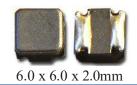
ASPI-0615FS





#### **FEATURES:**

- Small size and low profile: 2.0mm
- Small DCR and high rated current
- · High reliability to mechanical strength
- Magnetically shielded by magnetic powder molding
- Suitable for RoHS reflow profile

#### > APPLICATIONS:

- DC/DC converter for LCD display of notebook PC
- Portable communication equipment
- Digital cameras

#### **ELECTRICAL SPECIFICATIONS:**

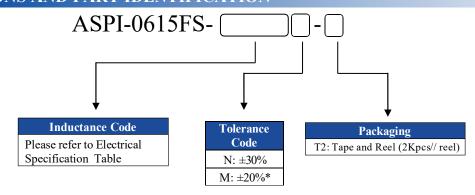
Abracon P/N:	ASPI-0615FS Series
Operating Temperature & Humidity :	-40°C to +125°C (Incl <sub>ud</sub> ing self generated heat)
Storage Temperature & Humidity:	-40°C to +125°C

Part Number ASPI-0615FS- Inductance Code	Inductance	Inductance Tolerance	DCR	DCR Tolerance	Saturation Current	Temperature Rise Current
Units	Н	%	mΩ	%	A	A
Symbol	L	M, N	DCR		Isat	Irms
ASPI-0615FS-R50	0.5	N	9		7.00	5.20
ASPI-0615FS-R80	0.8	N	12		6.00	4.10
ASPI-0615FS-1R5	1.5	N	17	±30%	4.00	3.60
ASPI-0615FS-2R2	2.2	N	24		3.50	2.90
ASPI-0615FS-3R3	3.3	M	30		2.80	2.80
ASPI-0615FS-4R7	4.7	M	43		2.40	2.20
ASPI-0615FS-5R6	5.6	M	55		2.20	2.00
ASPI-0615FS-6R8	6.8	M	60	±20%	2.00	1.80
ASPI-0615FS-100	10	M	90	12070	1.90	1.50
ASPI-0615FS-150	15	M	120		1.30	1.20
ASPI-0615FS-220	22	M	170		1.10	1.00
ASPI-0615FS-330	33	M	310		0.90	0.90
ASPI-0615FS-470	47	M	370		0.80	0.80

#### **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

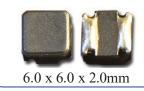
#### OPTIONS AND PART IDENTIFICATION



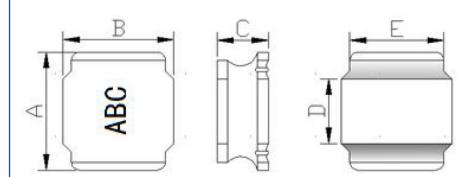


ASPI-0615FS

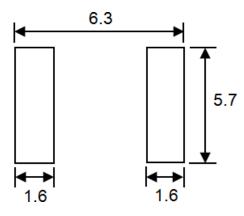




### **OUTLINE DRAWING:**



A	В	C	D Typ.
6.0±0.2	6.0±0.2	2.0±0.2	1.50



**Recommended Land Pattern** 

**Dimension: mm** 

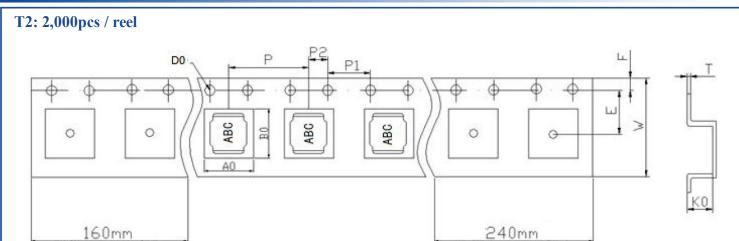


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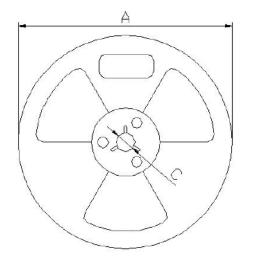


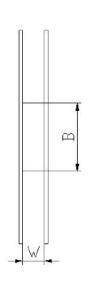


### **► TAPE & REEL:**



Dim	W	A0	B0	K0	P	E	F	D0	P0	P2	T
ASPI-0615FS	12.0±0.3	6.3±0.1	6.3±0.1	2.2±0.1	8.0±0.1	7.5±0.1	1.75±0.1	1.5±0.1	4.0±0.1	2.0±0.1	0.35±0.05





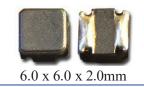
A	330±0.5
В	100±0.5
C	13.5±0.5
W	12.5±0.5

**Dimension: mm** 

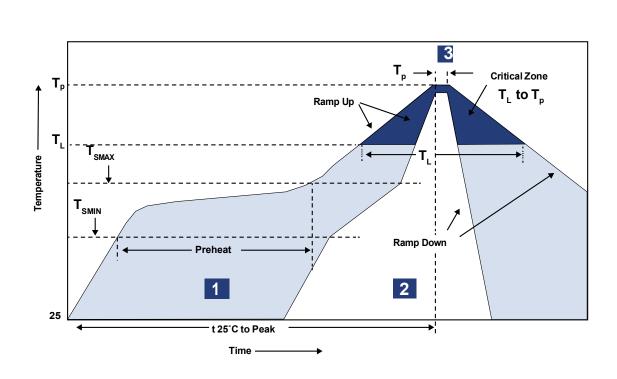


ASPI-0615FS





### **REFLOW PROFILE:**



Zone	Description	Temperature	Time
1	Preheat / Soak	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

**Dimension: mm** 

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#### **ABRACON:**

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