LOW PROFILE SHIELDED SMD CHIP POWER INDUCTOR

ASPI-0315FS





> 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:

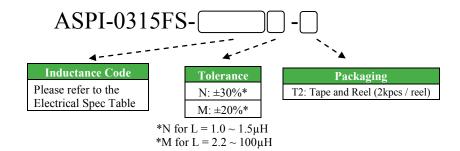
Abracon P/N:	ASPI-0315FS Series
Operating Temperature & Humidity:	-25°C to +120°C (Including self generated heat)
Storage Temperature & Humidity:	-10°C to +40°C, 30% to 70% RH

Part Number	Inductance	Inductance Tolerance	DCR	DCR Tolerance	Saturation Current	Temperature Rise Current
Units	μH	%	m Ω	%	A	A
Symbol	L	M, N	DCR		Isat	Irms
ASPI-0315FS-1R0	1.0	N	28	±30%	2.3	2.3
ASPI-0315FS-1R5	1.5	N	37	±30%	2.1	2.1
ASPI-0315FS-2R2	2.2	M	58		1.62	2
ASPI-0315FS-2R7	2.7	M	60		1.5	1.95
ASPI-0315FS-3R3	3.3	M	75		1.35	1.8
ASPI-0315FS-4R7	4.7	M	100		1.20	1.6
ASPI-0315FS-5R6	5.6	M	120		1.00	1.4
ASPI-0315FS-6R8	6.8	M	150]	0.97	1.3
ASPI-0315FS-100	10	M	220		0.8	1.1
ASPI-0315FS-150	15	M	300	±20%	0.65	1
ASPI-0315FS-220	22	M	475]	0.55	0.8
ASPI-0315FS-330	33	M	650	0.45 0.4 0.35	0.45	0.7
ASPI-0315FS-390	39	M	850		0.4	0.5
ASPI-0315FS-470	47	M	1100		0.35	0.45
ASPI-0315FS-680	68	M	1700		0.3	0.35
ASPI-0315FS-820	82	M	1900		0.27	0.32
ASPI-0315FS-101	100	M	2100		0.25	0.3

Test Conditions

- 1. Inductance is measured in HP-4285A Precision LCR Meter.
- 2. RDC is measured in DU-5011 milli ohm meter.(or equivalent).
- 3. Isat : Based on inductance change ($\Delta L/Lo : \leq -30\%$)
- 4. Irms: Based on temperature rise (ΔT : $40^{\circ}C$ TYP.)
- 5. Test Freq: 100KHz, 1Vrms

OPTIONS AND PART IDENTIFICATION



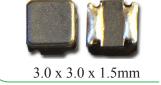




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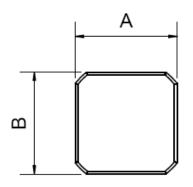
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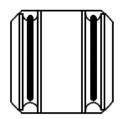




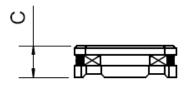
OUTLINE DRAWING:

Mechanical Dimensions

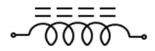




A	В	C Max.
3.0±0.1	3.0±0.1	1.5

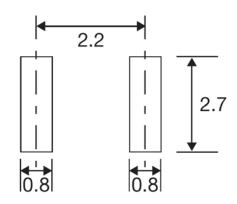


Circuit Schematic



No Polarity

Recommended Land Pattern



Dimension: mm

Materials

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

ABRACON IS ISO9001:2008 CERTIFIED



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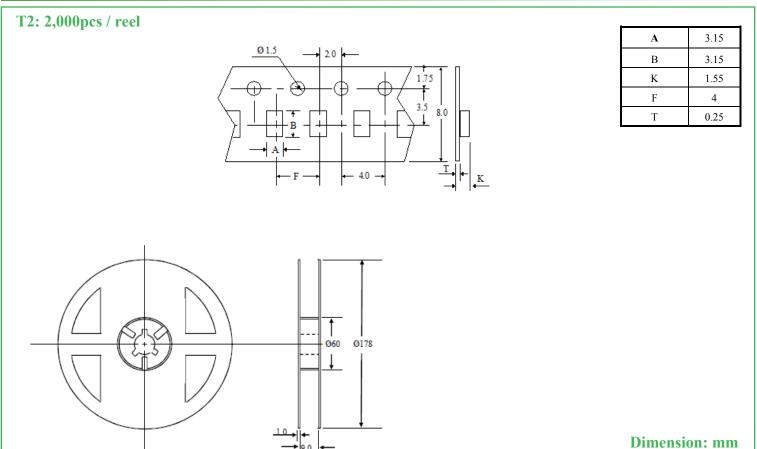


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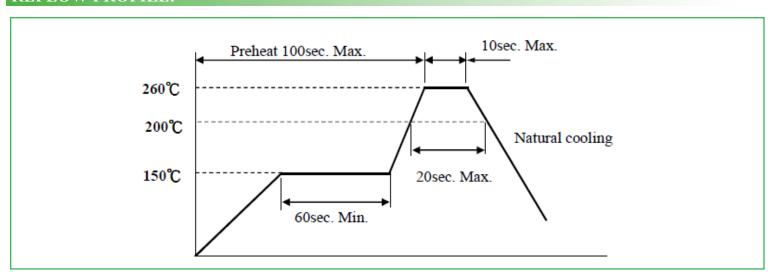


3.0 x 3.0 x 1.5mm

► TAPE & REEL:



REFLOW PROFILE:



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