LOW PROFILE SHIELDED SMD CHIP POWER INDUCTOR

ASPI-0418FS





> FEATURES:

- Small size and low profile: 1.8mm
- · Small DCR and high rated current
- · High reliability to mechanical strength
- · 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-0418FS Series
I	Operating Temperature & Humidity:	-30°C to +100°C, 5% to 85% RH. Please avoid moisture due to the humidity.
I	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	A	_
Symbol	L	DCR	Isat*	Irms*	_
ASPI-0418FS-2R2M	2.2	60	2.7	2.00	2R2
ASPI-0418FS-3R3M	3.3	70	2.35	1.80	3R3
ASPI-0418FS-4R7M	4.7	90	1.90	1.40	4R7
ASPI-0418FS-6R8M	6.8	110	1.70	1.20	6R8
ASPI-0418FS-100M	10	180	1.25	1.00	100
ASPI-0418FS-220M	22	360	0.95	0.75	220

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

Test Conditions

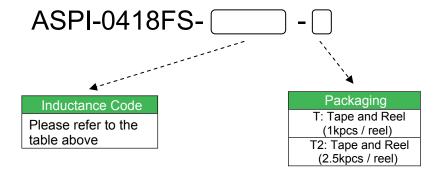
Inductance: 100kHz,0.3V, Ta=20°C

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

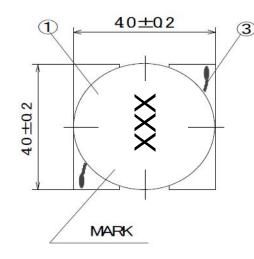
ASPI-0418FS

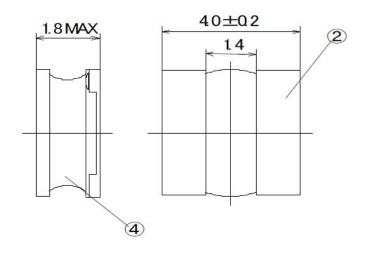




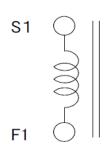
OUTLINE DRAWING:

Mechanical Dimensions

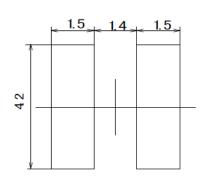




Circuit Schematic



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





LOW PROFILE SHIELDED SMD CHIP POWER INDUCTOR

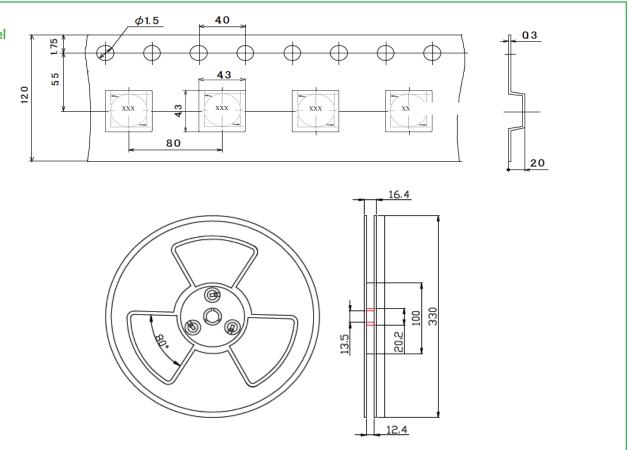
ASPI-0418FS





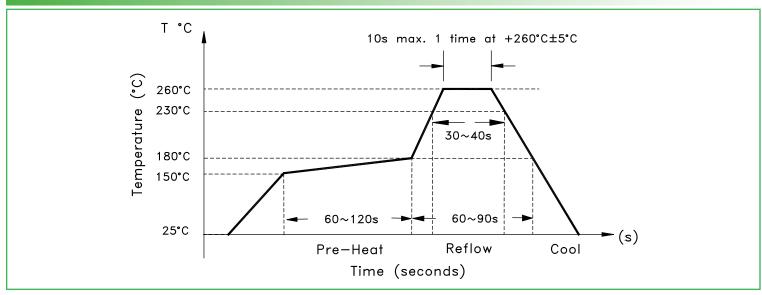
> TAPE & REEL:





REFLOW PROFILE:

Dimension: mm



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.



