ASPI-0630LR





> 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

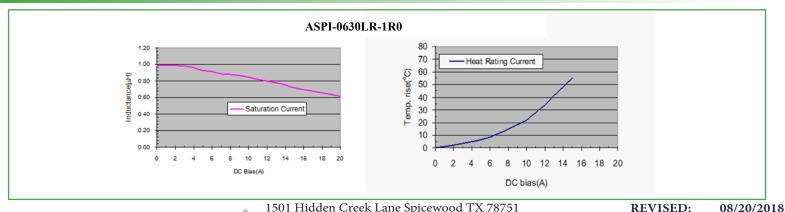
Abracon P/N:	ASPI-0630LR Series		
Operating Temperature & Humidity:	-55°C to +125°C (Including self generated heat)		
Storage Temperature & Humidity:	+25°C to +35°C, 45% to 85% RH		

Part Number	Inductance	Tolerance	DCR Typ	DCR Max	Saturation Current	Temperature Rise Current
Units	μН	%	${ m m}\Omega$	${ m m}\Omega$	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 ($\Delta L/Lo : \leq -30\%$)
- 4. Irms: Based on temperature rise ($\Delta T : 40^{\circ}C \text{ TYP.}$)

ELECTRICAL CHARACTERISTIC CURVES





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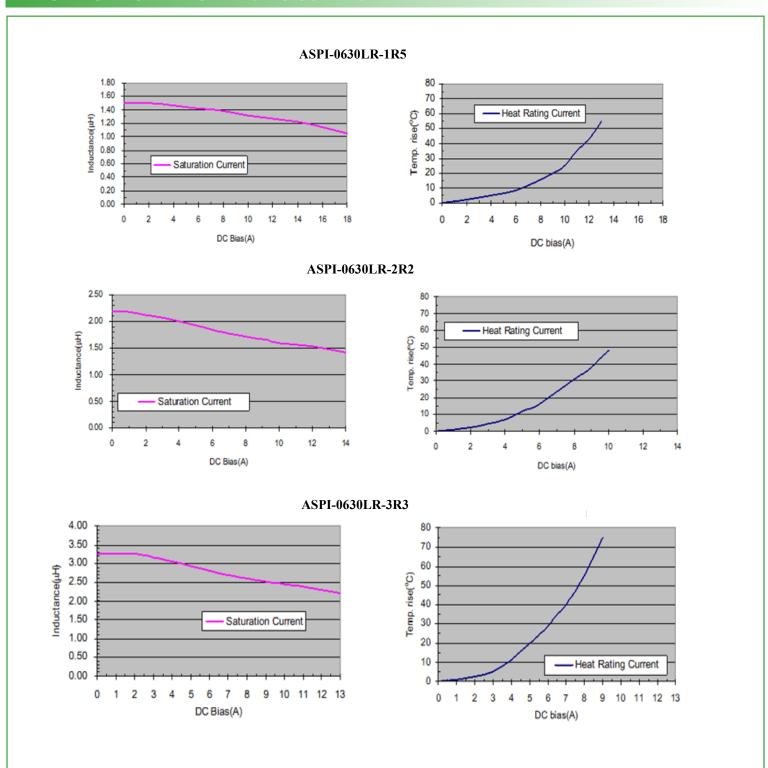
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ASPI-0630LR





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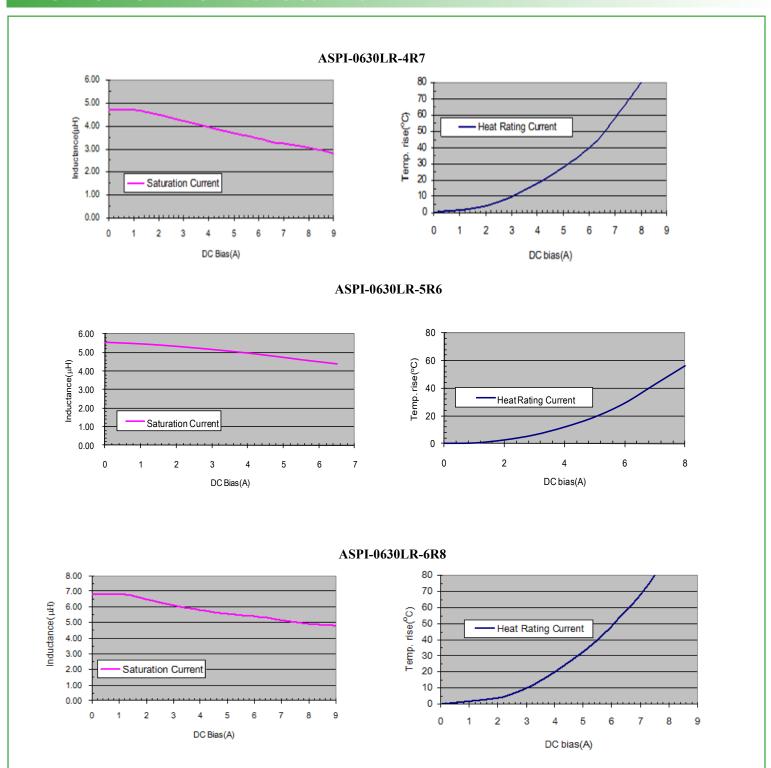
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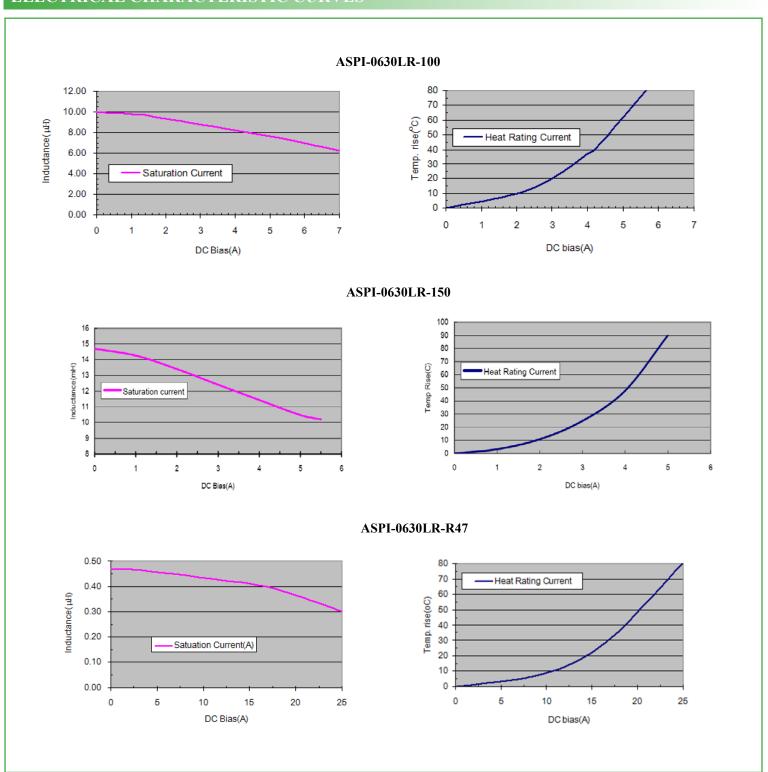


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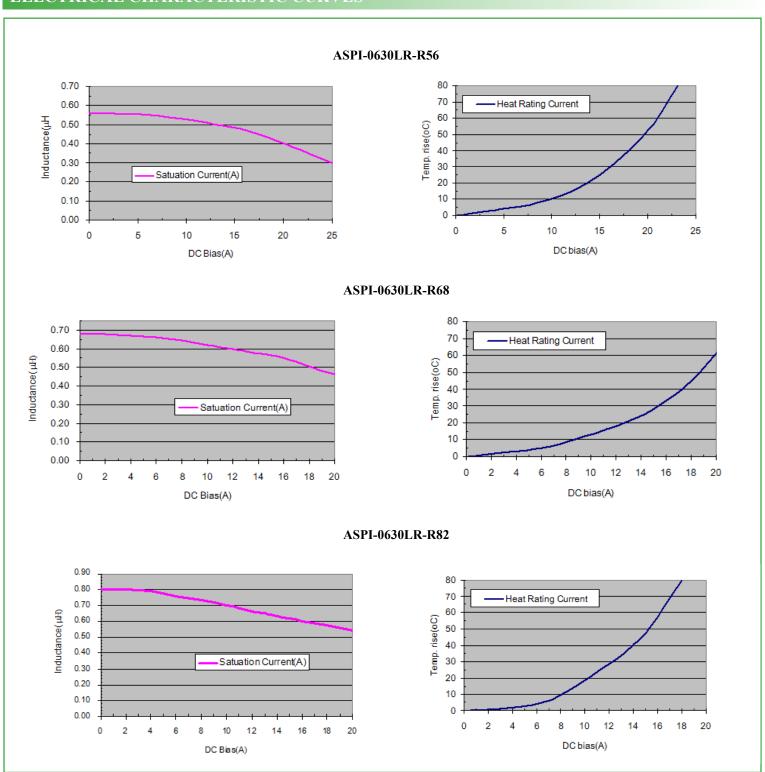
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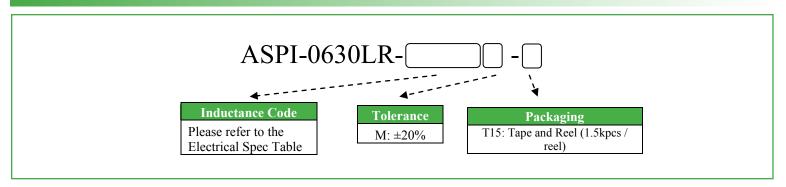
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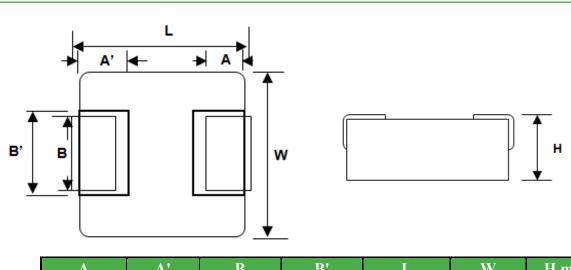




PART NUMBER IDENTIFICATION

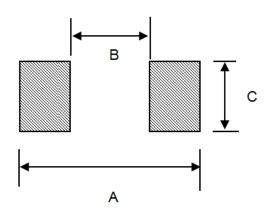


OUTLINE DRAWING:



A	A'	В	В'	L	\mathbf{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	В	C
8.4	3.7	3.4

Dimension: mm



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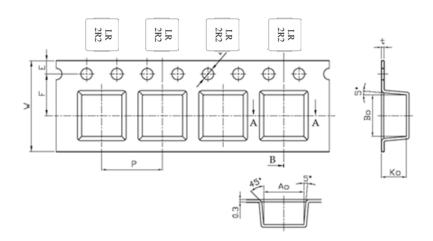
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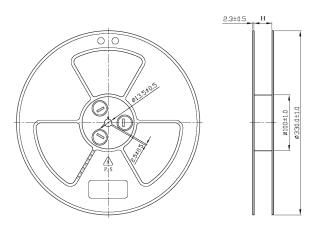


► TAPE & REEL:

T1: 1,500pcs / reel



A0	7.2	
В0	7.5	
K0	3.6	
P	12.0	
t	0.3	
W	16	
E	1.75	
F	7.5	
D	1.5	





Dimension: mm

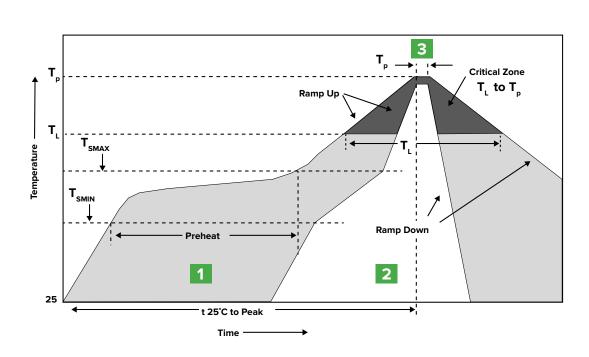


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REFLOW PROFILE:



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	Т _Р 260°С	30 sec. MAX

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