# LOW PROFILE SHIELDED SMD CHIP POWER INDUCTOR

ASPI-0312FSSA





### > FEATURES:

- Small size and low profile: 1.2mm
- · 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-0312FSSA 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	μH±20%	mΩ±20%	А	А	-
Symbol	L	DCR	Isat*	Irms*	-
ASPI-0312FSSA-2R0M	2.0	69	1.55	1.35	2R0
ASPI-0312FSSA-3R3M	3.3	100	1.20	1.10	3R3
ASPI-0312FSSA-4R7M	4.7	130	1.00	1.00	4R7
ASPI-0312FSSA-6R8M	6.8	210	0.84	0.80	6R8
ASPI-0312FSSA-100M	10.0	290	0.73	0.70	100
ASPI-0312FSSA-220M	22.0	700	0.43	0.40	220

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

#### **Test Conditions**

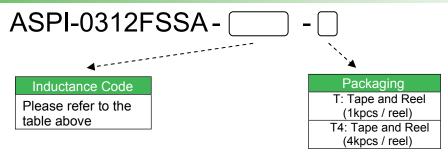
Inductance: 100kHz,0.3V, Ta=20°C

DCR: Ta=20°C

Isat:  $\Delta L/L$  (initial)  $\geq -30\%$ 

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

# > OPTIONS AND PART IDENTIFICATION







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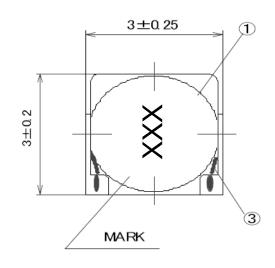
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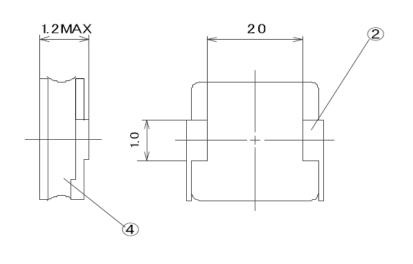




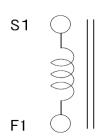
# **OUTLINE DRAWING:**

### **Mechanical Dimensions**

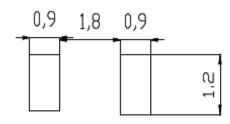




#### **Circuit Schematic**



### **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



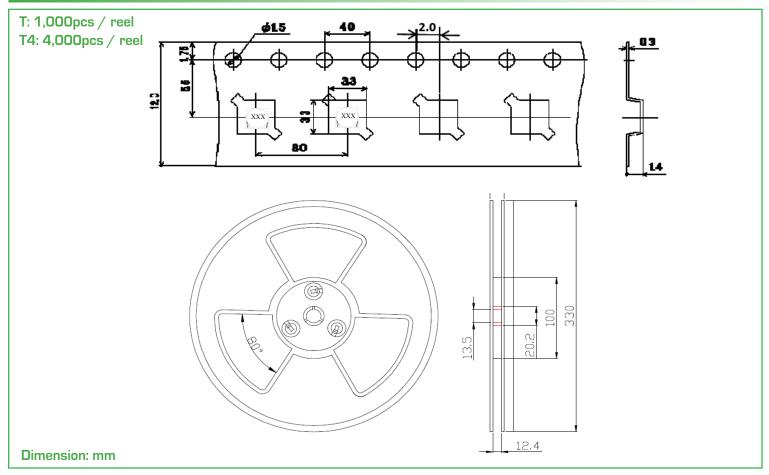
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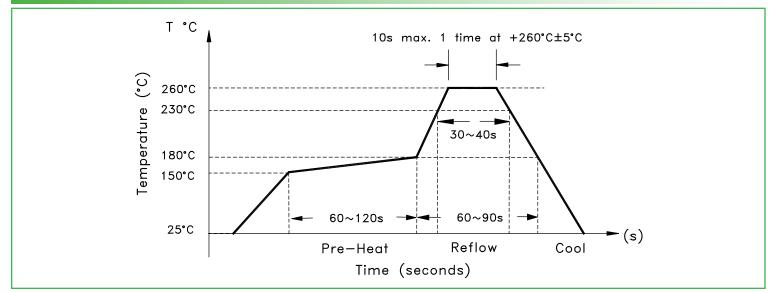




## > TAPE & REEL:



# REFLOW PROFILE:



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