ULTRA LOW PROFILE SHIELDED SMD CHIP POWER INDUCTOR



ASPI-0310FSSA

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

RoHS

Compliant

· Digital cameras.

ELECTRICAL SPECIFICATIONS:

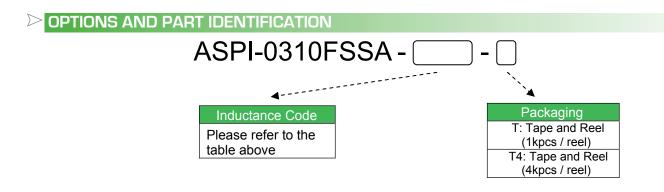
Abracon P/N:	ASPI-0310FSSA Series
Operating Temperature & Humidity:	-30°C to +100°C, 5% to 85% RH. Please avoid moisture due to the humidity.
Storage Temperature & Humidity:	-20°C to +60°C, 5% to 85% RH. Please avoid moisture due to the humidity.

Part Number	Inductance	DCR	Saturation Current	Temperature Rise Current	Marking
Units	μ H±20%	m Ω ±20%	А	Α	_
Symbol	L	DCR	lsat*	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: $100kHz, 0.3V, Ta=20^{\circ}C$ DCR: $Ta=20^{\circ}C$ Isat: $\Delta L/L$ (initial) $\geq -30\%$ Irms: $\Delta T \leq 40^{\circ}C$





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3Q

3.0 x 3.0 x 1.0mm

➢ OUTLINE DRAWING: **Mechanical Dimensions** 1.0 MAX 20 3 ±0. 25 വ 3±0.2 1.0 3 (4) MARK **Circuit Schematic Recommended Land Pattern** 0,9 S1 1.8 0,9 വ -F1 Part Name No Material Ni-Zn Ferrite Drum core 1 Copper alloy, Sn 2 Terminals Coil Cu/UEW 3 Epoxy base resin Adhesive 4 Magnetic powder Ni-Zn Ferrite **Dimension: mm**





Visit www.abracon.com for Terms & Conditions of Sale **Revised: 09.10.10** 30332 Esperanza, Rancho Santa Margarita, California 92688 tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

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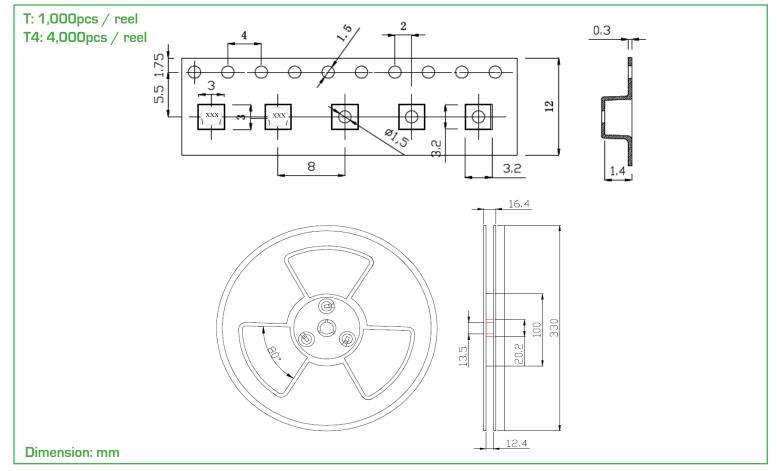


RoHS

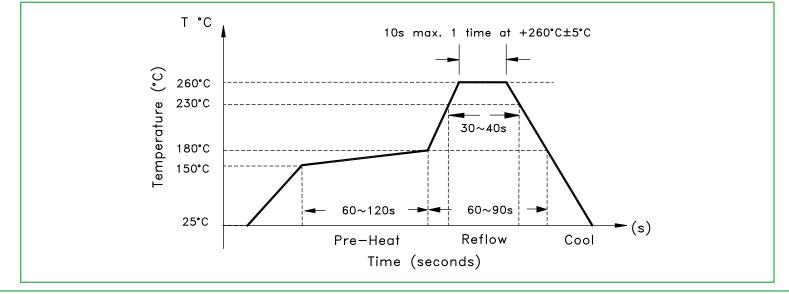
Compliant

ASPI-0310FSSA

▷ TAPE & REEL:



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 CERTIFIED



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