LOW PROFILE SHIELDED SMD CHIP POWER INDUCTOR

3.0 x 3.0 x 1.5mm

ASPI-0315FSSA

Pb RoHS Compliant

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	µH±20%	mΩ±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, Ta=20˚C
DCR: Ta=20˚C
Isat: ΔL/L (initial) ≥ -30%
Irms: ΔT ≤ 40˚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)

30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

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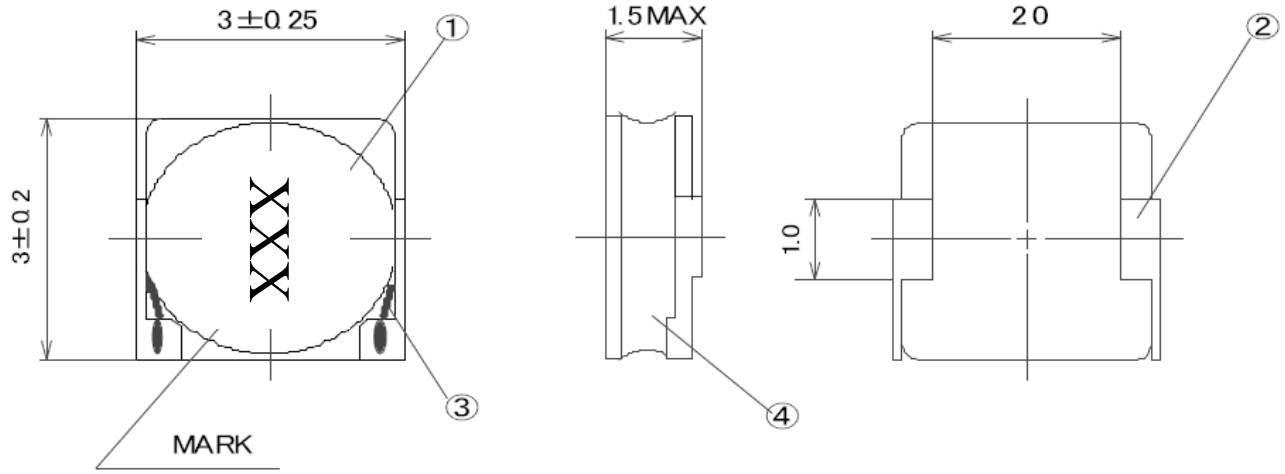
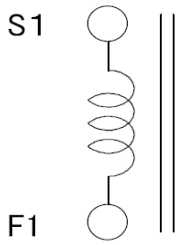
OUTLINE DRAWING:

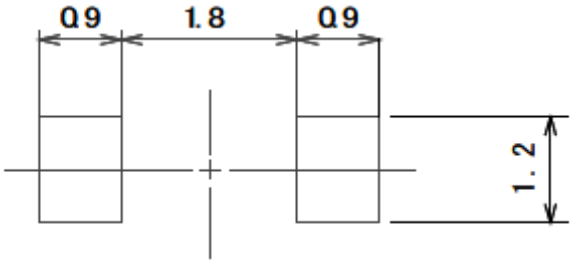
Mechanical Dimensions



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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TAPE & REEL:

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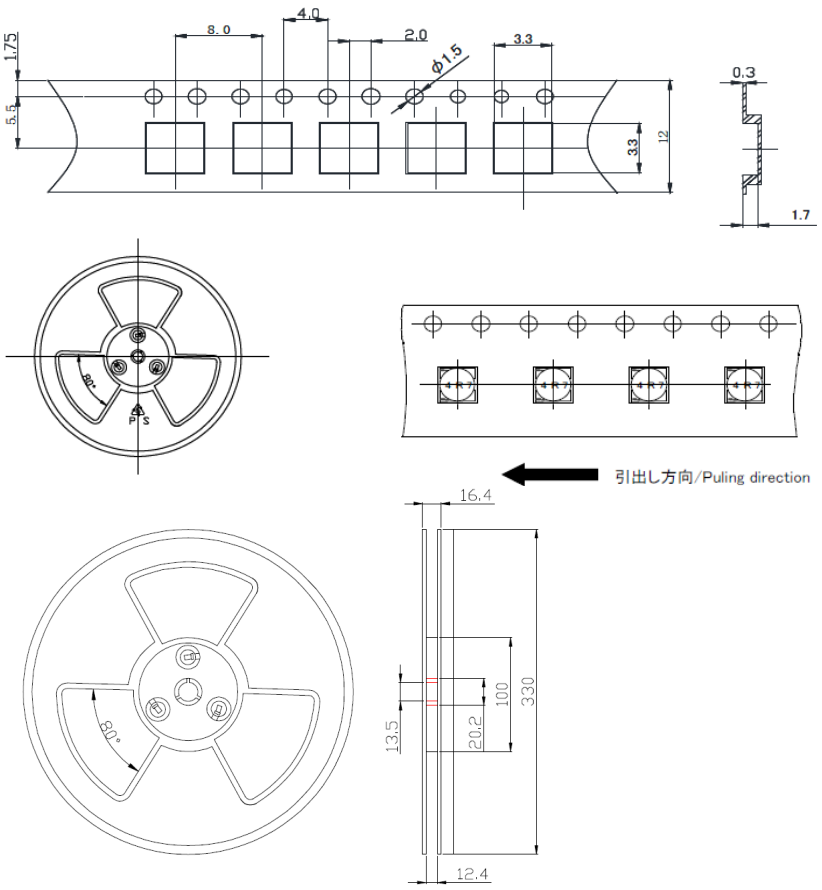
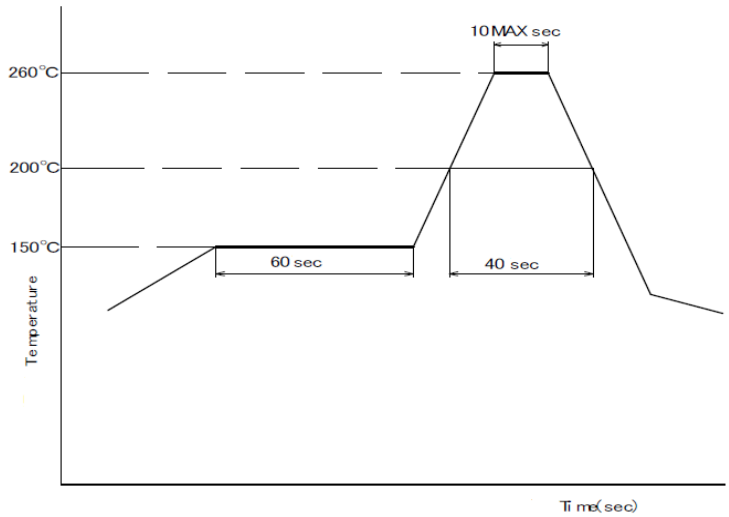
T3: 3,000pcs / reel



Dimension: mm

REFLOW PROFILE:



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