

# Molding Type Power Inductor

ASPI-0530HI



RoHS  
Compliant



5.6 x 5.2 x 3.0 mm

## FEATURES:

- High saturation current.
- Low loss due to low DC resistance.
- Frequency application up to 3MHz.
- Low profile with max thickness 3.0mm.
- 100% lead free and metted RoHS standard.
- Suitable for reflow soldering.
- High reliable SMD package

## APPLICATIONS:

- DC/DC converters in Notebook, Netbook, desktop and server
- Low profile, high current power supplies.

## STANDARD SPECIFICATIONS

Abracon P/N:	ASPI-0530HI Series
Operating Temperature & Humidity:	-55°C to +125°C (Including self generated heat)
Storage Temperature & Humidity:	+25°C to +35°C, 45% to 85% RH

Part Number	Inductance	Tolerance	DCR Typ	DCR Max	Saturation Current	Temperature Rise Current
Units	μH	%	mΩ	mΩ	A	A
Symbol	L	M			Isat*	Irms*
ASPI-0530HI-1R0	1.0	M	13.0	14.0	11.0	7.0
ASPI-0530HI-1R5	1.5	M	20.0	25.0	10.0	6.0
ASPI-0530HI-2R2	2.2	M	29.0	35.0	9.0	5.5

## Test Conditions

Inductance is measured in HP-4284A Precision LCR Meter.

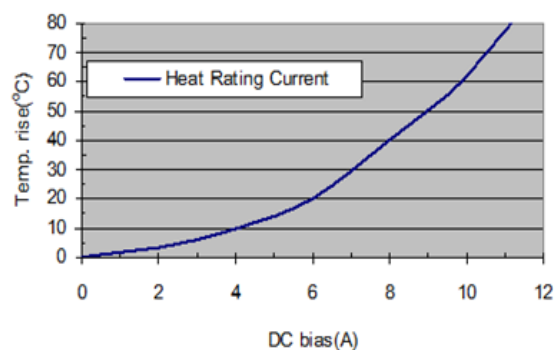
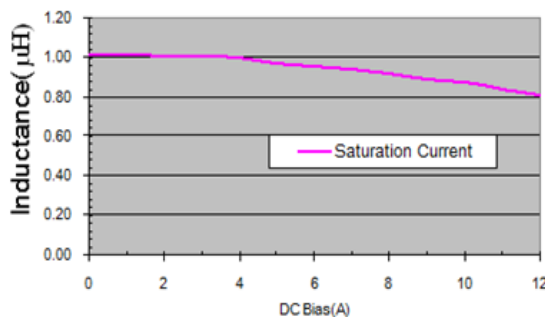
RDC is measured in HP-4338B milli ohm meter.(or equivalent).

Isat: Based on inductance change ( $\Delta L/L_0 : \leq -20\%$ )

Irms: Based on temperature rise ( $\Delta T : 40^\circ\text{C TYP.}$  )

## ELECTRICAL CHARACTERISTIC CURVES

ASPI-0530HI-1R0



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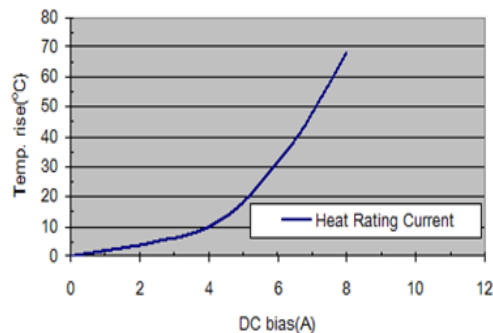
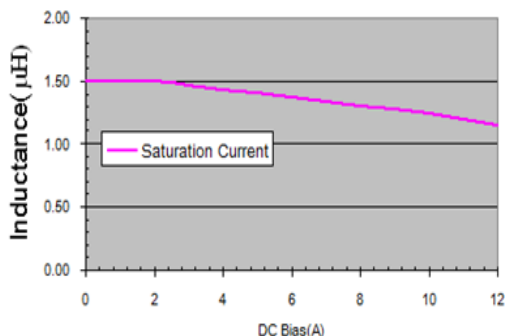
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Compliant



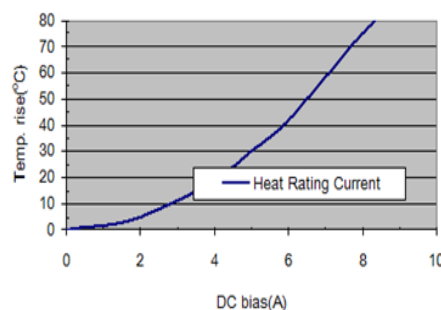
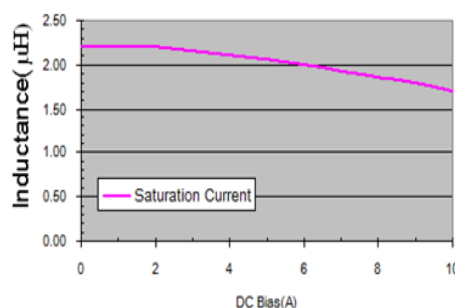
5.6 x 5.2 x 3.0 mm

