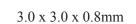
## ULTRA LOW PROFILE UNSHIELDED SMD CHIP POWER INDUCTOR

**ASPI-0309** 





### > FEATURES:

- Ideal for design development
- Low DCR
- High reliability to mechanical stress
- Suitable for RoHS reflow profile

### > APPLICATIONS:

- Mobile phones
- MP3 & 4 and other portable communication equipment
- Digital cameras
- Engineering tests

### > ELECTRICAL SPECIFICATIONS:

Abracon P/N:	ASPI-0309 Series	
Operating Temperature & Humidity :	-30°C to +100°C, 5% to 85% RH. Please avoid moisture due to the humidity.	
Storage Temperature & Humidity:	-20°C to +60°C, 5% to 85% RH. Please avoid moisture due to the humidity.	

Part Number	Inductance	DCR	Saturation Current	Temperature Rise Current	Marking
Units	μH±20%	mΩ±20%	A	A	-
Symbol	L	DCR	Isat*	Irms*	-
ASPI-0309-2R2M	2.2	170	0.98	1.00	E
ASPI-0309-3R3M	3.3	260	0.78	0.82	G
ASPI-0309-4R7M	4.7	340	0.65	0.72	Н
ASPI-0309-100M	10	640	0.43	0.55	M
ASPI-0309-220M	22	1930	0.30	0.29	P
ASPI-0309-330M	33	2600	0.25	0.25	Q
ASPI-0309-470M	47	3300	0.21	0.22	R

<sup>\*</sup>The rated current is subject to change depending upon the temperature cooling condition.

#### **Test Conditions**

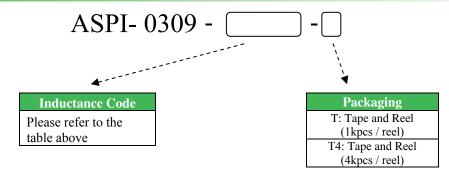
Inductance: 100kHz,0.3V, Ta=20°C

DCR: Ta=20°C

Isat:  $\Delta L/L$  (initial)  $\geq$  -30%

Irms:  $\Delta T \leq 40^{\circ}C$ 

### > OPTIONS AND PART IDENTIFICATION







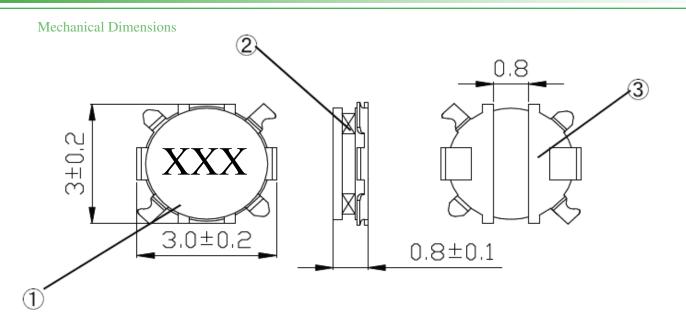
# ULTRA LOW PROFILE UNSHIELDED SMD CHIP POWER INDUCTOR

**ASPI-0309** 

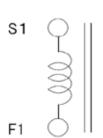




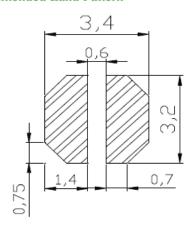
### > OUTLINE DRAWING:



Circuit Schematic



Recommended Land Pattern



No	Part Name	Material
1	Drum core	Ni-Zn Ferrite
2	Coil	Cu/Class H Polyurethane Enameled
3	Terminals/Solder	Copper Alloy/Pb free solder +

Dimension: mm





## ULTRA LOW PROFILE UNSHIELDED SMD CHIP POWER INDUCTOR

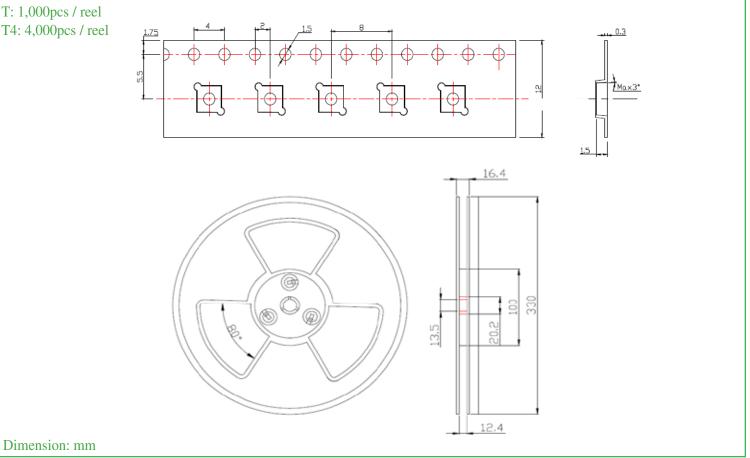
**ASPI-0309** 



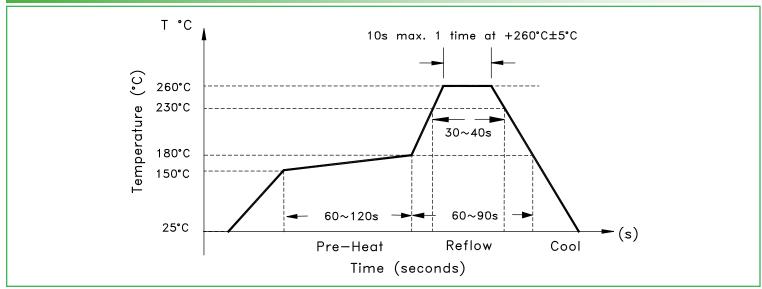


#### ➤ TAPE & REEI

T4: 4,000pcs / reel



### **REFLOW PROFILE:**



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