

LOW PROFILE SHIELDED SMD CHIP POWER INDUCTOR

ASPI-0315FSSA



RoHS
Compliant



3.0 x 3.0 x 1.5mm

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-0315FSSA 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	$\mu\text{H} \pm 20\%$	$\text{m}\Omega \pm 20\%$	A	A	—
Symbol	L	DCR	Isat*	Irms*	—
ASPI-0315FSSA-2R2M	2.2	60	1.6	1.28	2R2
ASPI-0315FSSA-3R3M	3.3	80	1.3	1.18	3R3
ASPI-0315FSSA-4R7M	4.7	110	1.1	1.00	4R7
ASPI-0315FSSA-6R8M	6.8	160	1.0	0.85	6R8
ASPI-0315FSSA-100M	10.0	200	0.82	0.75	100
ASPI-0315FSSA-220M	22.0	500	0.56	0.47	220
ASPI-0315FSSA-330M	33.0	800	0.44	0.40	330
ASPI-0315FSSA-470M	47.0	1200	0.37	0.33	470

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

Isat: $\Delta L/L$ (initial) $\geq -30\%$

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

OPTIONS AND PART IDENTIFICATION

ASPI-0315FSSA - -

Inductance Code

Please refer to the table above

Packaging

T: Tape and Reel
(1kpcs / reel)

T3: Tape and Reel
(3kpcs / reel)



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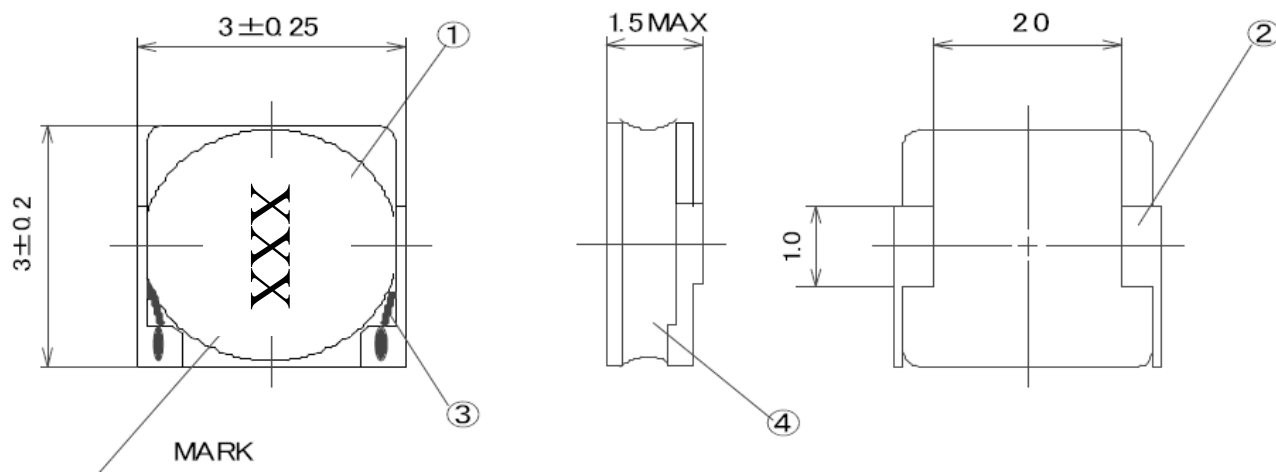
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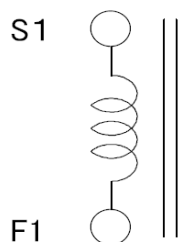
3.0 x 3.0 x 1.5mm

OUTLINE DRAWING:

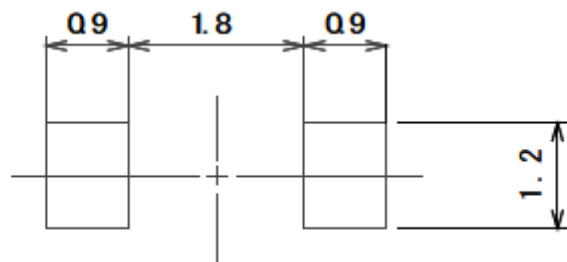
Mechanical Dimensions



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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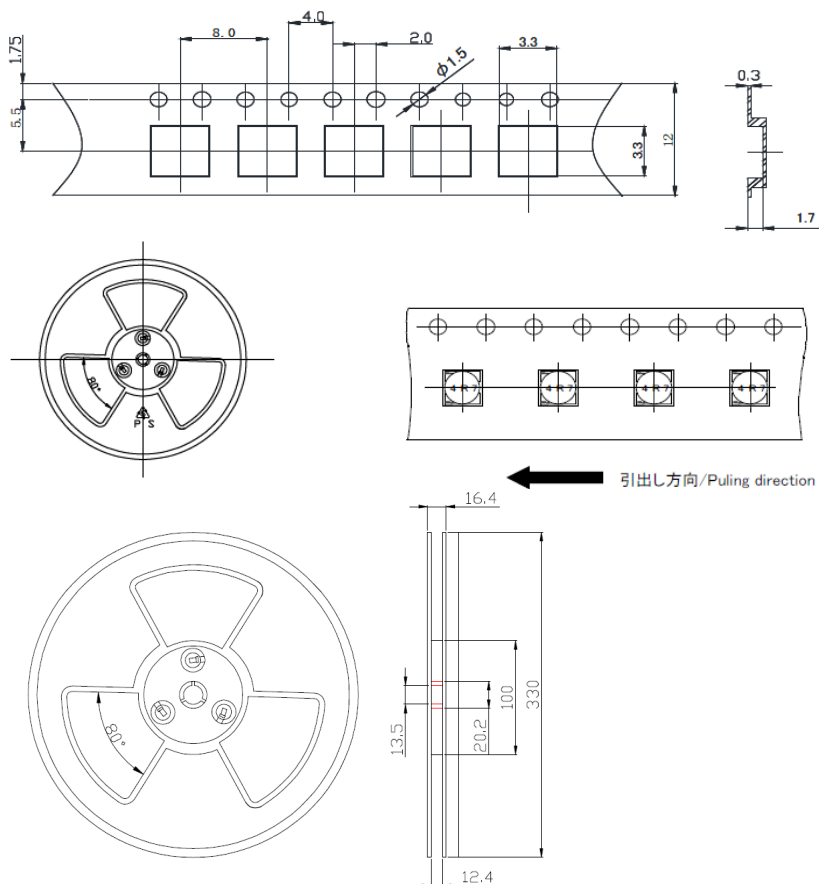
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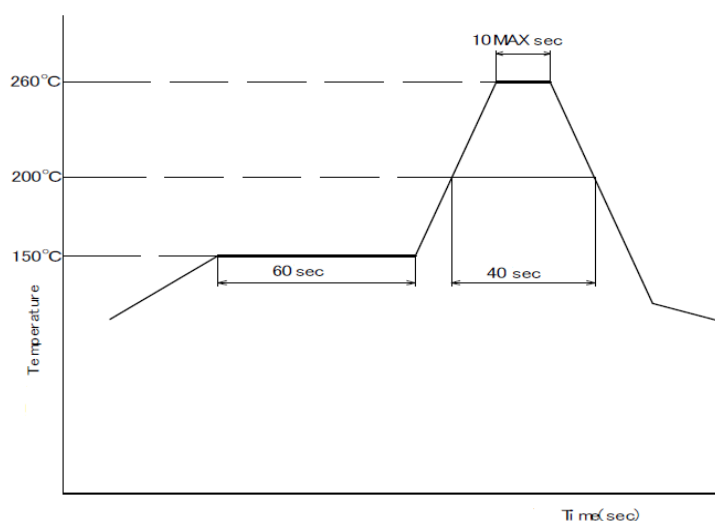
TAPE & REEL:

T: 1,000pcs / reel
T3: 3,000pcs / reel



Dimension: mm

REFLOW PROFILE:



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