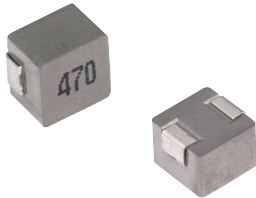


**MDE Series**  
Molding Power Inductors  
Size 0530



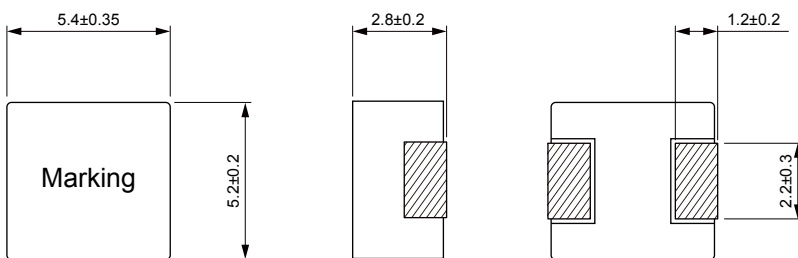
**FEATURES**

- 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: 2000pcs

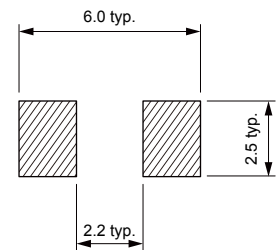
**APPLICATION**

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

**Dimensions: [mm]**



**Land Pattern: [mm]**



**Electrical Properties:**

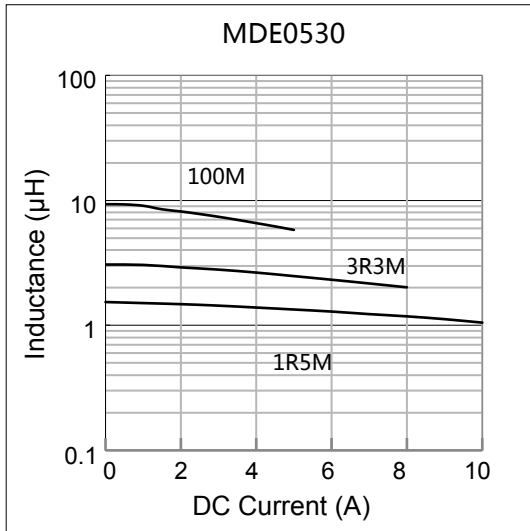
Part No	Inductance @ 100kHz/1V (μH)	Tolerance	DC Resistance Max. (mΩ)	Saturation Current Typ. (A)	Temperature Rise Current Typ. (A)
MDE0530-R10M	0.10	±20%	3.00	30.0	25.0
MDE0530-R20M	0.20	±20%	3.90	20.0	14.0
MDE0530-R33M	0.33	±20%	5.50	18.0	14.0
MDE0530-R47M	0.47	±20%	8.50	15.0	11.0
MDE0530-R68M	0.68	±20%	12.0	11.5	9.00
MDE0530-1R0M	1.00	±20%	14.0	10.0	8.50
MDE0530-1R2M	1.20	±20%	16.0	9.50	8.50
MDE0530-1R5M	1.50	±20%	25.0	9.00	8.20
MDE0530-2R2M	2.20	±20%	29.0	7.00	7.00
MDE0530-3R3M	3.30	±20%	38.0	6.00	5.50
MDE0530-4R7M	4.70	±20%	60.0	4.60	4.50
MDE0530-6R8M	6.80	±20%	90.0	3.60	3.50
MDE0530-100M	10.0	±20%	125	3.50	3.20

Saturation Current will cause L to drop approximately 30%

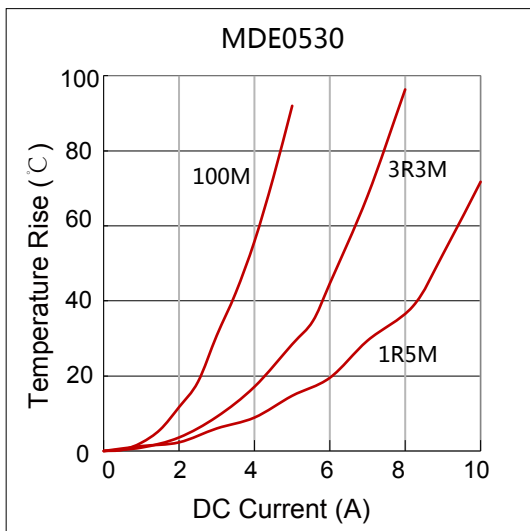
Temperature Rise Current: The actual value of DC current when the temperature rise is ΔT=40°C

Typical Electrical Characteristics:

Inductance vs DC Current Characteristics:



Temperature Rise vs DC Current Characteristics:



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[MHQ1005P5N1S](#) [MHQ1005P8N2J](#) [PE-53601NL](#) [PE-53602NL](#) [PG0936.113NLT](#) [9220-20](#) [9310-16](#) [PM06-2N7](#) [PM06-39NJ](#) [A01TK](#)  
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