



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



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.

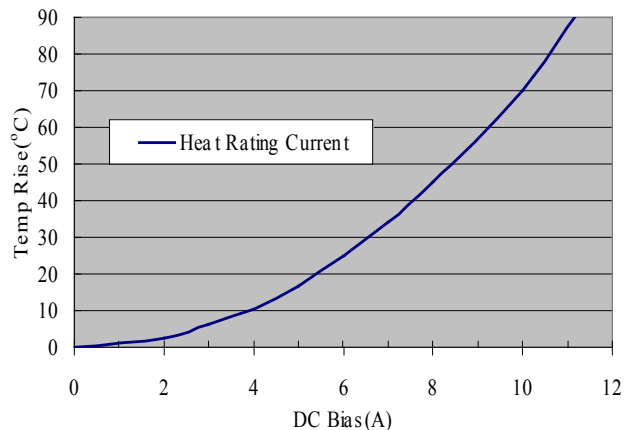
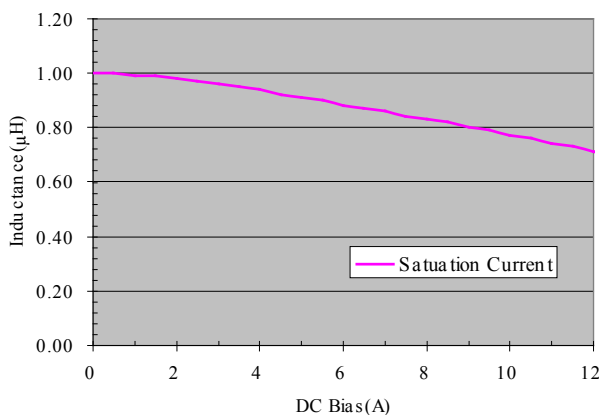
RDC is measured in HP-4338B milli ohm meter.(or equivalent).

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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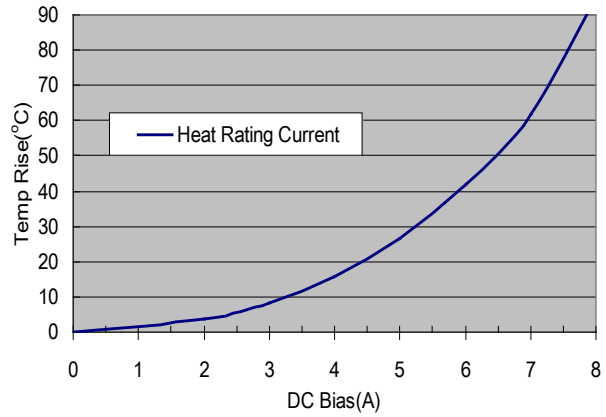
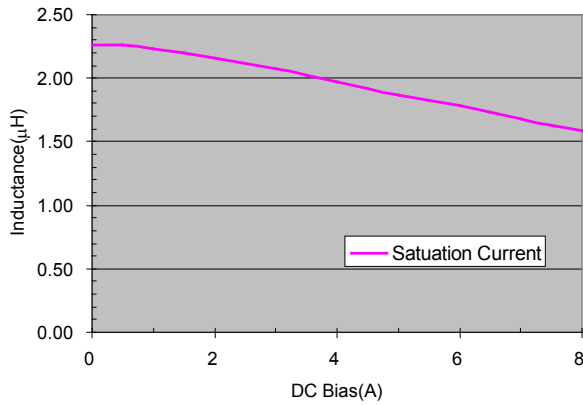
RoHS
Compliant



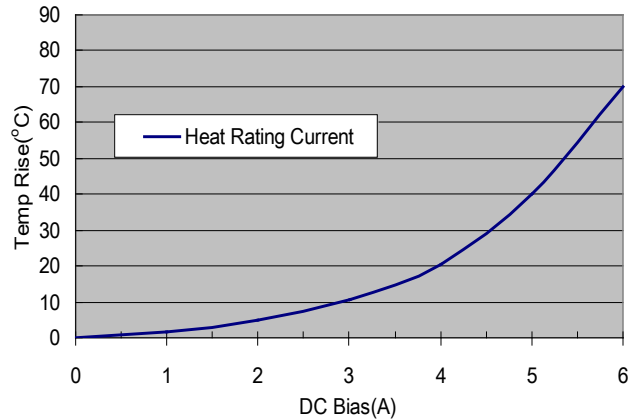
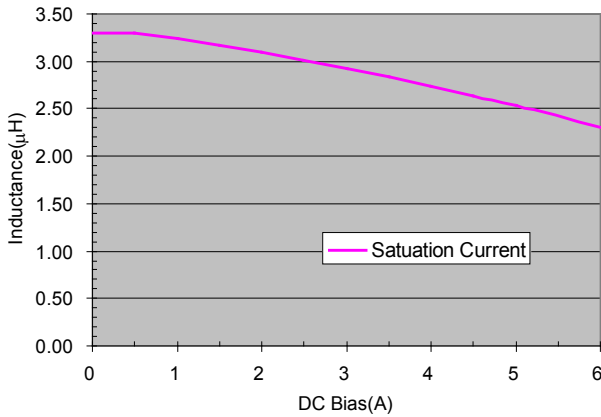
5.6 x 5.2 x 2.0 mm

ELECTRICAL CHARACTERISTIC CURVES

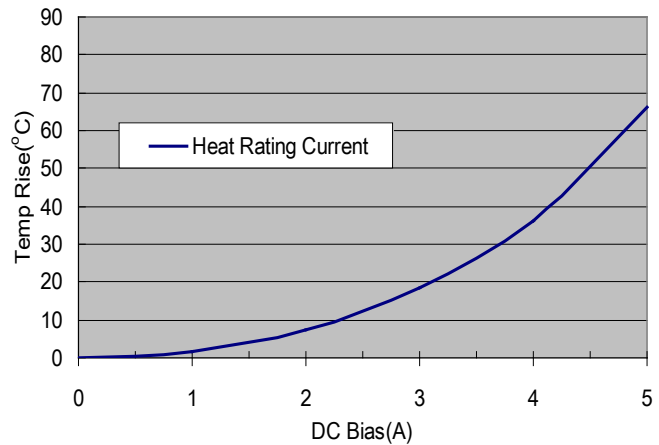
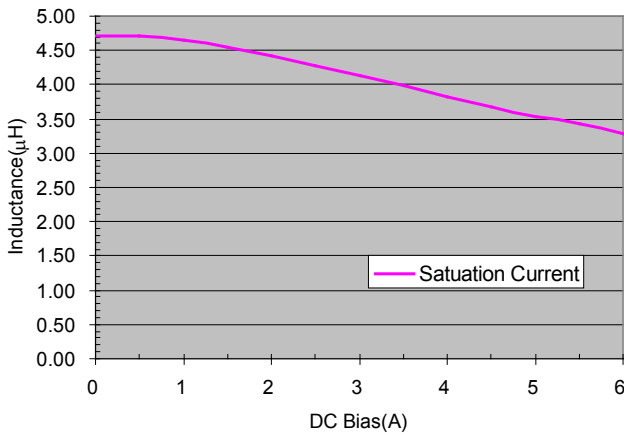
ASPI-0520LR-2R2



