

Low Profile Shielded SMD Chip Power Inductor

ASPI-2410 series



RoHS
Compliant



2.4 x 2.4 x 1.0mm

FEATURES:

- Small size and low profile: 1.0mm
- 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:

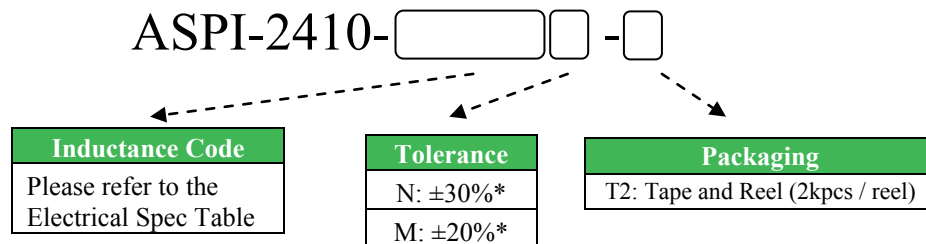
Abracon P/N:	ASPI-2510 Series
Operating Temperature & Humidity :	-25°C to +120°C (Including self generated heat)
Storage Temperature & Humidity:	-10°C to +40°C, 30% to 70% RH

Part Number	Inductance	Inductance Tolerance	DCR	DCR Tolerance	Saturation Current	Temperature Rise Current
Units	μH	%	mΩ	%	A	A
Symbol	L	M, N	DCR		Isat*	Irms*
ASPI-2410-R68	0.68	N	60	±30%	2.60	2.50
ASPI-2410-1R0	1.0	N	70		2.00	1.90
ASPI-2410-1R5	1.5	M	110		1.75	1.70
ASPI-2410-2R2	2.2	M	140	±20%	1.30	1.20
ASPI-2410-3R3	3.3	M	220		1.05	1.00
ASPI-2410-4R7	4.7	M	290		0.92	0.90
ASPI-2410-6R8	6.8	M	410		0.75	0.65
ASPI-2410-100	10.0	M	690		0.60	0.55
ASPI-2410-150	15.0	M	1020		0.50	0.45
ASPI-2410-220	22.0	M	1470		0.40	0.40

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 ($\Delta L/L_o \leq -30\%$)
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 = 0.68 and 1μH, M for L = 1.5 ~ 22μH



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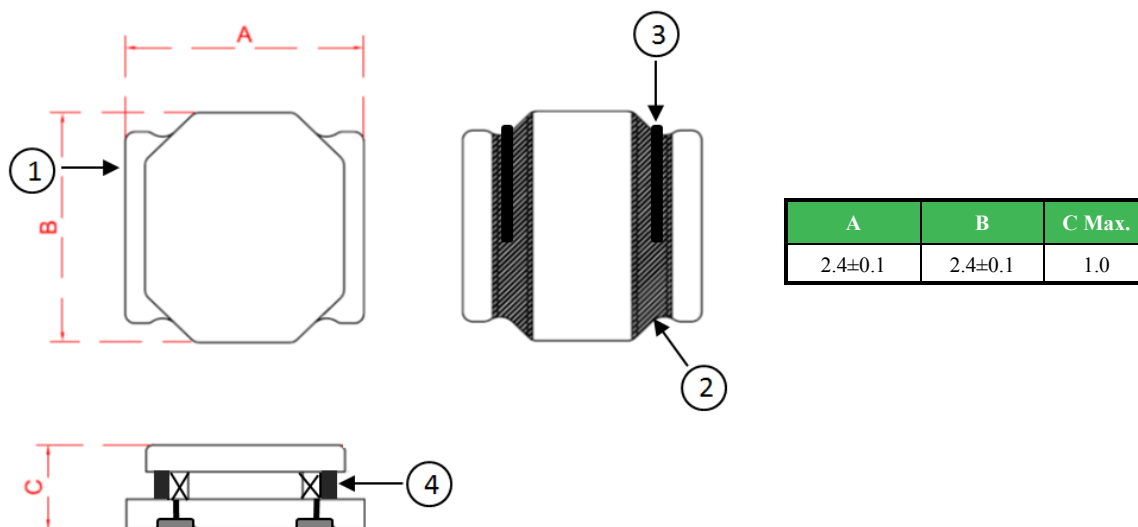
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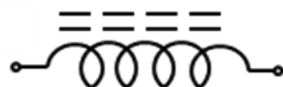
2.4 x 2.4 x 1.0mm

OUTLINE DRAWING:

Mechanical Dimensions

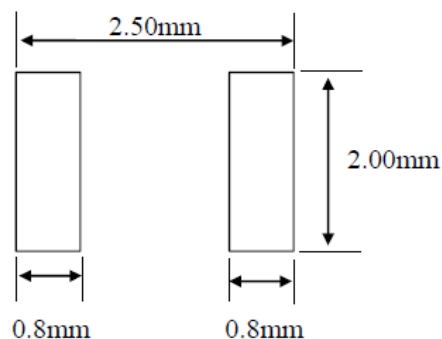


Circuit Schematic



No Polarity

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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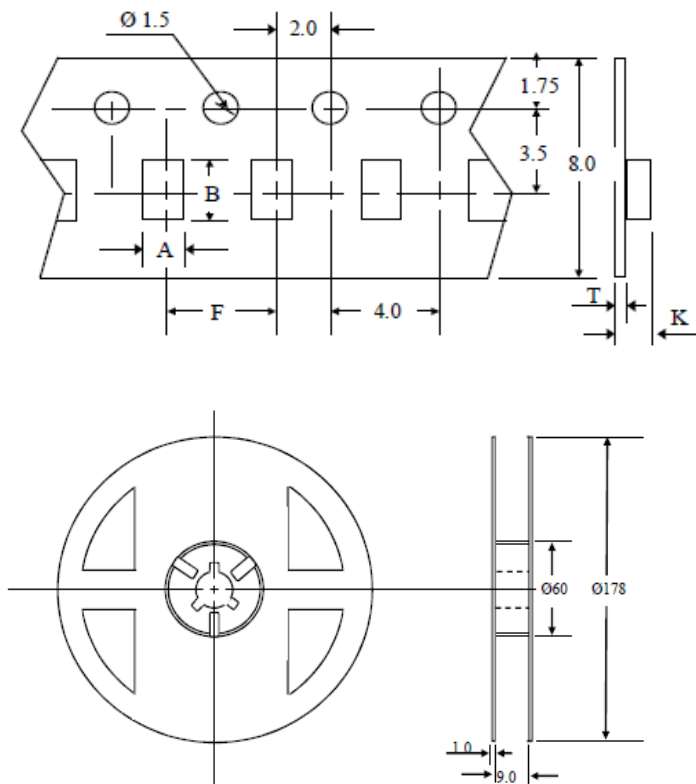
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TAPE & REEL:

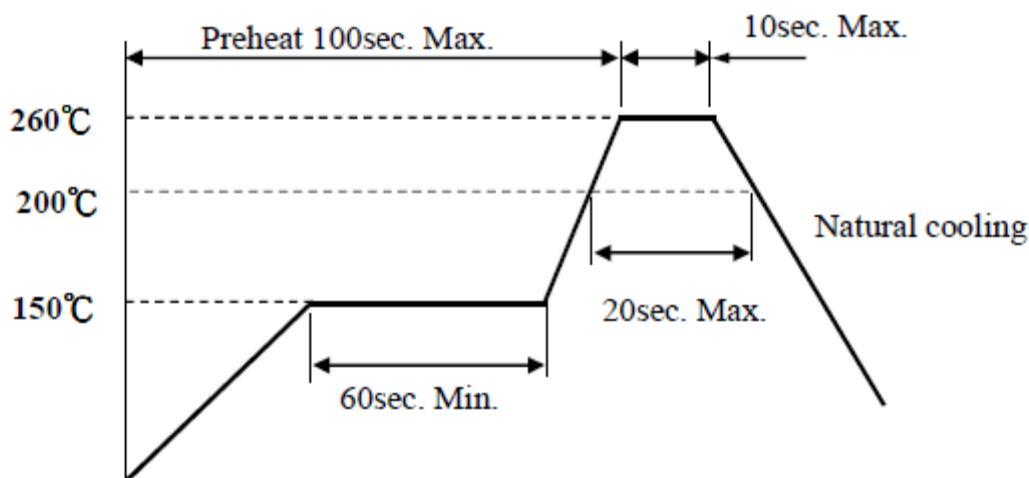
T: 2,000pcs / reel



A	2.65
B	2.65
K	1.25
F	4
T	0.25

Dimension: mm

REFLOW PROFILE:



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ABRACON IS
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