

**MDE Series**  
**Molding Power Inductors**  
**Size 0410**



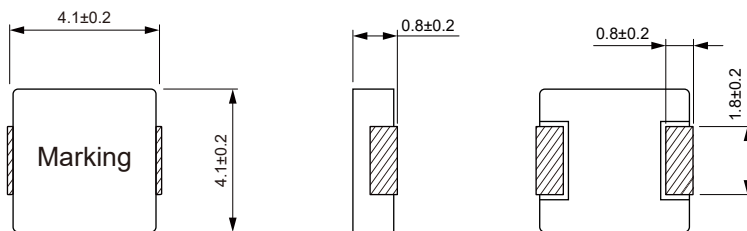
**FEATURES**

- High performance (Isat) realized by metal dust core
- Low profile: 4.3 mm x 4.3 mm x 1.0 mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- Operating temperature range - 55 °C to + 125 °C
- Quantity: 5000pcs

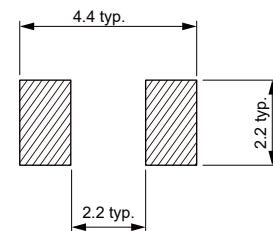
**APPLICATION**

- DC/DC converter for CPU in Notebook PC
- Thin type on-board power supply module for exchanger
- VRM for server

**Dimensions: [mm]**



**Land Pattern: [mm]**



**Electrical Properties:**

Part No	Inductance @ 100kHz/1V (μH)	Tolerance	DC Resistance Max. (mΩ)	Saturation Current Typ. (A)	Saturation Current Max. (A)	Temperature Rise Current Typ. (A)	Temperature Rise Current Max. (A)
MDE0410-2R2M	2.20	±20%	100	4.30	3.50	3.40	3.00
MDE0410-4R7M	4.70	±20%	160	2.50	2.10	2.60	2.30
MDE0410-100M	10.0	±20%	336	1.80	1.60	1.50	1.30

Saturation Current will cause L to drop approximately 30%

Temperature Rise Current: The actual value of DC current when the temperature rise is  $\Delta T=40^{\circ}\text{C}$