Molding Type Power Inductor

ASPI-0630HI

RoHS Compliant

7.2 x 6.65 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 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-0630HI 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

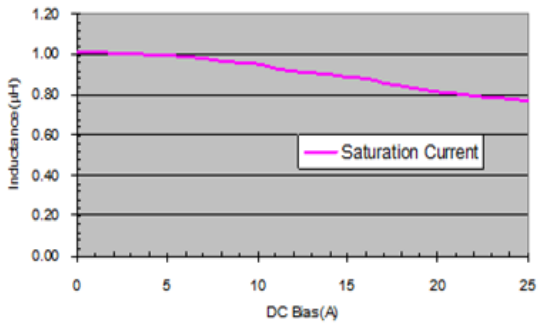
Part Number	Inductance	Tolerance	DCR Typ	DCR Max	Saturation Current	Temperature Rise Current
Units	µH	%	mΩ	mΩ	A	A
Symbol	L	M			Isat	Irms
ASPI-0630HI-1R0	1.0	M	9.0	10.0	20.5	11.0
ASPI-0630HI-1R5	1.5	M	14.0	15.0	17.0	9.0
ASPI-0630HI-2R2	2.2	M	18.0	20.0	14.0	8.0
ASPI-0630HI-3R3	3.3	M	28.0	30.0	13.5	6.8
ASPI-0630HI-4R7	4.7	M	37.0	40.0	10.0	5.5
ASPI-0630HI-6R8	6.8	M	54.0	60.0	8.0	4.5
ASPI-0630HI-100	10.0	M	102.0	105.0	7.0	3.0

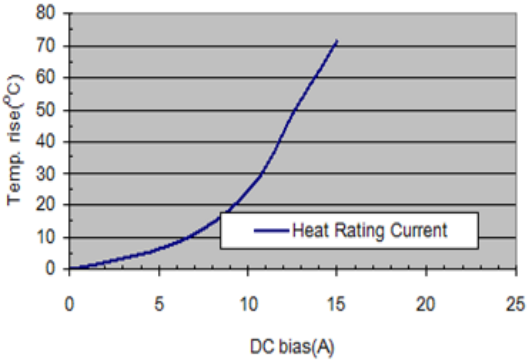
Test Conditions

Inductance is measured in HP-4285A 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 CU

ASPI-0630HI-1R0





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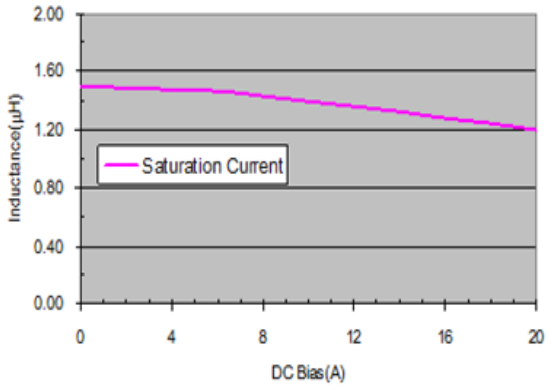
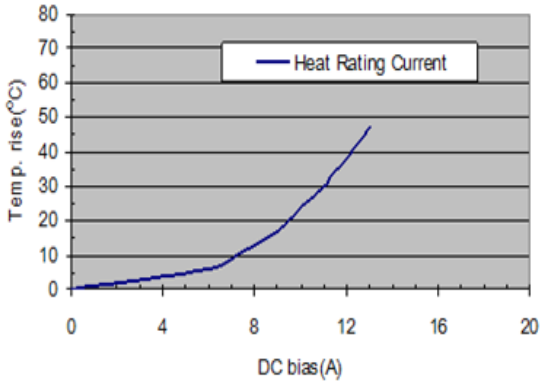
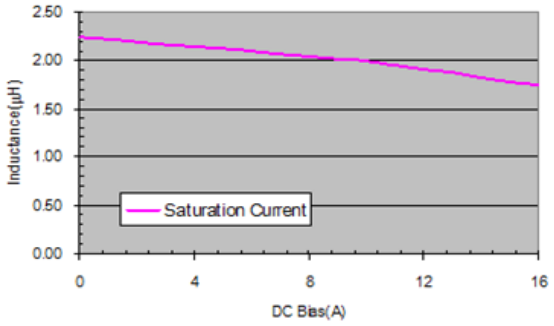
ELECTRICAL CHARACTERISTIC CURVES

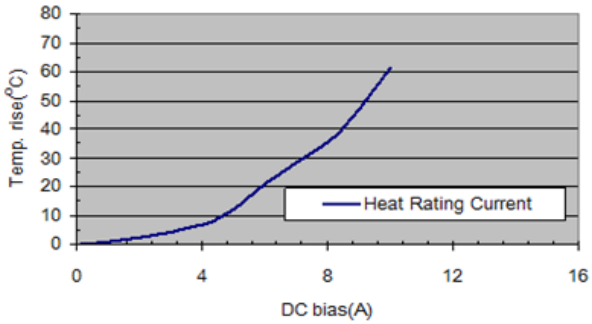
ASPI-0630HI-1R5



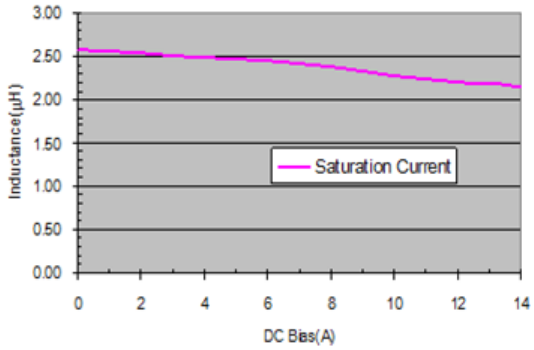


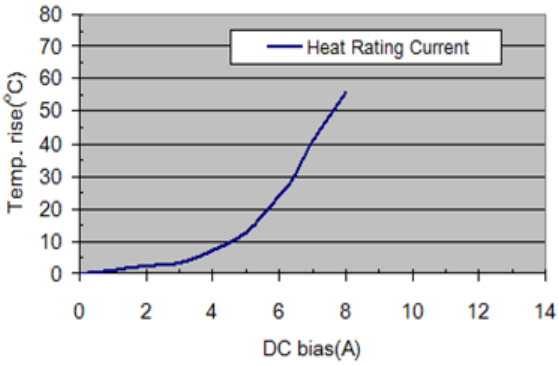
ASPI-0630HI-2R2





ASPI-0630HI-3R3





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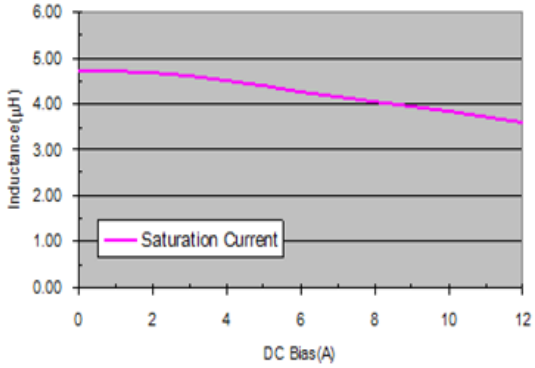
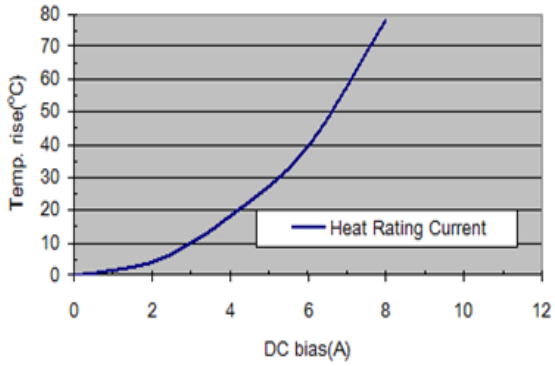
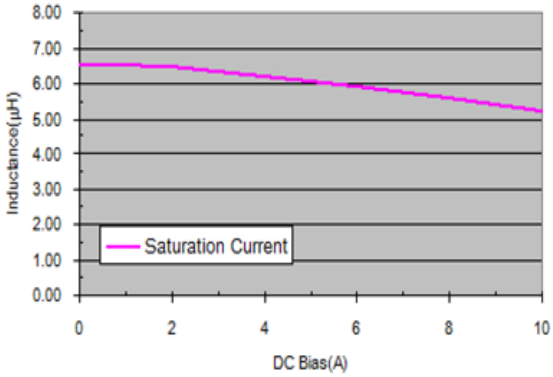
ELECTRICAL CHARACTERISTIC CURVES

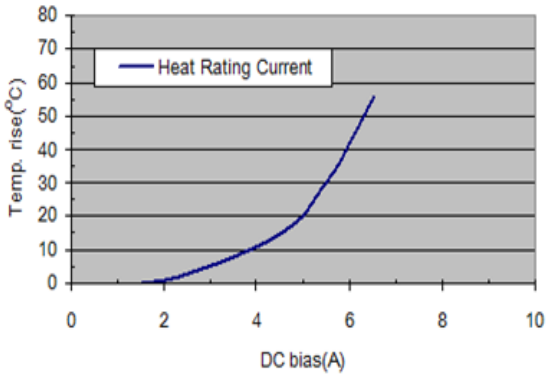
ASPI-0630HI-4R7



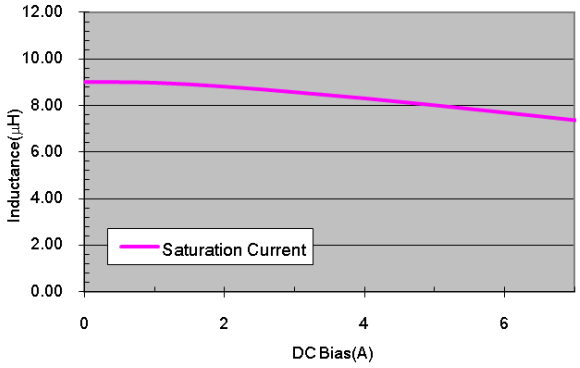


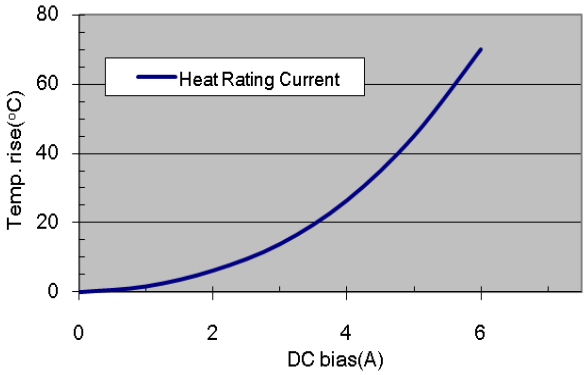
ASPI-0630HI-6R8





ASPI-0630HI-100





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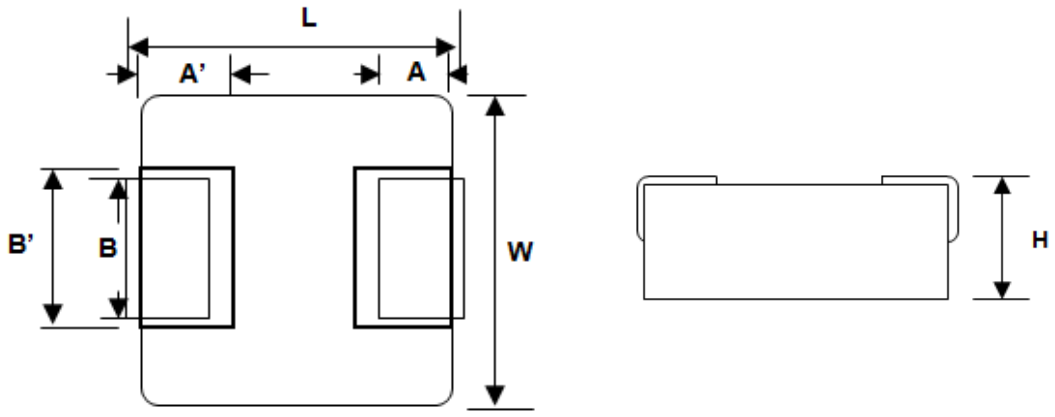
PART NUMBER IDENTIFICATION

ASPI-0630HI- [ ] [ ] - [ ]

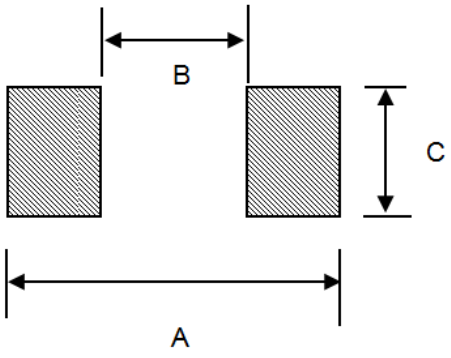
Inductance Code	Tolerance	Packaging
Please refer to the Electrical Spec Table	M: ±20%	T15: Tape and Reel (1.5kpcs / reel)

OUTLINE DRAWING:



A	A'	B	B'	L	W	H max
1.6 ±0.4	2.0 ±0.1	3.0 ±0.3	3.4 ±0.2	7.2 ±0.3	6.65 ±0.2	3.0

Recommended Land Pattern



A	B	C
8.4	3.7	3.4

Dimension: mm

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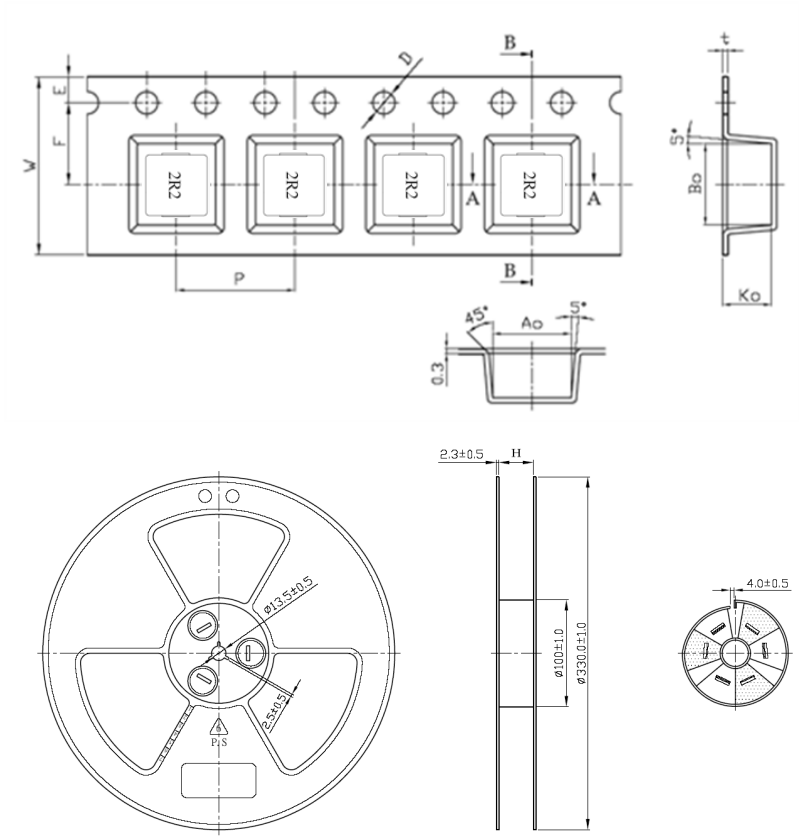
TAPE & REEL:

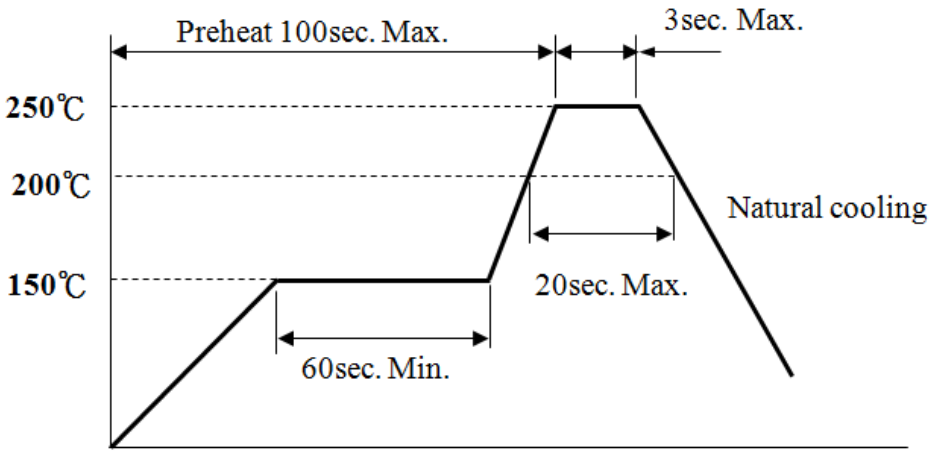
T1: 1,500pcs / reel



A0	7.2
B0	7.5
K0	3.6
P	12.0
t	0.3
W	16
E	1.75
F	7.5
D	1.5

Dimension: mm

REFLOW PROFILE:



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