

#### ASPI-0310FS

Request Samples



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3.0 x 3.0 x 1.0mm RoHS/RoHS II Compliant MSL Level = 1

#### **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**

Part Number ASPI-0310FS- Inductance Code	Inductance	Inductance Tolerance	DCR (Typ)	DCR Tolerance	Saturation Current	Temperature Rise Current	
Units	μH	%	${\sf m}\Omega$	%	A	A	
Symbol	L	M, N	DCR		Isat	Irms	
ASPI-0310FS-1R0	1.0	N	70		2.30	2.30	
ASPI-0310FS-1R2	1.2	N	75	±30%	1.90	2.10	
ASPI-0310FS-1R5	1.5	N	79	±30%	1.65	2.00	
ASPI-0310FS-2R2	2.2	M	80		1.45	1.90	
ASPI-0310FS-3R3	3.3	M	170		1.05	1.80	
ASPI-0310FS-4R7	4.7	M	175		0.85	1.70	
ASPI-0310FS-6R8	6.8	M	260		0.70	1.30	
ASPI-0310FS-100	10.0	M	350	±20%	0.60	0.90	
ASPI-0310FS-150	15.0	M	725	±20%	0.50	0.80	
ASPI-0310FS-220	22.0	M	780		0.40	0.70	
ASPI-0310FS-330	33.0	M	1440		0.32	0.50	
ASPI-0310FS-470	47.0	M	1800		0.28	0.35	

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

**Operating Temperature:** -40°C to +125°C (Including self-generated heat)

Storage Temperature of component removed from packaging: -40°C to +125°C.

ASPI-0310FS is RoHS/RoHS II Compliant and Pb free.





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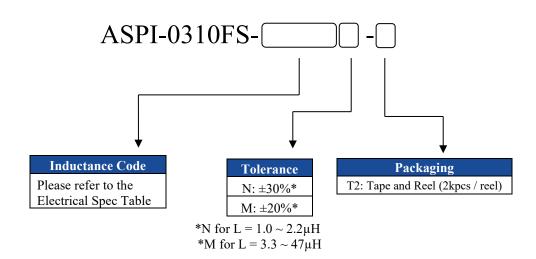


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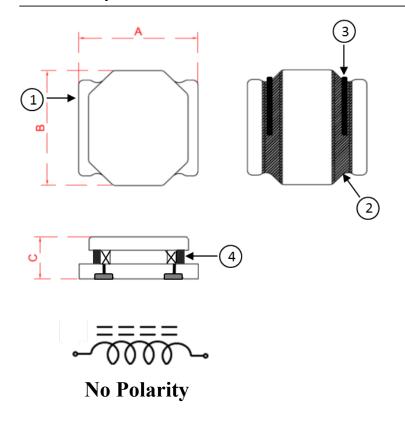


3.0 x 3.0 x 1.0mm **RoHS/RoHS II Compliant** MSL Level = 1

#### **Part Identification**

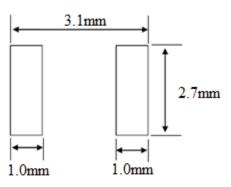


#### **Mechanical Specifications**



A	В	C Max.		
$3.0\pm0.1$	$3.0\pm0.1$	1.0		

#### **Recommended Land Pattern**



REF. dimensions





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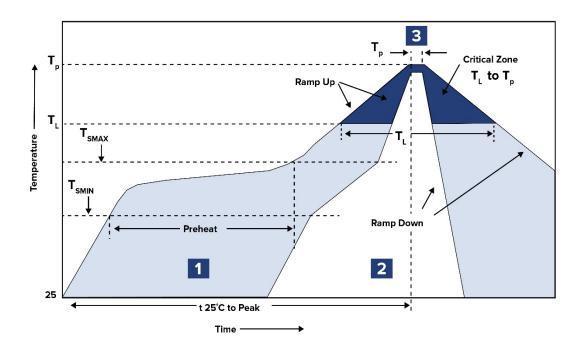


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#### **Reflow Profile**



Zone	Description	Temperature	Times
1	Preheat	T <sub>SMAX</sub> 150°C	$60 \sim 100 \text{ sec.}$
2	Reflow	${ m T_L}  m 200^{\circ}C$	20 sec. MAX
3	Peak heat	Т <sub>Р</sub> 260°С	10 sec. MAX





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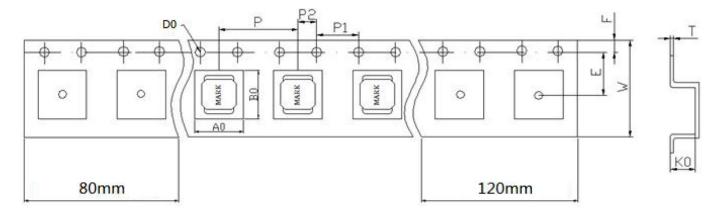
Check Inventory (>)



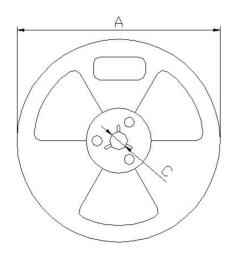
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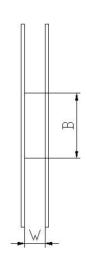
### **Packaging**

## T: 2,000pcs / reel



Item	W	A0	В0	K0	P	E	F	D0	P0	P2	T
Dim.	8.00±0.3	3.2±0.1	3.2±0.1	1.32±0.1	4.0±0.1	3.5±0.1	1.75±0.1	1.50±0.1	4.00±0.1	2.00±0.1	$0.30\pm0.05$





A	180 ±0.5
В	100 ±0.5
C	$13.5 \pm 0.5$
W	8.5 ±0.5

**Dimension: mm** 

ATTENTION: Abracon LLC's products are Commercial-Off-The-Shelf (COTS, which are designed, intended and validated for use in commercial, industrial and automotive applications. The customer is responsible for testing and verifying the performance of an Abracon solution to meet their system-level requirements.

