Molding Type Power Inductor

ASPI-1040HI



11.15 x 10.0 x 4.0 mm

RoHS Compliant

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

APPLICATIONS:

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

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	A	A
Symbol	L	M			Isat*	Irms*
ASPI-1040HI-R16	0.16	M	0.50	0.65	75.0	40.0
ASPI-1040HI-R22	0.22	M	0.88	0.96	68.0	35.0
ASPI-1040HI-R47	0.47	M	1.55	1.70	40.0	30.0
ASPI-1040HI-1R0	1.00	M	3.00	3.30	28.0	18.0
ASPI-1040HI-4R7	4.70	M	17.00	20.20	15.0	8.5
ASPI-1040HI-100	10.00	M	27.00	30.00	8.5	7.5

Test Conditions

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

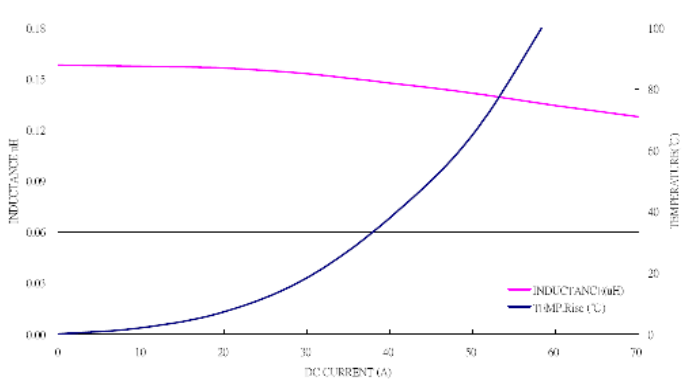
RDC is measured in HP-4338B milli ohm meter.(or equivalent).

. Isat: Based on inductance change (ΔL/Lo : ≤ -20%)

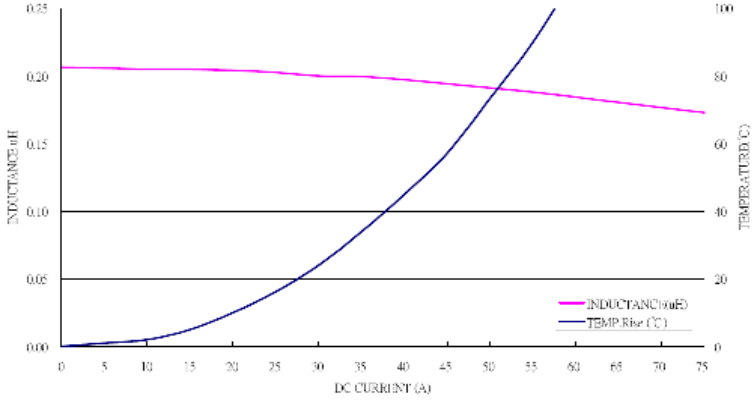
. Irms: Based on temperature rise (ΔT : 40°C TYP.)

ELECTRICAL CHARACTERISTIC CURVES

ASPI-1040HI-R16



ASPI-1040HI-R22



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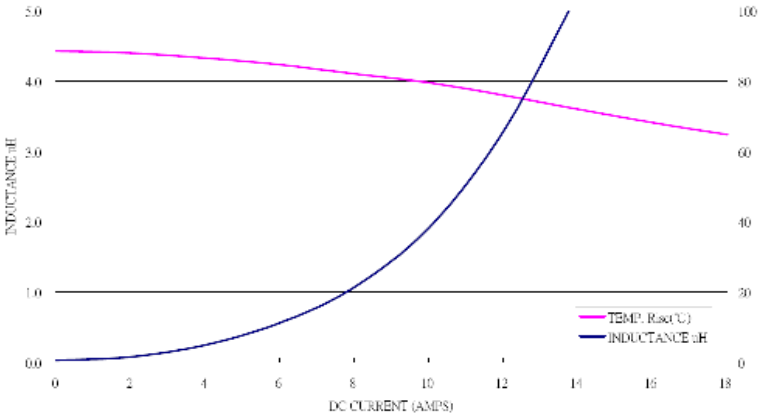


11.15 x 10.0 x 4.0 mm

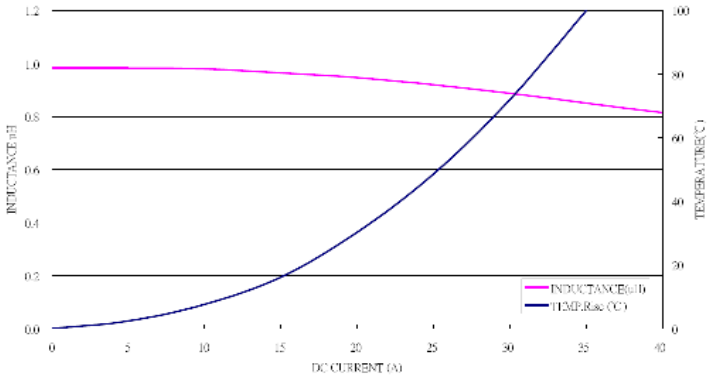
Pb RoHS Compliant

ELECTRICAL CHARACTERISTIC CURVES

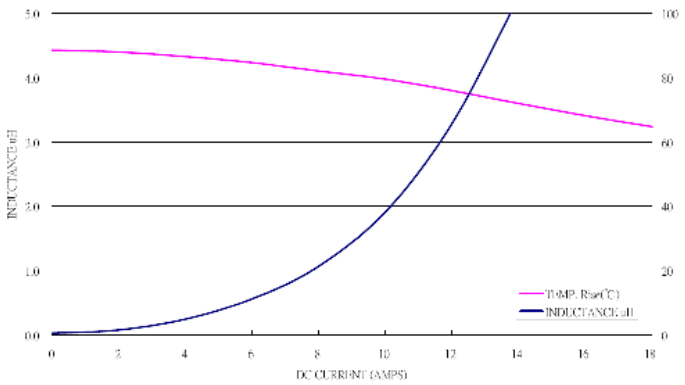
ASPI-1040HI-R47



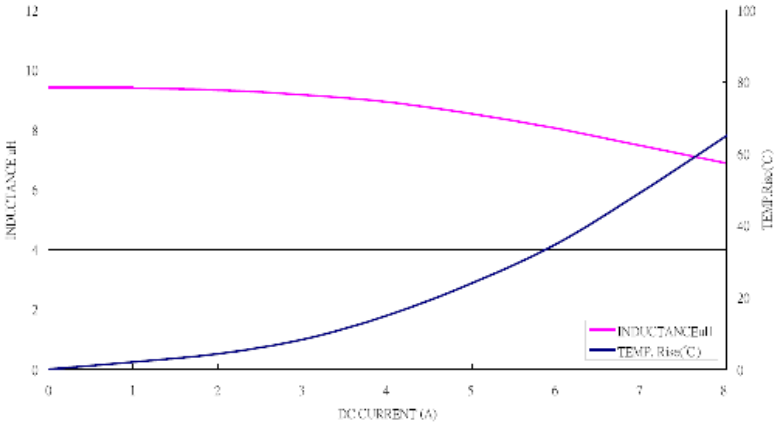
ASPI-1040HI-1R0



ASPI-0630HI-4R7



ASPI-1040HI-100



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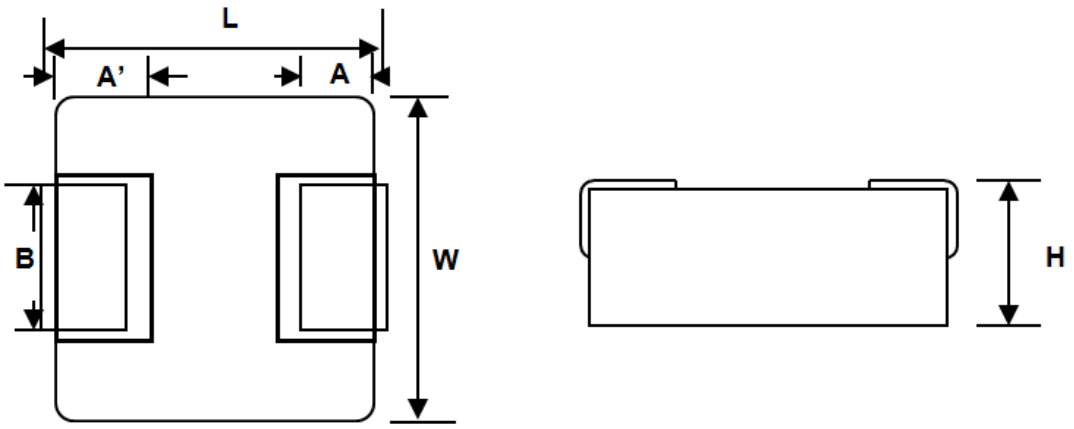
Pb RoHS Compliant

PART NUMBER IDENTIFICATION

ASPI-1040HI-□□-□

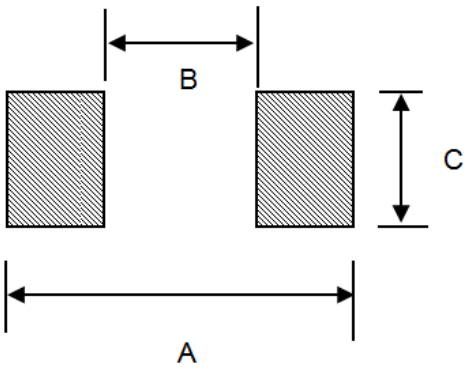
Inductance Code	Tolerance	Packaging
Please refer to the Electrical Spec Table	M: ±20%	T05: Tape and Reel (500pcs / reel)

OUTLINE DRAWING:



A	A'	B	L	W	H
2.0 ±0.5	2.5 ±0.1	3.0 ±0.5	11.15 ±0.35	10 ±0.3	4 max (4.0 ±0.25 for R16)

Recommended Land Pattern



A	B	C
13.6	5.4	4.1

Dimension: mm

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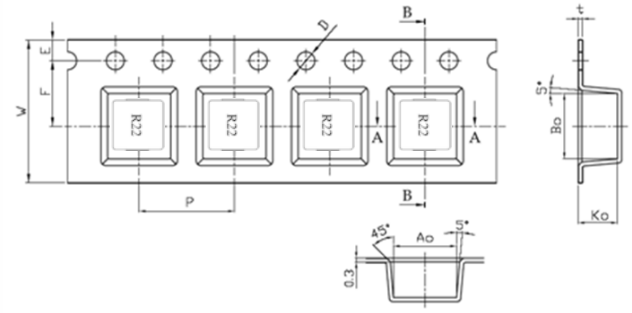


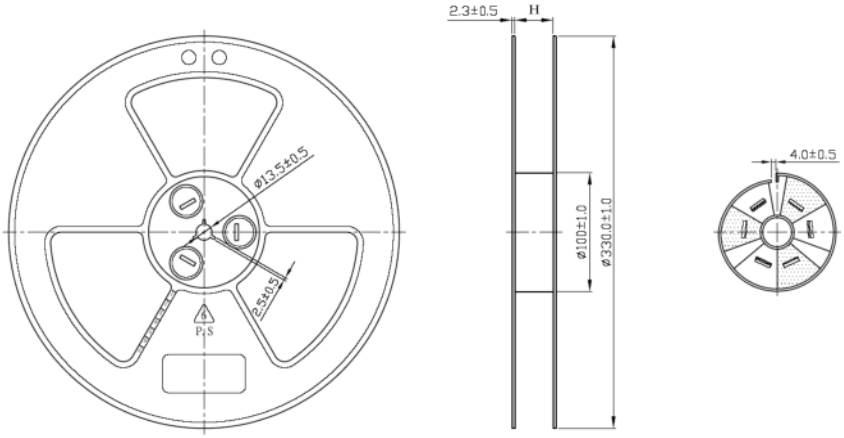
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TAPE & REEL:

T05: 500pcs / reel

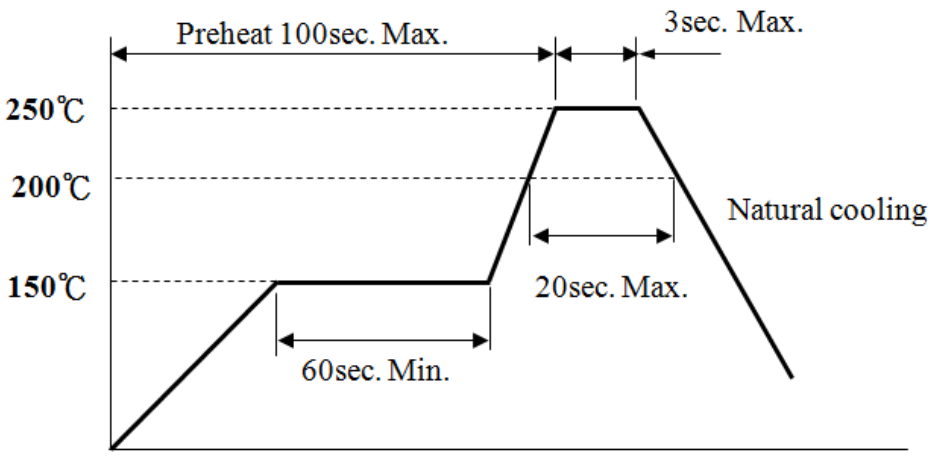




A0	10.5
B0	11.5
K0	4.2
P	16.0
t	0.5
W	24
E	1.75
F	11.5
D	1.5

Dimension: mm

REFLOW PROFILE:



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