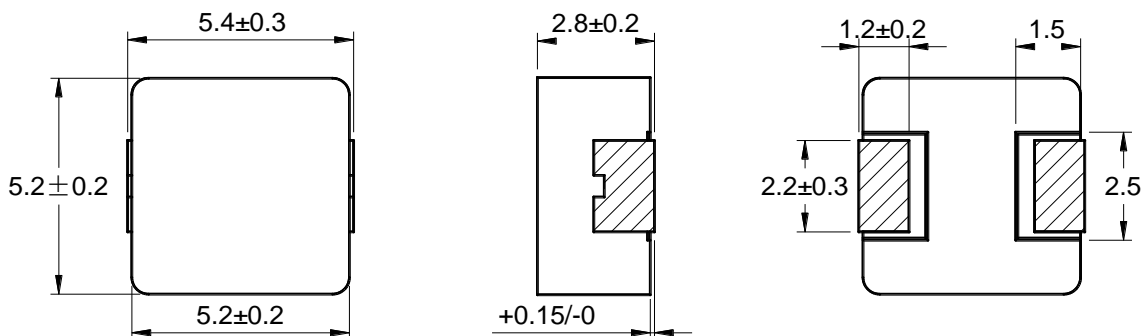


1.Features

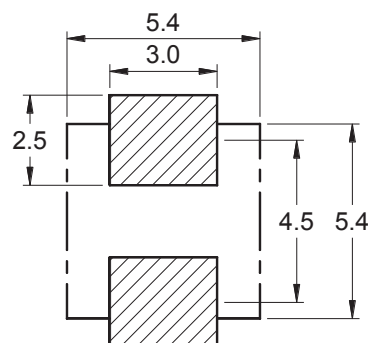
1. Die-casting by low loss alloy powder.
2. Capable of corresponding high frequency.
3. low impedance small parasitic capacitance.
4. High performance (Isat) realized by metal dust core.
5. Ultra low buzz noise, due to composite construction.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. Operating temperature : $-40^{\circ}\text{C} \sim +150^{\circ}\text{C}$ (Including coils temperature rise)
8. Storage Temperature: Store this product under the condition of less 40°C 20% to 70%RH and use within 12 months.

2.Shapes and Dimensions



Unit: mm

3. LAND PATTERNS FOR REFLOW SOLDERING



Unit: mm

4. Electrical Characteristics

ITEM P/N	Test Frequency	Inductance ±20%	D.C.R Max	Isat Max	Irms Max
IMI0530-1R0MA16	1KHZ/1.0V	1.00uH	14.0mΩ	12.5A	8.70A
IMI0530-1R5MA16		1.50uH	23.0mΩ	12.0A	7.40A
IMI0530-2R2MA16		2.20uH	29.0mΩ	9.50A	5.90A
IMI0530-3R3MA16		3.30uH	42.0mΩ	6.00A	5.00A
IMI0530-4R7MA16		4.70uH	60.0mΩ	5.00A	4.10A
IMI0530-5R6MA16		5.60uH	65.0mΩ	4.50A	3.90A
IMI0530-6R8MA16		6.80uH	90.0mΩ	4.00A	3.30A
IMI0530-8R2MA16		8.20uH	120mΩ	4.00A	2.80A
IMI0530-100MA16		10.0uH	132mΩ	4.50A	2.60A
IMI0530-220MA16		22.0uH	324mΩ	3.50A	2.00A
IMI0530-330MA16		33.0uH	372mΩ	2.50A	1.20A

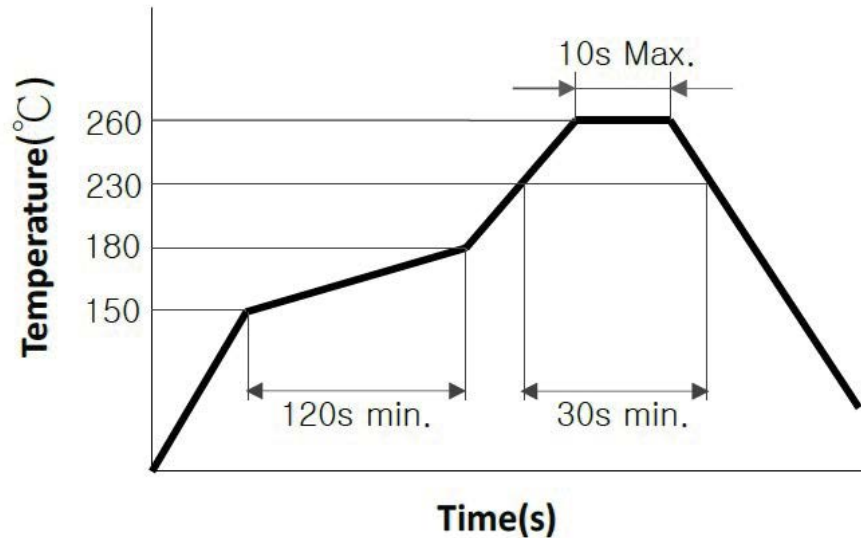
NOTE.

1. Inductance Tolerance Code : M – 20%
2. The Isat is DC current value Inductance decrease down to 20%.
(Test by a short period of time to minimize the self-heating effect of the component.)
3. The temperature rise current value is the DC current value having temperature increase up to 40°C.

5. Package Quantity

Standard Quantity for Packaging: 2,000 pcs/Reel

6. Recommended Soldering Profile



7. Reliability and Test Condition

TEST	Specification & Requirement	Method Used
Solderability	1.No mechanical damage. 2.Inductance change : SPEC. ± 20%	Preheat temperature : 150±10°C Preheat time: 60 sec. Solder temperature : 260±5°C Soldering time : 10±1 sec
Temperature cycle		Step1: -40°C±3°C @ 30±3 min Step2: +25°C±3°C @ 30±3 min Step1: +150°C±3°C @ 30±3 min Total 10 continuous cycles.
High temperature		Temperature : 150°C±2°C Test duration : 96±4 hours
Low temperature		Temperature : -40°C±2°C Test duration : 96±4 hours
Humidity		Humidity : 90%~95% RH Temperature : 40±2°C Test duration : 96 hours.
Vibration		Oscillation Frequency : 10Hz-55Hz~10Hz Amplitude : 1.5±10% mm Direction : X, Y , Z Test duration : 2 hours.