

# Molding Type Power Inductor

ASPI-0520LR



RoHS  
Compliant



5.6 x 5.2 x 2.0 mm

## FEATURES:

- High saturation current.
- Low loss due to low DC resistance.
- Frequency application up to 3MHz.
- Low profile with max thickness 2.0mm.
- 100% lead free and metted 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-0520LR 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-0520LR-1R0	1.0	M	16.8	18.5	8.0	7.5
ASPI-0520LR-2R2	2.2	M	33.0	36.0	5.0	5.5
ASPI-0520LR-3R3	3.3	M	45.0	50.0	4.2	4.5
ASPI-0520LR-4R7	4.7	M	52.0	58.0	3.7	3.7
ASPI-0520LR-5R6	5.6	M	65.0	75.0	3.3	3.5

## Test Conditions

Inductance is measured in HP-4285A Precision LCR Meter.

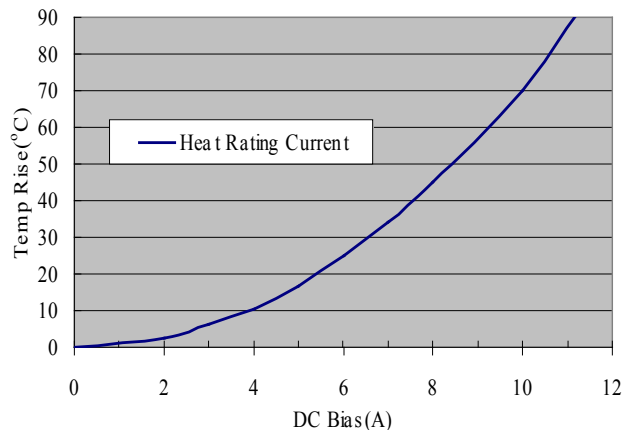
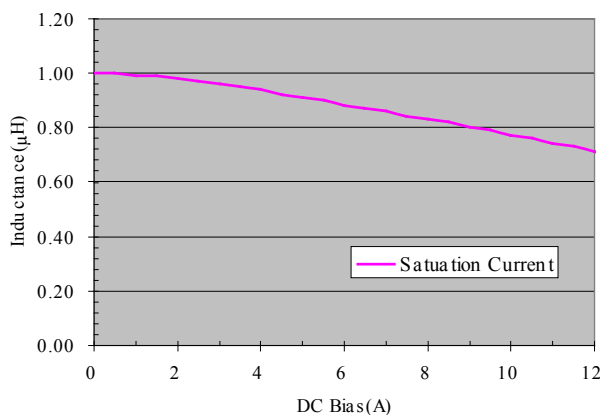
RDC is measured in HP-4338B milli ohm meter.(or equivalent).

Isat: Based on inductance change ( $\Delta L/L_0 : \leq -20\%$ )

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

## ELECTRICAL CHARACTERISTIC CURVES

ASPI-0520LR-1R0



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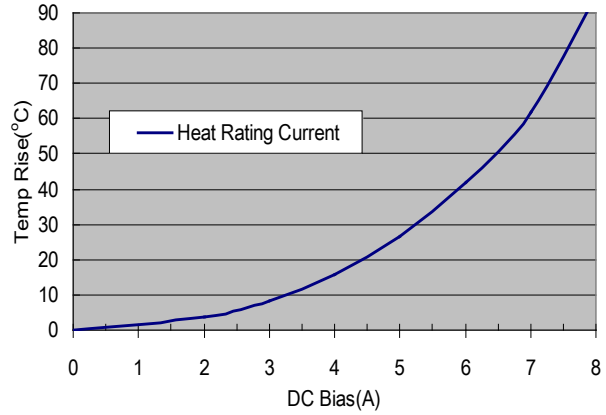
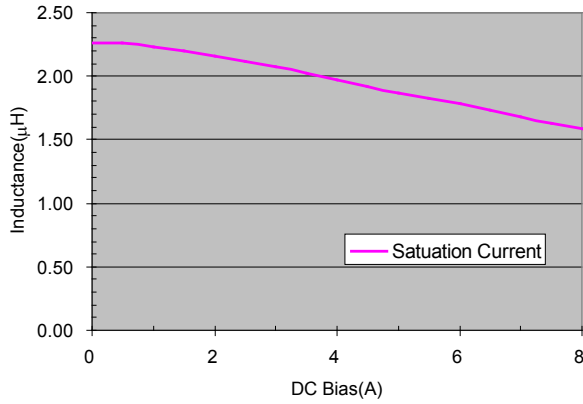
RoHS  
Compliant



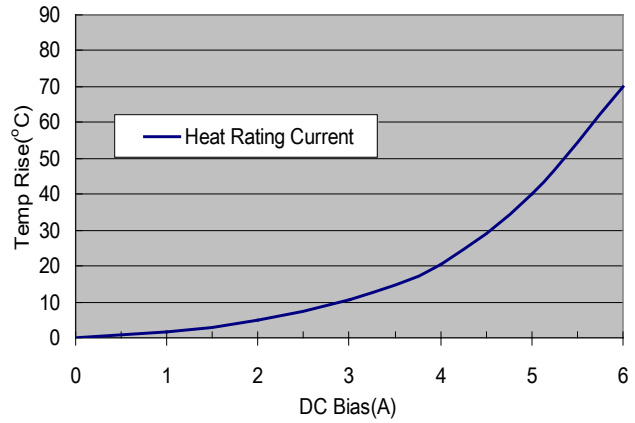
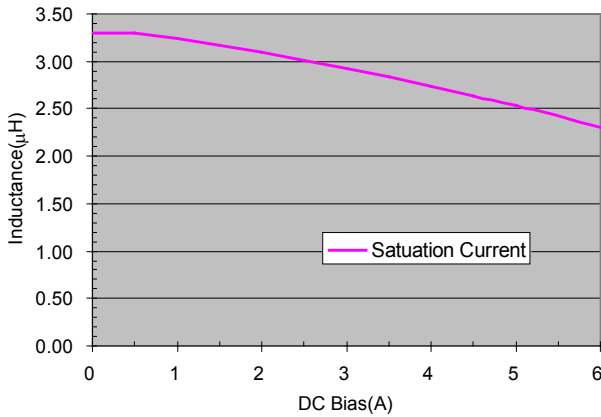
5.6 x 5.2 x 2.0 mm

## ELECTRICAL CHARACTERISTIC CURVES

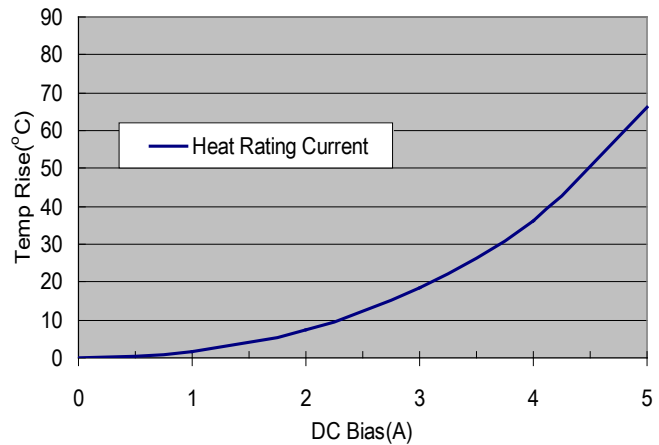
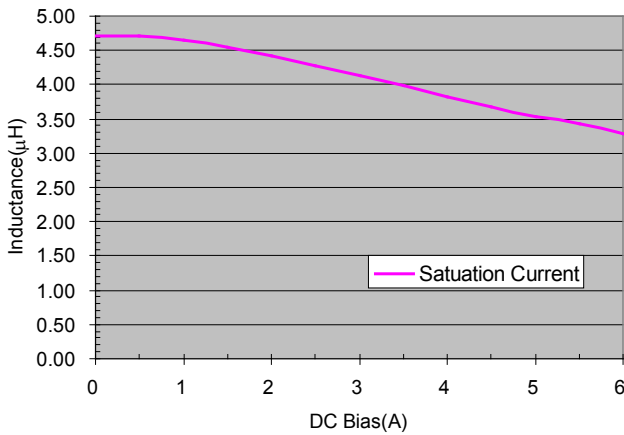
ASPI-0520LR-2R2



ASPI-0520LR-3R3

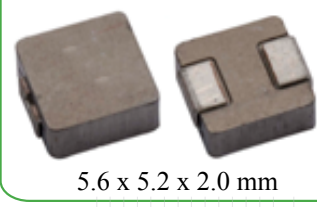


ASPI-0520LR-4R7

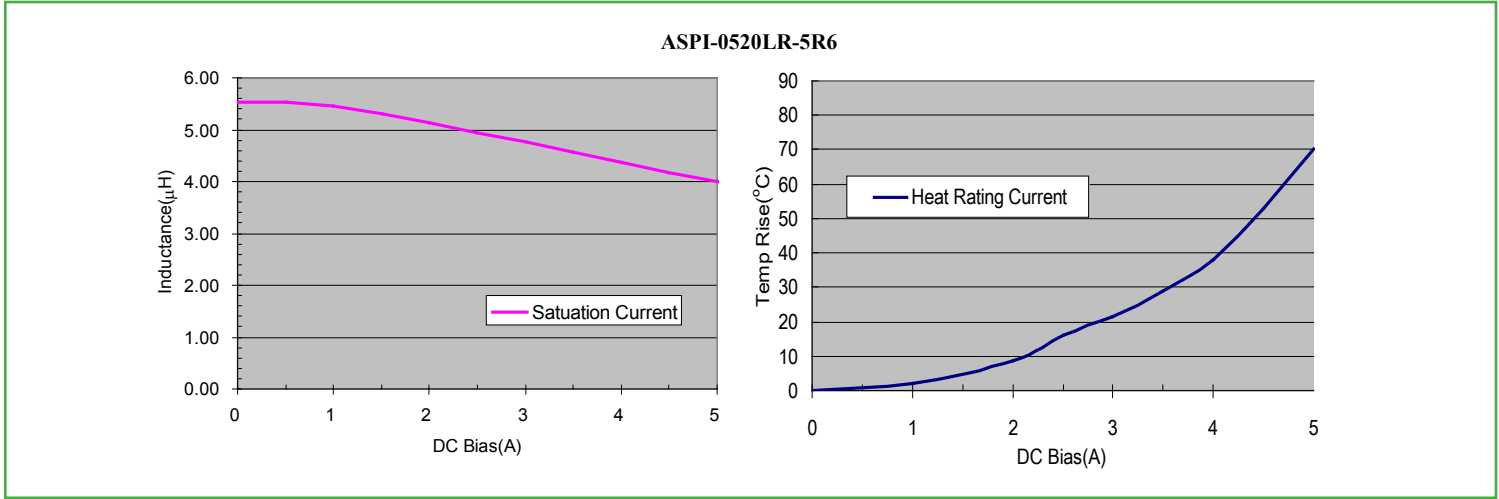


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## ELECTRICAL CHARACTERISTIC CURVES



## PART NUMBER IDENTIFICATION

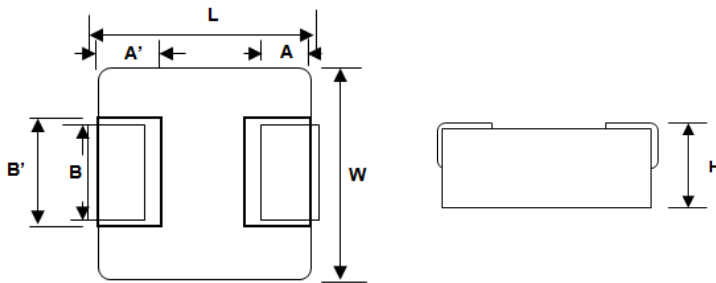
ASPI-0520LR-       -   

**Inductance Code**  
Please refer to the Electrical Spec Table

**Tolerance**  
M: ±20%

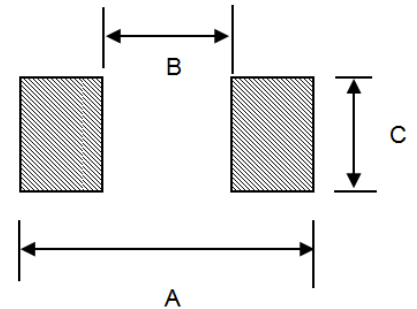
**Packaging**  
T2: Tape and Reel (2kpcs / reel)

## OUTLINE DRAWING:



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

## Recommended Land Pattern



A	B	C
5.99	2.2	2.5

Dimension: mm

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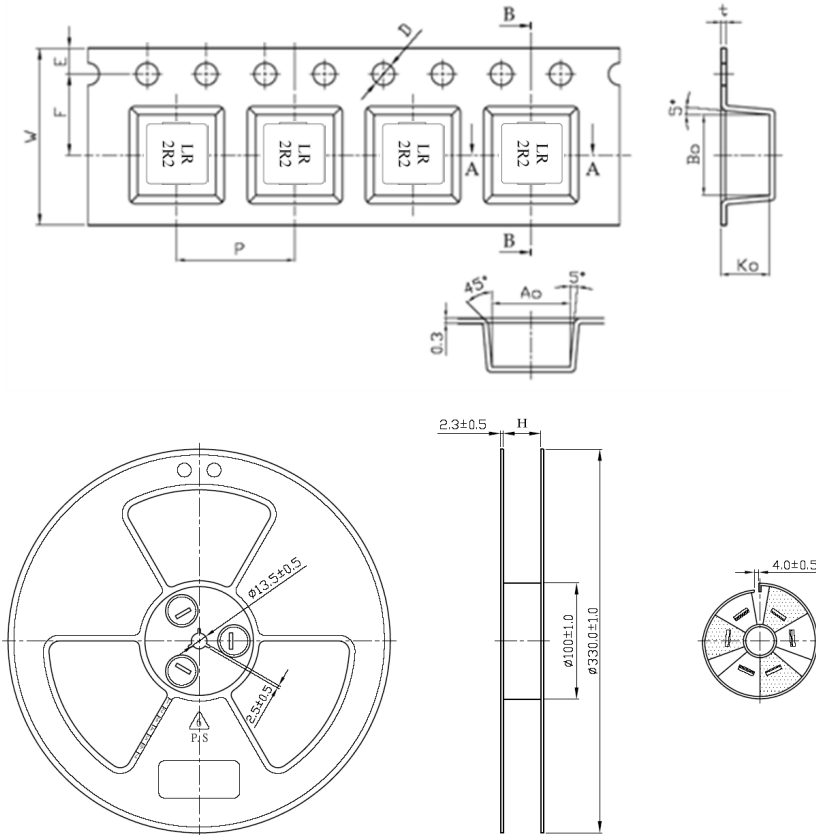
RoHS  
Compliant



5.6 x 5.2 x 2.0 mm

## TAPE & REEL:

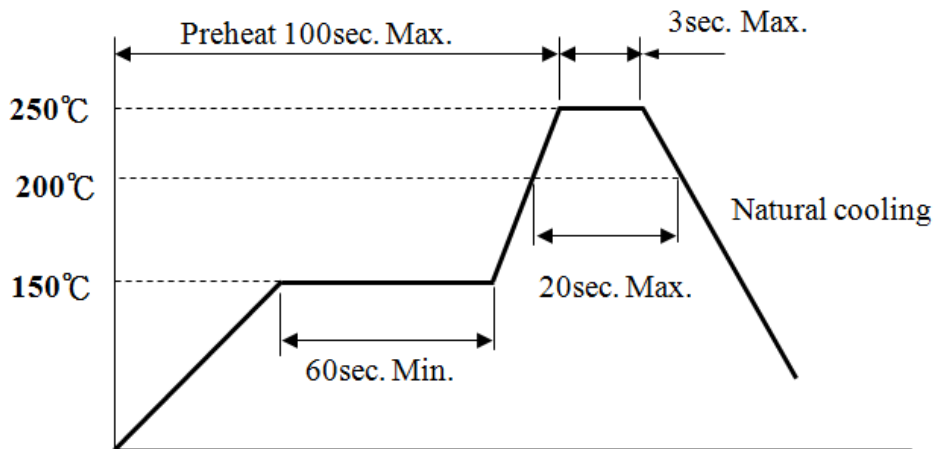
T2: 2,000pcs / reel



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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