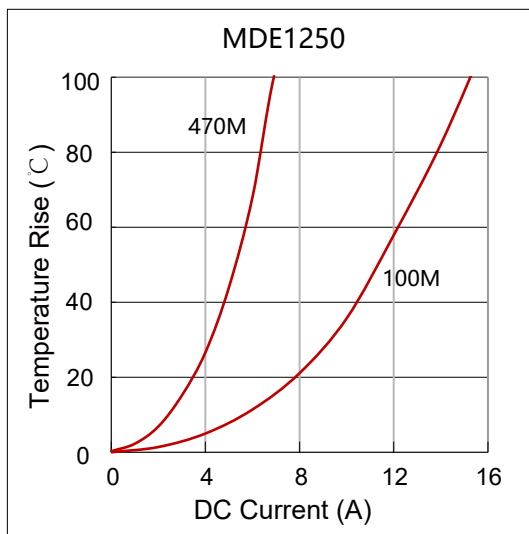
Operating temperature range - 55 °C to + 125 °C  
 I<sub>R</sub> will cause the coil temperature approximate ΔT40 °C  
 I<sub>sat</sub> will cause to drop approximately 30 %

### Typical Electrical Characteristics:

#### Inductance vs DC Current Characteristics:



#### Temperature Rise vs DC Current Characteristics:



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