

MDE Series

Molding Power Inductors

Size 1240



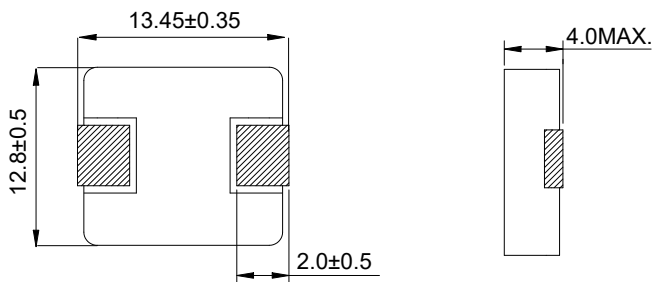
FEATUERS

- 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: 500pcs

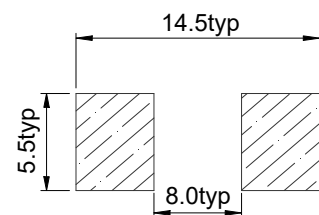
APPLICATION

- 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 _{ast} Typ. (A)	I _R Typ. (A)
MDE1240-R22M	0.22	±20%	0.9	50.0	42.0
MDE1240-R47M	0.47	±20%	2.0	48.0	33.0
MDE1240-R68M	0.68	±20%	3.5	47.0	28.0
MDE1240-R82M	0.82	±20%	4.5	40.0	28.0
MDE1240-1R0M	1.0	±20%	7.5	35.0	24.0
MDE1240-1R5M	1.5	±20%	9.5	30.5	20.0
MDE1240-2R2M	2.2	±20%	11.5	26.0	18.0
MDE1240-3R3M	3.3	±20%	13.0	21.0	15.0
MDE1240-4R7M	4.7	±20%	14.5	18.0	13.0
MDE1240-6R8M	6.8	±20%	20.0	14.0	9.0
MDE1240-100M	10.0	±20%	25.0	10.0	8.0

Part No.	L@100KHz /1V (μ H)	Tolerance	R _{DC} Max. (m Ω)	I _{ast} Typ. (A)	I _R Typ. (A)
MDE1240-150M	15.0	$\pm 20\%$	39.0	7.5	6.5
MDE1240-220M	22.0	$\pm 20\%$	51.0	6.0	4.5

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

I_R will cause the coil temperature approximate $\Delta T 40$ °C

I_{sat} will cause to drop approximately 30 %