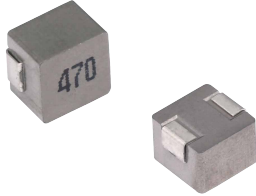


MDE Series

Molding Power Inductors

Size 0420



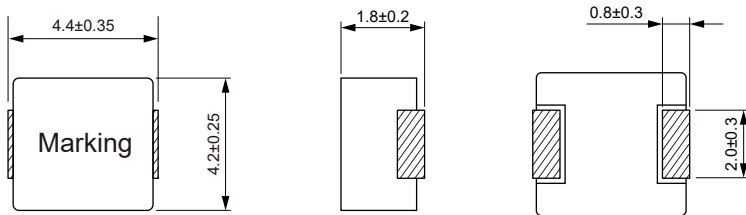
FEATURES

- 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
- Quantity: 3000pcs

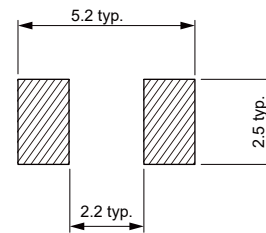
APPLICATION

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

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

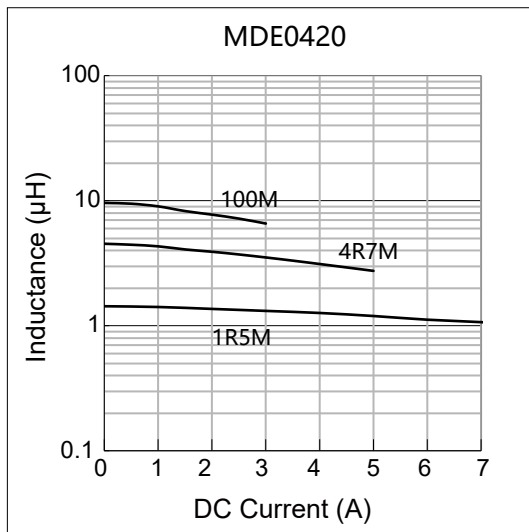
Part No	Inductance @ 100kHz/1V (μ H)	Tolerance	DC Resistance Max. (m Ω)	Saturation Current Typ. (A)	Temperature Rise Current Typ. (A)
MDE0420-R10M	0.10	±20%	4.00	22.0	13.0
MDE0420-R22M	0.22	±20%	6.60	12.5	9.50
MDE0420-R33M	0.33	±20%	11.0	12.0	10.0
MDE0420-R47M	0.47	±20%	14.0	9.50	7.50
MDE0420-R56M	0.56	±20%	16.0	9.00	7.00
MDE0420-R68M	0.68	±20%	18.0	8.00	7.00
MDE0420-1R0M	1.00	±20%	27.0	7.00	6.00
MDE0420-1R2M	1.20	±20%	27.0	6.50	6.00
MDE0420-1R5M	1.50	±20%	46.0	5.50	5.00
MDE0420-2R2M	2.20	±20%	58.0	5.00	4.50
MDE0420-3R3M	3.30	±20%	87.0	3.50	3.30
MDE0420-4R7M	4.70	±20%	105	3.00	2.80
MDE0420-6R8M	6.80	±20%	175	2.50	2.40
MDE0420-100M	10.0	±20%	282	2.00	1.60
MDE0420-220M	22.0	±20%	363	1.40	1.20

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:

