

# Molded Type Power Inductor



## ASPI-0530HI Series

Request Samples



Check Inventory



5.7 x 5.3 x 3.0 mm  
RoHS/RoHS II Compliant  
MSL Level = 1

### 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 RoHS compliant.
- Suitable for reflow soldering.
- High reliable SMD package

### Applications

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

### Electrical Specifications

Part Number	Inductance	Tolerance	DCR Typ	DCR Max	Saturation Current	Temperature Rise Current
Units	$\mu\text{H}$	%	m $\Omega$	m $\Omega$	A	A
Symbol	L	M			Isat*	Irms*
ASPI-0530HI-R22	0.22	M	4.0	5.0	23.0	15.0
ASPI-0530HI-R33	0.33	M	5.0	6.0	20.0	12.0
ASPI-0530HI-R47	0.47	M	6.3	7.4	18.0	13.0
ASPI-0530HI-R68	0.68	M	9.1	10.0	14.0	10.0
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
ASPI-0530HI-3R3	3.3	M	34.0	38.0	8.0	5.0
ASPI-0530HI-4R7	4.7	M	54.0	60.0	4.5	4.5
ASPI-0530HI-5R6	5.6	M	55.0	65.0	4.0	4.5
ASPI-0530HI-6R8	6.8	M	65.0	76.5	4.0	3.8
ASPI-0530HI-100	10.0	M	104	120	3.5	3.2

### Test Conditions

1. Inductance is measured in HP-4284A Precision LCR Meter.
2. RDC is measured in HP-4338B milli ohm meter. (Or equivalent).
3. Isat: Based on inductance change ( $\Delta L/L_0 \leq -20\%$ )
4. Irms: Based on temperature rise ( $\Delta T: 40^\circ\text{C TYP.}$ )

**Operating Temperature & Humidity:**  $-55^\circ\text{C}$  to  $+125^\circ\text{C}$  (Including self-generated heat)

**Storage Temperature & Humidity:**  $+25^\circ\text{C}$  to  $+35^\circ\text{C}$ , 45% to 75% RH

**Maximum Voltage:** 30VDC



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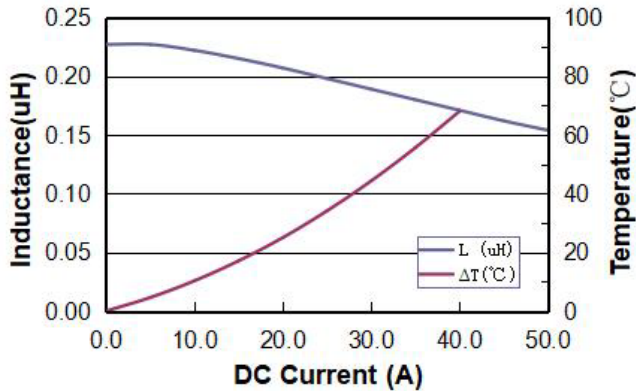
Check Inventory



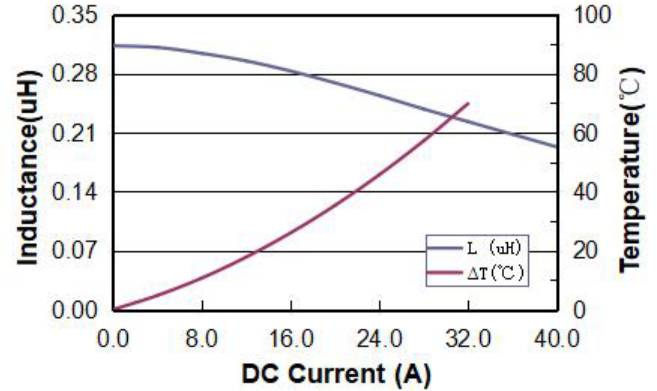
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RoHS/RoHS II Compliant  
MSL Level = 1

## Performance Graphs

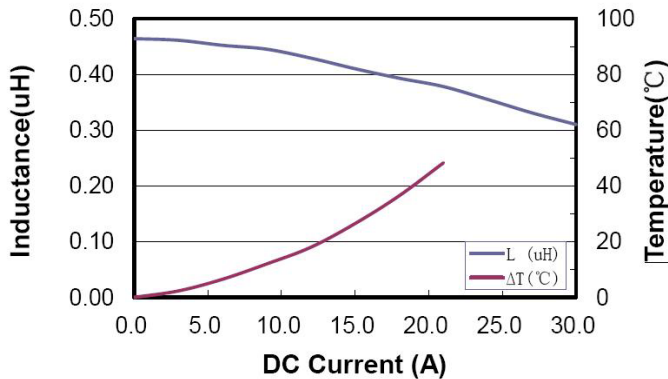
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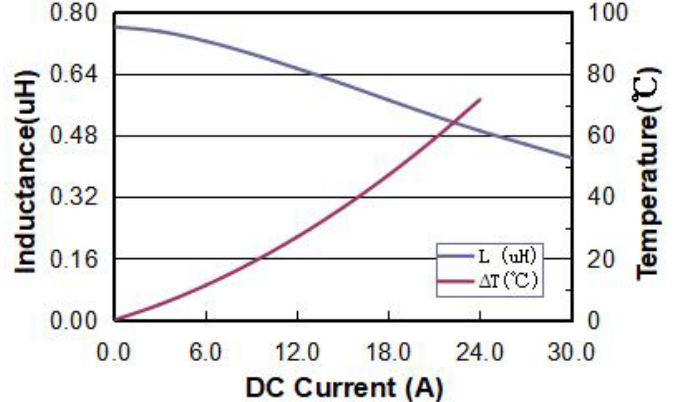
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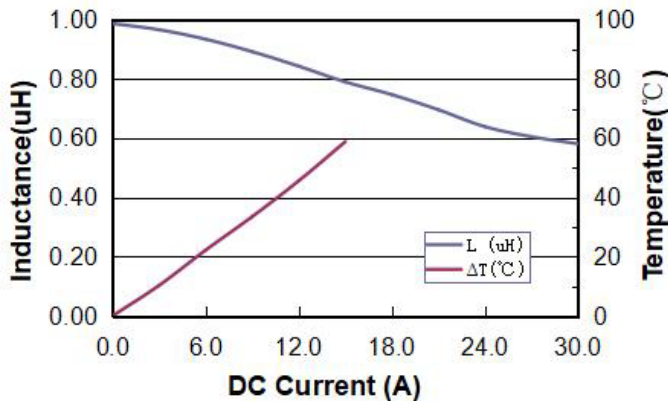
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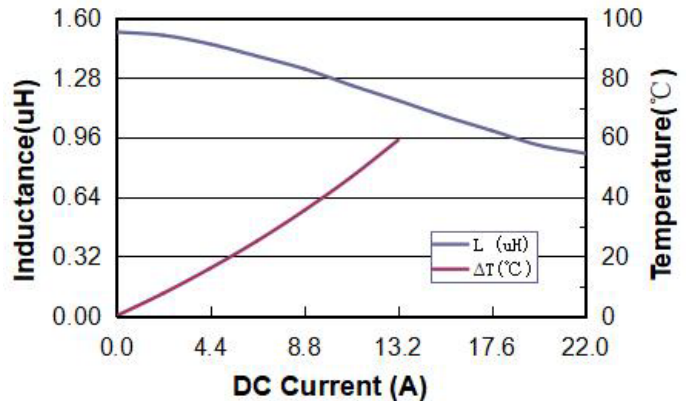
**ASPI-0530HI-R68**



**ASPI-0530HI-1R0**



**ASPI-0530HI-1R5**



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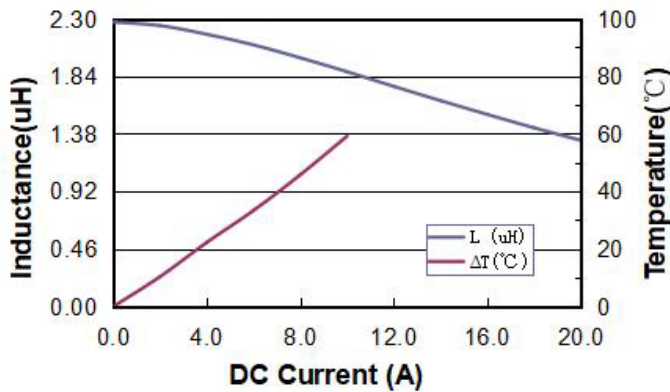
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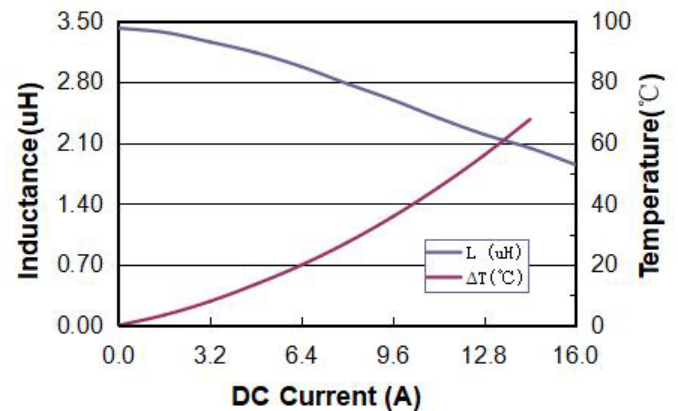
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## Performance Graphs

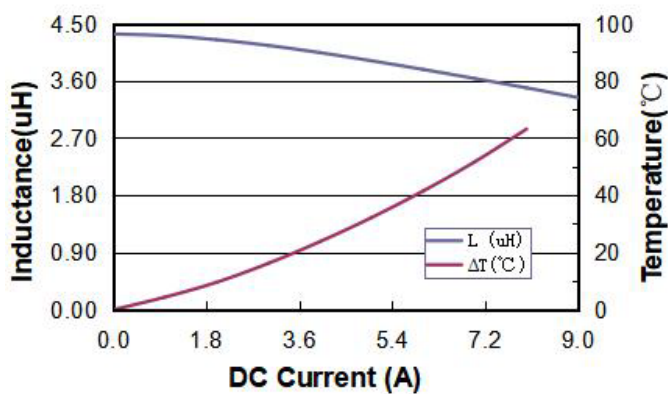
**ASPI-0530HI-2R2**



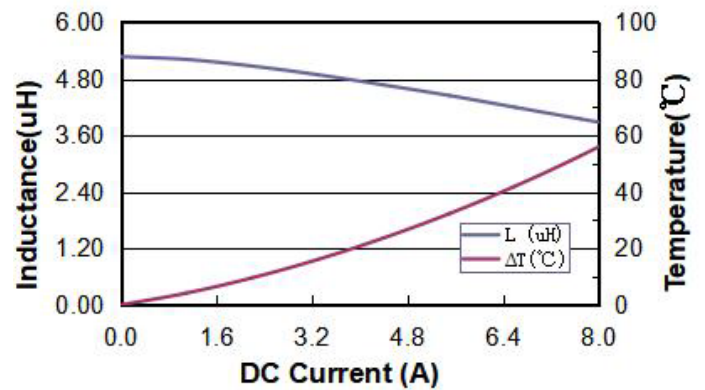
**ASPI-0530HI-3R3**



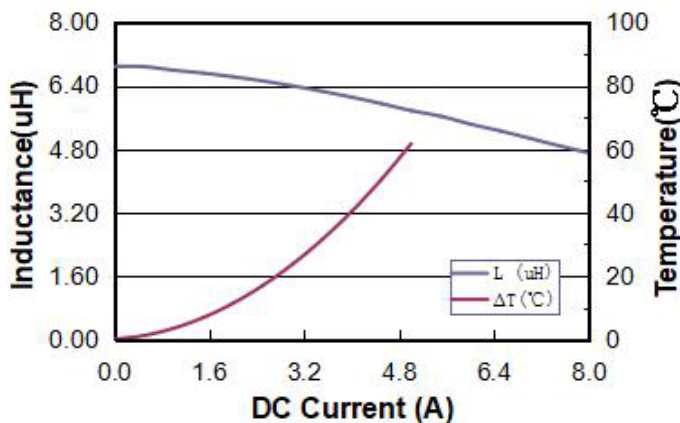
**ASPI-0530HI-4R7**



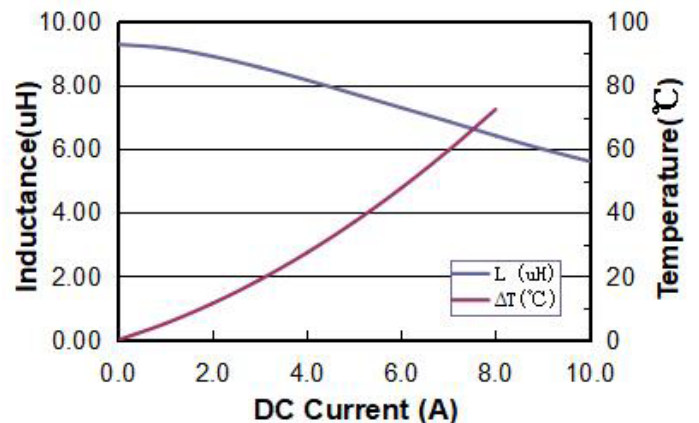
**ASPI-0530HI-5R6**



**ASPI-0530HI-6R8**



**ASPI-0530HI-100**



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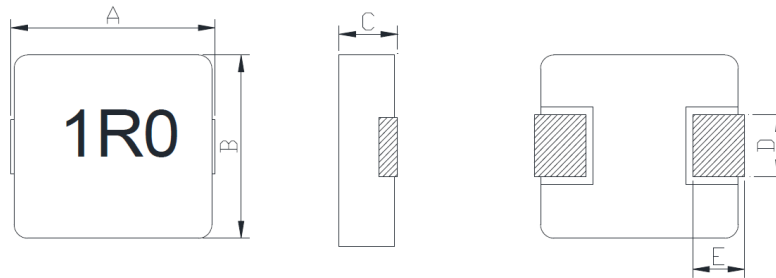


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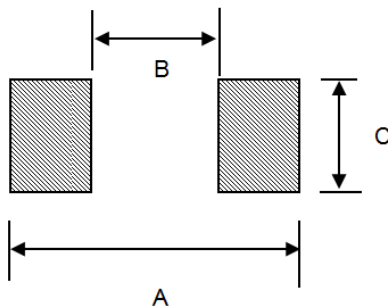
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**RoHS/RoHS II Compliant**  
 MSL Level = 1

## Mechanical Specifications



A	B	C	D	E
5.7 ±0.30	5.3 ±0.40	3.0 MAX	2.2 ±0.5	1.2 ±0.50

## Recommended Land Pattern



A	B	C
7.0 Typ.	3.0 Typ.	2.5 Typ.

Dimensions: mm

## Part Number Identification

ASPI-0530HI -   -

**Inductance Code**  
 Please refer to the  
 Electrical  
 Specifications Table

**Tolerance**  
 M: ±20%

**Packaging**  
 T2: Tape & Reel 2,000 units



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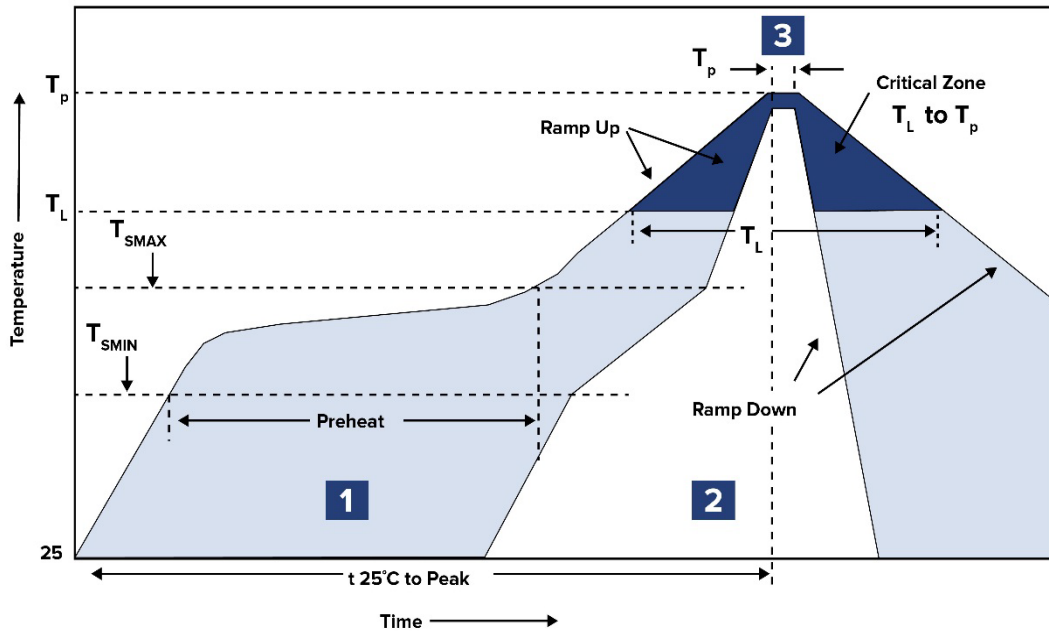


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5.7 x 5.3 x 3.0 mm  
RoHS/RoHS II Compliant  
MSL Level = 1

## Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ 150°C ~ 200°C	60 ~ 120 sec.
2	Reflow	$T_L$ 200°C	20 sec.
3	Peak heat	$T_P$ 250°C	3 sec. MAX



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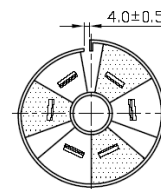
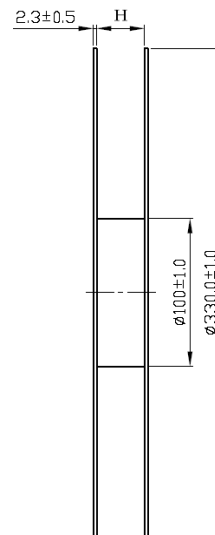
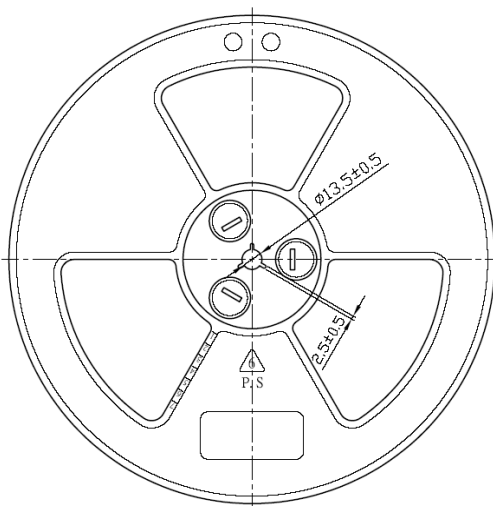
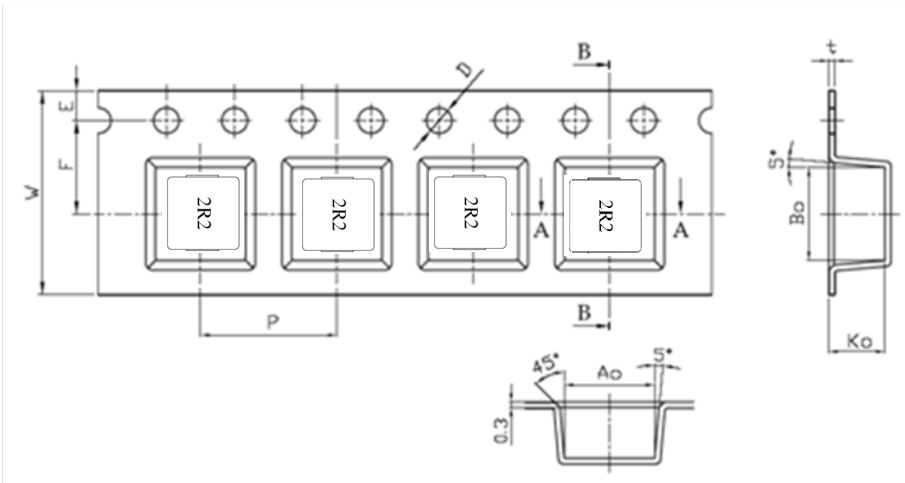


5.7 x 5.3 x 3.0 mm  
**RoHS/RoHS II Compliant**  
 MSL Level = 1

## Packaging

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

<b>A0</b>	<b>5.7 ±0.3</b>
<b>B0</b>	<b>5.9 ±0.3</b>
<b>K0</b>	<b>3.4 ±0.3</b>
<b>P</b>	<b>8.0 ±0.1</b>
<b>t</b>	<b>0.4 Typ</b>
<b>W</b>	<b>12 ±0.3</b>
<b>E</b>	<b>1.75 ±0.1</b>
<b>F</b>	<b>5.5 ±0.1</b>
<b>D</b>	<b>1.5 ±0.1</b>
<b>H</b>	<b>12.5</b>



**Dimension: mm**

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