



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!



Contact us

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Email & Skype: info@chipsmall.com Web: www.chipsmall.com

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



Molding Type Power Inductor

ASPI-0630LR



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 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

Abrakon P/N:	ASPI-0630LR 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

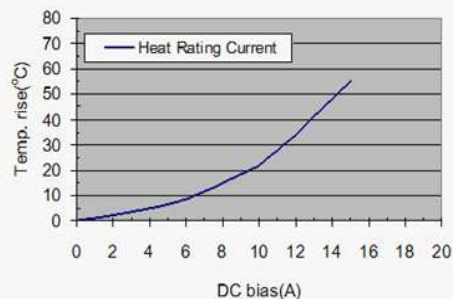
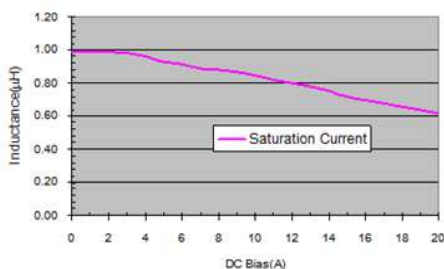
Part Number	Inductance	Tolerance	DCR Typ	DCR Max	Saturation Current	Temperature Rise Current
Units	μH	%	mΩ	mΩ	A	A
Symbol	L	M			Isat	Irms
ASPI-0630LR-R47	0.47	M	3.5	4.1	20.0	18.0
ASPI-0630LR-R56	0.56	M	4.7	5.0	18.0	17.0
ASPI-0630LR-R68	0.68	M	6.0	6.5	17.0	16.0
ASPI-0630LR-R82	0.82	M	7.0	7.5	16.0	14.0
ASPI-0630LR-1R0	1.0	M	8.5	9.0	15.0	12.0
ASPI-0630LR-1R5	1.5	M	10.5	12.0	14.0	10.0
ASPI-0630LR-2R2	2.2	M	16.0	18.5	10.0	8.0
ASPI-0630LR-3R3	3.3	M	25.0	28.0	10.0	6.5
ASPI-0630LR-4R7	4.7	M	32.5	35.0	6.5	5.5
ASPI-0630LR-5R6	5.6	M	32.5	35.5	5.0	6.0
ASPI-0630LR-6R8	6.8	M	54.0	60.0	6.0	4.5
ASPI-0630LR-100	10.0	M	62.0	68.0	5.5	4.0
ASPI-0630LR-150	15.0	M	110.0	120.0	5.0	3.0
ASPI-0630LR-220	22.0	M	152.0	167.0	2.5	2.5

Test Conditions

1. Inductance is measured in HP-4284A Precision LCR Meter.
2. RDC is measured in HP-4338B milli ohm meter.(or equivalent).
3. Isat: Based on inductance change ($\Delta L/L_0 : \leq -30\%$)
4. Irms: Based on temperature rise ($\Delta T : 40^\circ\text{C TYP.}$)

ELECTRICAL CHARACTERISTIC CURVES

ASPI-0630LR-1R0



Molding Type Power Inductor

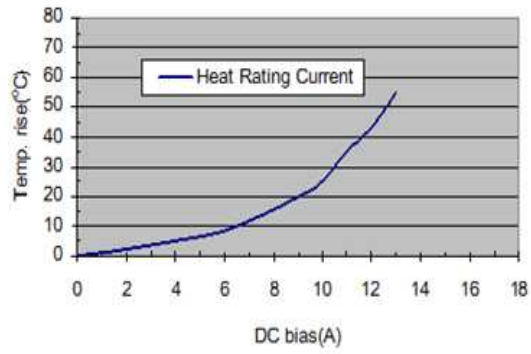
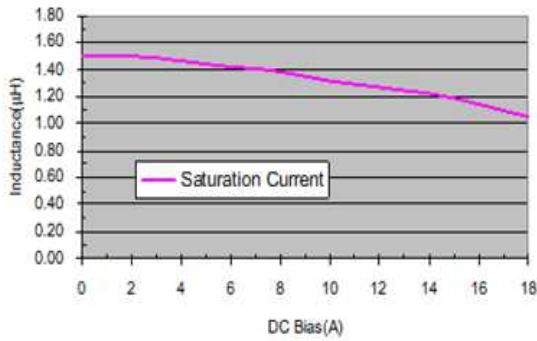
ASPI-0630LR



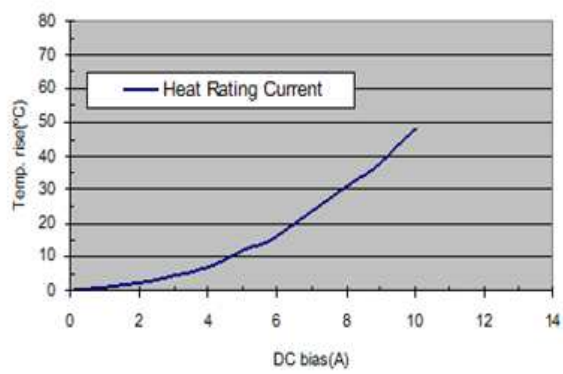
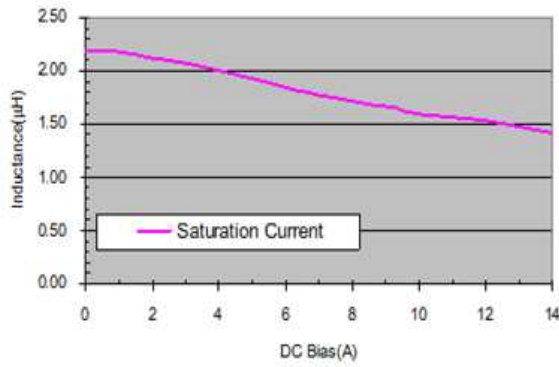
7.2 x 6.65 x 3.0 mm

ELECTRICAL CHARACTERISTIC CURVES

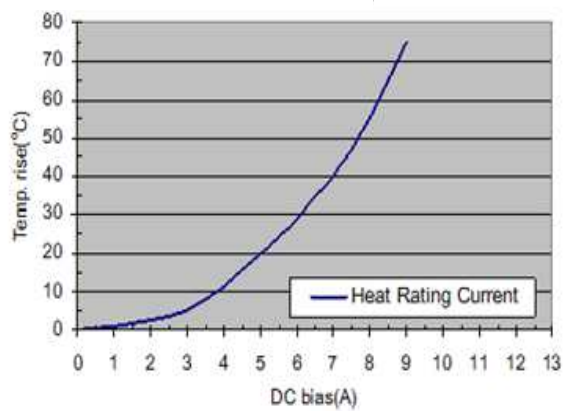
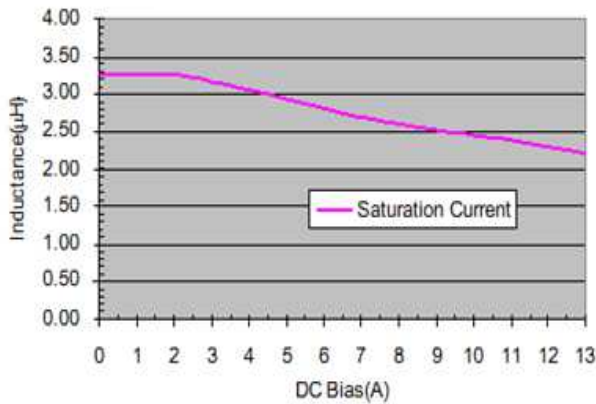
ASPI-0630LR-1R5



ASPI-0630LR-2R2



ASPI-0630LR-3R3



Molding Type Power Inductor

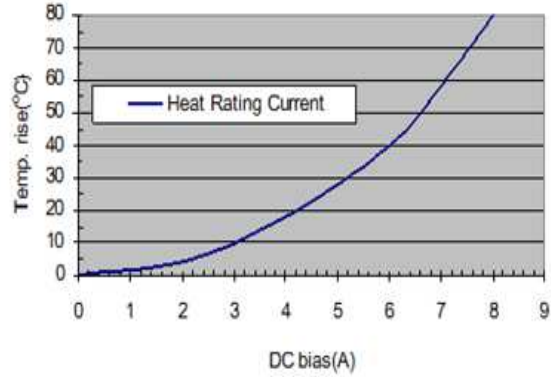
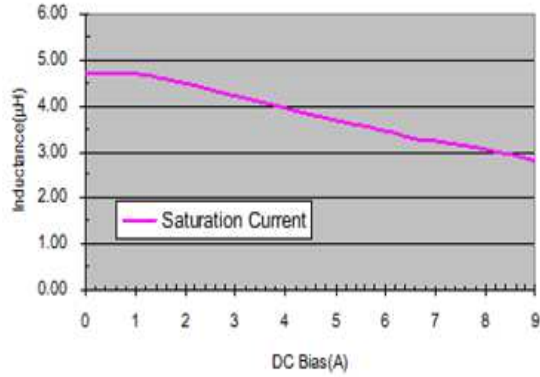
ASPI-0630LR



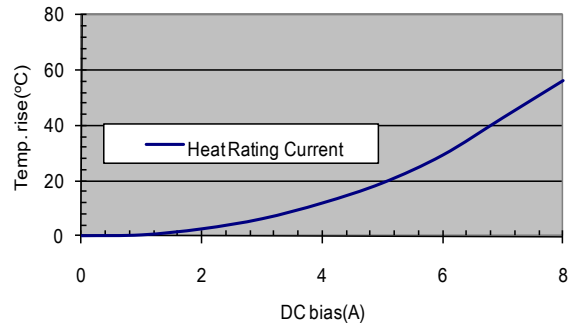
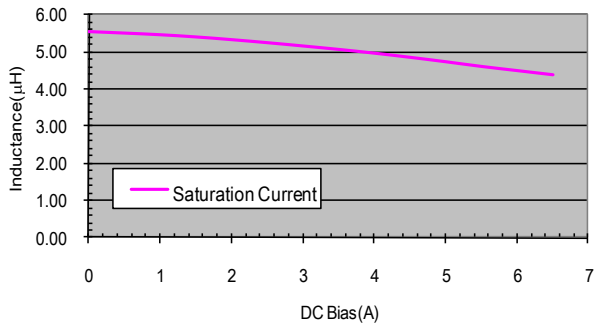
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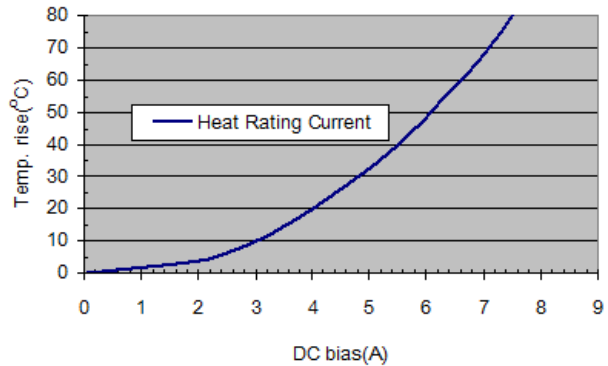
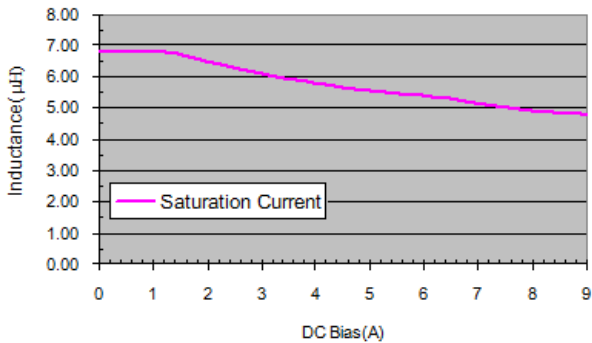
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ASPI-0630LR-5R6



ASPI-0630LR-6R8



Molding Type Power Inductor

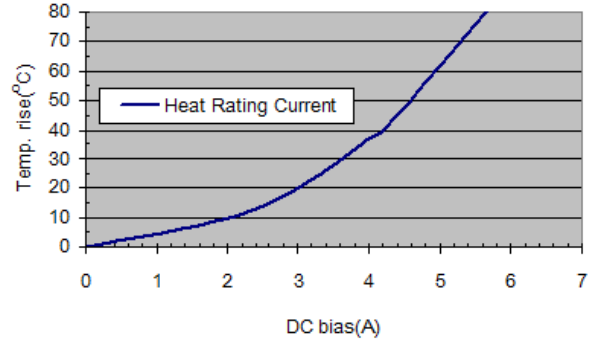
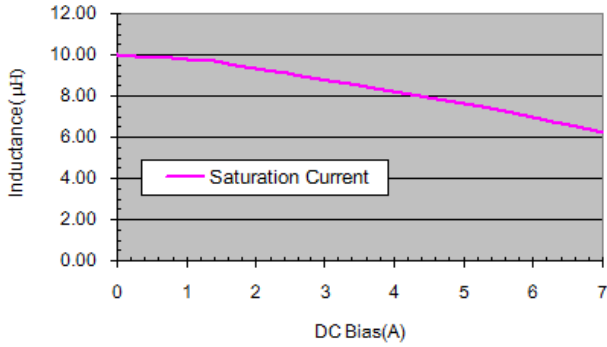
ASPI-0630LR



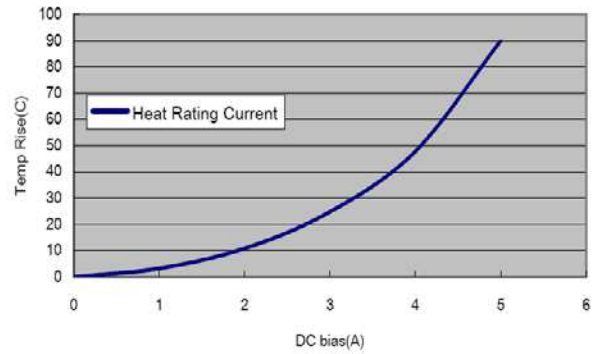
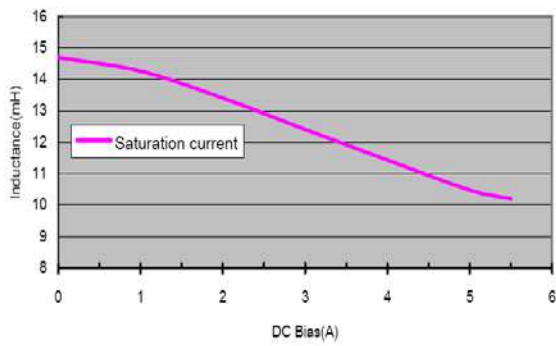
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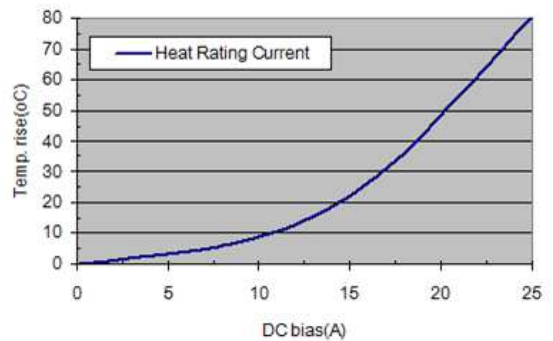
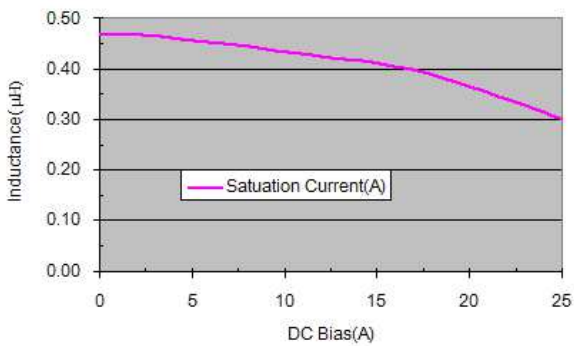
ASPI-0630LR-100



ASPI-0630LR-150



ASPI-0630LR-R47



Molding Type Power Inductor

ASPI-0630LR



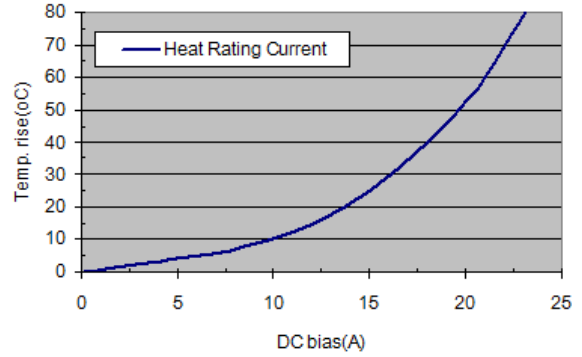
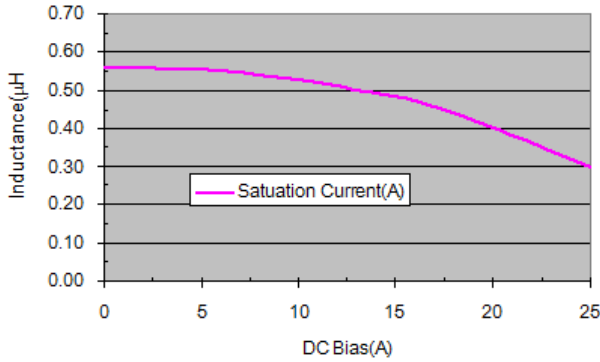
RoHS
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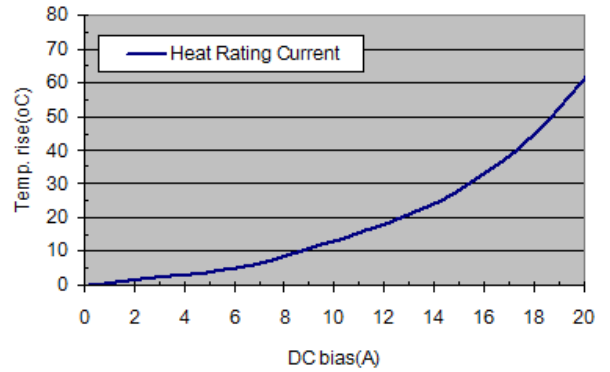
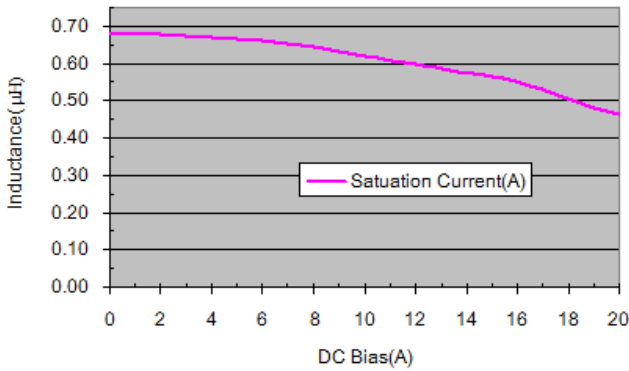
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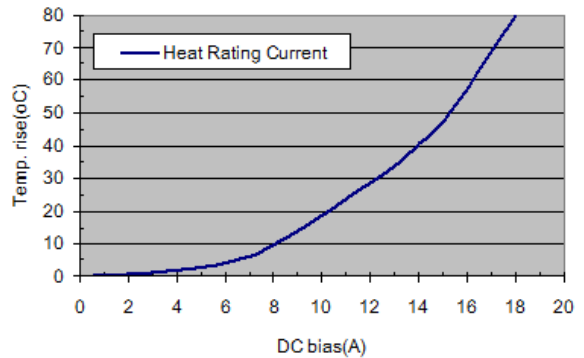
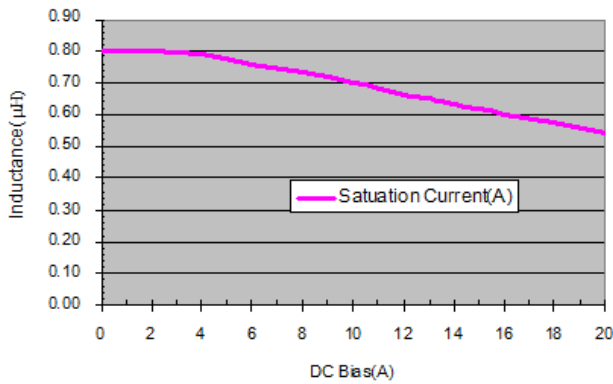
ASPI-0630LR-R56



ASPI-0630LR-R68



ASPI-0630LR-R82



Molding Type Power Inductor

ASPI-0630LR

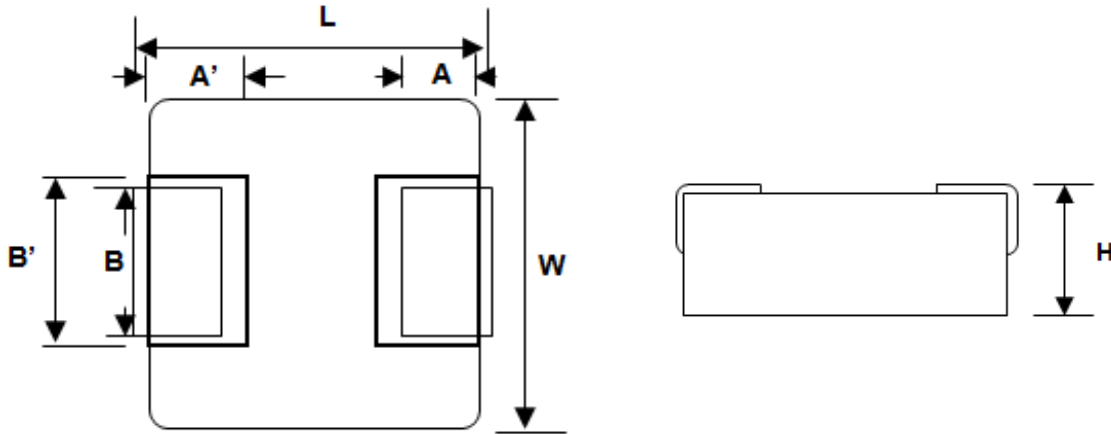


PART NUMBER IDENTIFICATION

ASPI-0630LR---

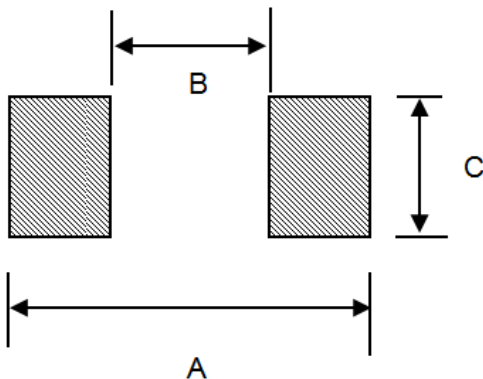
Inductance Code	Tolerance	Packaging
Please refer to the Electrical Spec Table	M: $\pm 20\%$	T15: Tape and Reel (1.5kpcs / reel)

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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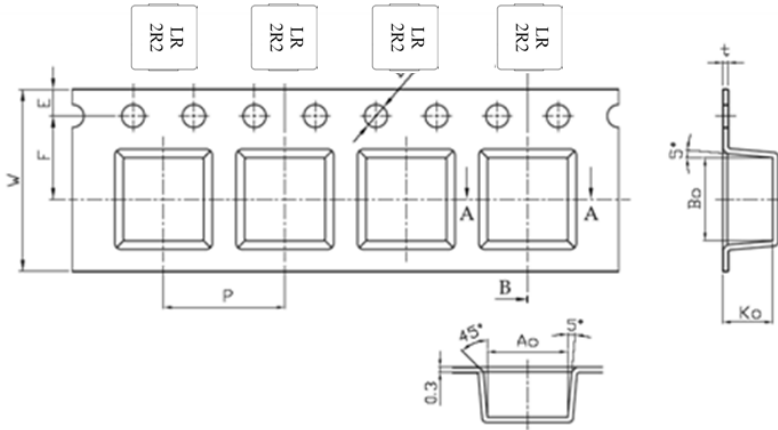
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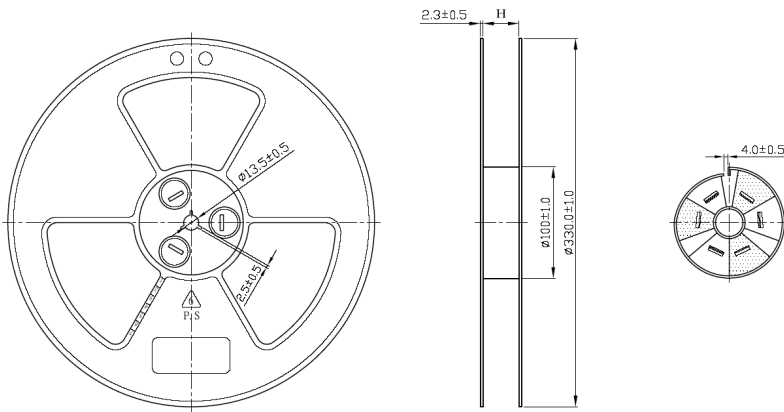
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TAPE & REEL:

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

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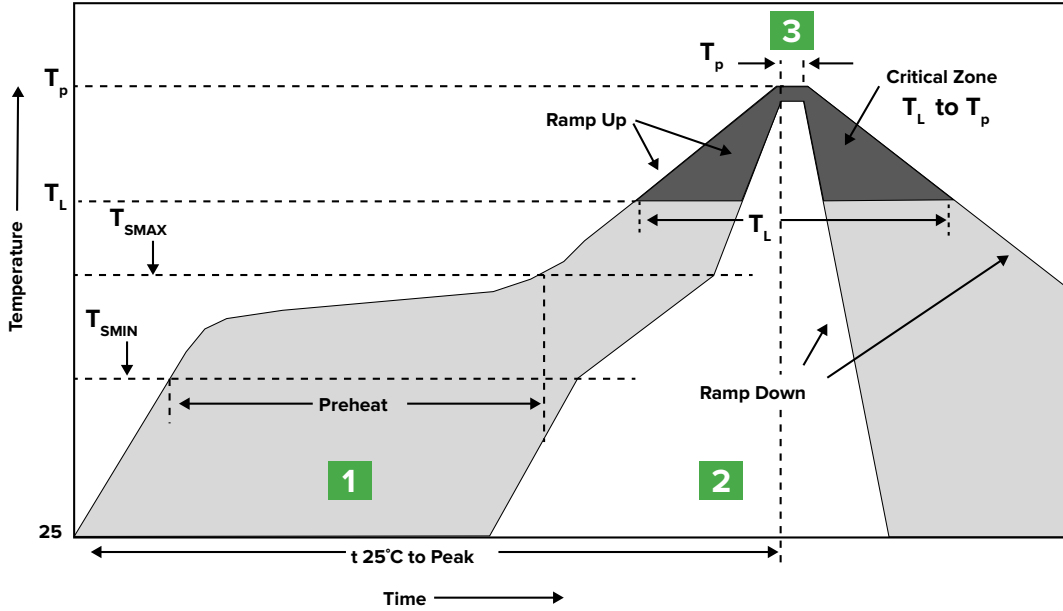


RoHS
Compliant



7.2 x 6.65 x 3.0 mm

REFLOW PROFILE:



Zone	Description	Temperature	Times
1	Preheat	T_{SMIN} to T_{SMAX} 150°C to 200°C	60 to 120 sec.
2	Reflow	T_L 217°C	60 to 150 sec.
3	Peak heat	T_P 260°C	30 sec. MAX

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