

# LOW PROFILE SHIELDED SMD CHIP POWER INDUCTOR

ASPI-0615FS



**RoHS**  
Compliant



6.0 x 6.0 x 1.5mm

## FEATURES:

- Small size and low profile: 1.5mm
- Small DCR and high rated current
- High reliability to mechanical strength
- Magnetically shielded by magnetic powder molding
- Suitable for RoHS reflow profile

## APPLICATIONS:

- DC/DC converter for LCD display of notebook PC
- Portable communication equipment
- Digital cameras

## ELECTRICAL SPECIFICATIONS:

Abracon P/N:	ASPI-0612FS Series
Operating Temperature & Humidity:	-30°C to +100°C, 5% to 85% RH. Please avoid moisture due to the humidity.
Storage Temperature & Humidity:	-20°C to +60°C, 5% to 85% RH. Please avoid moisture due to the humidity.

Part Number	Inductance	DCR	Saturation Current	Temperature Rise Current	Marking
Units	$\mu\text{H} \pm 20\%$	$\text{m}\Omega \pm 20\%$	A	A	—
Symbol	L	DCR	Isat*	I <sub>rms</sub> *	—
ASPI-0615FS-2R2M	2.2	50	3.00	2.10	2R2
ASPI-0615FS-3R3M	3.3	70	2.70	1.90	3R3
ASPI-0615FS-4R7M	4.7	105	2.20	1.60	4R7
ASPI-0615FS-6R8M	6.8	130	1.95	1.40	6R8
ASPI-0615FS-100M	10	190	1.57	1.10	100
ASPI-0615FS-150M	15	270	1.35	1.05	150
ASPI-0615FS-220M	22	390	1.15	0.88	220
ASPI-0615FS-330M	33	550	0.97	0.72	330
ASPI-0615FS-470M	47	790	0.77	0.60	470

\*The rated current is subject to change depending upon the temperature cooling condition.

### Test Conditions

Inductance: 100kHz, 0.3V, Ta=20°C  
 DCR: Ta=20°C  
 Isat:  $\Delta L/L$  (initial)  $\geq -30\%$   
 I<sub>rms</sub>:  $\Delta T \leq 40^\circ\text{C}$

## OPTIONS AND PART IDENTIFICATION

ASPI-0615FS-  -

### Inductance Code

Please refer to the table above

### Packaging

T: Tape and Reel (1kpcs / reel)  
 T2: Tape and Reel (2.5kpcs / reel)

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6.0 x 6.0 x 1.5mm

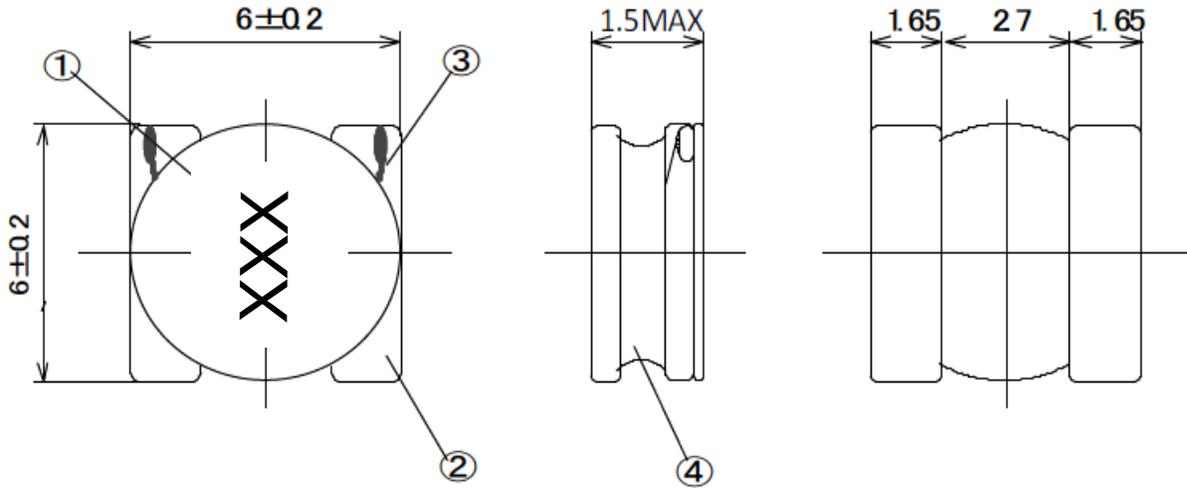
ASPI-0615FS



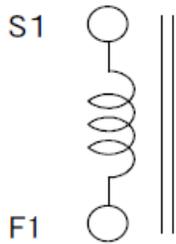
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## OUTLINE DRAWING:

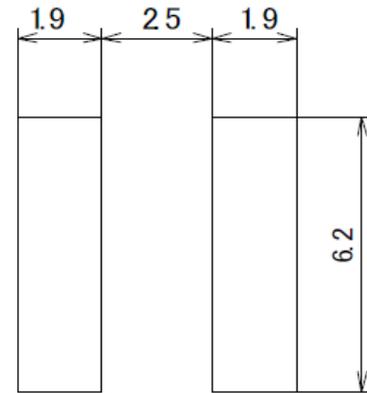
### Mechanical Dimensions



### Circuit Schematic



### Recommended Land Pattern



No	Part Name	Material
1	Drum core	Ni-Zn Ferrite
2	Terminals	Copper alloy, Sn
3	Coil	Cu/UEW
4	Adhesive	Epoxy base resin
	Magnetic powder	Ni-Zn Ferrite

Dimension: mm

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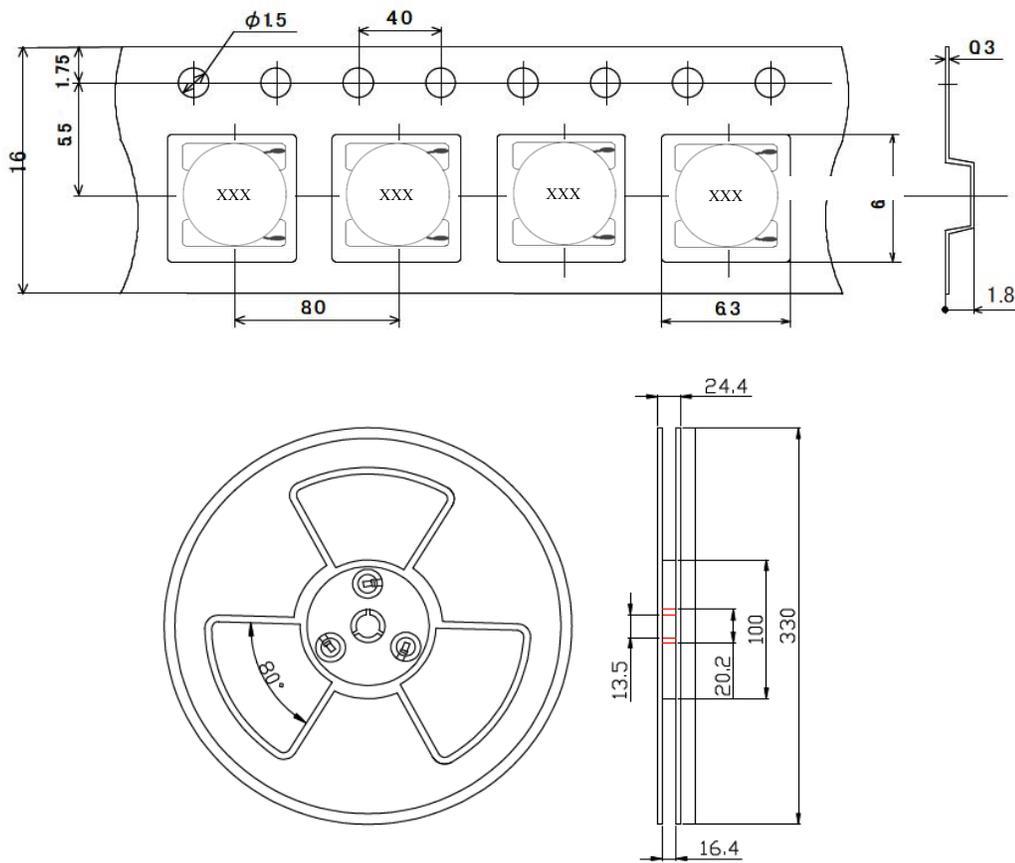
ASPI-0615FS



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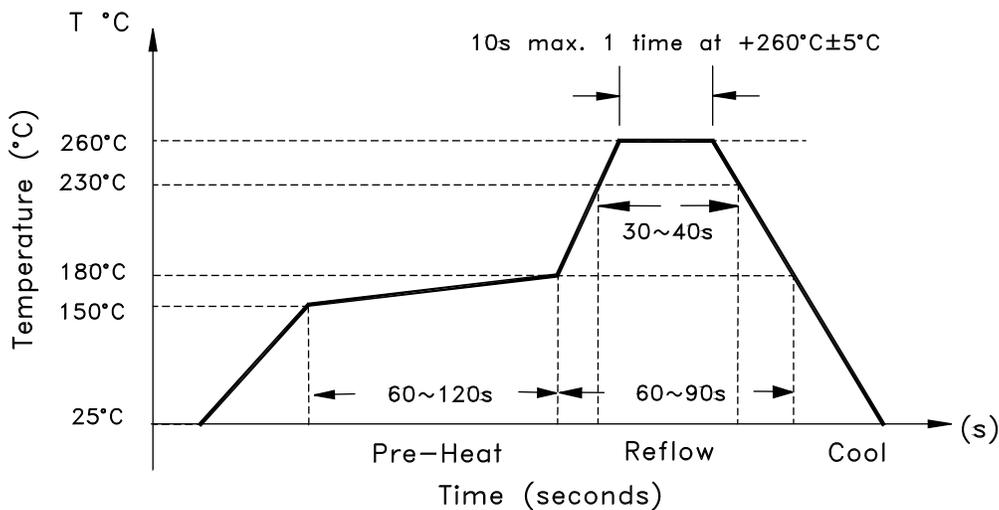
## TAPE & REEL:

T: 1,000pcs / reel  
T2: 2,500pcs / reel



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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