ASPI-0520LR-3R3



ASPI-0520LR-4R7

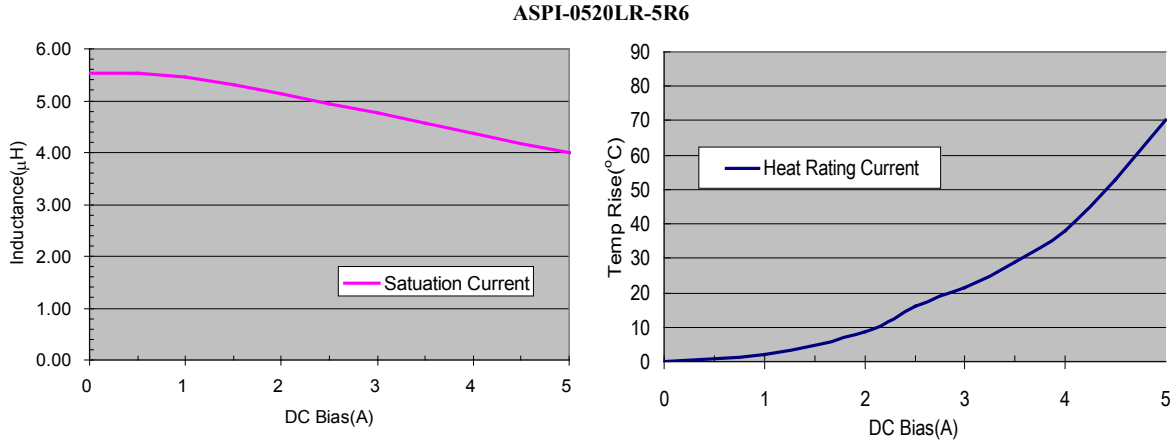


Molding Type Power Inductor

ASPI-0520LR



ELECTRICAL CHARACTERISTIC CURVES



PART NUMBER IDENTIFICATION

ASPI-0520LR- -

Inductance Code

Please refer to the Electrical Spec Table

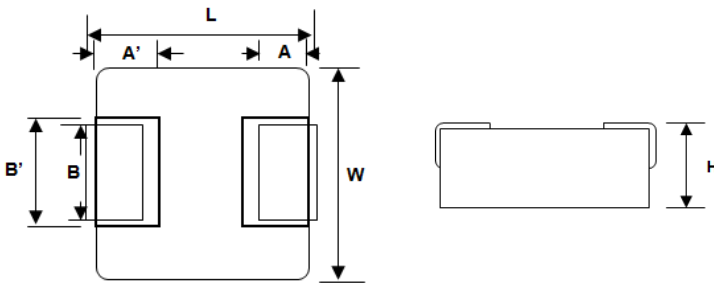
Tolerance

M: ±20%

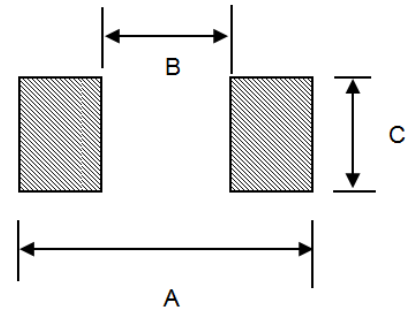
Packaging

T2: Tape and Reel (2kpcs / reel)

OUTLINE DRAWING:



Recommended Land Pattern



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

A	B	C
5.99	2.2	2.5

Dimension: mm

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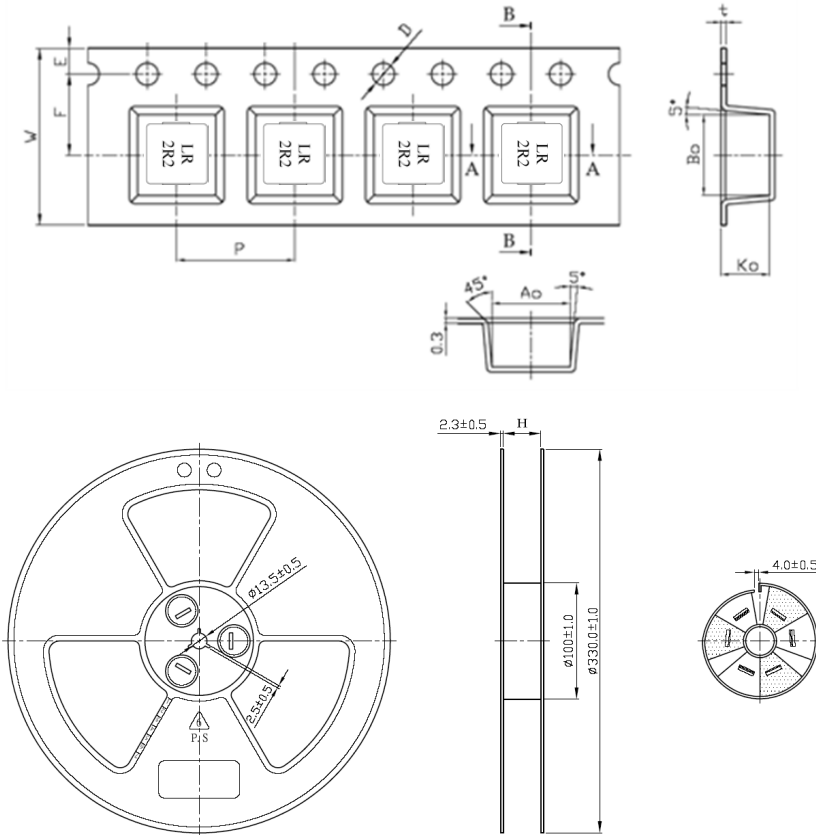
RoHS
Compliant



5.6 x 5.2 x 2.0 mm

TAPE & REEL:

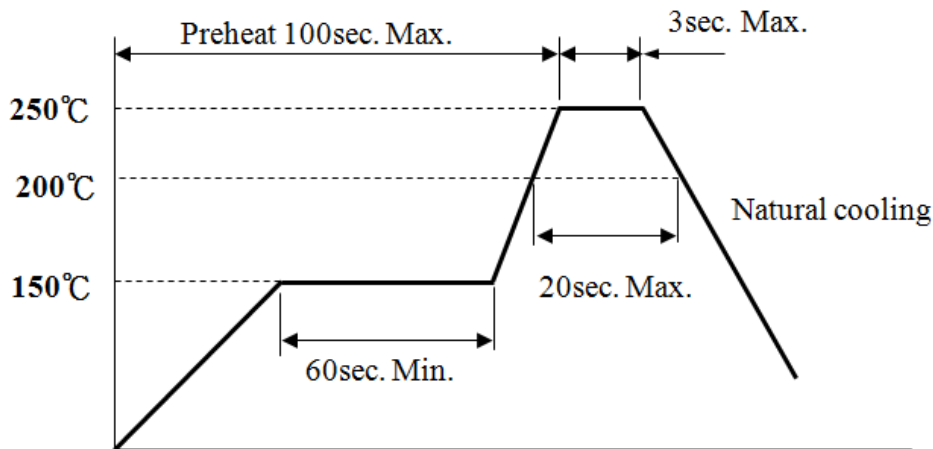
T2: 2,000pcs / reel



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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