LOW PROFILE SHIELDED SMD CHIP POWER INDUCTOR

ASPI-0312FS





> 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-0312FS 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	1
Symbol	L	DCR	Isat*	Irms*	1
ASPI-0312FS-2R2M	2.2	80	1.20	1.30	2R2
ASPI-0312FS-3R3M	3.3	100	1.10	1.15	3R3
ASPI-0312FS-4R7M	4.7	130	0.88	1.10	4R7
ASPI-0312FS-6R8M	6.8	190	0.77	0.85	6R8
ASPI-0312FS-100M	10.0	290	0.60	0.75	100
ASPI-0312FS-220M	22.0	630	0.38	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: $\Delta T \leq 40^{\circ}C$

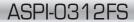
> OPTIONS AND PART IDENTIFICATION







LOW PROFILE SHIELDED SMD CHIP POWER INDUCTOR

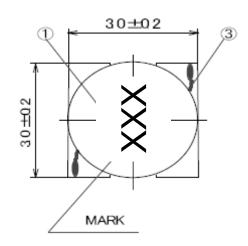


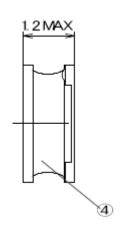


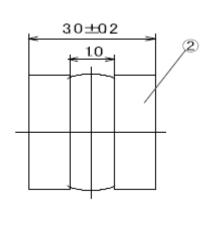


OUTLINE DRAWING:

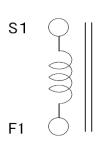
Mechanical Dimensions



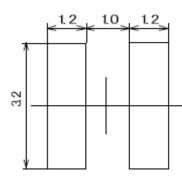




Circuit Schematic



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



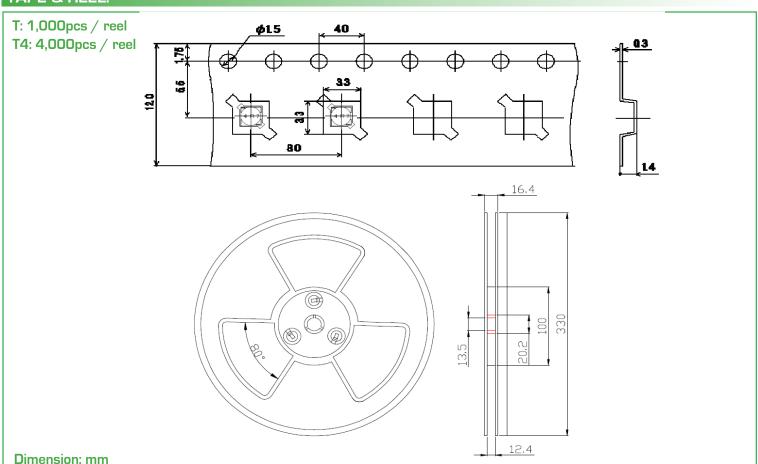
LOW PROFILE SHIELDED SMD CHIP POWER INDUCTOR

ASPI-0312FS

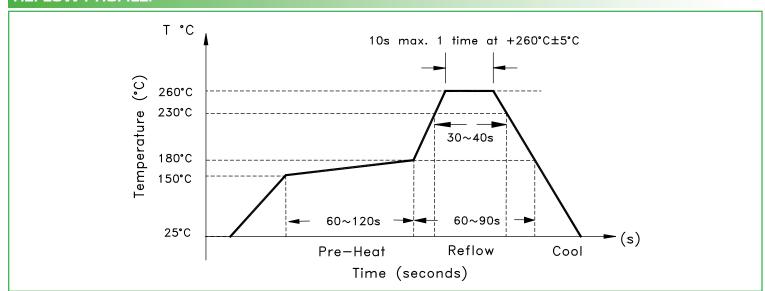




> TAPE & REEL:



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.



