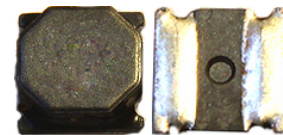


LOW PROFILE SHIELDED SMD CHIP POWER INDUCTOR



4.0 x 4.0 x 1.0mm

ASPI-0410FS



RoHS/RoHS II Compliant

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:

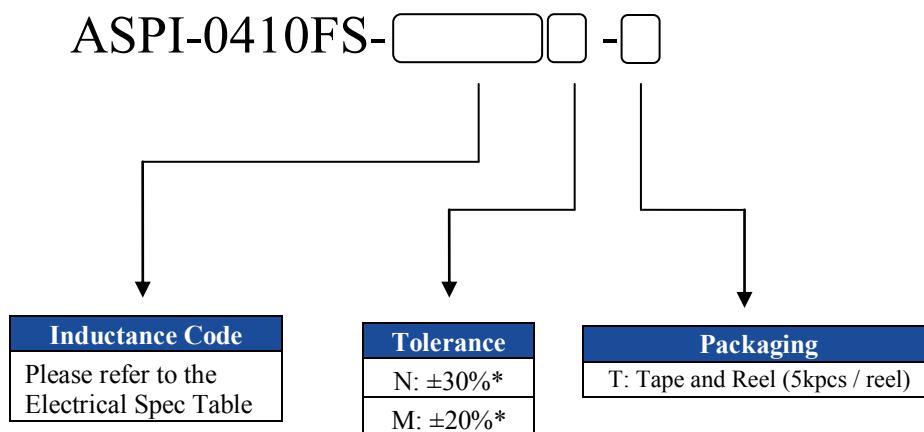
Abrakon P/N:	ASPI-0410FS Series
Operating Temperature & Humidity	-40°C to +125°C (Including self generated heat)
Storage Temperature and Humidity in Tape and Reel	-40°C to +125°C

Part Number ASPI-0410FS- Inductance Code	Inductance	Inductance Tolerance	DCR max	Rated DC Current max.
Units	μH	%	$\text{m}\Omega$	A
Symbol	L	M	DCR	IDC
ASPI-0410FS-1R0	1.0	N	100	1.80
ASPI-0410FS-2R2	2.2	N	150	1.15
ASPI-0410FS-3R3	3.3	M	180	1.10
ASPI-0410FS-4R7	4.7	M	210	0.90
ASPI-0410FS-6R8	6.8	M	300	0.74
ASPI-0410FS-100	10	M	380	0.56
ASPI-0410FS-150	15	M	510	0.47
ASPI-0410FS-220	22	M	870	0.36

Test Conditions and Equipments

1. Rated DC Current: The current when the inductance becomes 30% lower than its initial value.
2. L: HP4284A LCR meter, 100KHz, 0.25Vrms
3. DCR: milli-ohm meter

PART IDENTIFICATIONS:

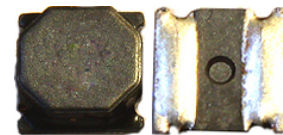


*N for L = 1.0 and 2.2 μH

*M for L = 2.2 ~ 47 μH

REVISED: 12.03.2019

LOW PROFILE SHIELDED SMD CHIP POWER INDUCTOR



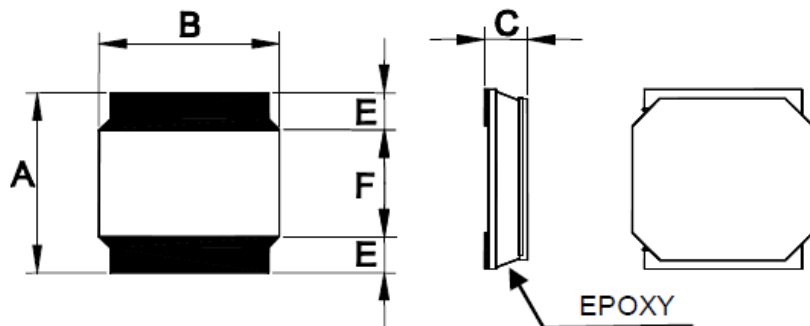
4.0 x 4.0 x 1.0mm

ASPI-0410FS



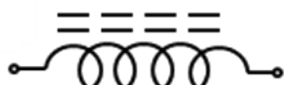
RoHS/RoHS II Compliant

OUTLINE DIMENSION:



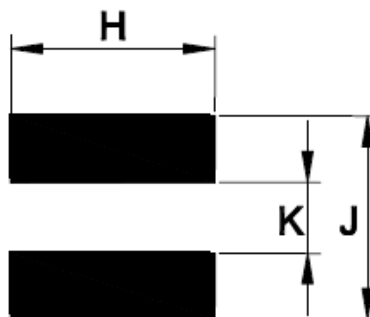
A	B	C max.	E	F
4.0±0.2	4.0±0.2	1.0	1.1±0.2	2.5±0.2

Circuit Schematic



No Polarity

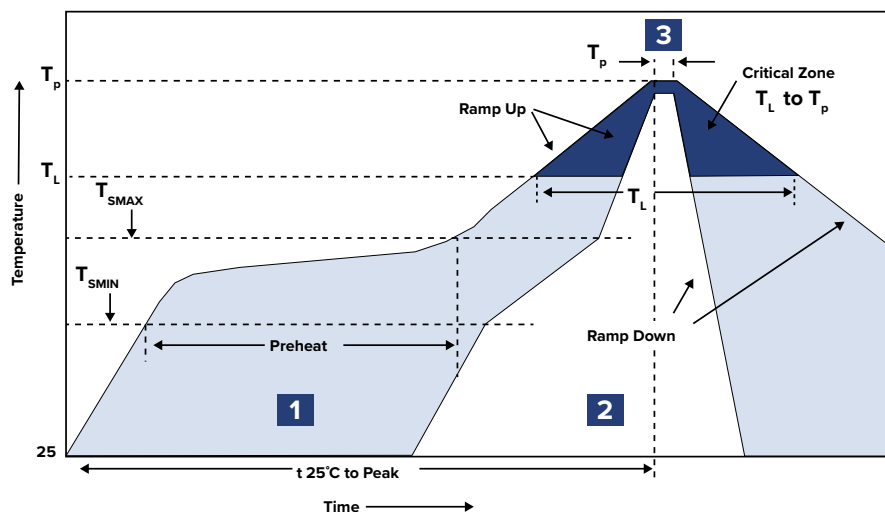
Recommended Land Pattern



H	J	K
3.7	4.0	1.2

Dimension: mm

REFLOW PROFILE:



Zone	Description	Temperature	Time
1	Preheat / Soak	$T_{S\text{MAX}}$ 150°C ~ 180°C	90 ~ 120 sec.
2	Reflow	T_L 220°C	60 sec. MAX
3	Peak heat	T_P 265°C	10 sec. MAX

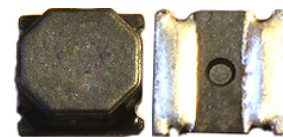
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LOW PROFILE SHIELDED SMD CHIP POWER INDUCTOR

ASPI-0410FS



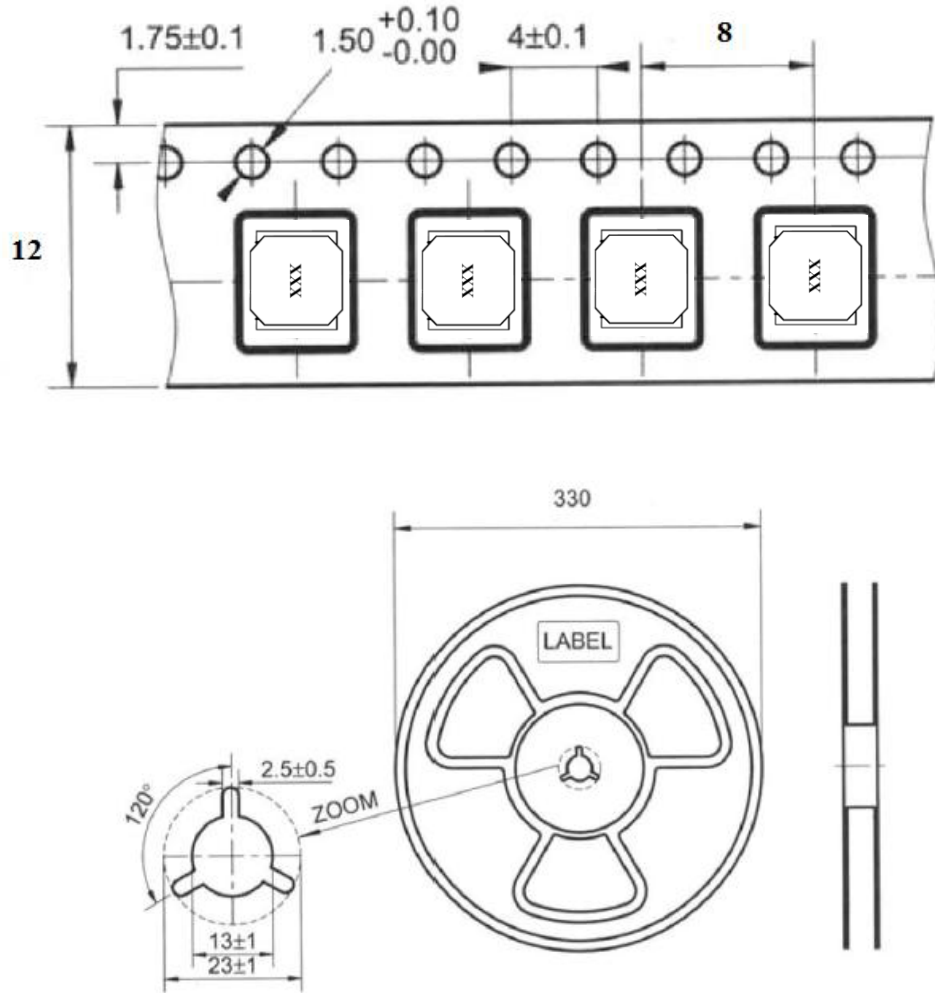
RoHS/RoHS II Compliant



4.0 x 4.0 x 1.0mm

TAPE & REEL:

T: 5,000pcs / reel



Dimension: mm

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