Molding Type Power Inductor

ASPI-1040HI



FEATURES:

- High saturation current.
- Low loss due to low DC resistance.
- Frequency application up to 3MHz.
- Low profile with max thickness 4.0mm.
- •100% lead free and meeted RoHS standard.
- Suitable for reflow soldering.
- High reliable SMD package

STANDARD SPECIFICATIONS

Abracon P/N:	ASPI-1040HI 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	Α	Α
Symbol	L	М			Isat*	Irms*
ASPI-1040HI-R22	0.22	М	0.88	0.96	68.0	35.0
ASPI-1040HI-R47	0.47	М	1.55	1.70	40.0	30.0
ASPI-1040HI-1R0	1.00	М	3.00	3.30	28.0	18.0
ASPI-1040HI-4R7	4.70	М	17.00	20.20	15.0	8.5
ASPI-1040HI-100	10.00	М	27.00	30.00	8.5	7.5

Test Conditions

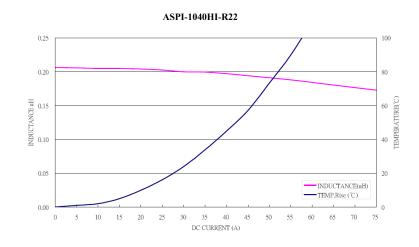
Inductance is measured in HP-4284A Precision LCR Meter.

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

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

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

ELECTRICAL CHARACTERISTIC CURVES





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> APPLICATIONS:

• DC/DC converters in Notebook, Netbook, desktop and server

RoHS

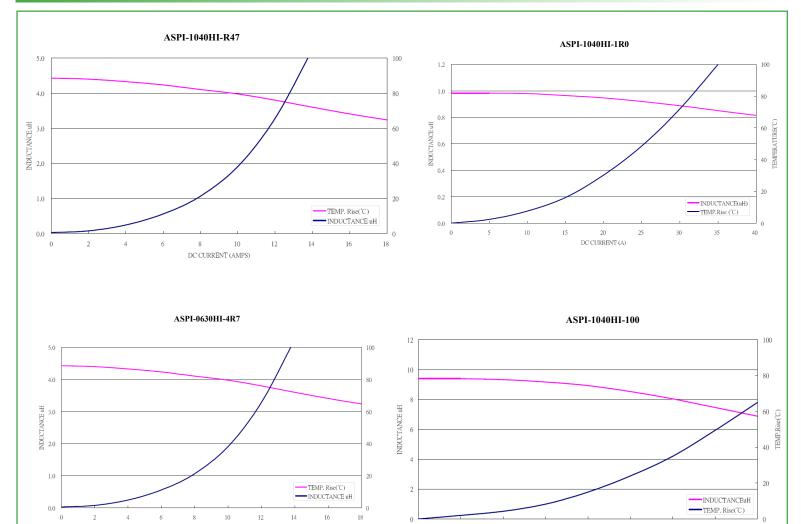
Compliant

• Low profile, high current power supplies.

Pb

ASPI-1040HI

> ELECTRICAL CHARACTERISTIC CURVES



0

2

3

4

DC CURRENT (A)

5

6

7

8

RoHS

Compliant

11.15 x 10.0 x 4.0 mm

Pb



DC CURRENT (AMPS)

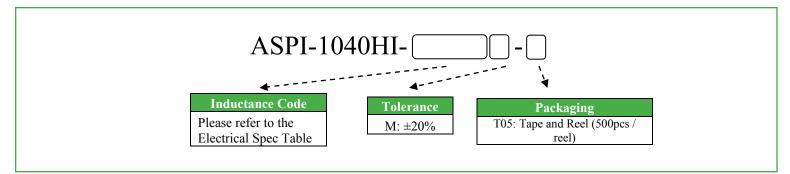
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ASPI-1040HI

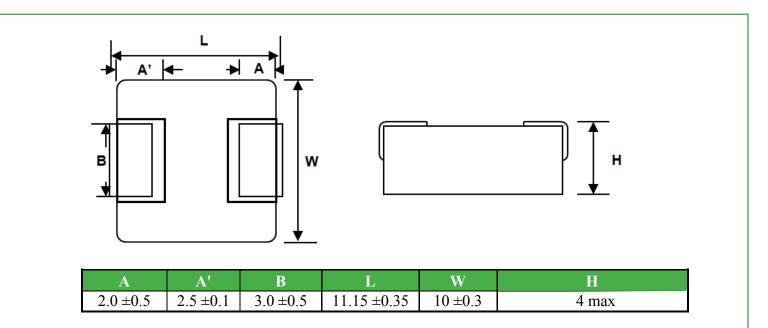


PART NUMBER IDENTIFICATION

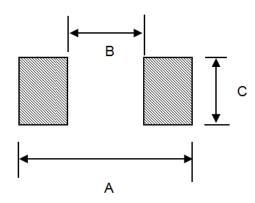


Pb

OUTLINE DRAWING:



Recommended Land Pattern



Α	В	С
13.6	5.4	4.1

Dimension: mm



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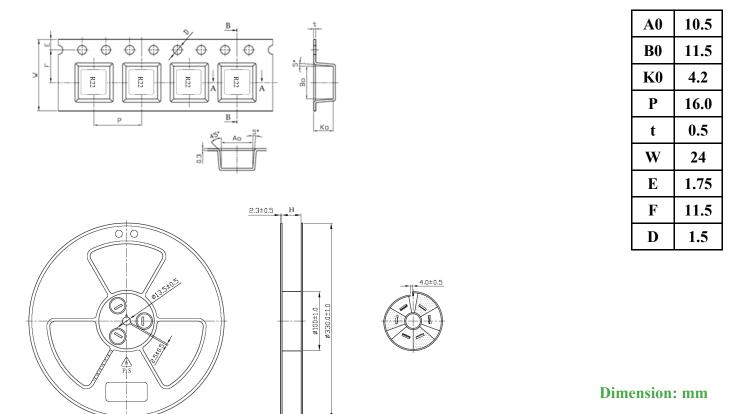
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Molding Type Power Inductor

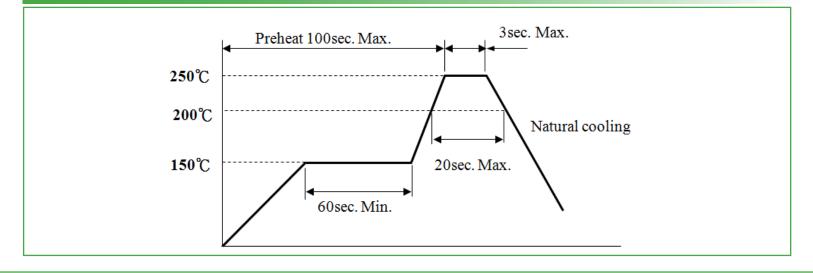
ASPI-1040HI

► TAPE & REEL:

T05: 500pcs / reel



REFLOW PROFILE:



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RoHS

Compliant