

Molding Power Inductors Size 0412

- 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: 3000pcs

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

Dimensions: [mm]

Land Pattern: [mm]



Electrical Properties:

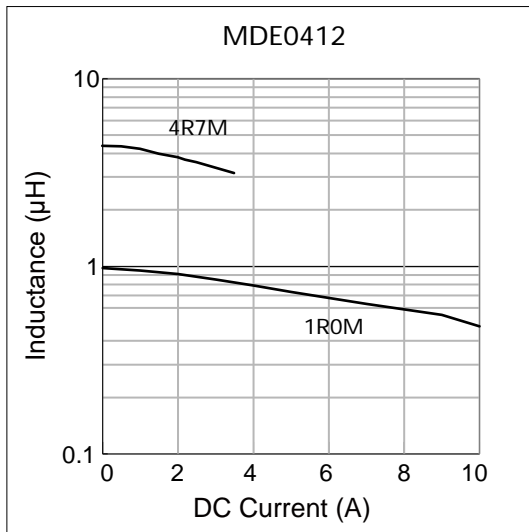
	(μH)		($\text{m}\Omega$)	Saturation	
MDE0412-R15M	0.15	$\pm 20\%$	9.00	15.0	7.50
MDE0412-R22M	0.22	$\pm 20\%$	11.0	11.0	7.00
MDE0412-R33M	0.33	$\pm 20\%$	19.0	8.40	6.50
MDE0412-R47M	0.47	$\pm 20\%$	21.0	6.80	6.00
MDE0412-R68M	0.68	$\pm 20\%$	36.0	6.00	4.70
MDE0412-1R0M	1.00	$\pm 20\%$	47.0	5.50	4.50
MDE0412-1R5M	1.50	$\pm 20\%$	75.0	4.00	3.25
MDE0412-2R2M	2.20	$\pm 20\%$	83.5	3.00	2.75
MDE0412-4R7M	4.70	$\pm 20\%$	195	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:

