

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



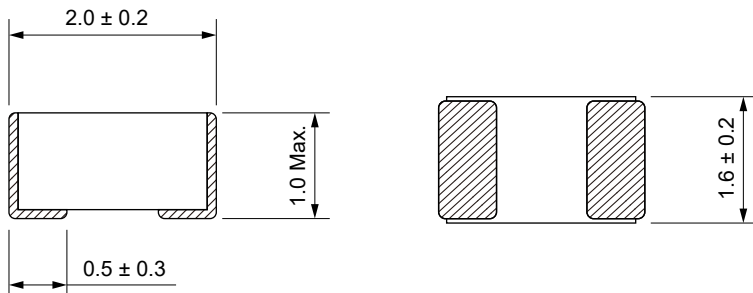
**FEATURES**

- 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.

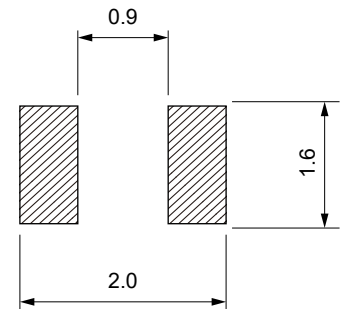
**APPLICATION**

- 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 (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)
MDE201610-R24M	0.24	±20%	17	21	5.6	5.05	5.0	4.50
MDE201610-R33M	0.33	±20%	24	29	5.0	4.50	4.1	3.69
MDE201610-R47M	0.47	±20%	33	40	4.4	4.00	3.5	3.15
MDE201610-R68M	0.68	±20%	41	49	3.7	3.33	3.4	3.06
MDE201610-1R0M	1.0	±20%	60	69	2.9	2.61	2.6	2.26
MDE201610-1R5M	1.5	±20%	114	129	2.5	2.25	2.0	1.81
MDE201610-2R2M	2.2	±20%	135	150	1.9	1.71	1.7	1.50

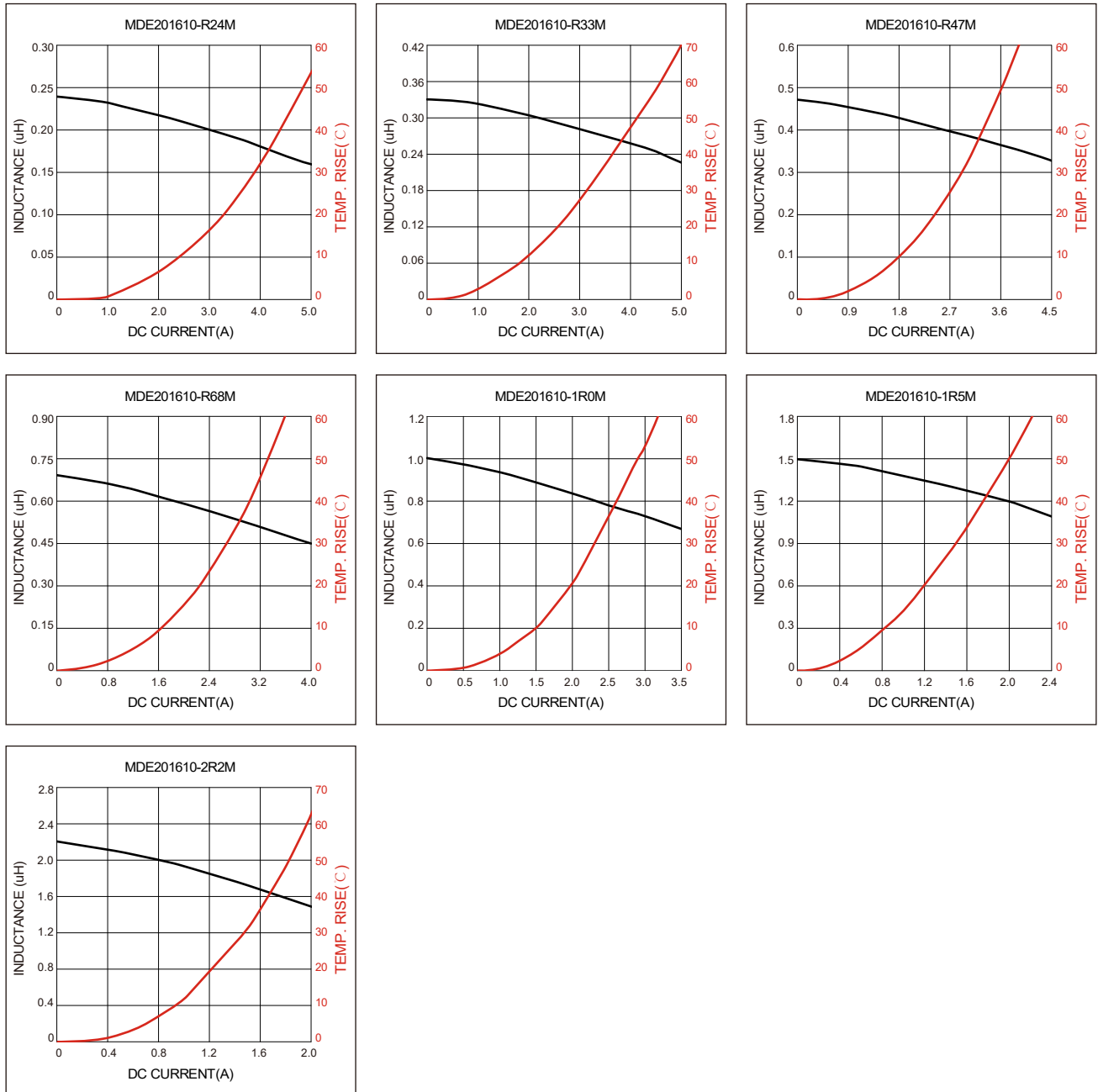
Operating temperature range - 40 °C to + 125 °C

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:



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