

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	μH	%	m Ω	m Ω	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 (ΔT : 40°C TYP.)

Operating Temperature & Humidity: -55°C to +125°C (Including self generated heat)

Storage Temperature & Humidity: +25°C to +35°C, 45% to 75% RH



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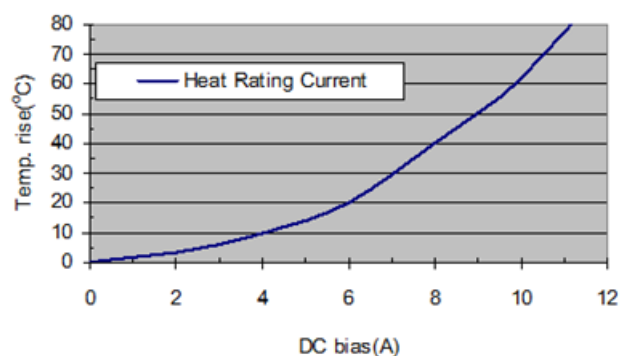
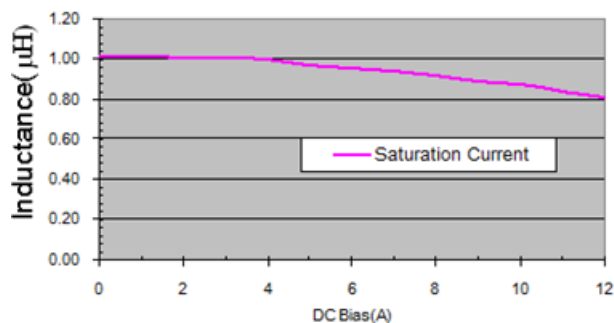
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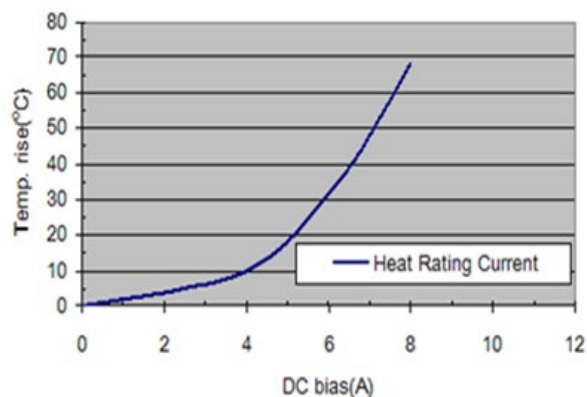
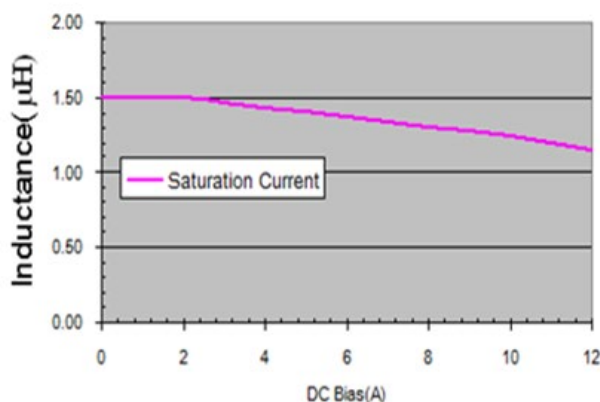
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Performance Graphs

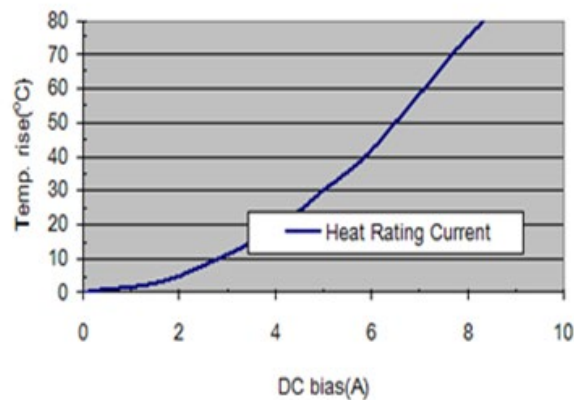
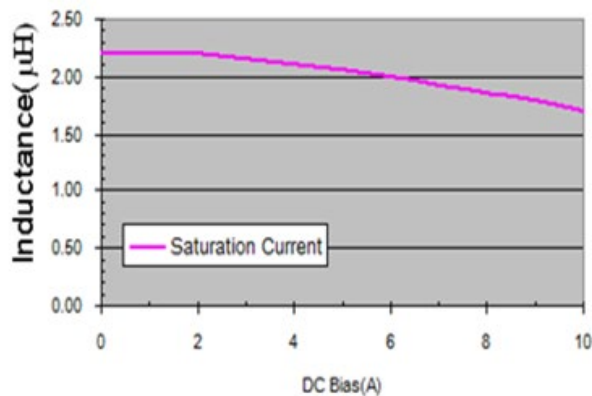
ASPI-0530HI-1R0



ASPI-0530HI-1R5



ASPI-0530HI-2R2



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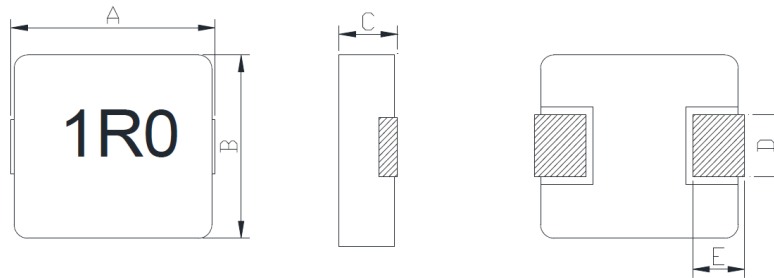


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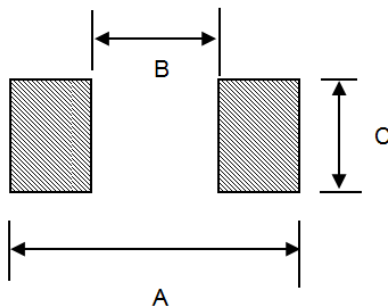
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Mechanical Specifications



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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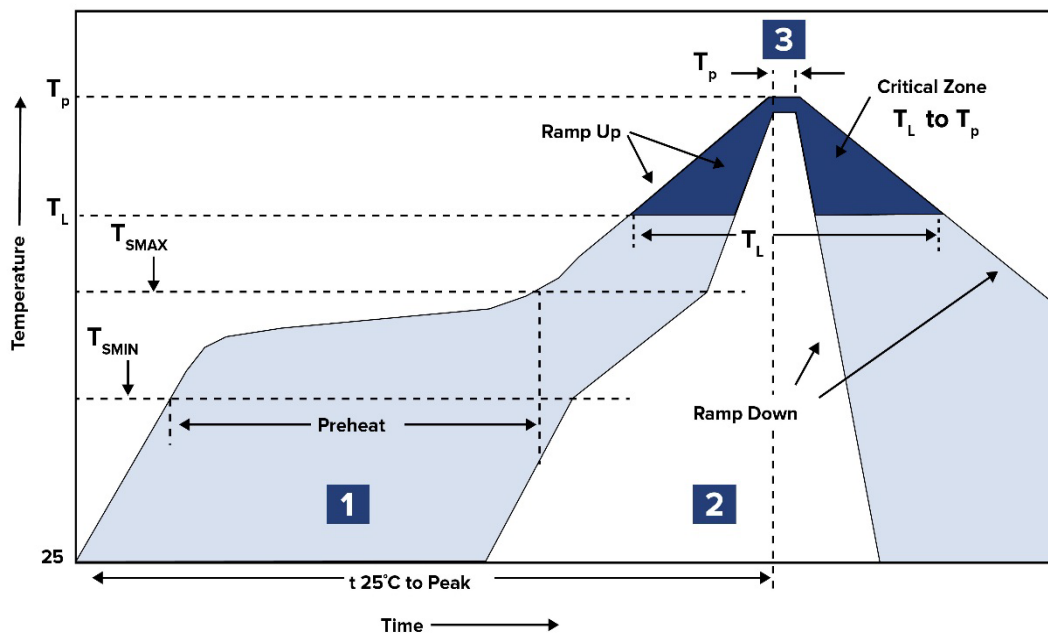


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Reflow Profile



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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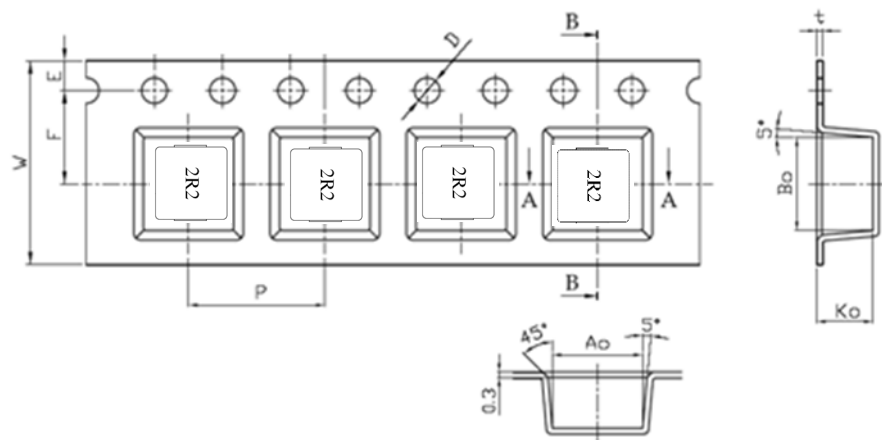
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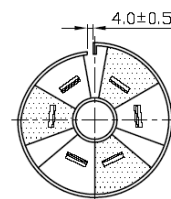
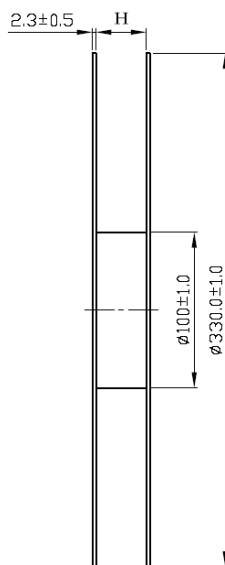
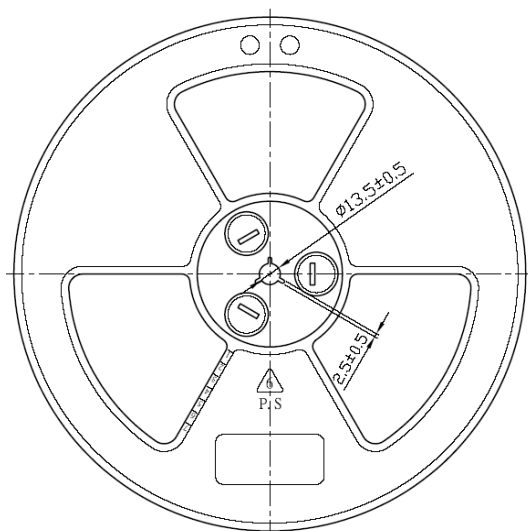
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Packaging

T2: 2,000pcs / reel



A0	5.7 ±0.3
B0	5.9 ±0.3
K0	3.4 ±0.3
P	8.0 ±0.1
t	0.4 Typ
W	12 ±0.3
E	1.75 ±0.1
F	5.5 ±0.1
D	1.5 ±0.1



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