## ELECTRICAL CHARACTERISTIC CURVES

ASPI-0530HI-1R5



ASPI-0530HI-2R2



## PART NUMBER IDENTIFICATION

ASPI-0530HI-     -  

### Inductance Code

Please refer to the  
Electrical Spec Table

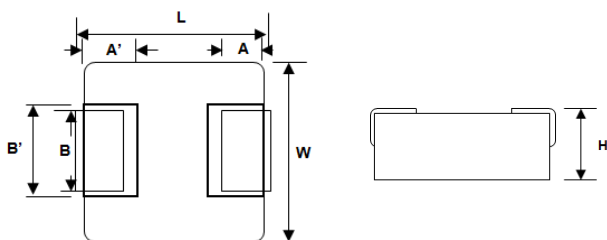
### Tolerance

M:  $\pm 20\%$

### Packaging

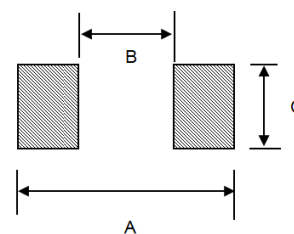
T2: Tape and Reel (2kpcs / reel)

## OUTLINE DRAWING:



A	A'	B	B'	L	W	H max
1.0 $\pm 0.4$	1.5 $\pm 0.1$	2.0 $\pm 0.3$	2.5 $\pm 0.2$	5.60 $\pm 0.35$	5.2 $\pm 0.2$	3.0

### Recommended Land Pattern



A	B	C
5.99	2.2	2.5

Dimension: mm

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Revised: 11.17.11

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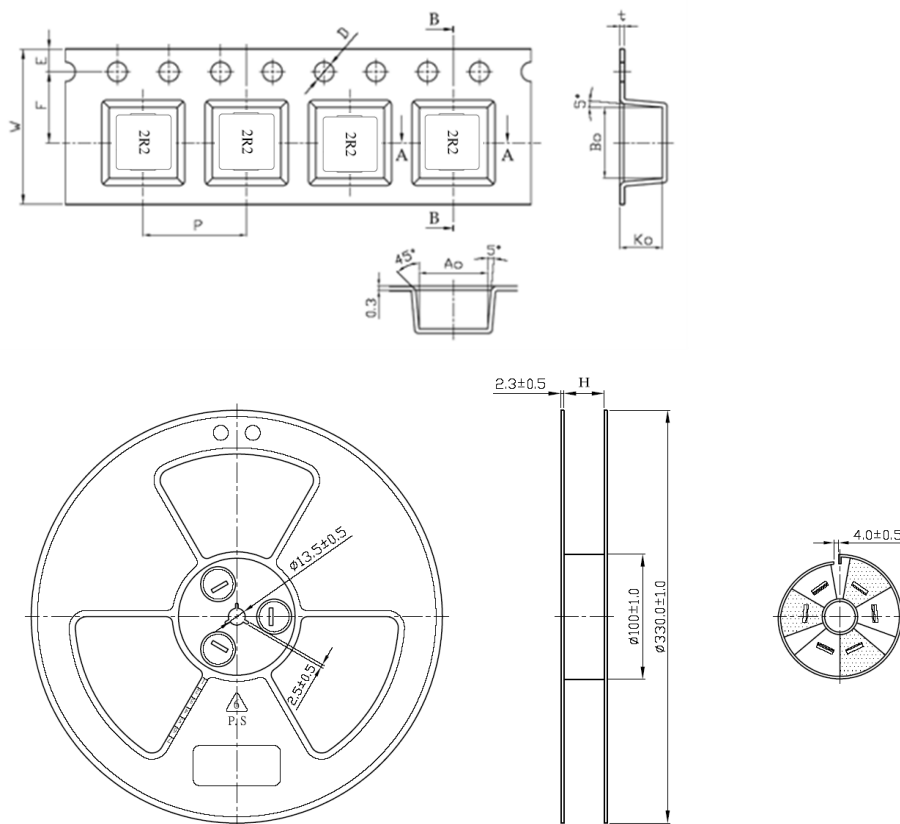
**RoHS**  
Compliant



5.6 x 5.2 x 3.0 mm

## TAPE & REEL:

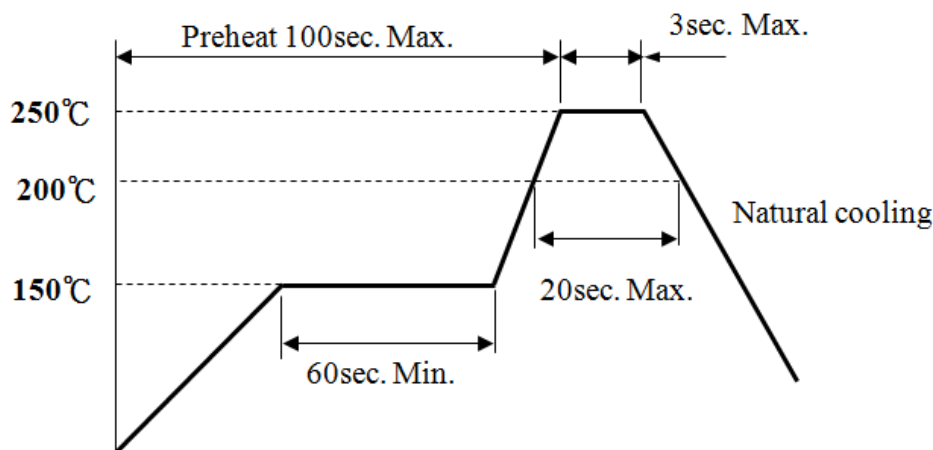
**T2: 2,000pcs / reel**



<b>A0</b>	<b>5.3</b>
<b>B0</b>	<b>5.5</b>
<b>K0</b>	<b>3.3</b>
<b>P</b>	<b>8.0</b>
<b>t</b>	<b>0.4</b>
<b>W</b>	<b>12</b>
<b>E</b>	<b>1.75</b>
<b>F</b>	<b>5.5</b>
<b>D</b>	<b>1.5</b>

**Dimension: mm**

## REFLOW PROFILE:



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