Molding Type Power Inductor

ASPI-0630LR

7.2 x 6.65 x 3.0 mm

RoHS Compliant

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 meeted 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-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

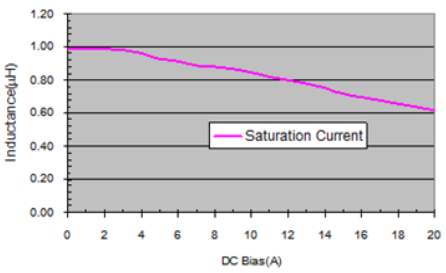
Part Number	Inductance	Tolerance	DCR Typ	DCR Max	Saturation Current	Temperature Rise Current
Units	µH	%	mΩ	mΩ	A	A
Symbol	L	M			Isat	Irms
ASPI-0630LR-R47	0.47	M	3.5	4.1	20.0	18.0
ASPI-0630LR-R56	0.56	M	4.7	5.0	18.0	17.0
ASPI-0630LR-R68	0.68	M	6.0	6.5	17.0	16.0
ASPI-0630LR-R82	0.82	M	7.0	7.5	16.0	14.0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

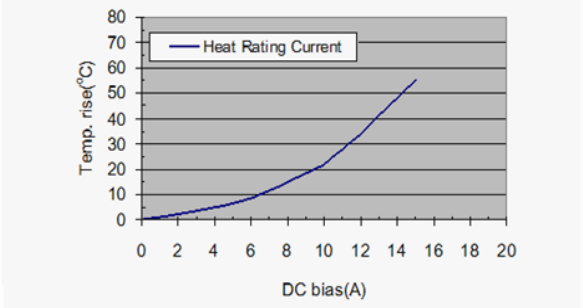
Test Conditions

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 (ΔL/Lo : ≤ -30%)
4. Irms: Based on temperature rise (ΔT : 40°C TYP.)

