Molding Type Power Inductor

ASPI-0530LR

5.6 x 5.2 x 3.0 mm

Pb RoHS Compliant

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-0530LR 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

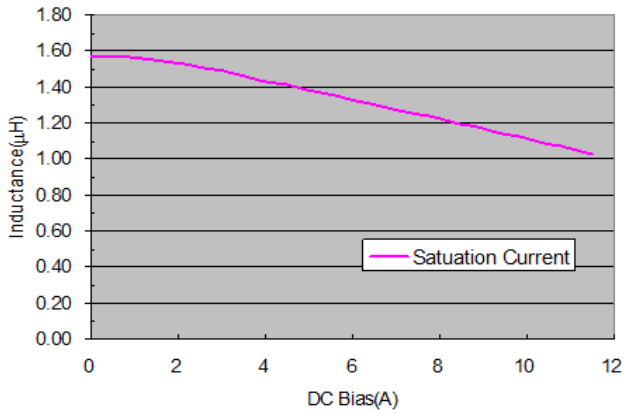
Part Number	Inductance	Tolerance	DCR Typ	DCR Max	Saturation Current	Temperature Rise Current
Units	µH	%	mΩ	mΩ	A	A
Symbol	L	M			Isat	Irms
ASPI-0530LR-1R5	1.5	M	18.5	20.0	7.0	8.0
ASPI-0530LR-2R2	2.2	M	24.0	26.0	5.5	7.0
ASPI-0530LR-3R3	3.3	M	32.0	36.0	5.0	6.5
ASPI-0530LR-4R7	4.7	M	54.0	60.0	4.5	4.5
ASPI-0530LR-5R6	5.6	M	55.0	65.0	4.0	4.5

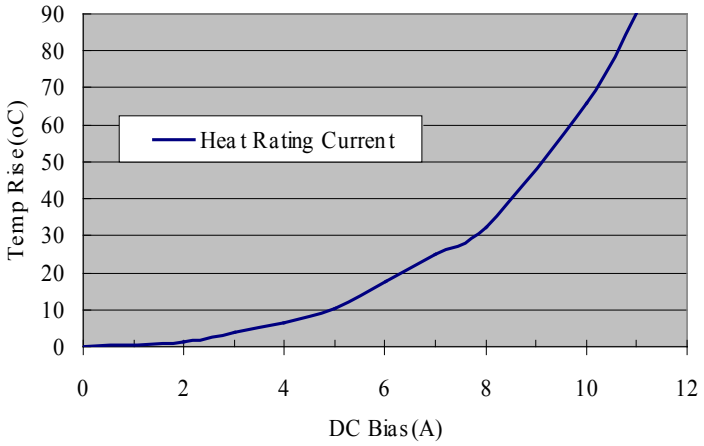
Test Conditions

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-0530LR-1R5





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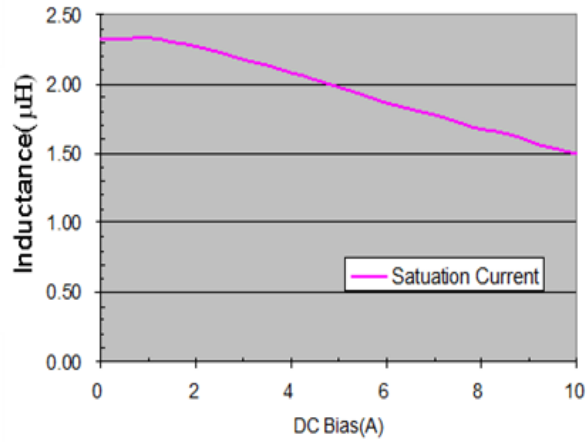
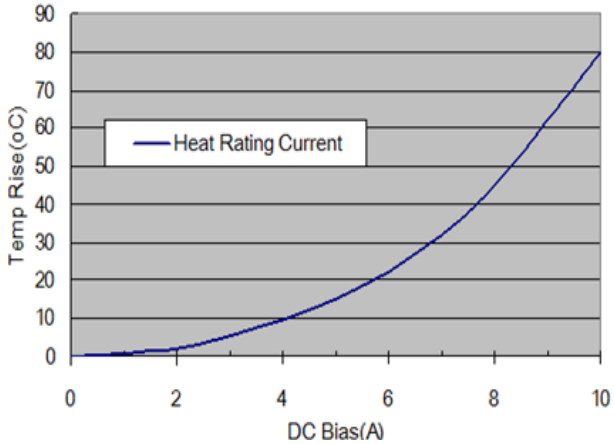
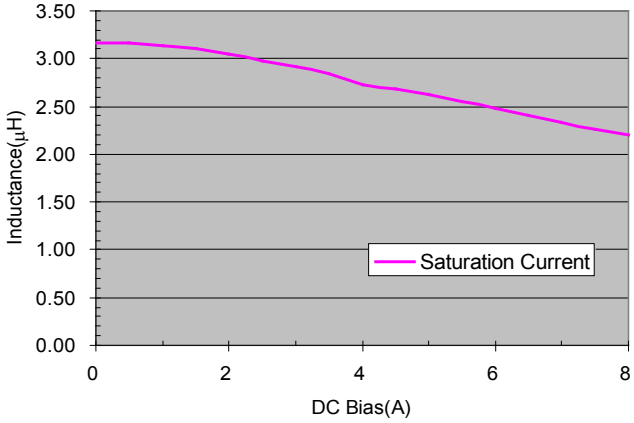
ELECTRICAL CHARACTERISTIC CURVES

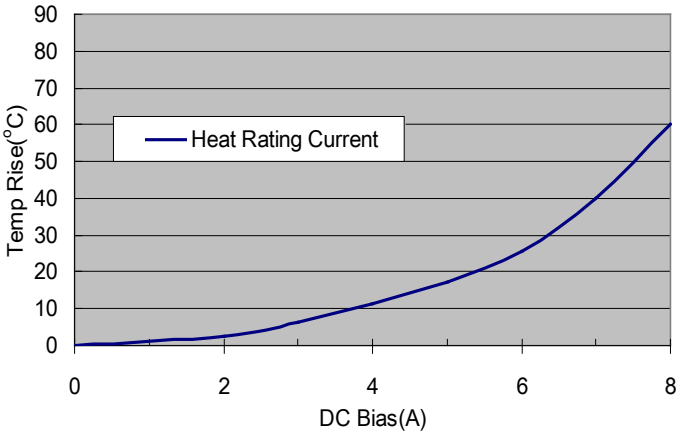
ASPI-0530LR-2R2



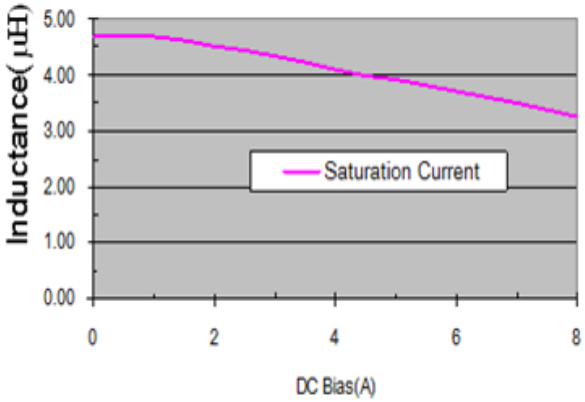


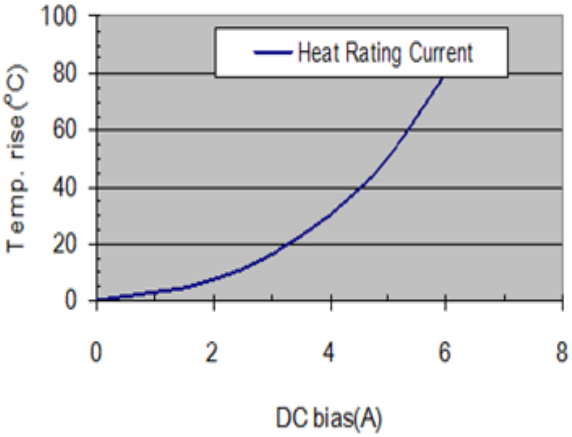
ASPI-0530LR-3R3





ASPI-0530LR-4R7





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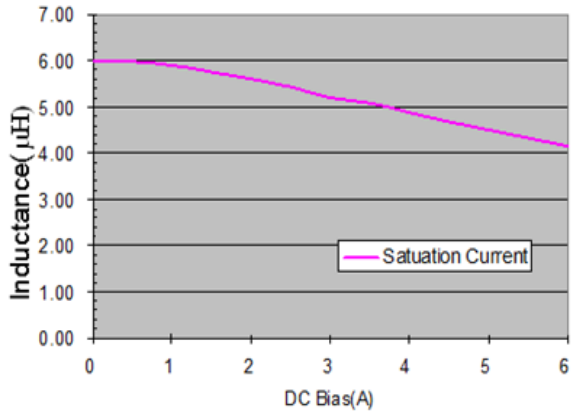
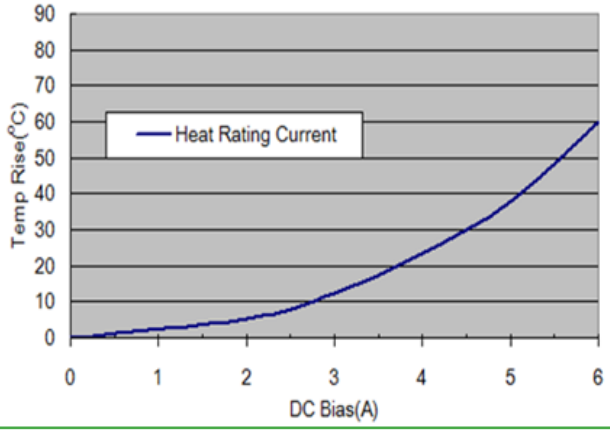
ELECTRICAL CHARACTERISTIC CURVES

ASPI-0530LR-5R6



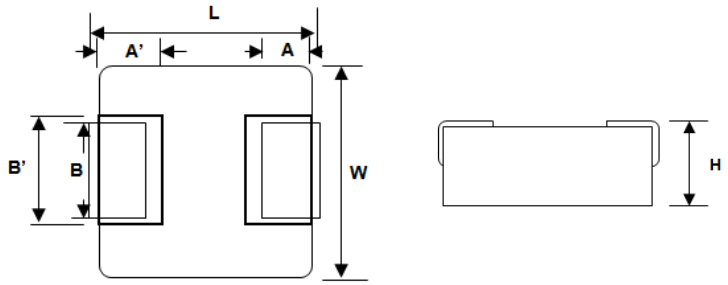


PART NUMBER IDENTIFICATION

ASPI-0530LR- [ ] [ ] - [ ]

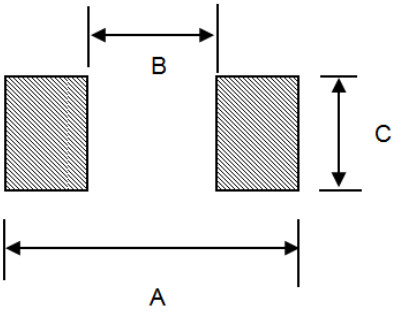
Inductance Code	Tolerance	Packaging
Please refer to the Electrical Spec Table	M: ±20%	T2: Tape and Reel (2kpcs / reel)

OUTLINE DRAWING:



A	A'	B	B'	L	W	H max
1.0 ±0.4	1.5 ±0.1	2.0 ±0.3	2.5 ±0.2	5.60 ±0.35	5.2 ±0.2	3.0

Recommended Land Pattern



A	B	C
5.99	2.2	2.5

Dimension: mm

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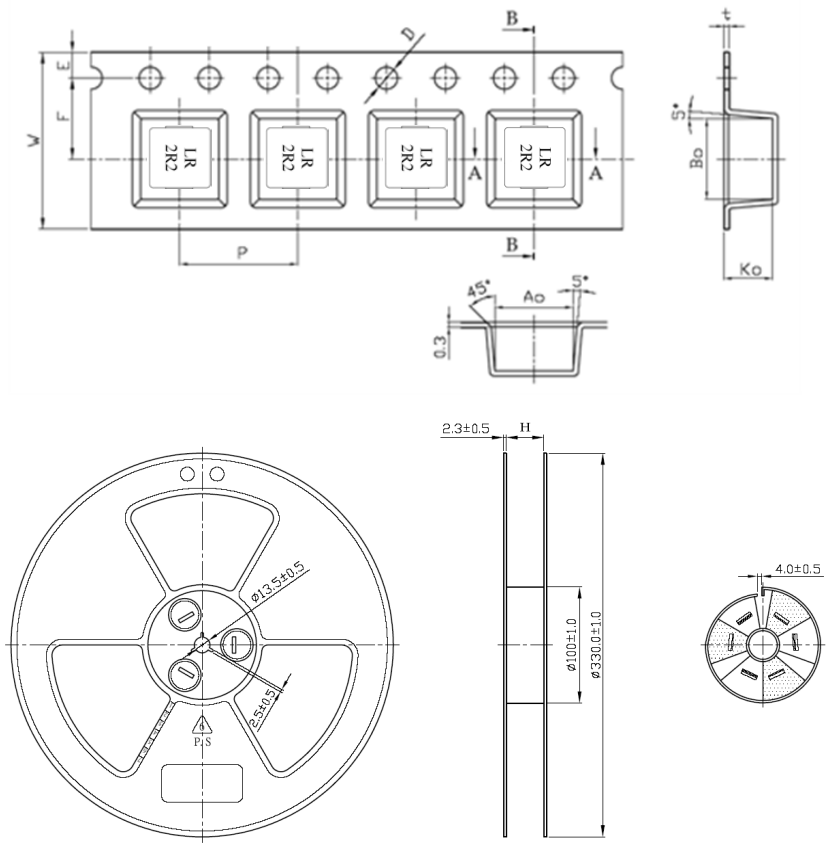
TAPE & REEL:

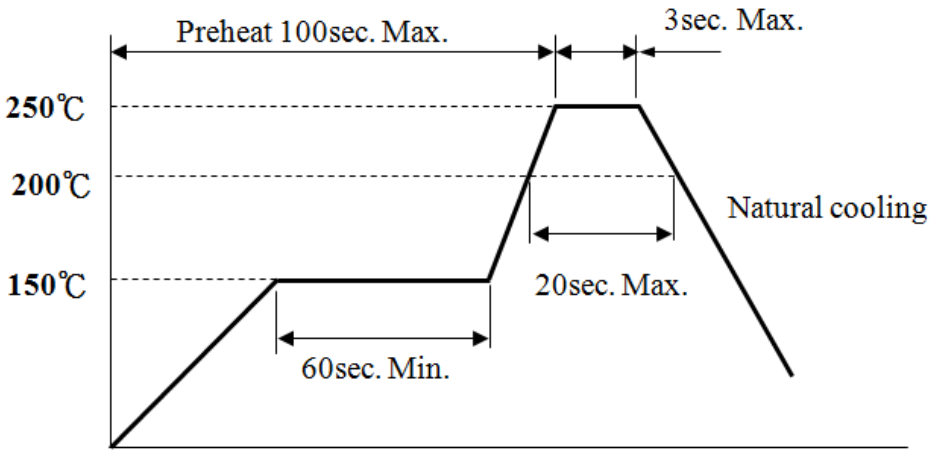
T2: 2,000pcs / reel



A0	5.3
B0	5.5
K0	3.3
P	8.0
t	0.4
W	12
E	1.75
F	5.5
D	1.5

Dimension: mm

REFLOW PROFILE:



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