

**MDE Series**  
**Molding Power Inductors**  
**Size 0630**



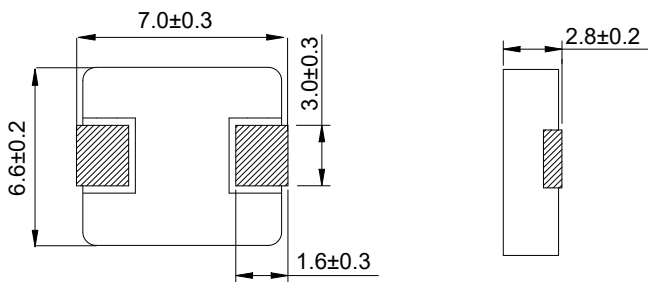
**FEATUERS**

- 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: 1500pcs

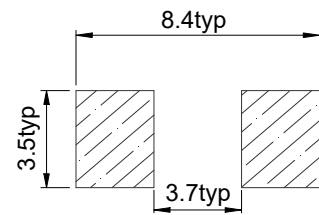
**APPLICATION**

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

**Dimensions: [mm]**



**Land Pattern: [mm]**



**Electrical Properties:**

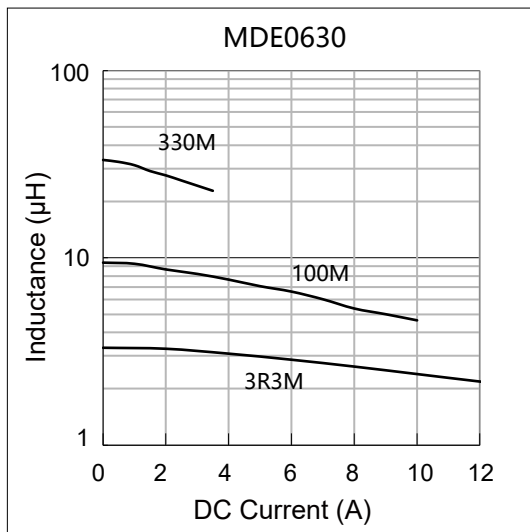
Part No.	L@100KHz /1V (µH)	Tolerance	R <sub>DC</sub> Max. (mΩ)	I <sub>sat</sub> Typ. (A)	I <sub>R</sub> Typ. (A)
MDE0630-R22M	0.22	±20%	3	34	24
MDE0630-R33M	0.33	±20%	3.5	25	21
MDE0630-R47M	0.47	±20%	4.1	20	18
MDE0630-R56M	0.56	±20%	4.5	18	16.5
MDE0630-R68M	0.68	±20%	5.3	17	16
MDE0630-R82M	0.82	±20%	6.0	16	14
MDE0630-1R0M	1.0	±20%	7.4	15	12
MDE0630-1R5M	1.5	±20%	12.1	12	12
MDE0630-2R2M	2.2	±20%	15	10	9.5

Part No.	L@100KHz /1V (μH)	Tolerance	R <sub>DC</sub> Max. (mΩ)	I <sub>sat</sub> Typ. (A)	I <sub>R</sub> Typ. (A)
MDE0630-3R3M	3.3	±20%	22	9.5	8.5
MDE0630-4R7M	4.7	±20%	33	9	6
MDE0630-5R6M	5.6	±20%	42	6.5	5.5
MDE0630-6R8M	6.8	±20%	48	6	5
MDE0630-8R2M	8.2	±20%	60	5.5	5
MDE0630-100M	10	±20%	68	5.5	4.5
MDE0630-150M	15	±20%	113	4.0	3
MDE0630-220M	22	±20%	170	3	2.5
MDE0630-330M	33	±20%	270	2.5	2
MDE0630-470M	47	±20%	385	2	1.5

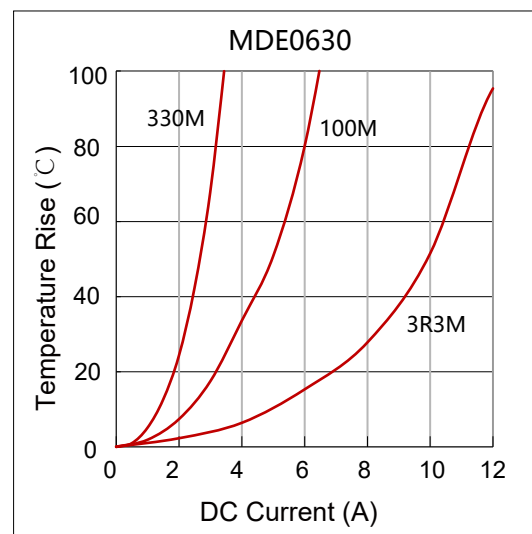
Operating temperature range - 55 °C to + 125 °C  
 I<sub>R</sub> will cause the coil temperature approximate ΔT40 °C  
 I<sub>sat</sub> will cause to drop approximately 30 %

Typical Electrical Characteristics:

Inductance vs DC Current Characteristics:



Temperature Rise vs DC Current Characteristics:



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