ELECTRICAL CHARACTERISTIC CU

ASPI-0630LR-1R0





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Molding Type Power Inductor

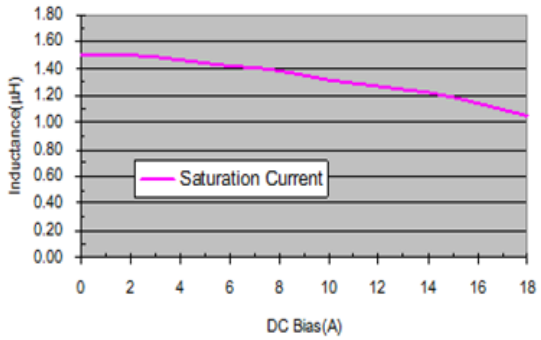
ASPI-0630LR

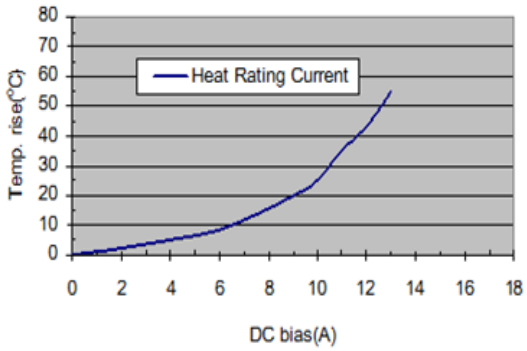
7.2 x 6.65 x 3.0 mm

Pb RoHS Compliant

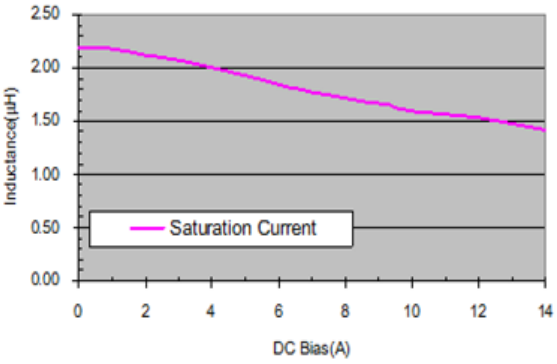
ELECTRICAL CHARACTERISTIC CURVES

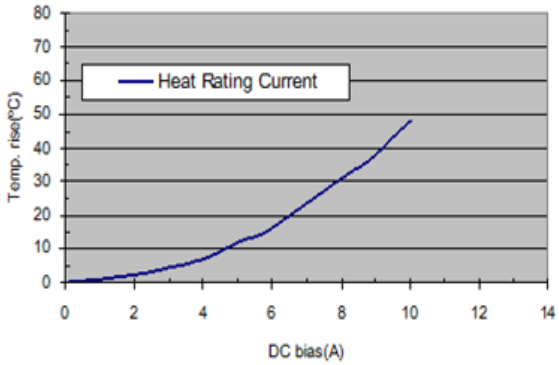
ASPI-0630LR-1R5



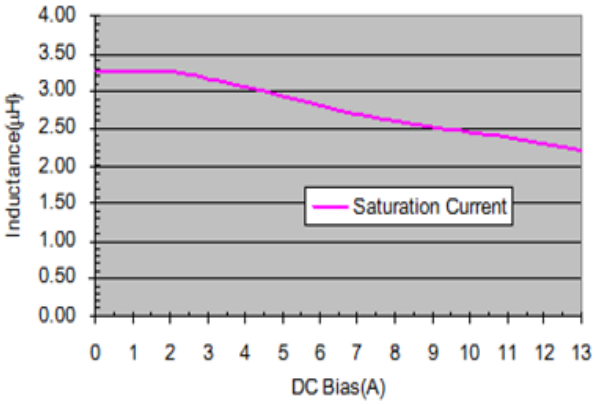


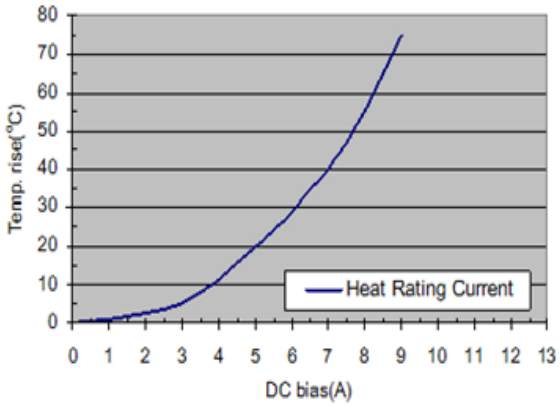
ASPI-0630LR-2R2





ASPI-0630LR-3R3





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Molding Type Power Inductor

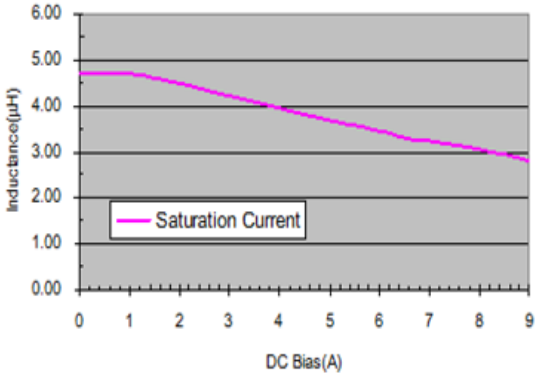
ASPI-0630LR

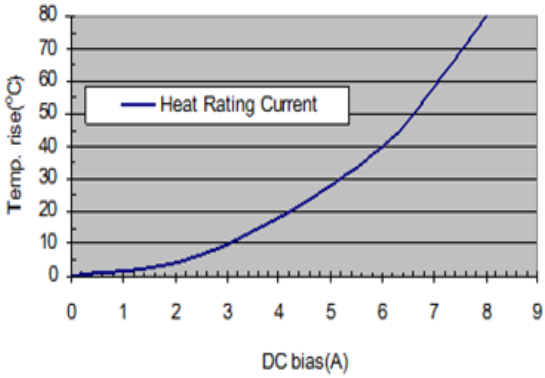
Pb RoHS Compliant

7.2 x 6.65 x 3.0 mm

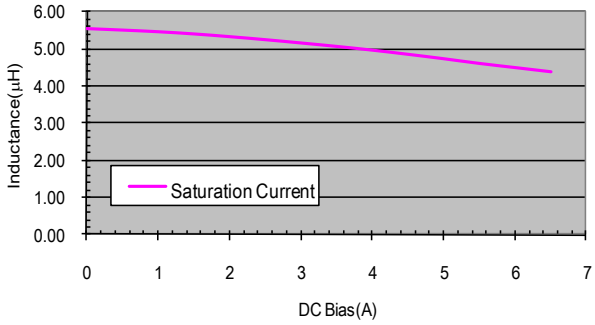
ELECTRICAL CHARACTERISTIC CURVES

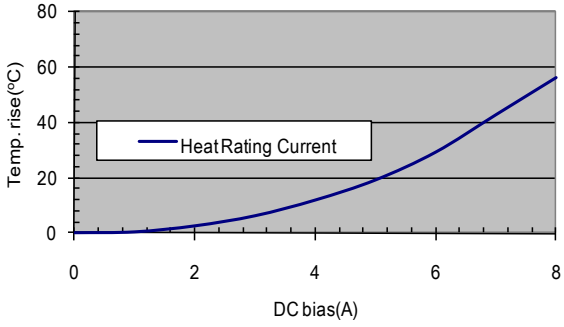
ASPI-0630LR-4R7



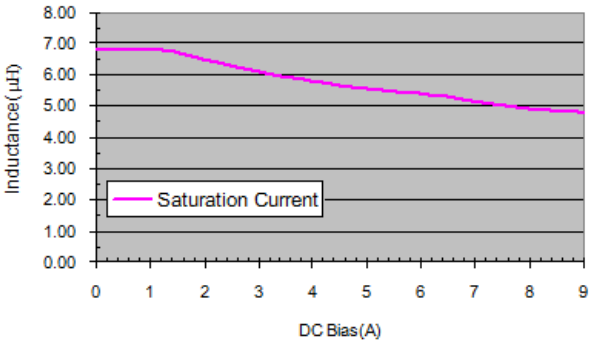


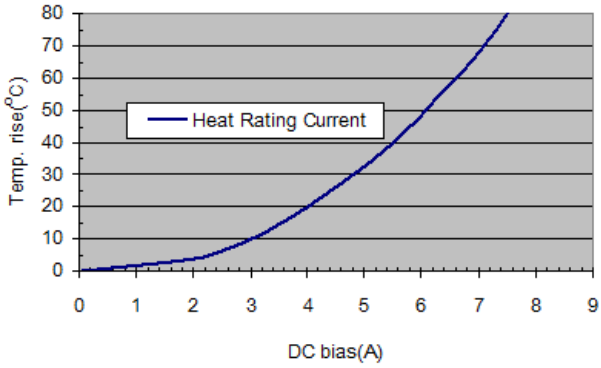
ASPI-0630LR-5R6





ASPI-0630LR-6R8





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Molding Type Power Inductor

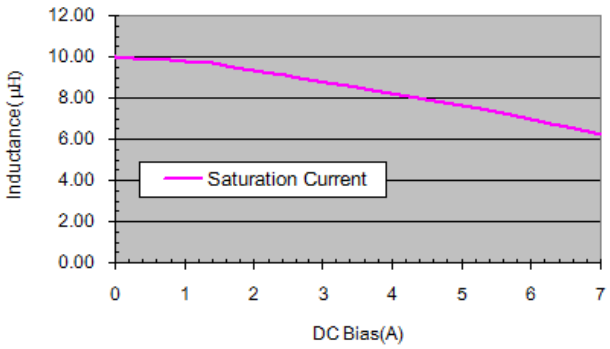
ASPI-0630LR

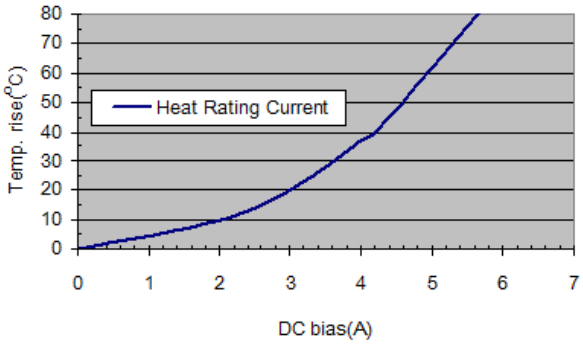
7.2 x 6.65 x 3.0 mm

Pb RoHS Compliant

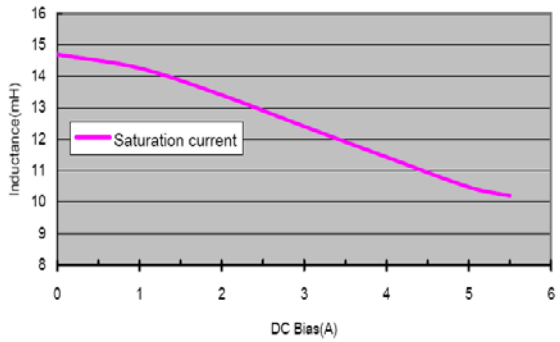
ELECTRICAL CHARACTERISTIC CURVES

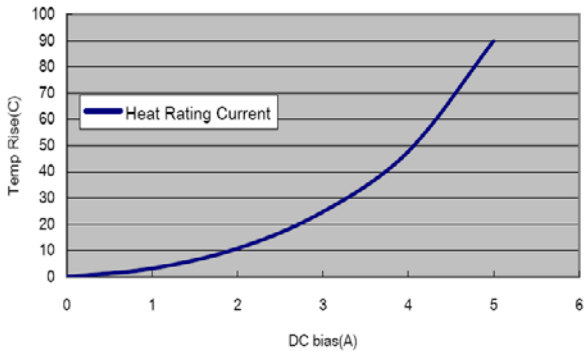
ASPI-0630LR-100



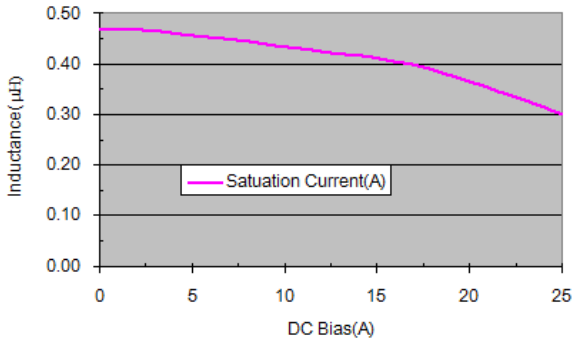


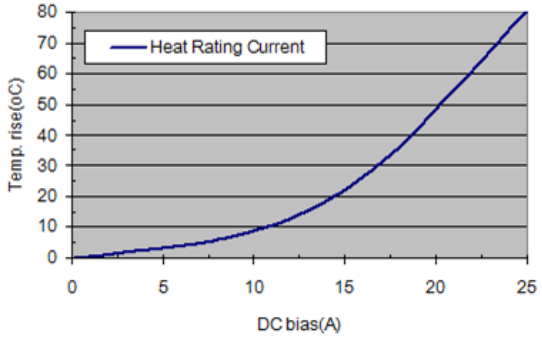
ASPI-0630LR-150





ASPI-0630LR-R47





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Molding Type Power Inductor

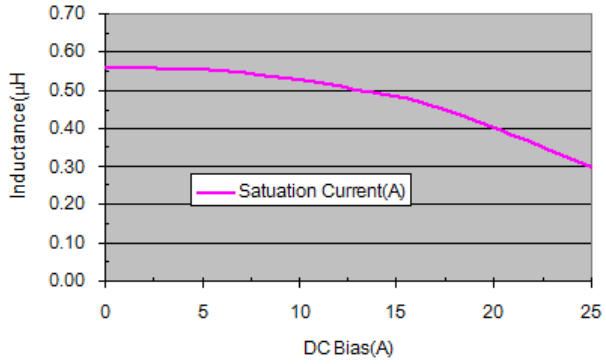
ASPI-0630LR

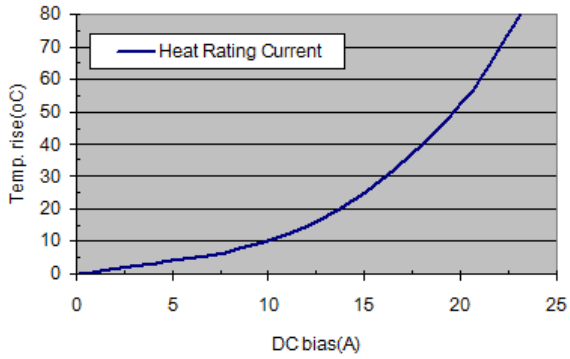
7.2 x 6.65 x 3.0 mm

Pb RoHS Compliant

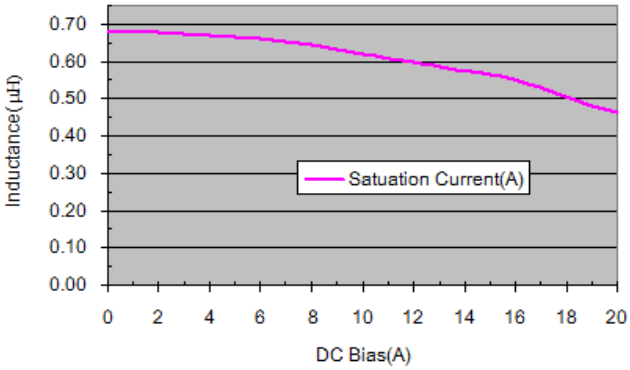
ELECTRICAL CHARACTERISTIC CURVES

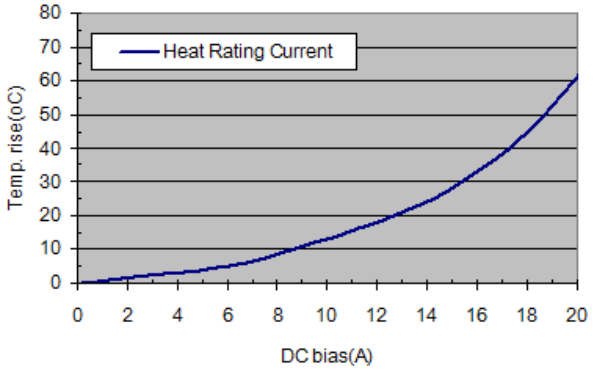
ASPI-0630LR-R56



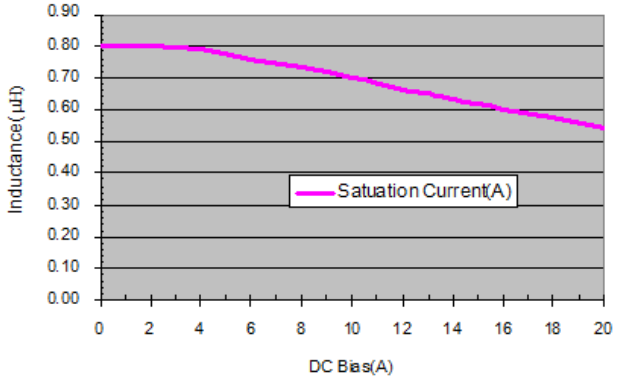


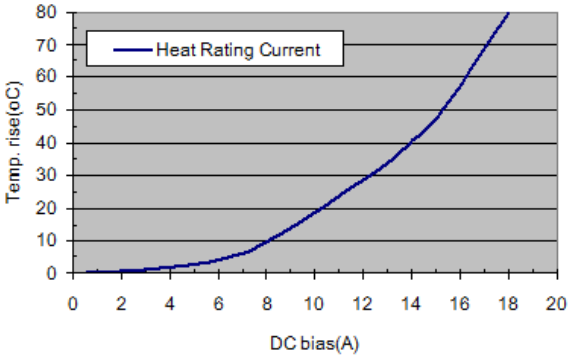
ASPI-0630LR-R68





ASPI-0630LR-R82





Molding Type Power Inductor

ASPI-0630LR

7.2 x 6.65 x 3.0 mm

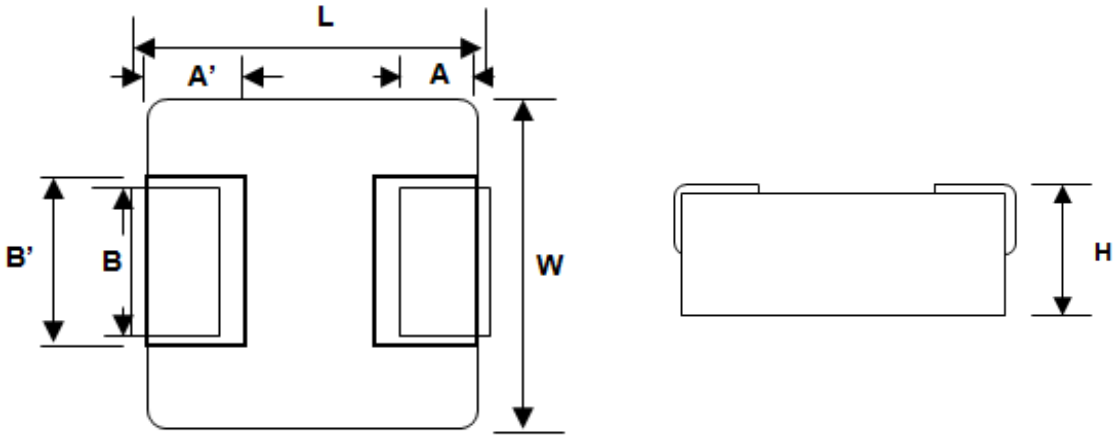
RoHS Compliant

PART NUMBER IDENTIFICATION

ASPI-0630LR-□□ -□

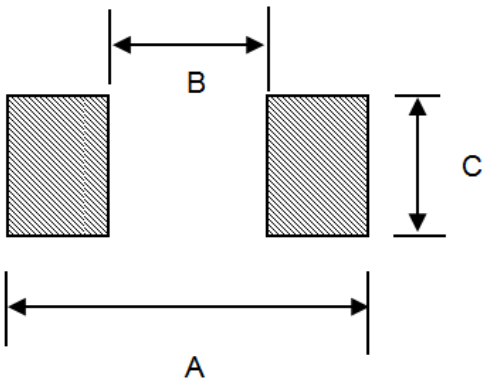
Inductance Code	Tolerance	Packaging
Please refer to the Electrical Spec Table	M: ±20%	T15: Tape and Reel (1.5kpcs / reel)

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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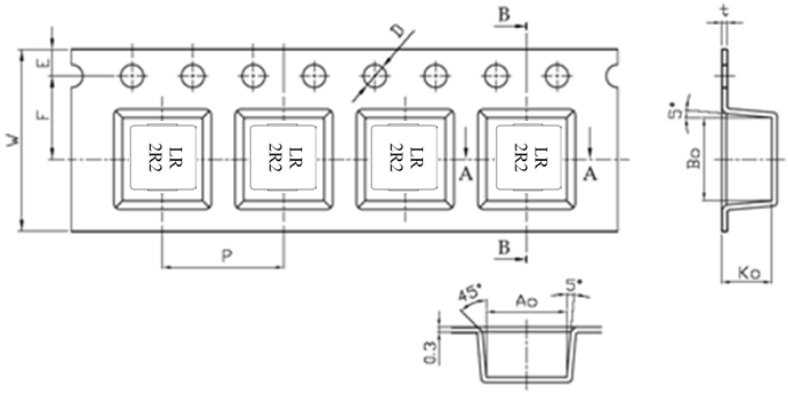
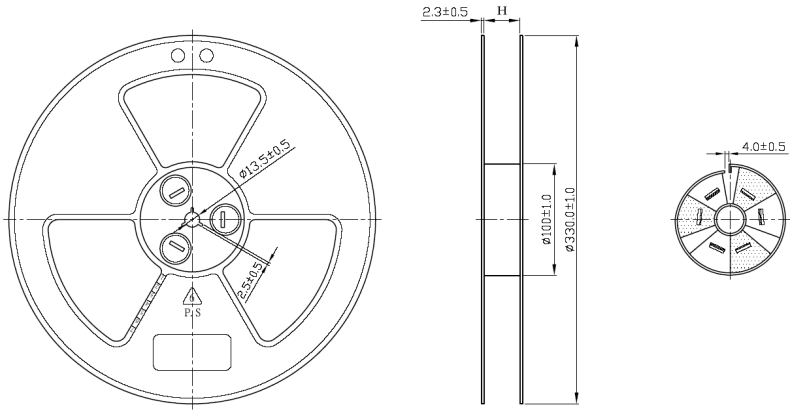
TAPE & REEL:

T1: 1,500pcs / reel

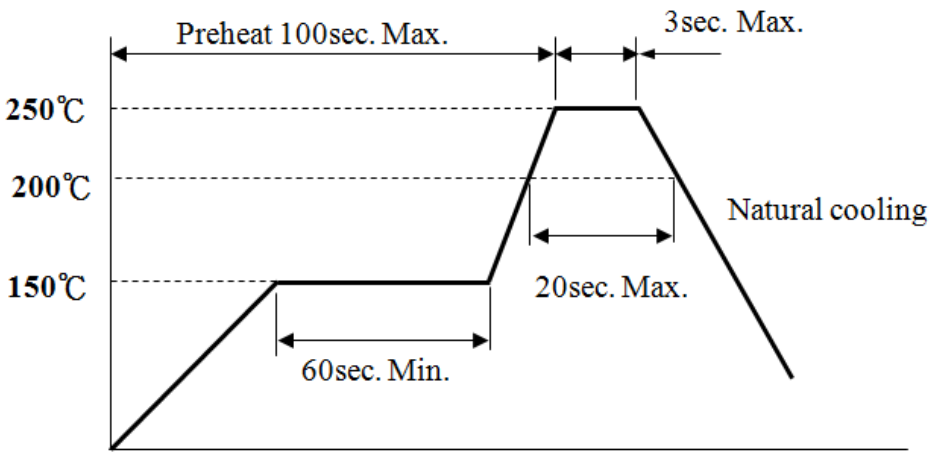




A0	7.2
B0	7.5
K0	3.6
P	12.0
t	0.3
W	16
E	1.75
F	7.5
D	1.5

Dimension: mm

REFLOW PROFILE:



ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.

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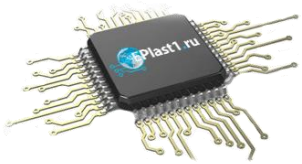
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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Факс: 8 (812) 320-02-42
Электронная почта: org@eplast1.ru
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.