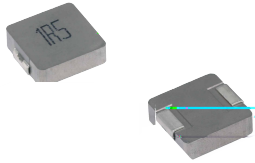


# MDE Series

## Molding Power Inductors

### Size 0412



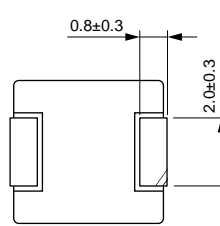
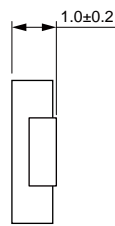
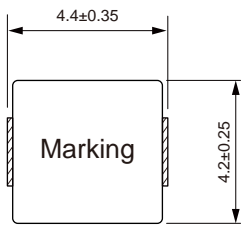
#### FEATURES

- 
- 
- $^{\circ}\text{C}$  maximum total temperature operation
- 
- Ultra low buzz noise due to molding construction
- 
- Operating temperature range - 55  $^{\circ}\text{C}$  to + 125  $^{\circ}\text{C}$
- Quantity: 3000pcs

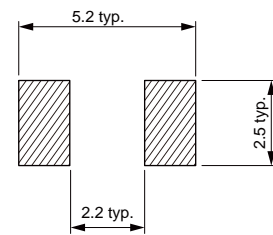
#### APPLICATION

- Laptops and PCs
- 
- Base stations
- DC/DC converters
- Battery powered devices
- 

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

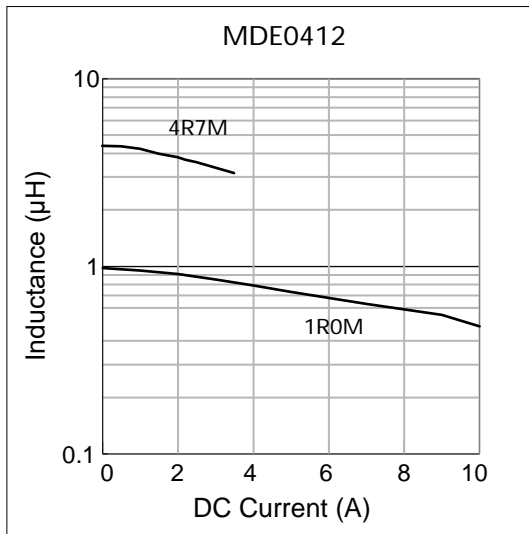
	( $\mu\text{H}$ )		( $\text{m}\Omega$ )	Saturation	
MDE0412-R15M	0.15	$\pm 20\%$	9.00	15.0	7.50
MDE0412-R22M	0.22	$\pm 20\%$	11.0	11.0	7.00
MDE0412-R33M	0.33	$\pm 20\%$	19.0	8.40	6.50
MDE0412-R47M	0.47	$\pm 20\%$	21.0	6.80	6.00
MDE0412-R68M	0.68	$\pm 20\%$	36.0	6.00	4.70
MDE0412-1R0M	1.00	$\pm 20\%$	47.0	5.50	4.50
MDE0412-1R5M	1.50	$\pm 20\%$	75.0	4.00	
MDE0412-2R2M	2.20	$\pm 20\%$		3.00	
MDE0412-4R7M	4.70	$\pm 20\%$		2.20	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:

