

MDE Series

Molding Power Inductors

Size 0618



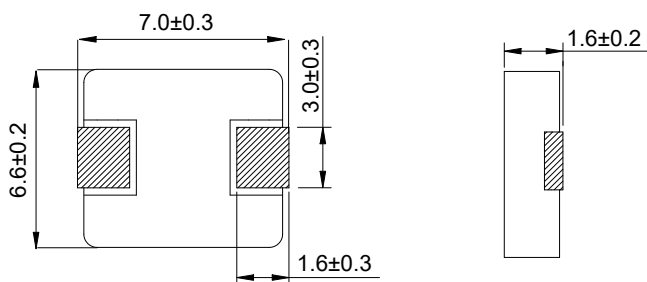
FEATUERS

- 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

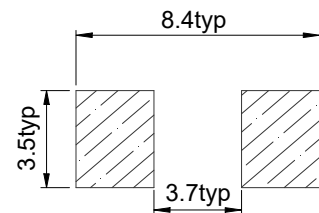
APPLICATION

- 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 _{last} Typ. (A)	I _R Typ. (A)
MDE0618-R10M	0.10	±20%	2.3	38	25
MDE0618-R22M	0.22	±20%	3.5	24	22
MDE0618-R47M	0.47	±20%	8.4	18	11.5
MDE0618-R68M	0.68	±20%	12	16.5	9.5
MDE0618-1R0M	1.0	±20%	16	12	8.5
MDE0618-1R5M	1.5	±20%	26	9.2	8
MDE0618-2R2M	2.2	±20%	35	8	7
MDE0618-3R3M	3.3	±20%	50	6	4.5
MDE0618-4R7M	4.7	±20%	62	5	4

Part No.	L@100KHz /1V (μ H)	Tolerance	R _{DC} Max. (m Ω)	I _{sat} Typ. (A)	I _R Typ. (A)
MDE0618-6R8M	6.8	±20%	110	4.5	3
MDE0618-100M	10	±20%	155	4	2.3
MDE0618-220M	22	±20%	350	2.3	1.8

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

I_R will cause the coil temperature approximate ΔT 40 °C

I_{sat} will cause to drop approximately 30 %