LOW PROFILE SHIELDED SMD CHIP POWER INDUCTOR

ASPI-0315FS





> FEATURES:

- Small size and low profile: 1.5mm
- · 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-0310FS 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-0315FS-2R2M	2.2	60	1.45	1.45	2R2
ASPI-0315FS-3R3M	3.3	80	1.22	1.25	3R3
ASPI-0315FS-4R7M	4.7	120	1.02	1.10	4R7
ASPI-0315FS-6R8M	6.8	160	0.87	0.90	6R8
ASPI-0315FS-100M	10.0	230	0.70	0.85	100
ASPI-0315FS-220M	22.0	550	0.50	0.50	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: $\Delta T \leq 40^{\circ}C$

> OPTIONS AND PART IDENTIFICATION







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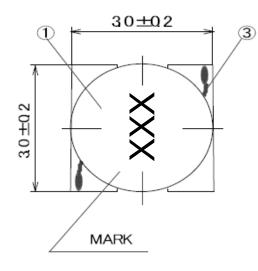
ASPI-0315FS

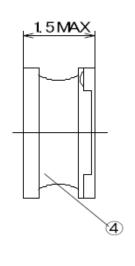


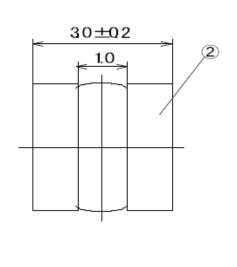


OUTLINE DRAWING:

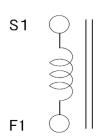
Mechanical Dimensions



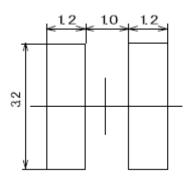




Circuit Schematic



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
4	Magnetic powder	Ni-Zn Ferrite

Dimension: mm



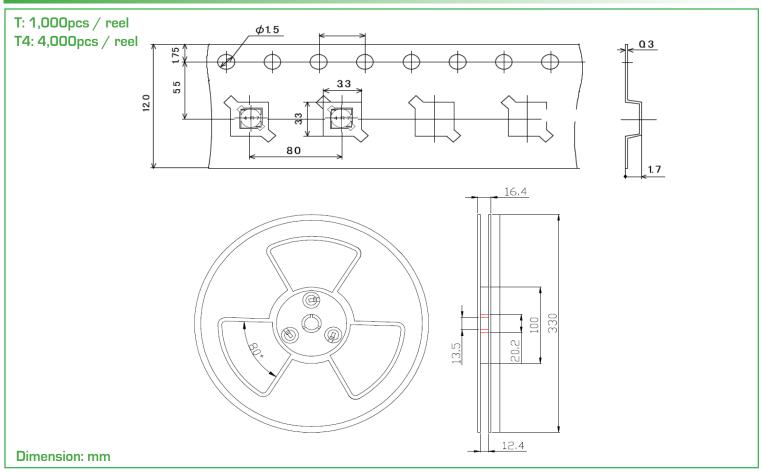
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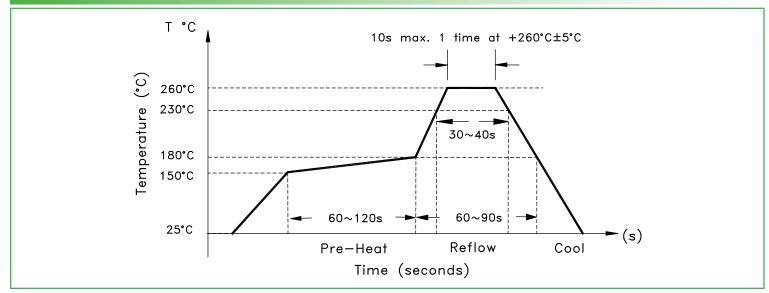




> TAPE & REEL:



REFLOW PROFILE:



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