

MDE Series

Molding Power Inductors

Size 252010S



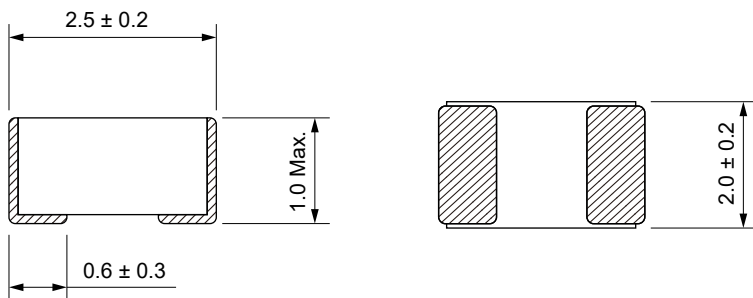
FEATURES

- High saturation current realized by material properties and structure design.
- Low DC resistance to achieve high conversion efficiency and lower temperature rising.
- Low Profile.
- Magnetically shielded structure to accomplish high resolution in EMC protection.
- Halogen free, Lead Free, RoHS Compliance.

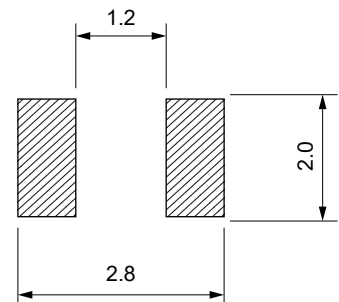
APPLICATION

- Generic in portable DC to DC converter line.
- Smart phone, PAD
- DC/DC converter
- Thin-type power supply module.

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

Part No	Inductance @ 1MHz/1V (μ H)	Tolerance	DC Resistance Typ. (m Ω)	DC Resistance Max. (m Ω)	Saturation Current Typ. (A)	Saturation Current Max. (A)	Temperature Rise Current Typ. (A)	Temperature Rise Current Max. (A)
MDE252010S-R33M	0.33	±20%	17	22	7.8	7.0	5.6	4.8
MDE252010S-R47M	0.47	±20%	23	29	6.6	6.0	5.2	4.4
MDE252010S-1R0M	1.0	±20%	41	52	4.4	4.0	3.4	3.1
MDE252010S-2R2M	2.2	±20%	88	110	3.3	3.0	2.4	2.1

Operating temperature range - 40 °C to + 125 °C

Temperature rising current will cause the coil temperature approximate ΔT_{40} °C

Saturation current will cause to drop approximately 30 %

Typical Electrical Characteristics:

Inductance&Temp Rise VS DC Current Characteristics:

