Molding Type Power Inductor



ASPI-0630LR

Request Samples | Check Inventory

7.1 x 6.60 x 2.8 mm
RoHS/RoHS II Compliant
MSL Level = 1

Features

- High saturation current
- Low loss due to low DC resistance
- Frequency application up to 3MHz
- Low profile with max thickness 3.0mm

Applications

- DC/DC converters in Notebook, desktops, and servers
- Low profile, high current power supplies

Electrical Specifications

Part Number	Inductance	Tolerance	DCR Max	Saturation Current Typ.	Temperature Rise Current Typ.
Units	µH	%	mΩ	A	A
Symbol	L	M		Isat	Irms
ASPI-0630LR-R22	0.22	M	3.0	34.0	24.0
ASPI-0630LR-R33	0.33	M	3.5	23.0	21.0
ASPI-0630LR-R47	0.47	M	4.1	20.0	18.0
ASPI-0630LR-R56	0.56	M	5.0	18.0	16.0
ASPI-0630LR-R68	0.68	M	6.5	17.0	16.0
ASPI-0630LR-R82	0.82	M	7.5	16.0	14.0
ASPI-0630LR-1R0	1.0	M	9.0	15.0	12.0
ASPI-0630LR-1R5	1.5	M	12.1	12.0	10.0
ASPI-0630LR-2R2	2.2	M	18.5	10.0	8.0
ASPI-0630LR-3R3	3.3	M	28.0	9.5	6.5
ASPI-0630LR-4R7	4.7	M	35.0	6.5	5.5
ASPI-0630LR-5R6	5.6	M	42.0	5.0	5.0
ASPI-0630LR-6R8	6.8	M	60.0	6.0	4.5
ASPI-0630LR-8R2	8.2	M	60.0	5.5	5.0
ASPI-0630LR-100	10.0	M	68.0	5.5	4.0
ASPI-0630LR-150	15.0	M	120.0	4.0	3.0
ASPI-0630LR-220	22.0	M	170.0	2.5	2.5
ASPI-0630LR-330	33.0	M	270.0	2.5	2.0
ASPI-0630LR-470	47.0	M	385.0	2.0	1.5

Test Conditions

Inductance is measured using Wayne Kerr3260+3265B at 100KHz, 1V.
RDC is measured using HIOKI3540.
Isat: Based on inductance change (△L/Lo : ≤ -30%)
Irms: Based on temperature rise (△T : 40ºC TYP.)

Operating Temperature: -55˚C to +125˚C (Including self-generated heat)
Storage Temperature and Humidity: < 35˚C, 35% to 65% RH

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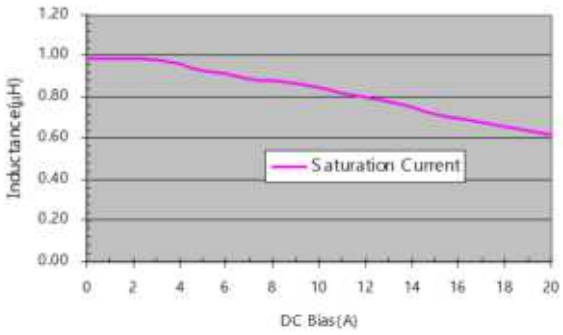
ASPI-0630LR

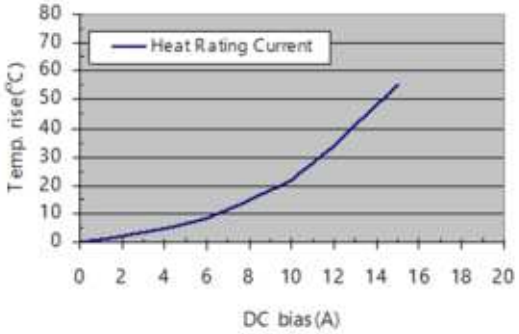
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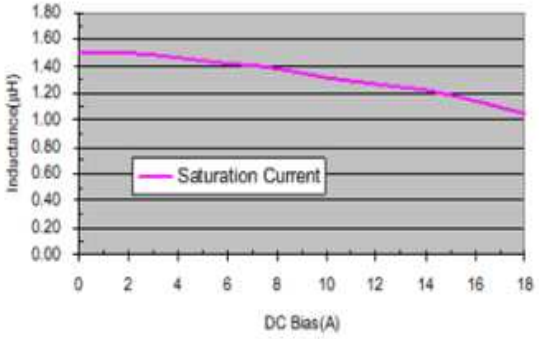
Electrical Characteristic Curves

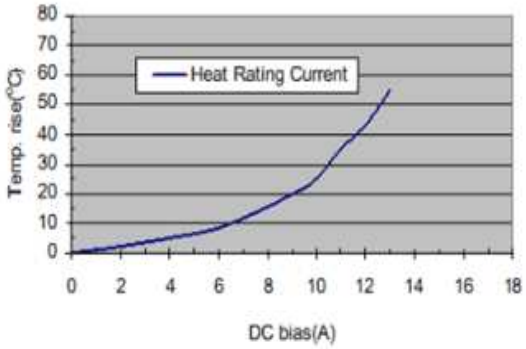
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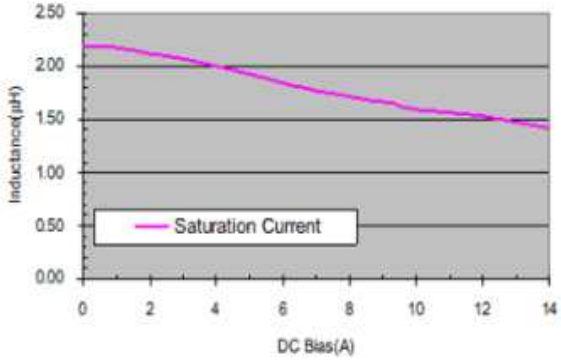


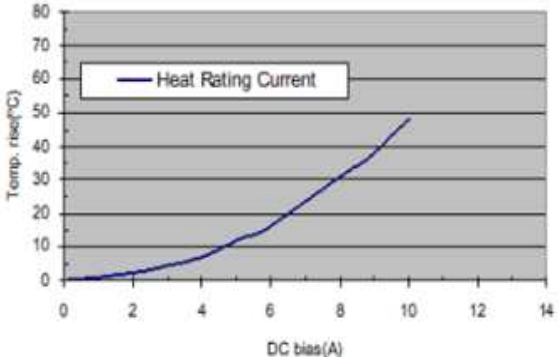
ASPI-0630LR-1R5





ASPI-0630LR-2R2





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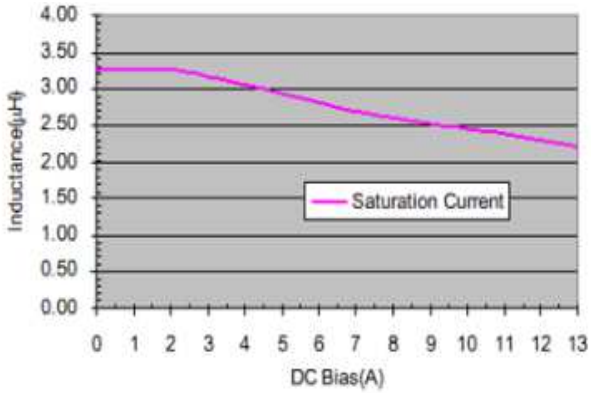
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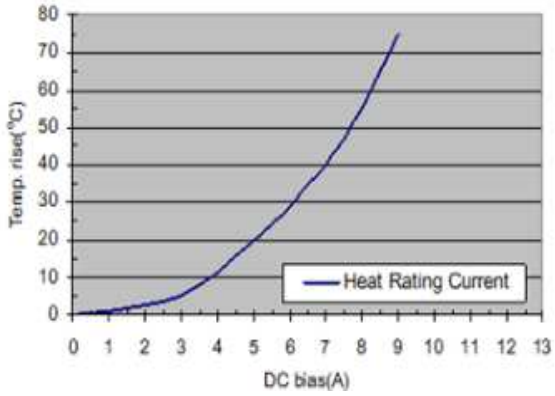
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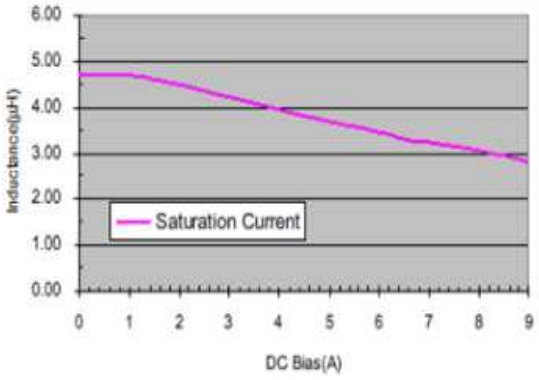
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MSL Level = 1

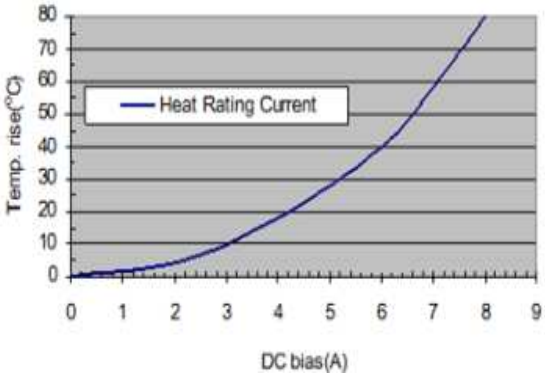
ASPI-0630LR-3R3



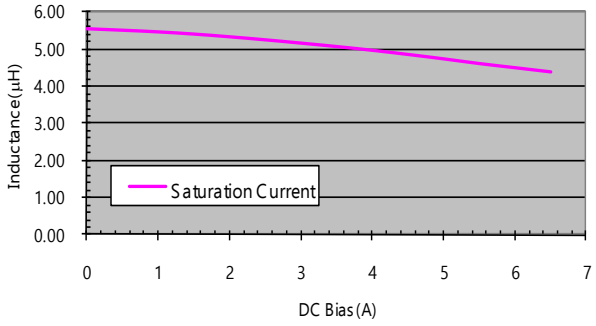


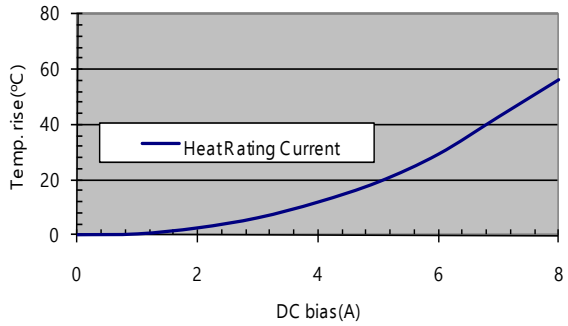
ASPI-0630LR-4R7





ASPI-0630LR-5R6





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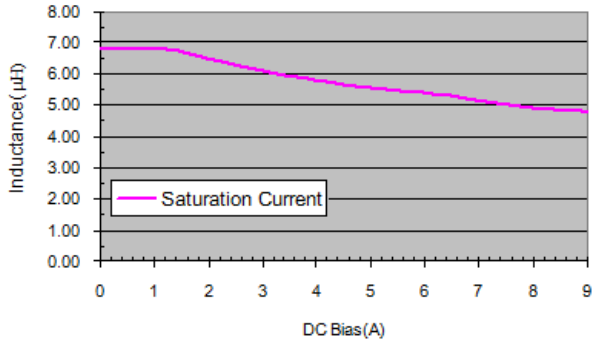
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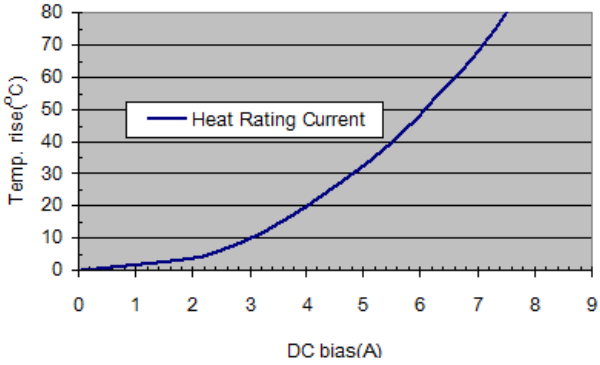
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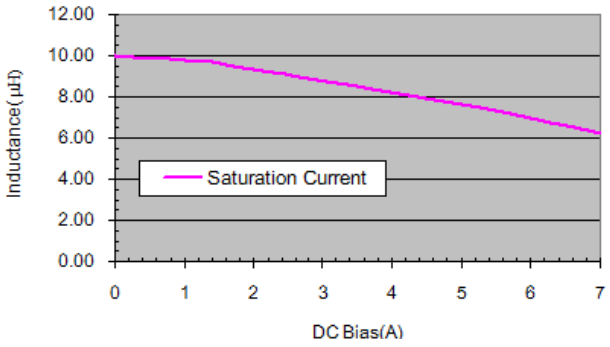
7.1 x 6.60 x 2.8 mm
RoHS/RoHS II Compliant
MSL Level = 1

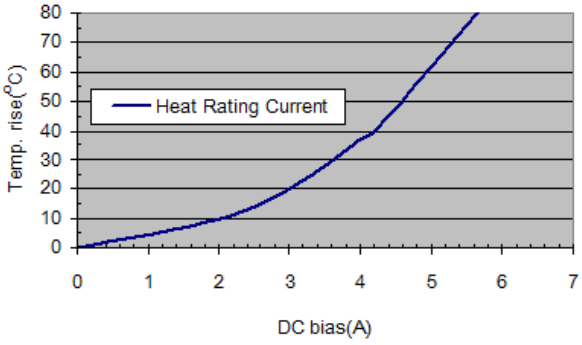
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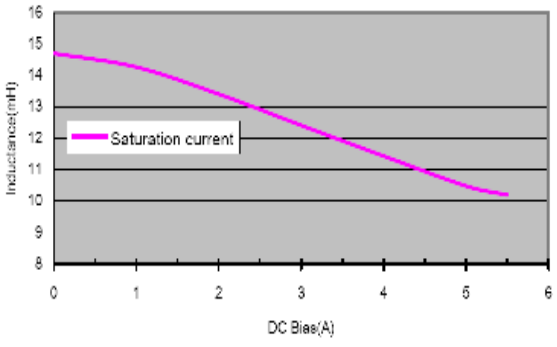


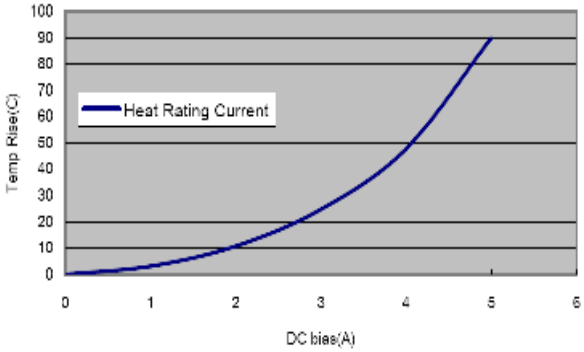
ASPI-0630LR-100





ASPI-0630LR-150





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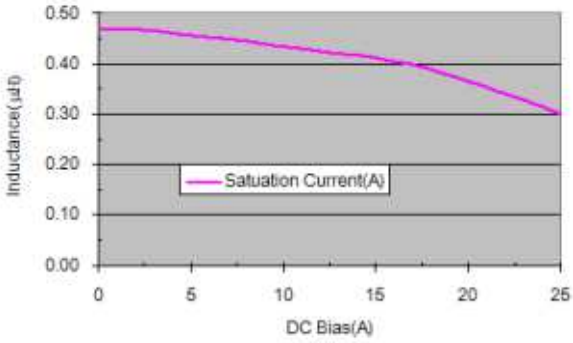


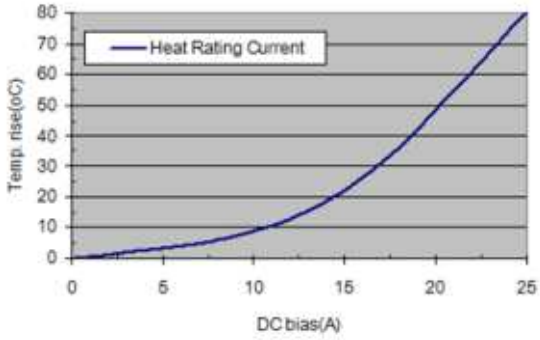
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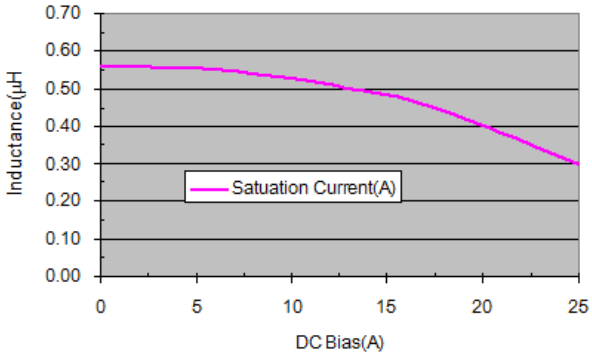
7.1 x 6.60 x 2.8 mm
RoHS/RoHS II Compliant
MSL Level = 1

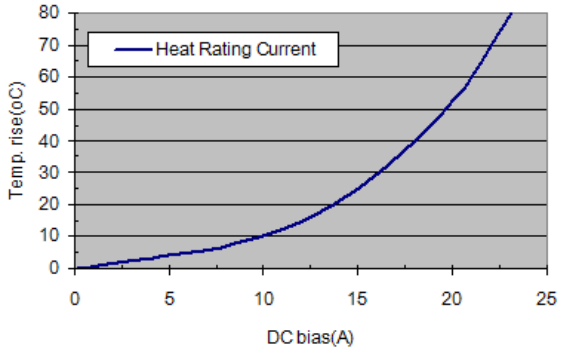
ASPI-0630LR-R47



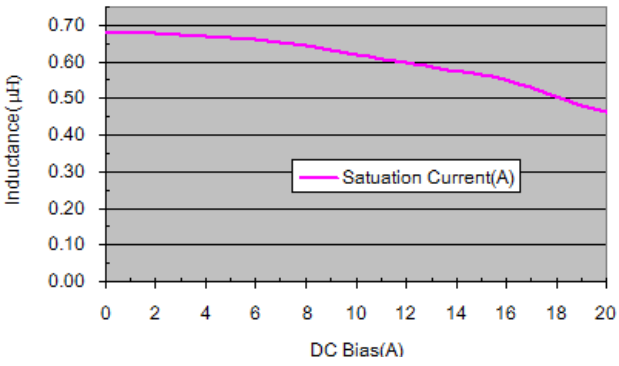


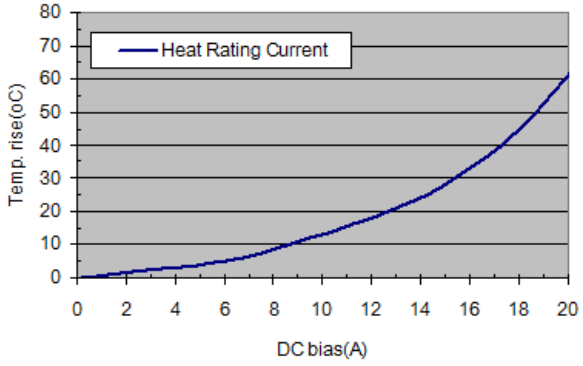
ASPI-0630LR-R56





ASPI-0630LR-R68





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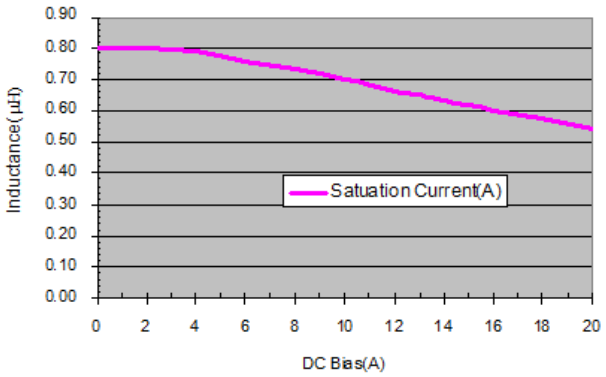


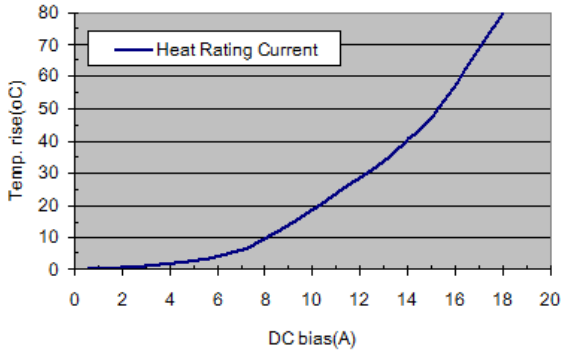
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7.1 x 6.60 x 2.8 mm
RoHS/RoHS II Compliant
MSL Level = 1

ASPI-0630LR-R82





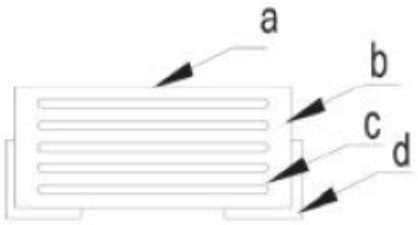
Part Identification

ASPI-0630LR-□□□□□□ -□

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

Materials

No.	Description	Specification
a	Marking	Ink (black)
b	Core	Alloy Sponge Powder
c	Wire	Polyurethane copper wire
d	Terminal	Copper plated with Sn



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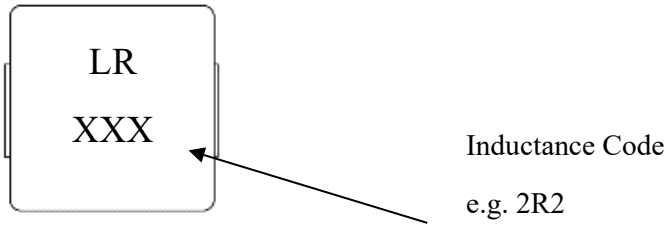


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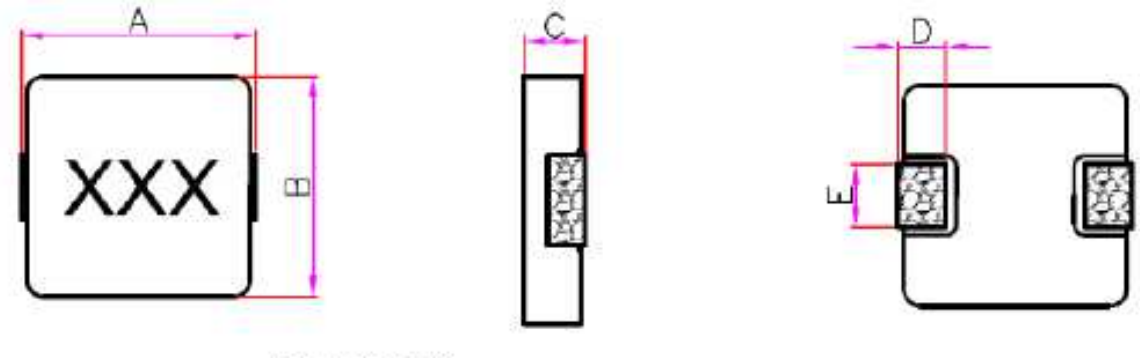
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MSL Level = 1

Marking



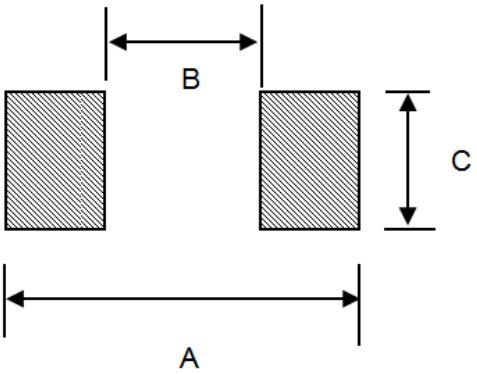
Marking Method = Ink Marking

Mechanical Specifications



A	B	C	D	E
7.1 ±0.4	6.6 ±0.25	2.8 ±0.2	1.6 ±0.4	3.00 ±0.3

Recommended Land Pattern



A	B	C
8.4	3.7	3.5

Dimension: mm

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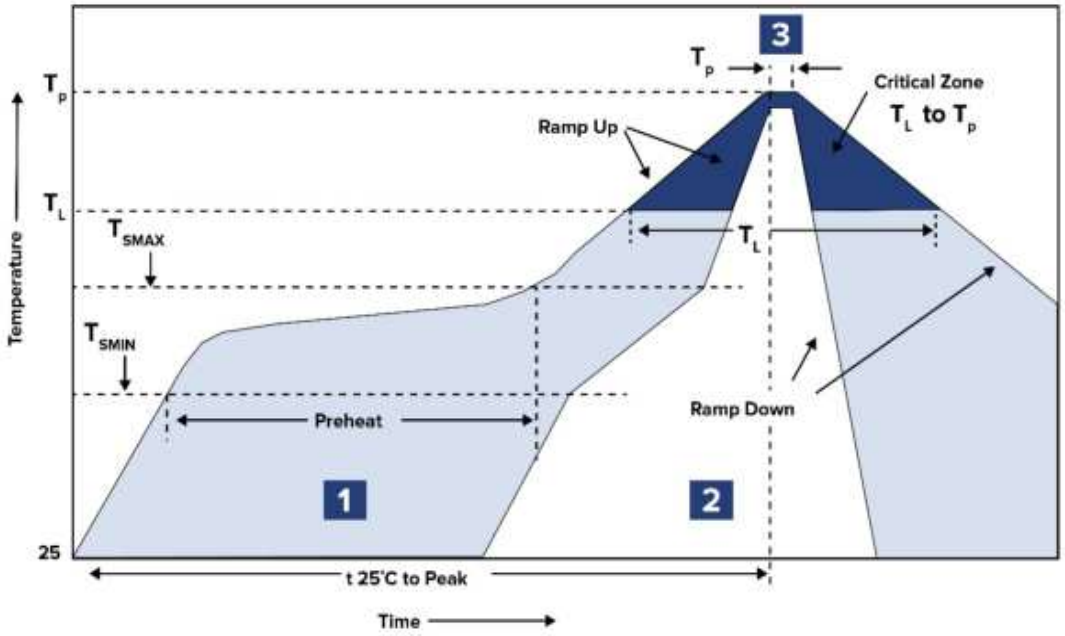


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RoHS/RoHS II Compliant
MSL Level = 1

Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	T_{SMIN} ~ T_{SMAX} 150°C ~ 200°C	60 ~120 Sec.
2	Reflow	T_L 217°C	60 ~90 Sec.
3	Peak heat	T_P 255°C (0/ -5°C)	10 sec. Max

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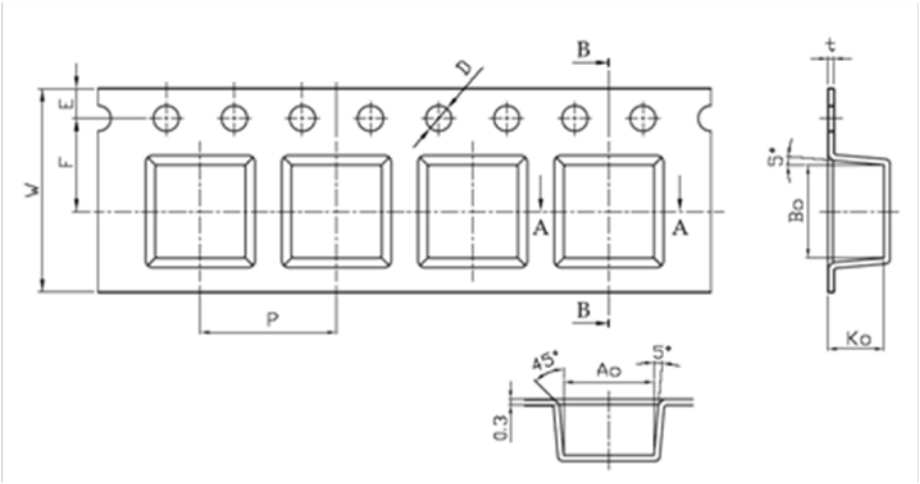
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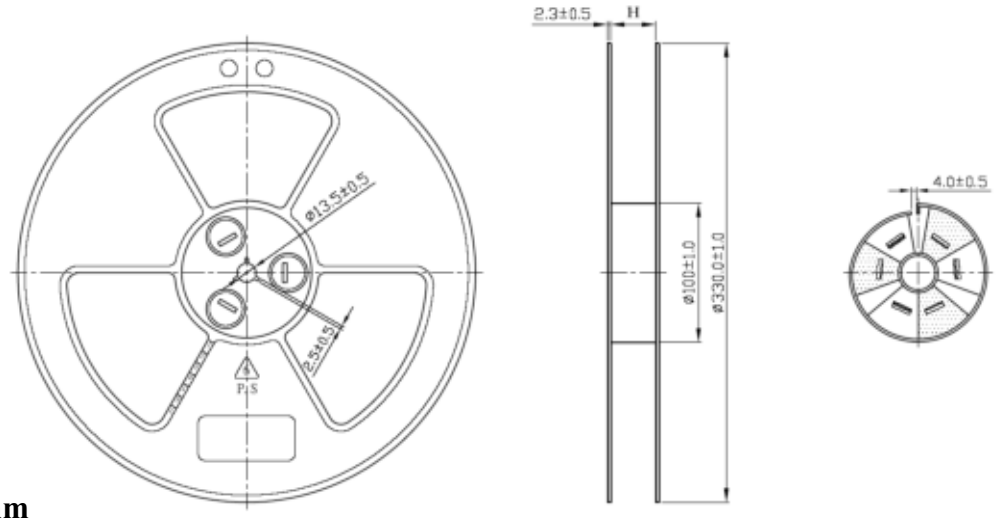
7.1 x 6.60 x 2.8 mm
RoHS/RoHS II Compliant
MSL Level = 1

Packing

T15: 1,500pcs / reel



A0	6.9 ±0.3
B0	7.5
K0	3.3 ±0.3
P	12.0
t	0.35 Max
W	16
E	1.75
F	7.5
D	1.5



Dimension: mm

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