

ECN/PCN No.: M1342

For Manufacturer				
Product Description: MOLDING TYPE POWER INDUCTOR	Abracon Part Number / Part Series: ASPI-0630LR	□ Documentation only ⊠ ECN □ EOL	⊠ Series □ Part Number	
Affected Revision:	New Revision:	Application:	□ Safety	
A	В		🛛 Non-Safety	

Prior to Change:

1.0 Key Electrical Specifications

Part Number	Inductance	Tolerance	DCR Typ	DCR Max	Saturation Current	Temperature Rise Current
Units	μH	%	mΩ	mΩ	Α	Α
Symbol	L	М			Isat	Irms
ASPI-0630LR-R47	0.47	М	3.5	4.1	20.0	18.0
ASPI-0630LR-R56	0.56	М	4.7	5.0	18.0	17.0
ASPI-0630LR-R68	0.68	М	6.0	6.5	17.0	16.0
ASPI-0630LR-R82	0.82	М	7.0	7.5	16.0	14.0
ASPI-0630LR-1R0	1.0	М	8.5	9.0	15.0	12.0
ASPI-0630LR-1R5	1.5	М	10.5	12.0	14.0	10.0
ASPI-0630LR-2R2	2.2	М	16.0	18.5	10.0	8.0
ASPI-0630LR-3R3	3.3	М	25.0	28.0	10.0	6.5
ASPI-0630LR-4R7	4.7	М	32.5	35.0	6.5	5.5
ASPI-0630LR-5R6	5.6	М	32.5	35.5	5.0	6.0
ASPI-0630LR-6R8	6.8	М	54.0	60.0	6.0	4.5
ASPI-0630LR-100	10.0	М	62.0	68.0	5.5	4.0
ASPI-0630LR-150	15.0	М	110.0	120.0	5.0	3.0
ASPI-0630LR-220	22.0	М	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 ($\Delta T : 40^{\circ}C TYP$.)

Operating Temperature

-55°C to +125°C (Including self generated heat)

Storage Temperature and Humidity

+25°C to +35°C, 45% to 85% RH



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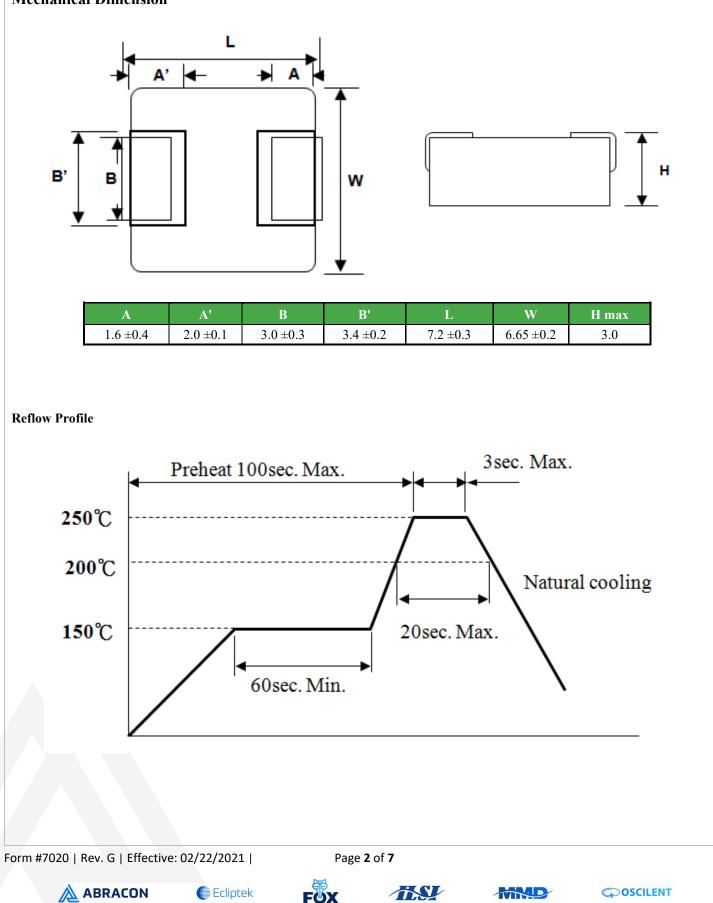






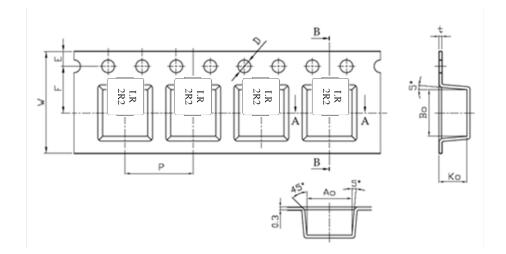


Mechanical Dimension





7.0 Packing T15: 1,500pcs / reel



A0	7.2
B 0	7.5
K0	3.6
Р	12.0
t	0.3
W	16
E	1.75
F	7.5
D	1.5

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After Change:

Electrical Specifications

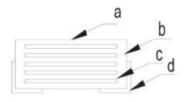
Part Number	Inductance	Tolerance	DCR Max	Saturation Current Typ.	Temperature Rise Current Typ.
Units	μH	%	mΩ	Α	Α
Symbol	L	М		Isat	Irms
ASPI-0630LR-R22	0.22	М	3.0	34.0	24.0
ASPI-0630LR-R33	0.33	М	3.5	23.0	21.0
ASPI-0630LR-R47	0.47	М	4.1	20.0	18.0
ASPI-0630LR-R56	0.56	М	5.0	18.0	16.0
ASPI-0630LR-R68	0.68	М	6.5	17.0	16.0
ASPI-0630LR-R82	0.82	М	7.5	16.0	14.0
ASPI-0630LR-1R0	1.0	М	9.0	15.0	12.0
ASPI-0630LR-1R5	1.5	М	12.1	12.0	10.0
ASPI-0630LR-2R2	2.2	М	18.5	10.0	8.0
ASPI-0630LR-3R3	3.3	М	28.0	9.5	6.5
ASPI-0630LR-4R7	4.7	М	35.0	6.5	5.5
ASPI-0630LR-5R6	5.6	М	42.0	5.0	5.0
ASPI-0630LR-6R8	6.8	М	60.0	6.0	4.5
ASPI-0630LR-8R2	8.2	М	60.0	5.5	5.0
ASPI-0630LR-100	10.0	М	68.0	5.5	4.0
ASPI-0630LR-150	15.0	М	120.0	4.0	3.0
ASPI-0630LR-220	22.0	М	170.0	2.5	2.5
ASPI-0630LR-330	33.0	М	270.0	2.5	2.0
ASPI-0630LR-470	47.0	М	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 (Δ L/Lo : \leq -30%) Irms: Based on temperature rise (Δ T : 40°C TYP.)

Materials

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



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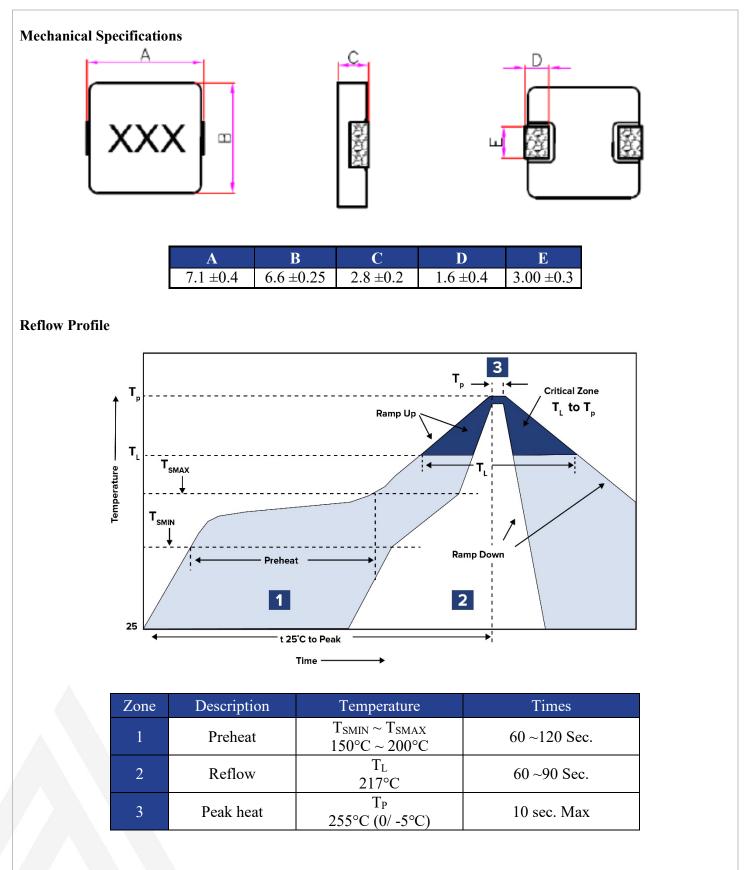












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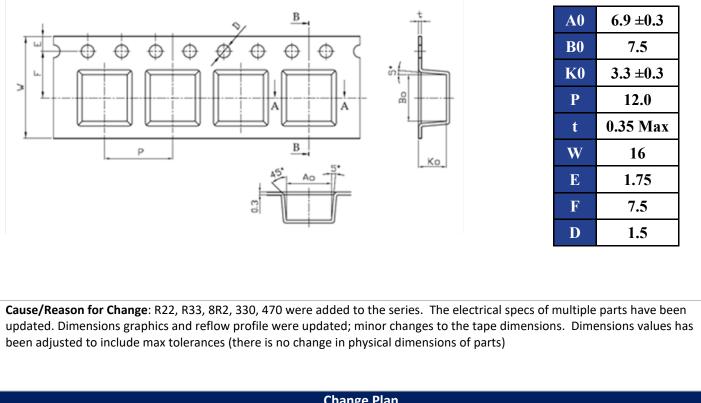






Packing

T15: 1,500pcs / reel



	Clidit	ge Plan	
Effective Date:	Additional Remarks:		
Change Declaration: The change	e does not affect the form or fit o	f any device in the series.	
Issued Date: 3/2/2022	Issued By:	Issued Department: Engineering	
Approval:	Approval:	Approval:	
	For Abrac	on EOL only	
Last Time Buy (if applicable):		Alternate Part Number / Part Series:	
Additional Approval:	Additional Approval:	Additional Approval:	
	Customer Appro	val (If Applicable)	
Qualification Status:		□ Not accepted ustomer 1 month after ECN/PCN is released.	
Note: It is considered approved i	f there is no jecuback from the et		













Company Name:	Company Representative:	Representative Signature:
Customer Remarks:		

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