

# MDE Series

## Molding Power Inductors

### Size 0618



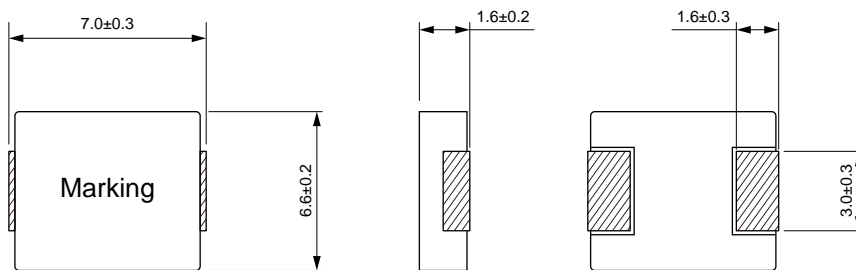
#### FEATURES

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- $^{\circ}\text{C}$  maximum total temperature operation
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- Ultra low buzz noise due to molding construction
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- Operating temperature range - 55  $^{\circ}\text{C}$  to + 125  $^{\circ}\text{C}$
- Quantity: 2000pcs

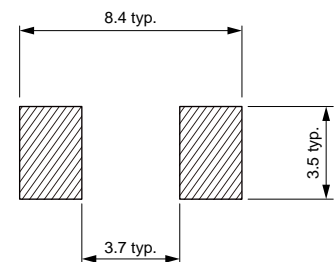
#### APPLICATION

- Laptops and PCs
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- Base stations
- DC/DC converters
- Battery powered devices
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#### Dimensions: [mm]



#### Land Pattern: [mm]



#### Electrical Properties:

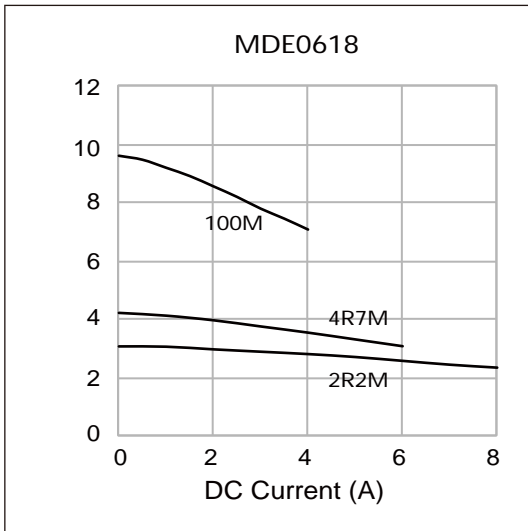
	( $\mu\text{H}$ )		( $\text{m}\Omega$ )	Saturation	
MDE0618-R10M	0.10	$\pm 20\%$	2.30	38.0	25.0
MDE0618-R22M	0.22	$\pm 20\%$	3.50	24.0	22.0
MDE0618-R47M	0.47	$\pm 20\%$	8.40	18.0	
MDE0618-R68M	0.68	$\pm 20\%$	12.0		9.50
MDE0618-1R0M	1.00	$\pm 20\%$	16.0	12.0	8.50
MDE0618-1R5M	1.50	$\pm 20\%$	26.0	9.20	8.00
MDE0618-2R2M	2.20	$\pm 20\%$	35.0	8.00	7.00
MDE0618-3R3M	3.30	$\pm 20\%$	50.0	6.00	4.50
MDE0618-4R7M	4.70	$\pm 20\%$	62.0	5.00	4.00
MDE0618-6R8M	6.80	$\pm 20\%$	110	4.50	3.00
MDE0618-100M	10.0	$\pm 20\%$		4.00	2.30
MDE0618-220M	22.0	$\pm 20\%$	350	2.30	1.80

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:

