

**MDE Series**  
**Molding Power Inductors**  
**Size 201610S**



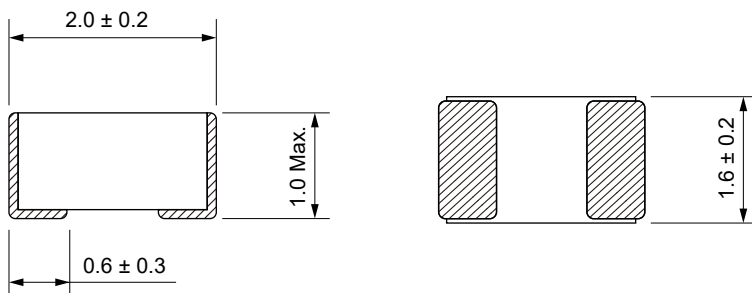
**FEATURES**

- 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.
- Quantity:3000pcs

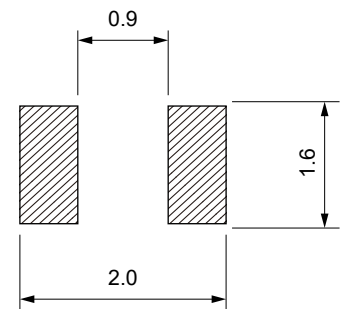
**APPLICATION**

- 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 (μH)	Tolerance	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)	Saturation Current Typ. (A)	Saturation Current Max. (A)	Temperature Rise Current Typ. (A)	Temperature Rise Current Max. (A)
MDE201610S-R10M	0.1	±20%	7	11	12.2	11.0	9.5	9.0
MDE201610S-R33M	0.33	±20%	21	26	6.7	6.10	4.7	4.20
MDE201610S-R47M	0.47	±20%	23	30	6.1	5.30	4.5	4.10
MDE201610S-1R0M	1.0	±20%	48	60	3.9	3.30	3.2	3.00
MDE201610S-1R5M	1.5	±20%	86	99	3.4	3.10	2.4	2.20
MDE201610S-2R2M	2.2	±20%	117	140	2.6	2.45	2.2	2.00

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

Temperature rising current will cause the coil temperature approximate ΔT40 °C

Saturation current will cause to drop approximately 30 %

Typical Electrical Characteristics:

Inductance&Temp Rise VS DC Current Characteristics:

