

ULTRA LOW PROFILE SHIELDED SMD CHIP POWER INDUCTOR

ASPI-0310FSSA



RoHS
Compliant



3.0 x 3.0 x 1.0mm

► FEATURES:

- Small size and low profile: 1.0mm
- Small DCR and high rated current
- High reliability to mechanical stress
- Magnetically shielded by magnetic powder molding
- Suitable for RoHS reflow profile

► APPLICATIONS:

- Mobile phones
- MP3 & 4 and other portable communication equipment
- Digital cameras.

► ELECTRICAL SPECIFICATIONS:

Abracor P/N:	ASPI-0310FSSA 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*	Irms*	—
ASPI-0310FSSA-2R2M	2.2	95	1.10	1.10	2R2
ASPI-0310FSSA-3R3M	3.3	140	0.90	0.95	3R3
ASPI-0310FSSA-4R7M	4.7	170	0.77	0.90	4R7
ASPI-0310FSSA-6R8M	6.8	300	0.63	0.70	6R8
ASPI-0310FSSA-100M	10.0	450	0.54	0.67	100
ASPI-0310FSSA-220M	22.0	1030	0.35	0.40	220

*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) $\geq -30\%$

Irms: $\Delta T \leq 40^\circ\text{C}$

► OPTIONS AND PART IDENTIFICATION

ASPI-0310FSSA - -

Inductance Code
Please refer to the table above

Packaging
T: Tape and Reel (1kpcs / reel)
T4: Tape and Reel (4kpcs / reel)

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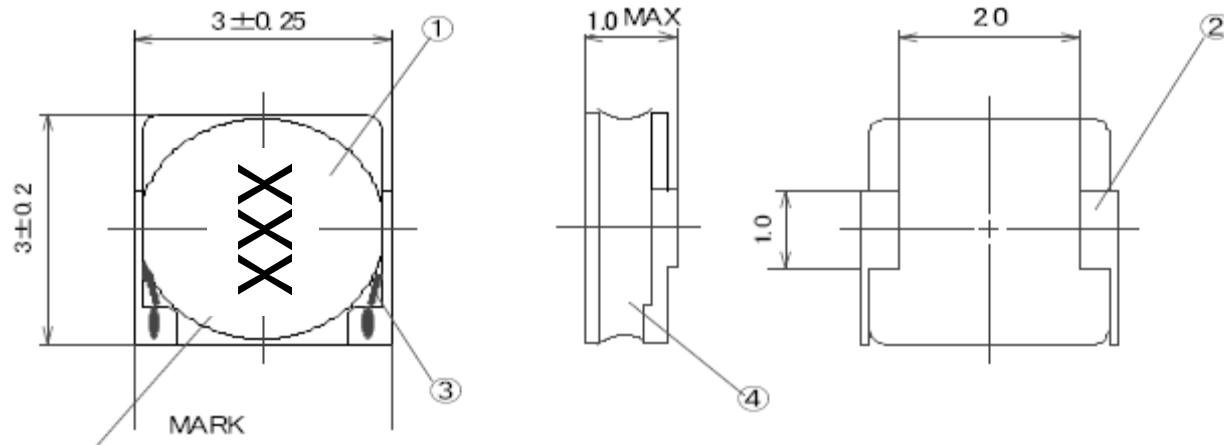
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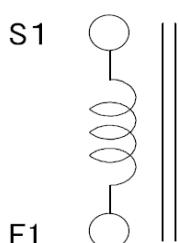
3.0 x 3.0 x 1.0mm

► OUTLINE DRAWING:

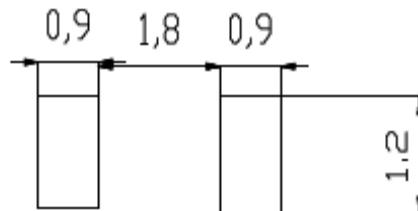
Mechanical Dimensions



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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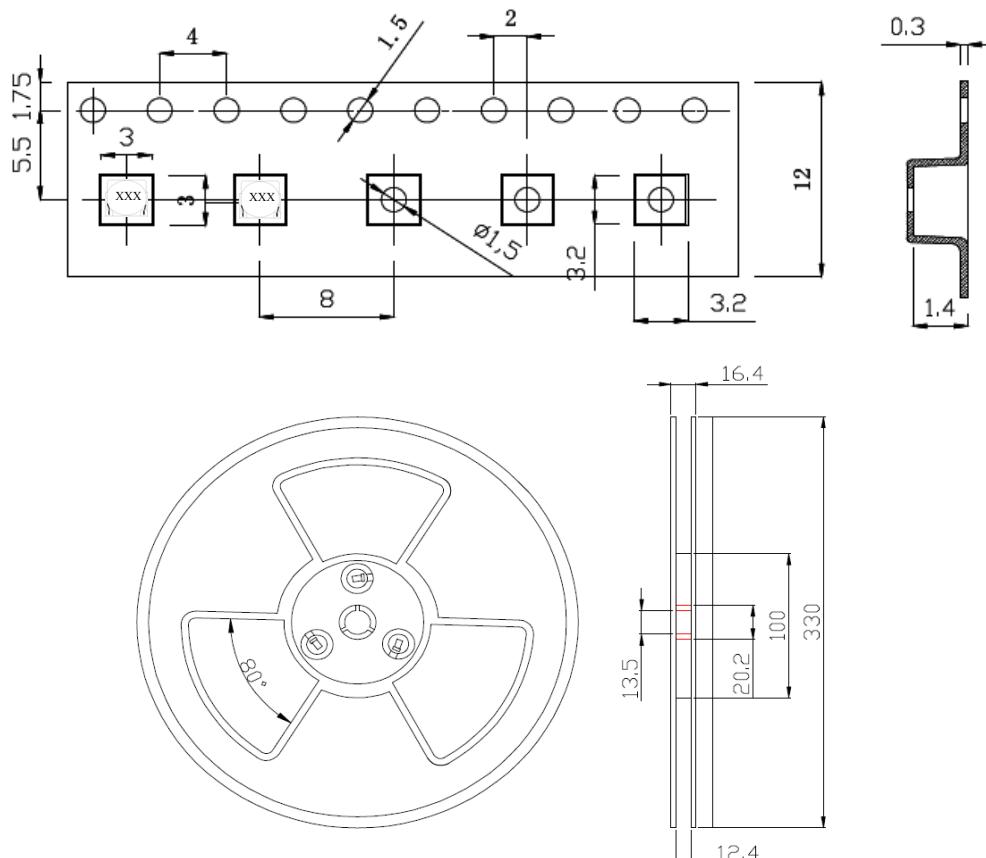


3.0 x 3.0 x 1.0mm

TAPE & REEL:

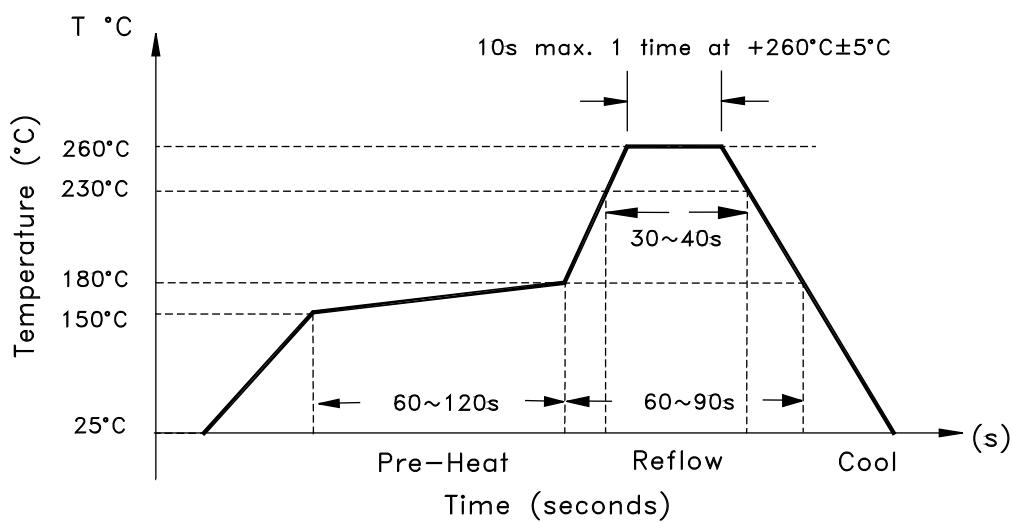
T: 1,000pcs / reel

T4: 4,000pcs / 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.

ABRACON IS
ISO9001:2008
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