

MDE Series
Molding Power Inductors
Size 0530



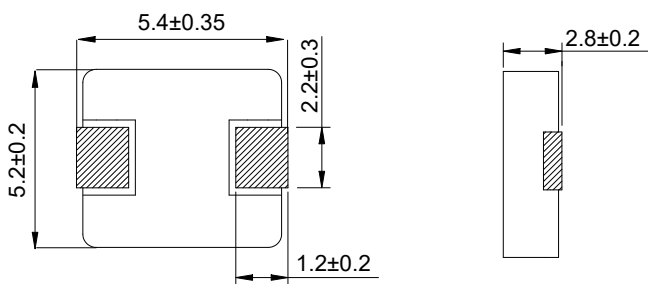
FEATUERS

- 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: 2000pcs

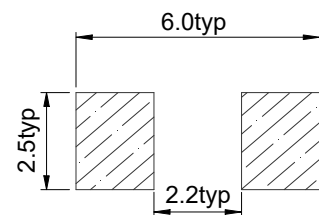
APPLICATION

- 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.	L@100KHz /1V (µH)	Tolerance	R _{DC} Max. (mΩ)	I _{sat} Typ. (A)	I _R Typ. (A)
MDE0530-R10M	0.10	±20%	3.0	30	25
MDE0530-R20M	0.20	±20%	3.9	20	14
MDE0530-R33M	0.33	±20%	5.5	18	14
MDE0530-R47M	0.47	±20%	8.5	15	11
MDE0530-R68M	0.68	±20%	12	11.5	9.0
MDE0530-1R0M	1.0	±20%	14	10	8.5
MDE0530-1R2M	1.2	±20%	16	9.5	8.5
MDE0530-1R5M	1.5	±20%	25	9	8.2
MDE0530-2R2M	2.2	±20%	29	7.0	7.0

Part No.	L@100KHz /1V (μH)	Tolerance	R _{DC} Max. (mΩ)	I _{sat} Typ. (A)	I _R Typ. (A)
MDE0530-3R3M	3.3	±20%	38	6.0	5.5
MDE0530-4R7M	4.7	±20%	60	4.6	4.5
MDE0530-6R8M	6.8	±20%	90	3.6	3.5
MDE0530-100M	10	±20%	125	3.5	3.2

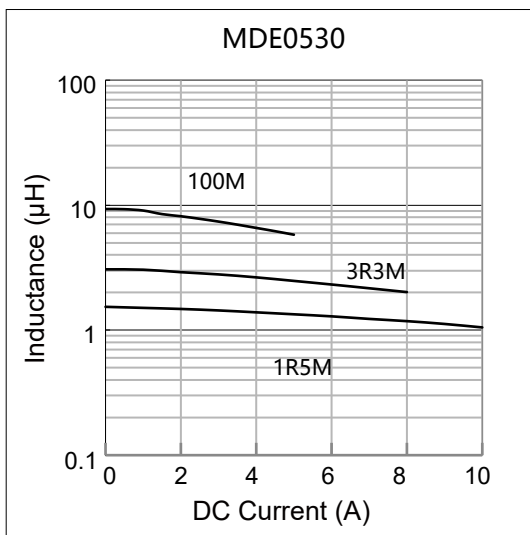
Operating temperature range - 55 °C to + 125 °C

I_R will cause the coil temperature approximate ΔT40 °C

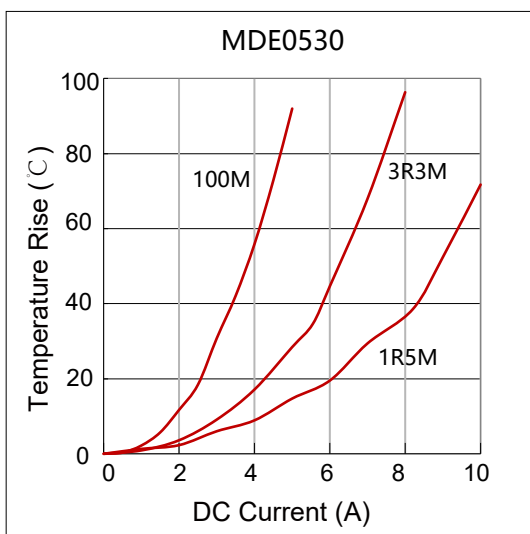
I_{sat} will cause to drop approximately 30 %

Typical Electrical Characteristics:

Inductance vs DC Current Characteristics:



Temperature Rise vs DC Current Characteristics:



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