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
Storage Temperature & Humidity:	-20°C to +60°C, 5% to 85% RH

Part Number	Inductance	DCR	Saturation Current	Temperature Rise Current	Marking
Units	μH±20%	mΩ±20%	A	A	-
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

^{*}The rated current is subject to change depending upon the temperature cooling condition.

Test Conditions

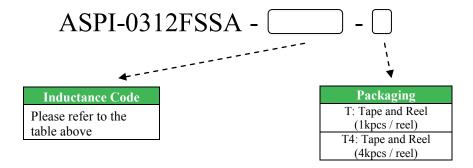
Inductance: 100kHz, 0.3V, Ta=20°C

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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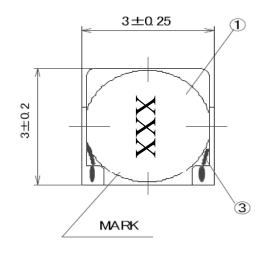
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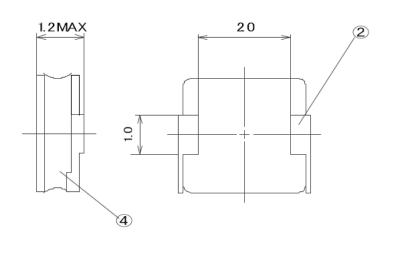




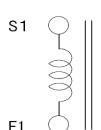
OUTLINE DRAWING:

Mechanical Dimensions

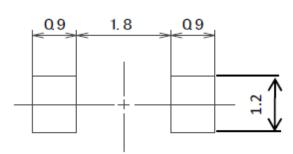




Circuit Schematic



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



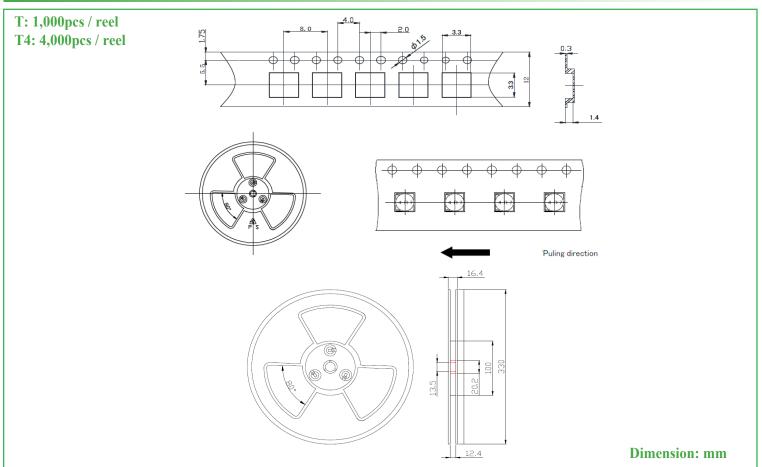
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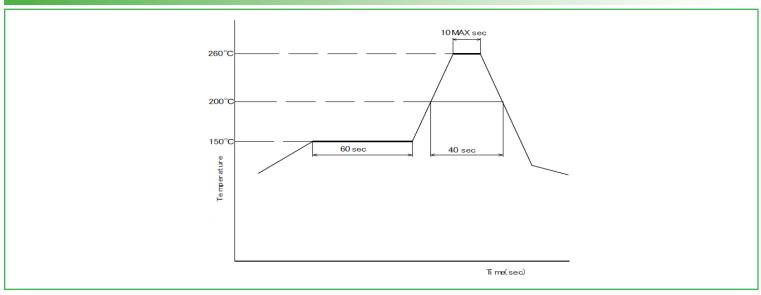




> TAPE & REEL:



REFLOW PROFILE:



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