

LOW PROFILE SHIELDED SMD CHIP POWER INDUCTOR

ASPI-0418FS



RoHS
Compliant



4.0 x 4.0 x 1.8mm

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
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	$\mu\text{H} \pm 20\%$	$\text{m}\Omega \pm 20\%$	A	A	—
Symbol	L	DCR	I_{sat}^*	I_{rms}^*	—
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, $T_a = 20^\circ\text{C}$

DCR: $T_a = 20^\circ\text{C}$

I_{sat} : $\Delta L/L$ (initial) $\geq -30\%$

I_{rms} : $\Delta T \leq 40^\circ\text{C}$

OPTIONS AND PART IDENTIFICATION

ASPI-0418FS- -

Inductance Code

Please refer to the table above

Packaging

T: Tape and Reel
(1kpcs / reel)

T2: Tape and Reel
(2.5kpcs / reel)



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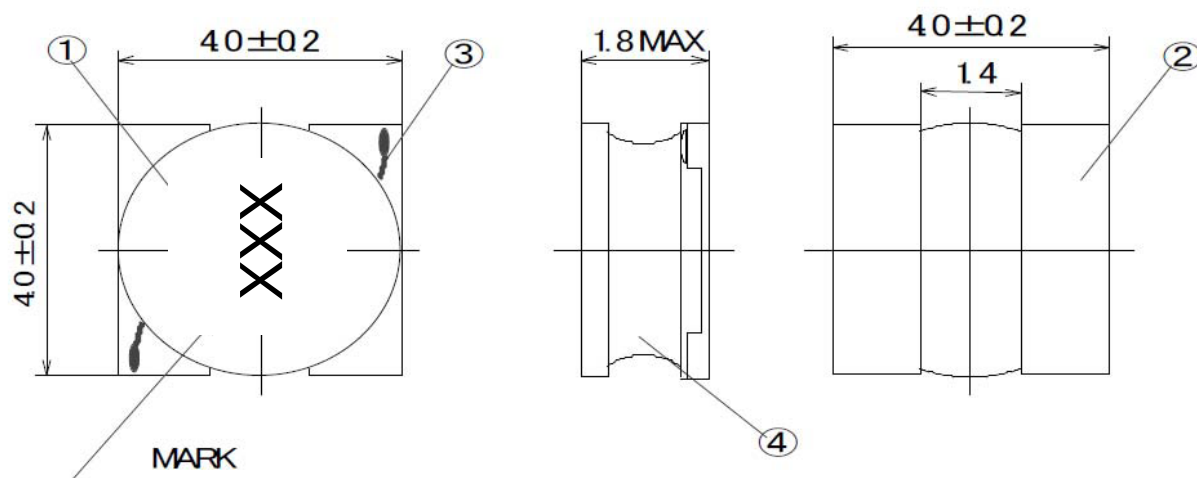
ASPI-0418FS



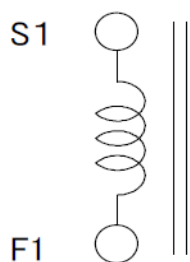
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OUTLINE DRAWING:

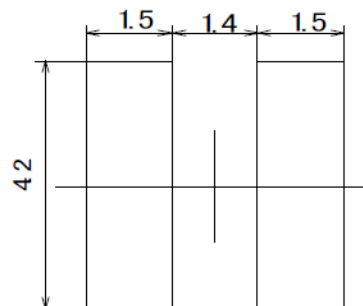
Mechanical Dimensions



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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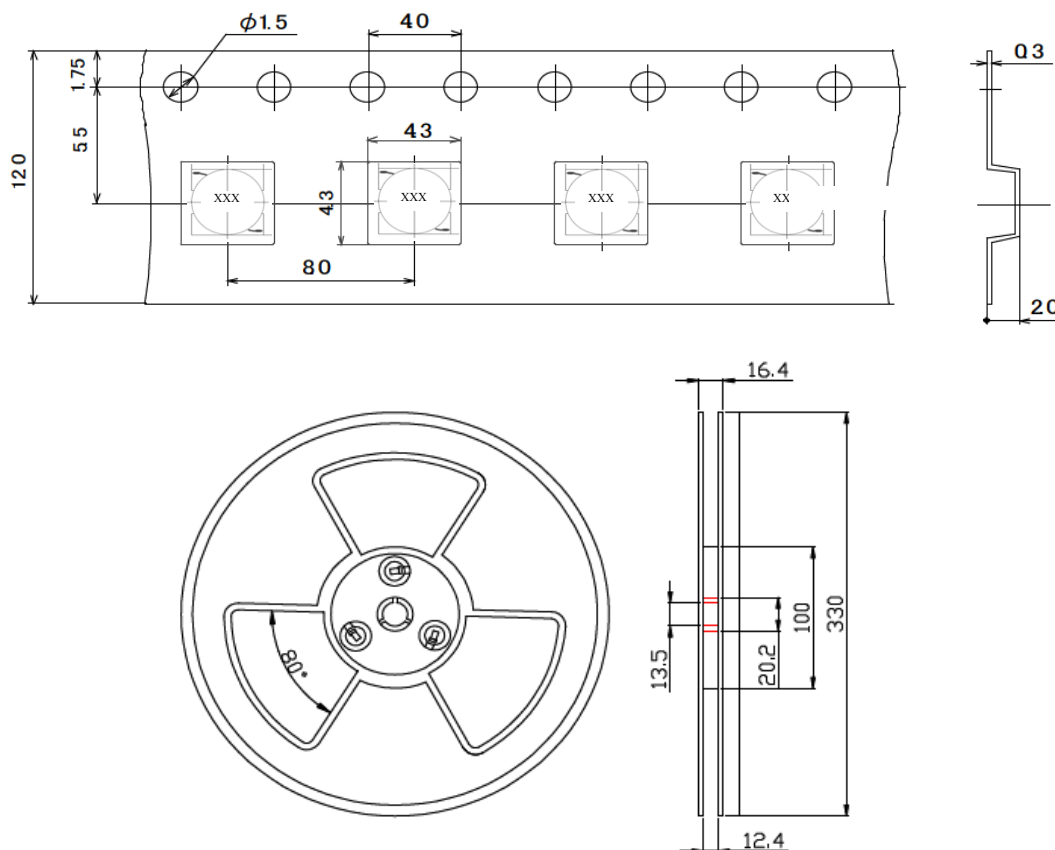
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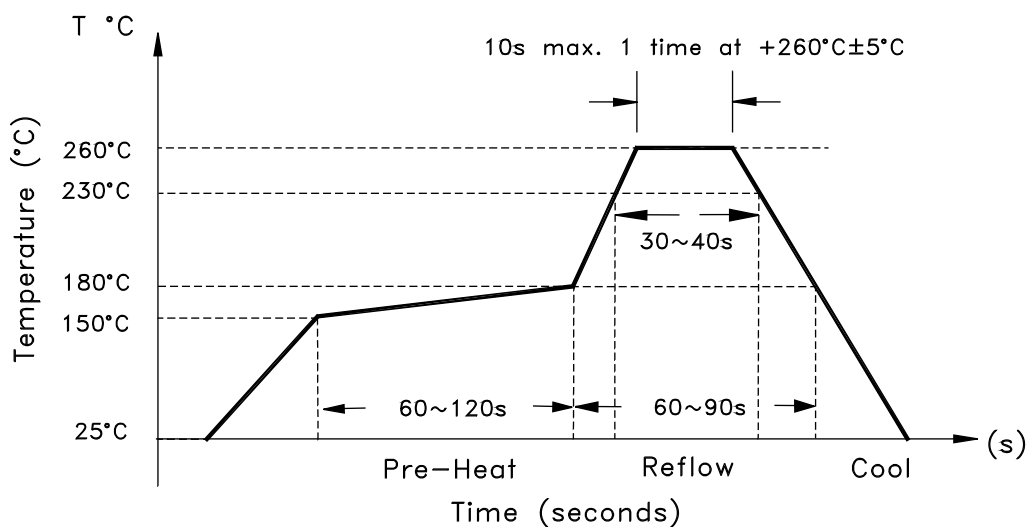
TAPE & REEL:

T: 1,000pcs / reel
T2: 2,500pcs / reel



Dimension: mm

REFLOW PROFILE:



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ABRACON IS
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