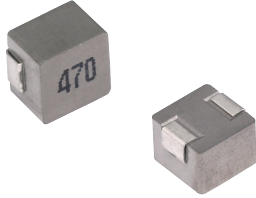


## MDE Series

### Molding Power Inductors Size 0630



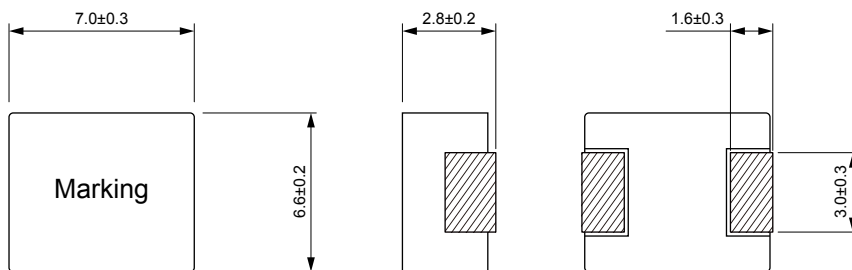
#### FEATURES

- 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: 1500pcs

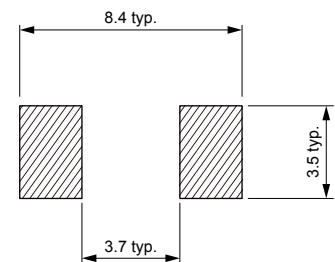
#### APPLICATION

- 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 ( $\mu$ H)	Tolerance	DC Resistance Max. (m $\Omega$ )	Saturation Current Typ. (A)	Temperature Rise Current Typ. (A)
MDE0630-R22M	0.22	±20%	3.00	34.0	24.0
MDE0630-R33M	0.33	±20%	3.50	25.0	21.0
MDE0630-R47M	0.47	±20%	4.10	20.0	18.0
MDE0630-R56M	0.56	±20%	4.50	18.0	16.5
MDE0630-R68M	0.68	±20%	5.30	17.0	16.0
MDE0630-R82M	0.82	±20%	6.00	16.0	14.0
MDE0630-1R0M	1.00	±20%	7.40	15.0	12.0
MDE0630-1R5M	1.50	±20%	12.1	12.0	12.0
MDE0630-2R2M	2.20	±20%	15.0	10.0	9.50
MDE0630-3R3M	3.30	±20%	22.0	9.50	8.50
MDE0630-4R7M	4.70	±20%	33.0	9.00	6.00
MDE0630-5R6M	5.60	±20%	42.0	6.50	5.50
MDE0630-6R8M	6.80	±20%	48.0	6.00	5.00
MDE0630-8R2M	8.20	±20%	60.0	5.50	5.00
MDE0630-100M	10.0	±20%	68.0	5.50	4.50
MDE0630-150M	15.0	±20%	113	4.00	3.00

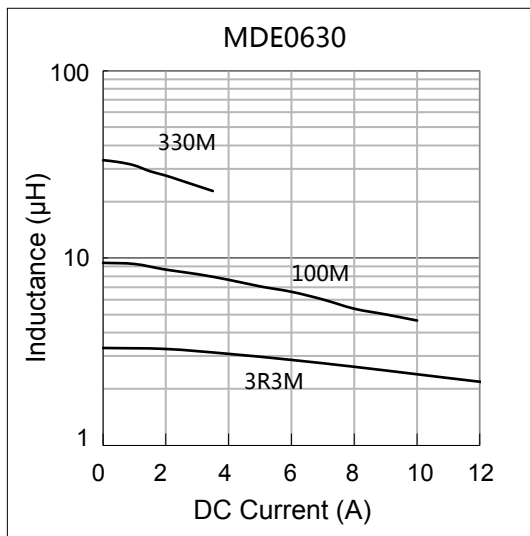
Part No	Inductance @ 100kHz/1V (μH)	Tolerance	DC Resistance Max. (mΩ)	Saturation Current Typ. (A)	Temperature Rise Current Typ. (A)
MDE0630-220M	22.0	±20%	170	3.00	2.50
MDE0630-330M	33.0	±20%	270	2.50	2.00
MDE0630-470M	47.0	±20%	385	2.00	1.50

Saturation Current will cause L to drop approximately 30%

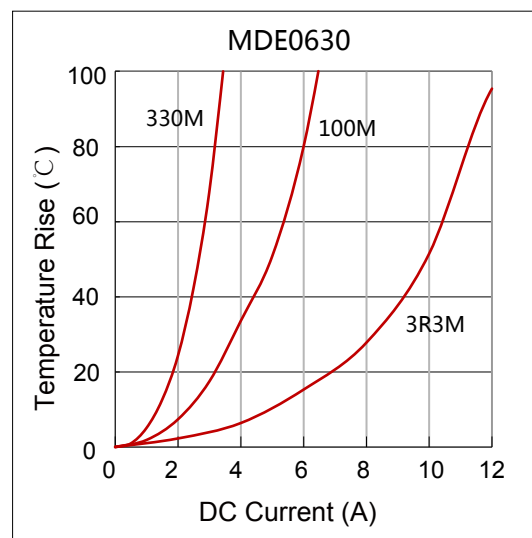
Temperature Rise Current: The actual value of DC current when the temperature rise is  $\Delta T=40^{\circ}\text{C}$

### Typical Electrical Characteristics:

Inductance vs DC Current Characteristics:



Temperature Rise vs DC Current Characteristics:



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[PE-53601NL](#) [PE-53602NL](#) [PG0936.113NLT](#) [9220-20](#) [9310-16](#) [PM06-2N7](#) [PM06-39NJ](#) [A01TK](#) [1206CS-471XJ](#) [HC2-R47-R](#) [HC8-1R2-R](#)  
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