

MDE Series

Molding Power Inductors

Size 0518



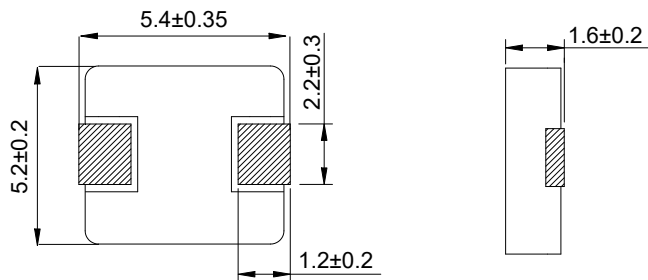
FEATUERS

- 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

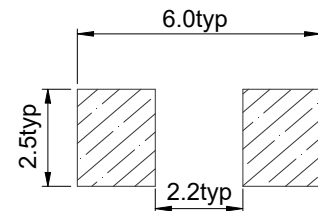
APPLICATION

- 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)
MDE0518-R47M	0.47	±20%	9	12.0	10.5
MDE0518-R56M	0.56	±20%	10	11	9.5
MDE0518-1R0M	1.0	±20%	17	9.0	8.0
MDE0518-1R5M	1.5	±20%	26	8	7.5
MDE0518-2R2M	2.2	±20%	35	6.0	5.0
MDE0518-3R3M	3.3	±20%	58	4.8	4.5
MDE0518-4R7M	4.7	±20%	85	4.0	3.5
MDE0518-6R8M	6.8	±20%	120	3.4	2.8
MDE0518-100M	10	±20%	155	2.5	2.5

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 %