## 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
- · 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 <b>H±20%</b>	mΩ <b>±20</b> %	А	Α	-
Symbol	Г	DCR	Isat*	Irms*	1
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

<sup>\*</sup>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:  $\Delta T \leq 40^{\circ}C$ 

## > OPTIONS AND PART IDENTIFICATION







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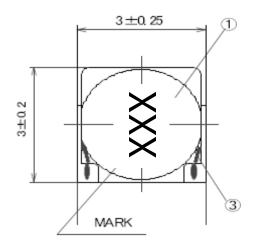
ASPI-0310FSSA

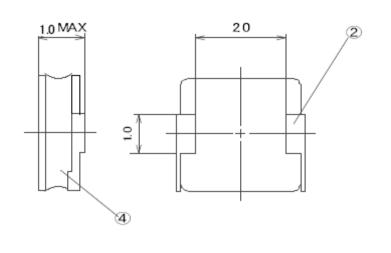




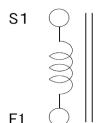
## **OUTLINE DRAWING:**

#### **Mechanical Dimensions**

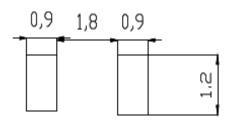




#### **Circuit Schematic**



#### **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** 



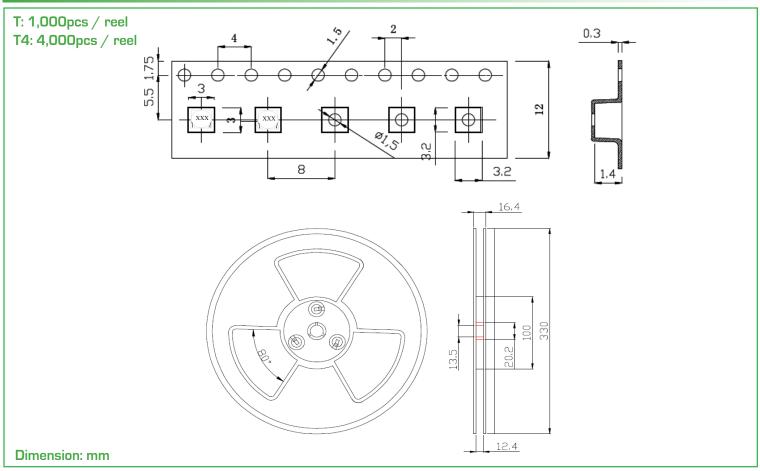
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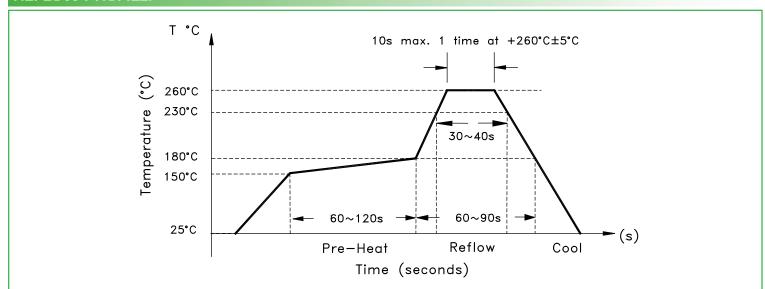




### > TAPE & REEL:



### REFLOW PROFILE:



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