LOW PROFILE SHIELDED SMD CHIP POWER INDUCTOR

ASPI-0412FS





> FEATURES:

- Small size and low profile: 1.2mm max
- Small DCR and high rated current
- · High reliability to mechanical strength
- Shielded by magnetic powder molding
- Suitable for RoHS compliant Reflow

> APPLICATIONS:

- · Mobile phones
- MP3, MP4 and other portable / communication products
- Digital cameras.

ELECTRICAL SPECIFICATIONS:

Abracon P/N:	ASPI-0412FS 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	$\mu H \pm 20\%$	$m\Omega \pm 20\%$	A	A	-
Symbol	L	DCR	Isat*	Irms*	-
ASPI-0412FS-2R2M	2.2	70	1.80	1.65	2R2
ASPI-0412FS-3R3M	3.3	100	1.55	1.40	3R3
ASPI-0412FS-4R7M	4.7	130	1.20	1.15	4R7
ASPI-0412FS-6R8M	6.8	180	1.05	0.95	6R8
ASPI-0412FS-100M	10	240	0.85	0.90	100
ASPI-0412FS-220M	22	550	0.60	0.55	220

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

Test Conditions

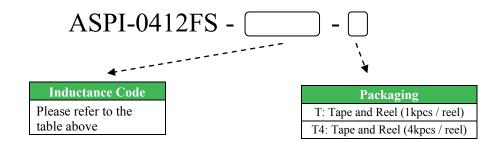
Inductance: 100kHz,0.3V, Ta=20°C

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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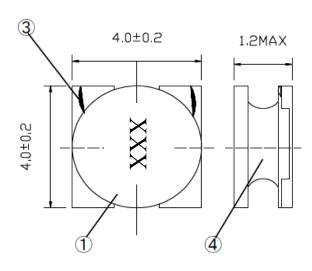
ASPI-0412FS

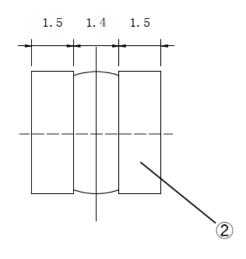




OUTLINE DRAWING:

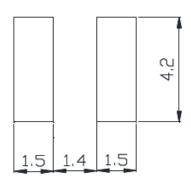
Mechanical Dimensions





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



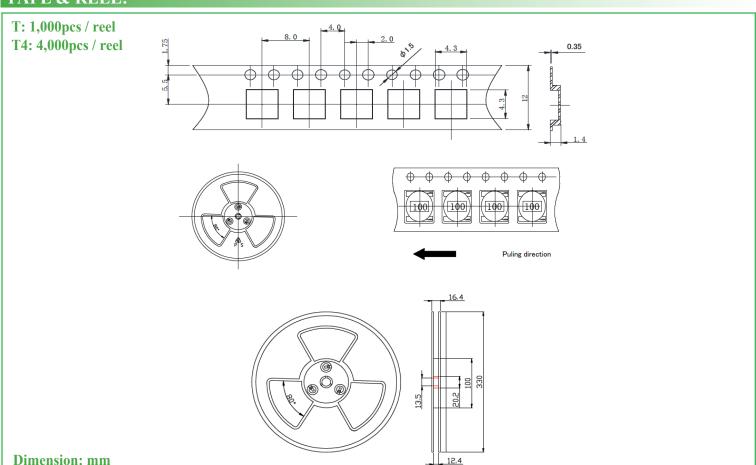
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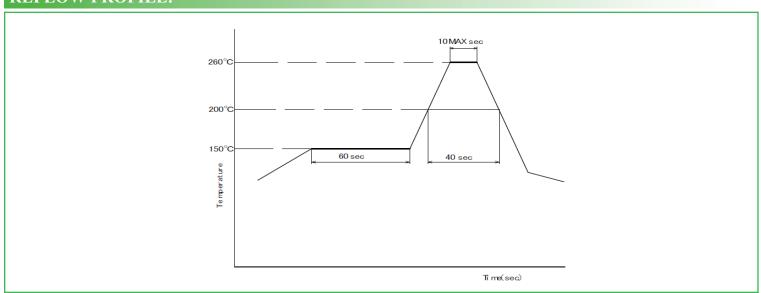




> TAPE & REEL:



REFLOW PROFILE:



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