

# LOW PROFILE SHIELDED SMD CHIP POWER INDUCTOR



ASPI-0410FS



RoHS/RoHS II Compliant

4.0 x 4.0 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-0410FS Series			
Operating Temperature & Humidity	-40°C to +85°C (Including self generated heat)			
Storage Temperature and Humidity in Tape and Reel	+22°C to +28°C, 80% RH max.			

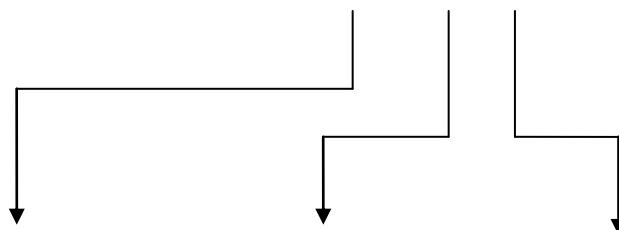
Part Number ASPI-0410FS- Inductance Code	Inductance	Inductance Tolerance	DCR max	Rated DC Current max.
Units	µH	%	mΩ	A
Symbol	L	M	DCR	IDC
ASPI-0410FS-1R0	1.0	N	100	1.80
ASPI-0410FS-2R2	2.2	N	150	1.15
ASPI-0410FS-3R3	3.3	M	180	1.10
ASPI-0410FS-4R7	4.7	M	210	0.90
ASPI-0410FS-6R8	6.8	M	300	0.74
ASPI-0410FS-100	10	M	380	0.56
ASPI-0410FS-150	15	M	510	0.47
ASPI-0410FS-220	22	M	870	0.36
ASPI-0410FS-330	33	M	1540	0.28
ASPI-0410FS-470	47	M	1810	0.24

## 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:

ASPI-0410FS-  - 



Inductance Code
Please refer to the Electrical Spec Table

Tolerance
N: ±30%*
M: ±20%*

Packaging
T: Tape and Reel (5kpcs / reel)

\*N for L = 1.0 and 2.2µH

\*M for L = 2.2 ~ 47µH

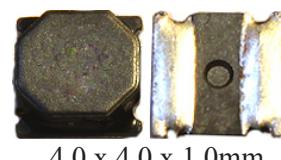
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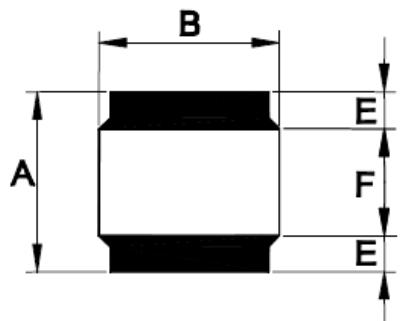
ASPI-0410FS



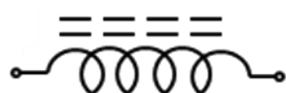
RoHS/RoHS II Compliant

4.0 x 4.0 x 1.0mm

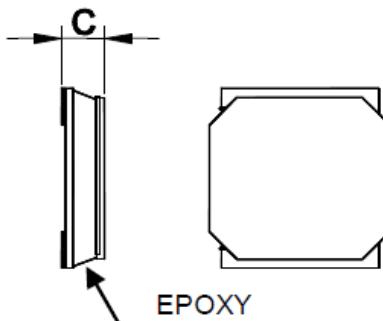
## ► OUTLINE DIMENSION:



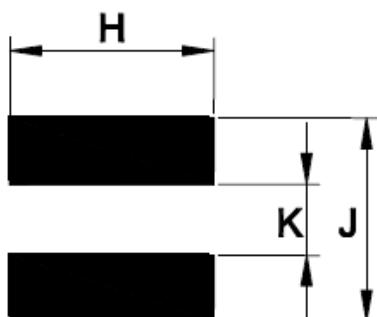
Circuit Schematic



No Polarity



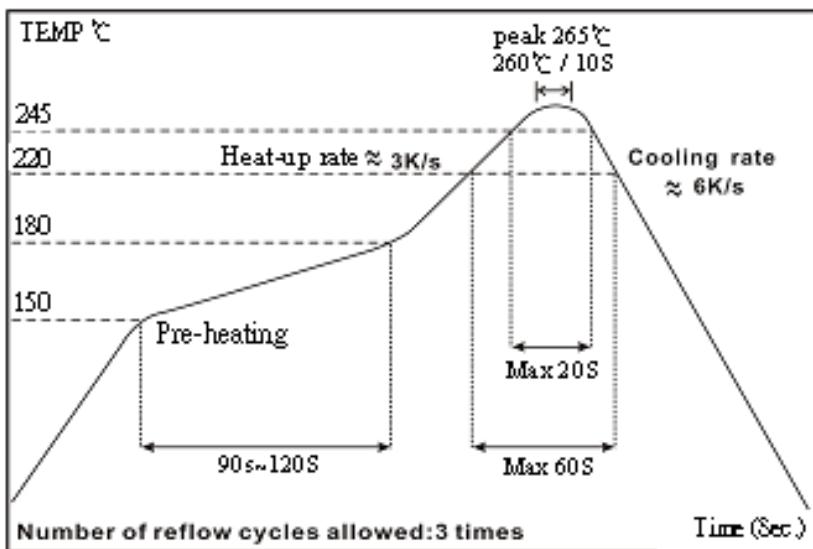
Recommended Land Pattern



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

Dimension: mm

## ► REFLOW PROFILE:



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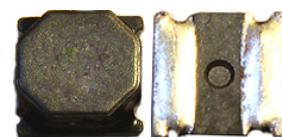
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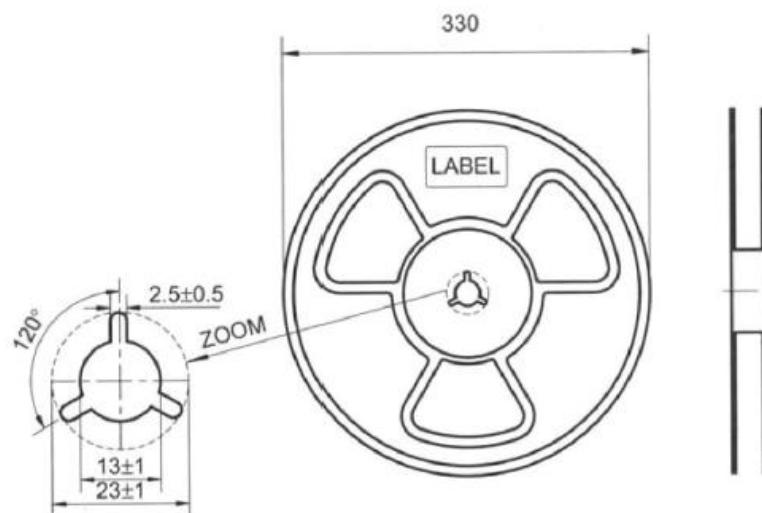
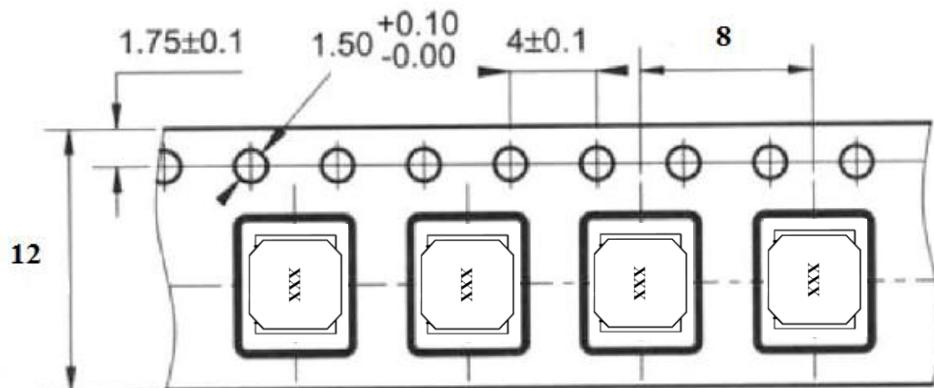
ASPI-0410FS

Pb | RoHS/RoHS II Compliant

4.0 x 4.0 x 1.0mm

## TAPE & REEL:

T35: 3,500pcs / reel



Dimension: mm

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