

Low Profile Shielded SMD Chip Power Inductor

ASPI-2515 series



RoHS
Compliant



2.5 x 2.0 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:

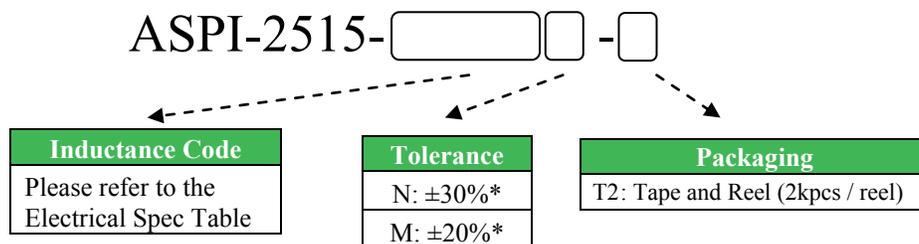
Abracon P/N:	ASPI-2515 Series
Operating Temperature & Humidity :	-25°C to +120°C (Including self generated heat)
Storage Temperature & Humidity:	-10°C to +40°C, 30% to 70% RH

Part Number	Inductance	DCR	Saturation Current	Temperature Rise Current
Units	μH	mΩ ± 20%	A	A
Symbol	L	DCR	Isat*	Irms*
ASPI-2515-1R0	1.0	68	1.95	1.75
ASPI-2515-1R5	1.5	100	1.75	1.45
ASPI-2515-2R2	2.2	133	1.50	1.25
ASPI-2515-3R3	3.3	182	1.20	1.05
ASPI-2515-4R7	4.7	265	1.00	0.89
ASPI-2515-6R8	6.8	400	0.85	0.73
ASPI-2515-100	10.0	490	0.72	0.66

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 ($\Delta L/L_0 \leq -30\%$)
4. Irms : Based on temperature rise ($\Delta T : 40^\circ\text{C TYP.}$)
5. Test Freq: 100KHz, 1Vrms

OPTIONS AND PART IDENTIFICATION



*N for L = 1~1.5μH

*M for L = 2.2 ~ 10μH

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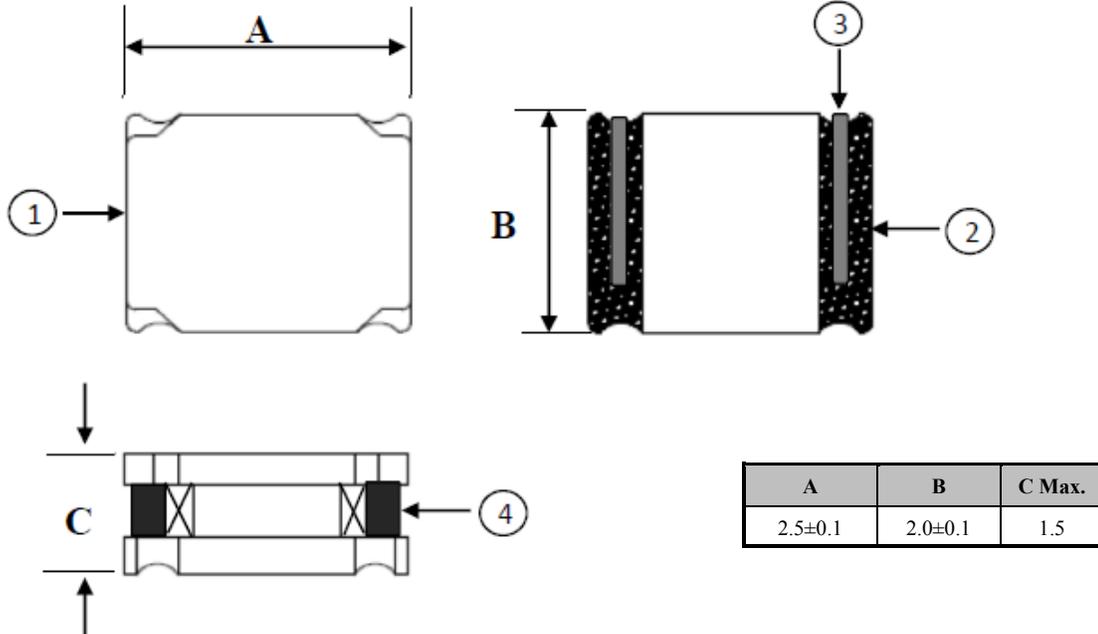
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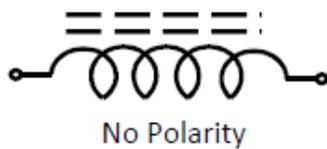
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OUTLINE DRAWING:

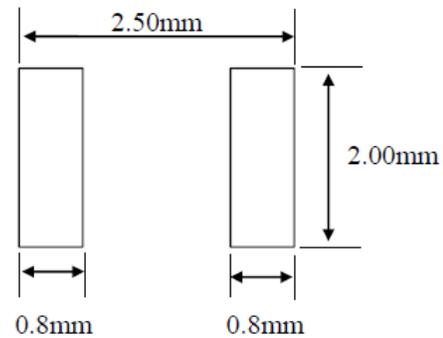
Mechanical Dimensions



Circuit Schematic



Recommended Land Pattern



Materials

No	Part Name	Material
1	Ferrite core	Ni-Zn Ferrite
2	Terminals	Ag/Ni/Sn
3	Coil	Cu/P180 Grd 1
4	Adhesive	Silicon Base Resin
	Magnetic Powder	Ni-Zn Ferrite

Dimension: mm

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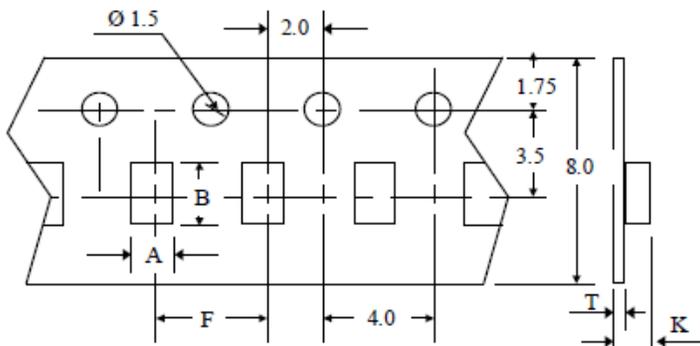
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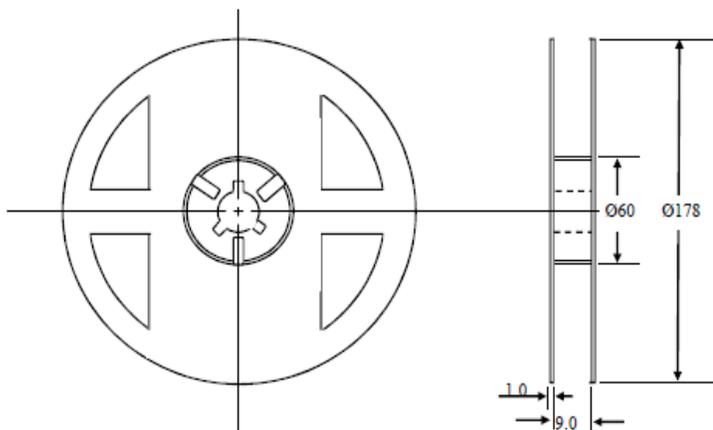
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TAPE & REEL:

T: 2,000pcs / reel

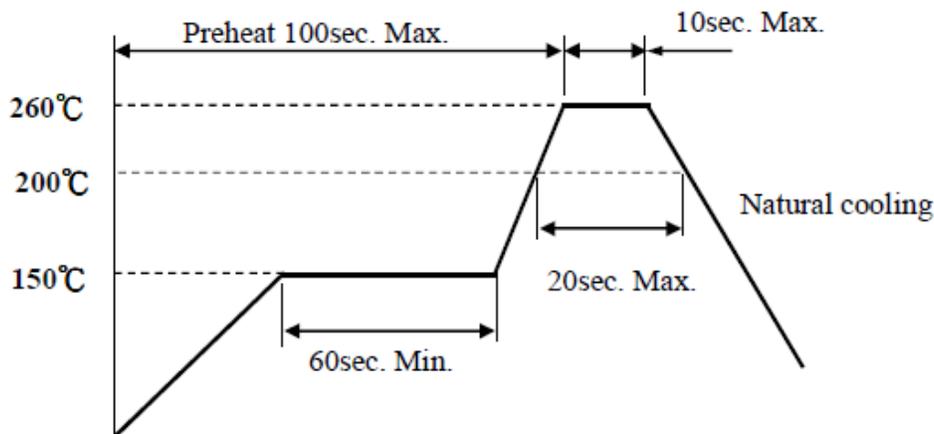


A	2.20
B	2.83
K	1.75
F	4
T	0.25



Dimension: mm

REFLOW PROFILE:



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30332 Esperanza, Rancho Santa Margarita, California 92688
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