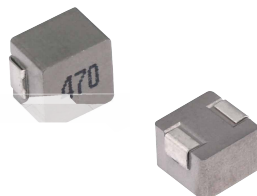


MDE Series

Molding Power Inductors

Size 1240



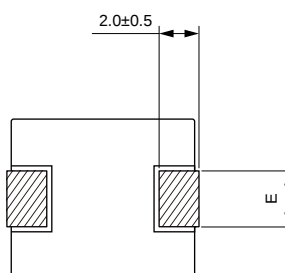
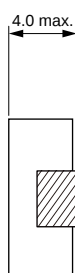
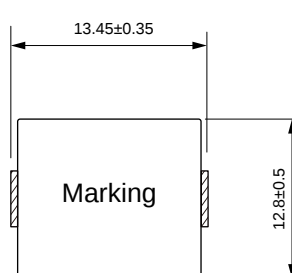
FEATURES

- 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
- Operating temperature range - 55 °C to + 125 °C
- Quantity: 500pcs

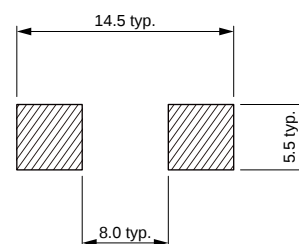
APPLICATION

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

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

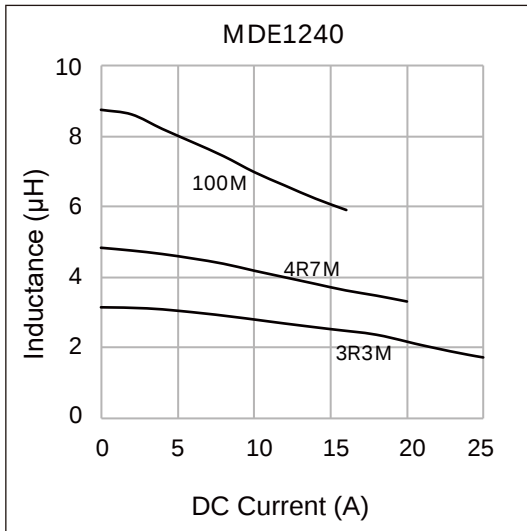
	Tolerance	DC Resistance Max.	Current Typ. (A)	Temperature Rise Current Typ. (A)	Inductance @ 100kHz/1V
	±20%	0.90	50.0	42.0	0.47
	±20%	2.00	48.0	33.0	0.68
	±20%	3.50	47.0	28.0	0.82
	±20%	4.50	40.0	28.0	1.00
	±20%	7.50	35.0	24.0	1.50
	±20%	9.50	30.5	20.0	2.20
	±20%	11.5	26.0	18.0	3.30
	±20%	13.0	21.0	15.0	4.70
	±20%	14.5	18.0	13.0	6.80
	±20%	20.0	14.0	9.00	10.0
	±20%	25.0	10.0	8.00	15.0
	±20%	39.0	7.50	6.50	22.0
	±20%	51.0	6.00	4.50	

Saturation Current will cause L to drop approximately 30%

Temperature Rise Current: The actual value of DC current when the temperature rise is $\Delta T=40^{\circ}\text{C}$

Typical Electrical Characteristics:

Inductance vs DC Current Characteristics:



Temperature Rise vs DC Current Characteristics:

