

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

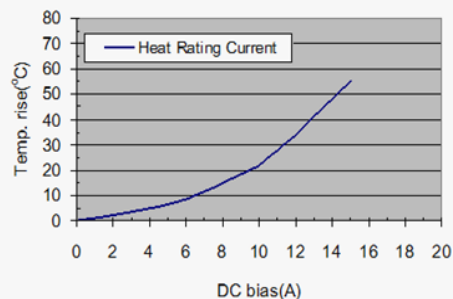
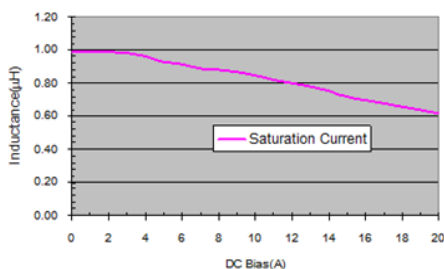
Part Number	Inductance	Tolerance	DCR Typ	DCR Max	Saturation Current	Temperature Rise Current
Units	μH	%	mΩ	mΩ	A	A
Symbol	L	M			Isat	Irms
ASPI-0630LR-R47	0.47	M	3.5	4.1	20.0	18.0
ASPI-0630LR-R56	0.56	M	4.7	5.0	18.0	17.0
ASPI-0630LR-R68	0.68	M	6.0	6.5	17.0	16.0
ASPI-0630LR-R82	0.82	M	7.0	7.5	16.0	14.0
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



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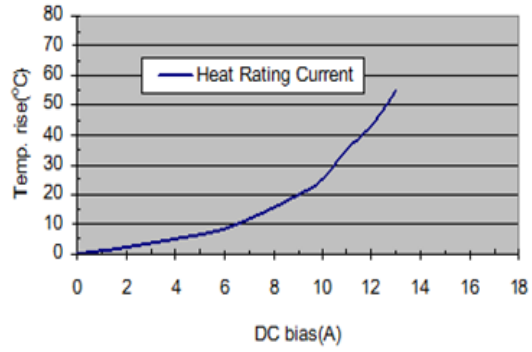
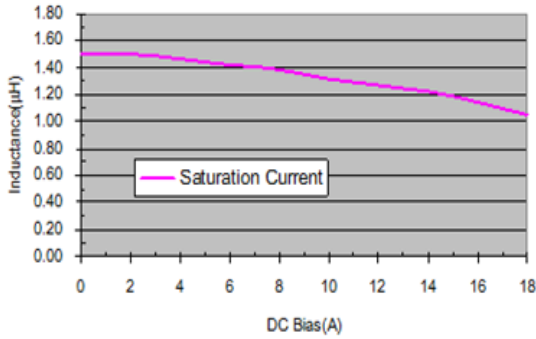
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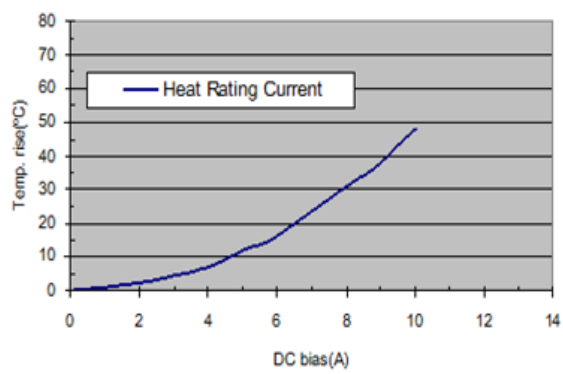
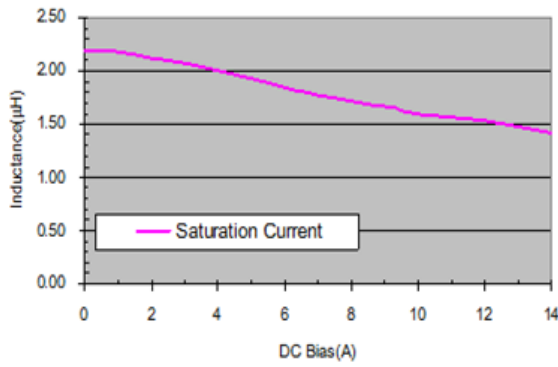
7.2 x 6.65 x 3.0 mm

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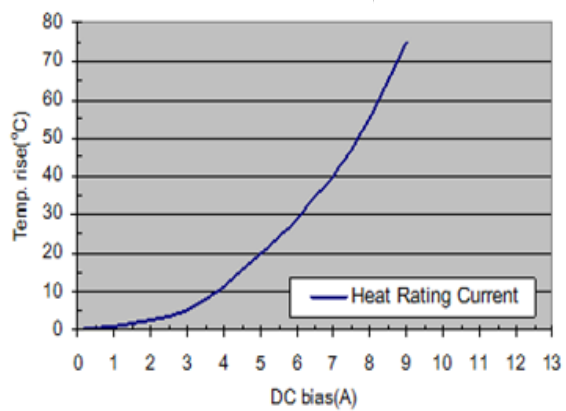
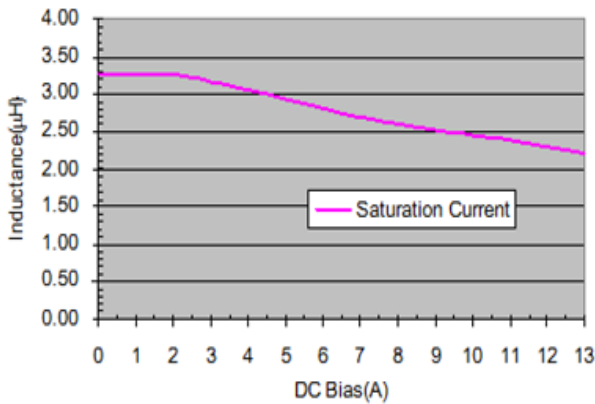
ASPI-0630LR-1R5



ASPI-0630LR-2R2



ASPI-0630LR-3R3



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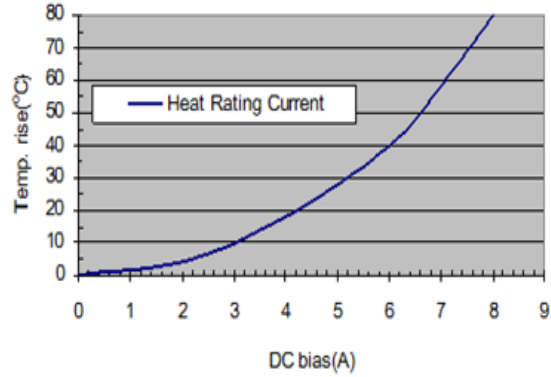
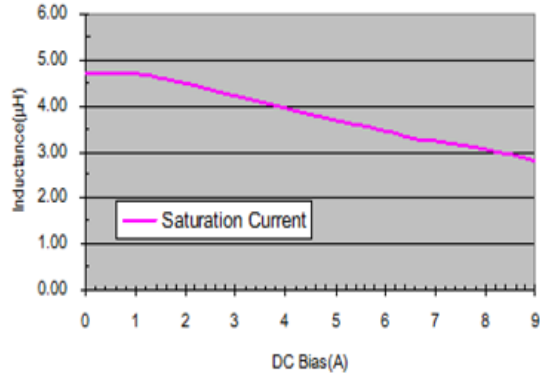
ASPI-0630LR



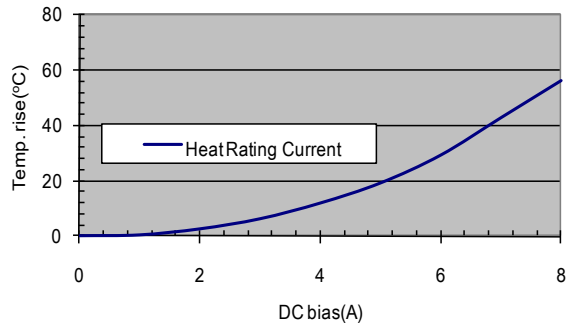
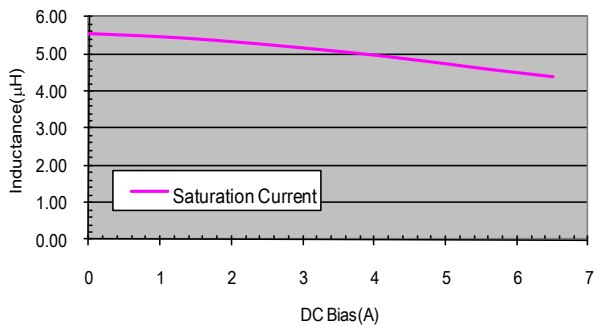
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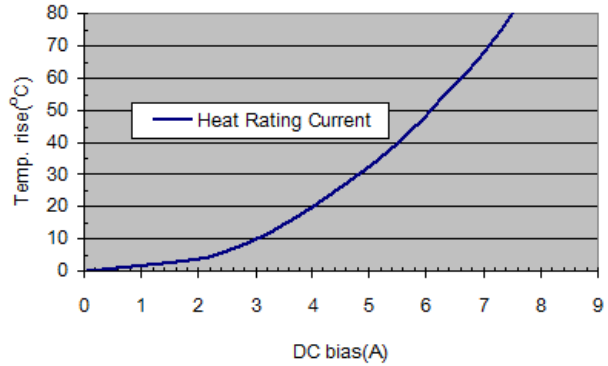
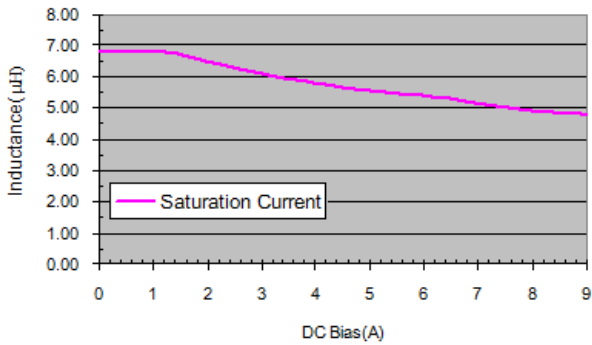
ASPI-0630LR-4R7



ASPI-0630LR-5R6



ASPI-0630LR-6R8



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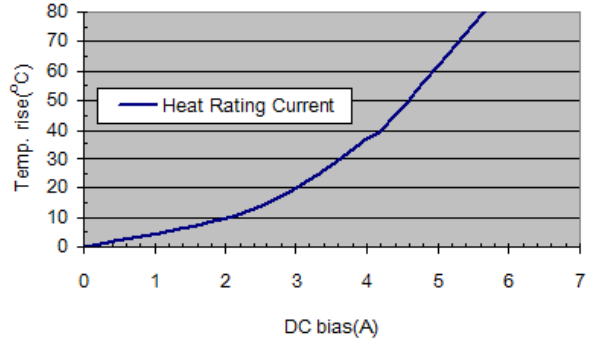
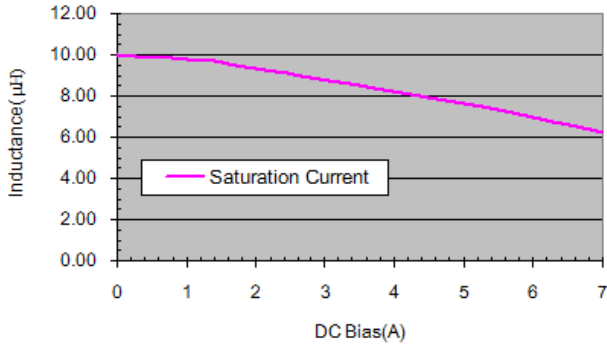
ASPI-0630LR



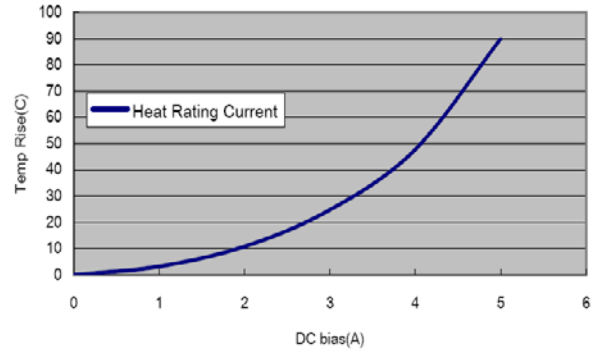
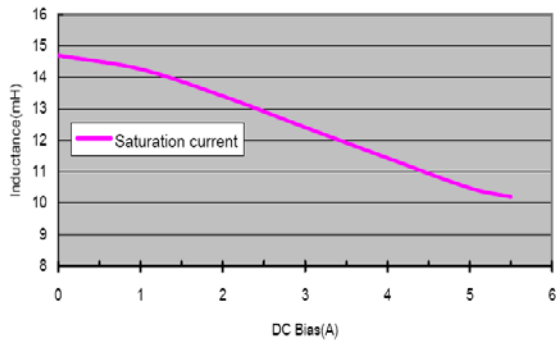
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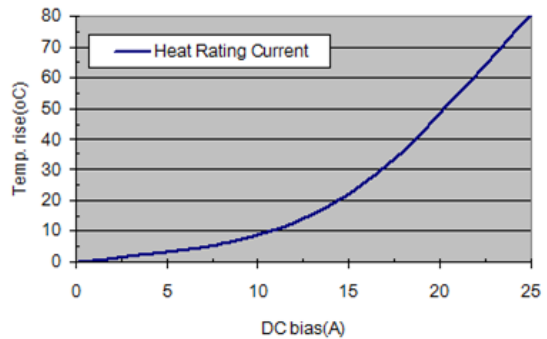
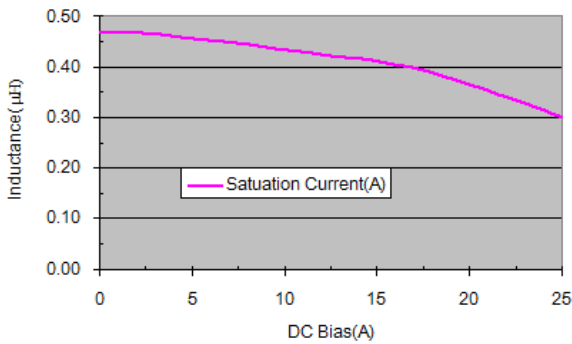
ASPI-0630LR-100



ASPI-0630LR-150



ASPI-0630LR-R47



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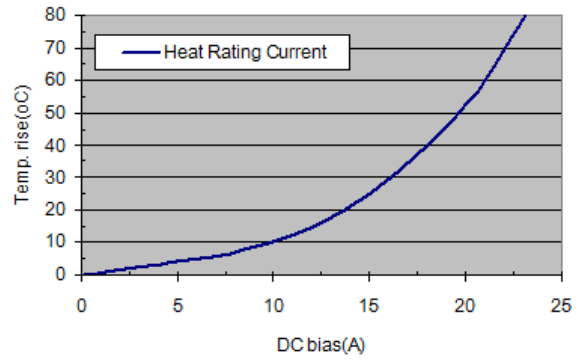
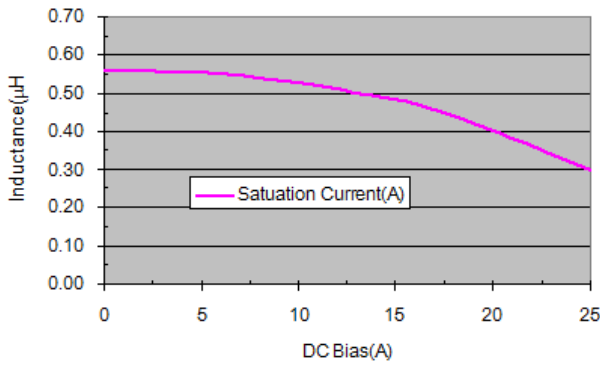
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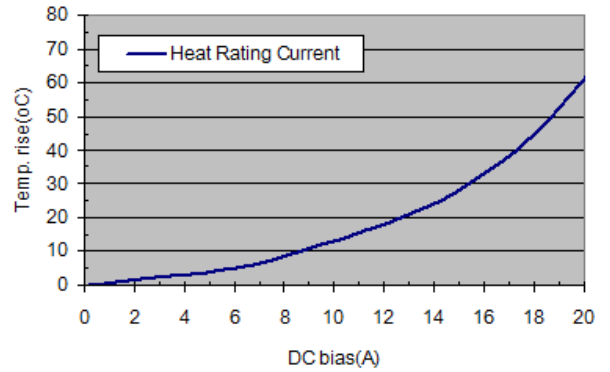
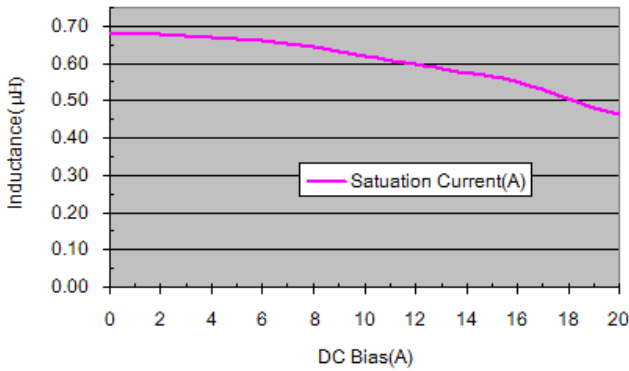
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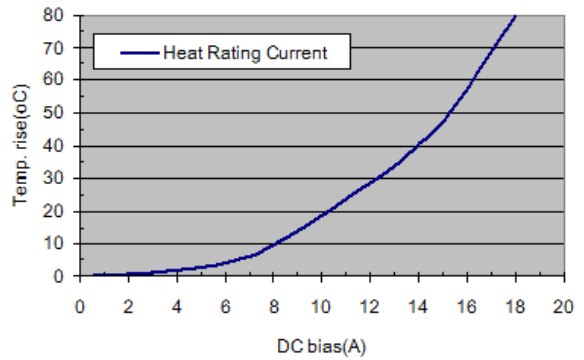
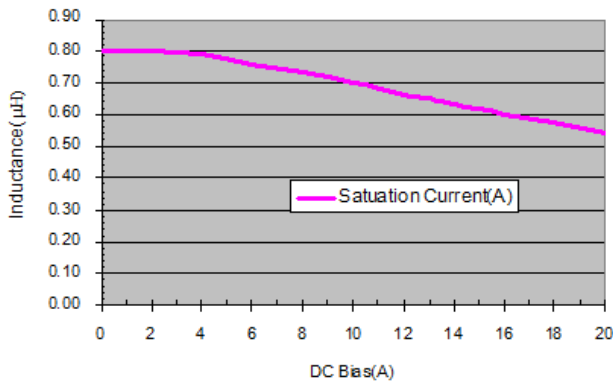
ASPI-0630LR-R56



ASPI-0630LR-R68



ASPI-0630LR-R82



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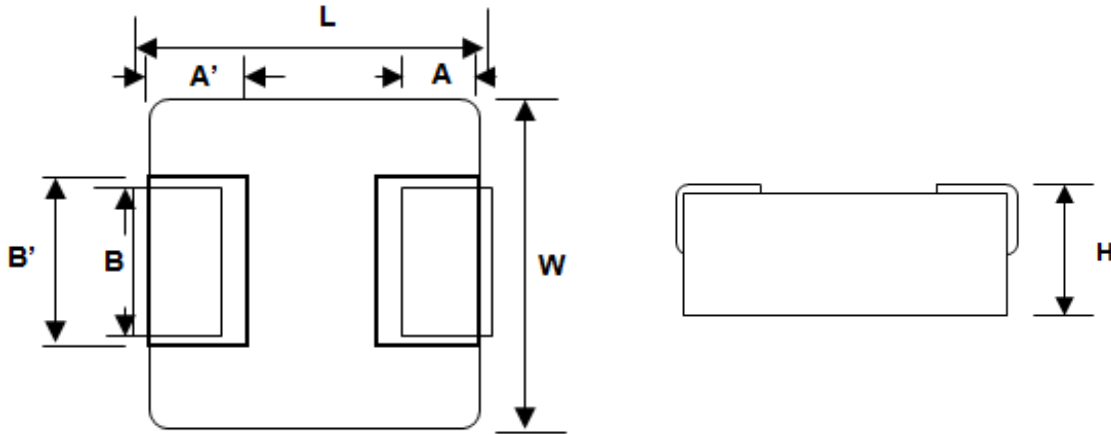
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PART NUMBER IDENTIFICATION

ASPI-0630LR---

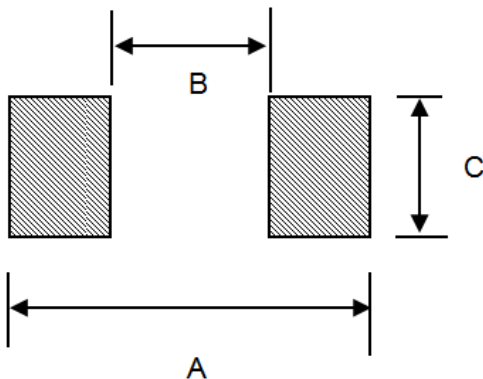
Inductance Code	Tolerance	Packaging
Please refer to the Electrical Spec Table	M: $\pm 20\%$	T15: Tape and Reel (1.5kpcs / reel)

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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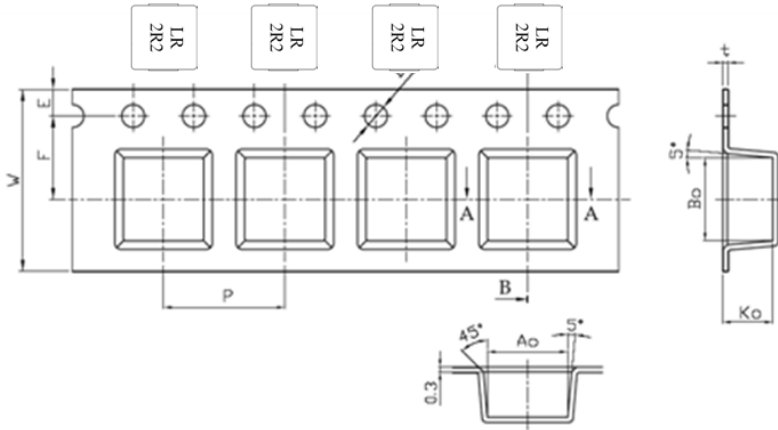
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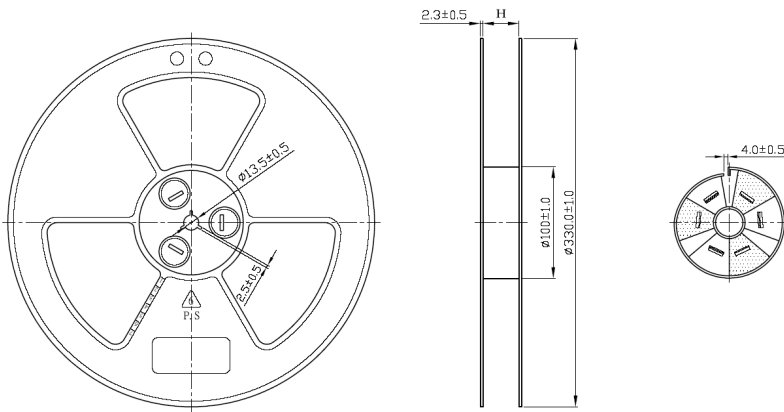
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TAPE & REEL:

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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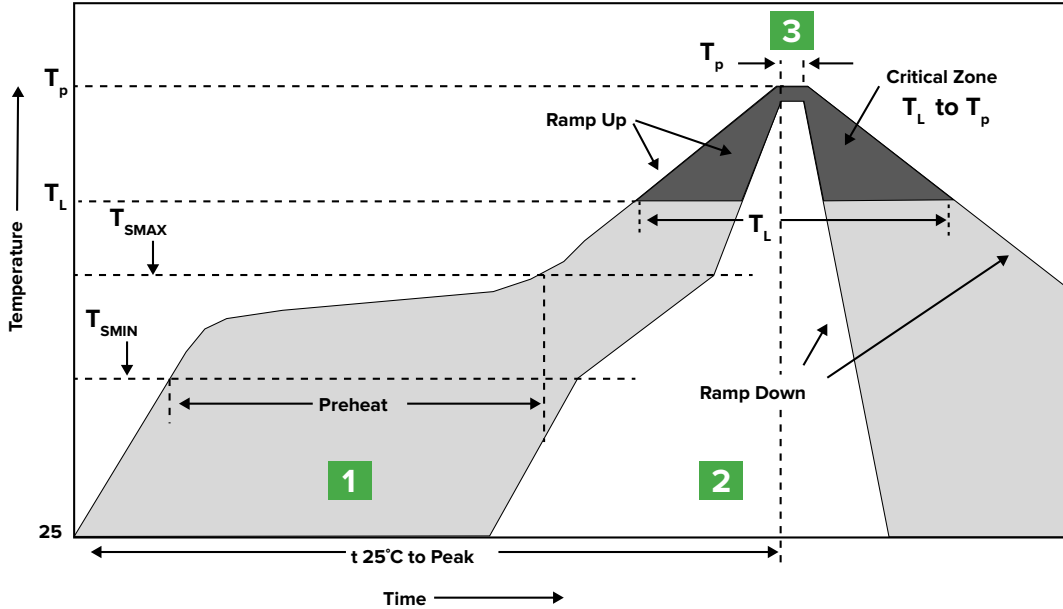


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REFLOW PROFILE:



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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