imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

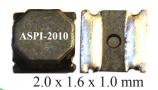
We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





ASPI-2010 series

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

> ELECTRICAL SPECIFICATIONS:

RoHS/RoHS II Compliant

► **APPLICATIONS**:

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

Abracon P/N:	ASPI-2010 Series
Operating Temperature & Humidity :	$-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$ (including self heating)
Storage Temperature & Humidity:	-10° C ~ $+40^{\circ}$ C and 70% R.H. max.

Part Number ASPI-2010- Inductance Code	Inductance	L Tolerance	DC Resistance Typ	DC Resistance Max	Saturation Current Typ	Saturation Current Max	Temperature Rise Current Typ	Temperature Rise Current Max	
Units	μH	-	ΩТур	ΩMax	А Тур	A Max	А Тур	A Max	
Symbol	L	М	DCR		Is	sat	Irms		
ASPI-2010-R47	0.47	М	0.049	0.059	2.30	2.85	2.35	2.60	
ASPI-2010-R68	0.68	М	0.063	0.076	1.95	2.45	2.05	2.25	
ASPI-2010-1R0	1.0	М	0.095	0.114	1.65	1.85	1.45	1.60	
ASPI-2010-1R5	1.5	М	0.145	0.174	1.35	1.65	1.25	1.40	
ASPI-2010-2R2	2.2	М	0.220	0.264	1.20	1.45	1.10	1.20	
ASPI-2010-3R3	3.3	М	0.279	0.335	0.90	1.05	0.88	0.98	
ASPI-2010-4R7	4.7	М	0.399	0.479	0.70	0.85	0.74	0.82	
ASPI-2010-6R8	6.8	М	0.680	0.816	0.60	0.70	0.52	0.58	

Test Conditions:

ABRACON IS

ISO9001:2008

CERTIFIED

- a. Ambient Temperature: $20 \pm 15^{\circ}$ C
- b. Relative Humidity: 65%±20%
- c. Air Pressure: 86KPa to 106KPa

Inductance (L): WK3260B LCR meter or equivalent, 1MHz Direct Current Resistance (DCR): HIOKI 3540 or equivalent Saturation Current (Isat): WK3260B LCR meter or equivalent Isat: Based on inductance change (Δ L/Lo \approx -30%) Temperature rise current (Irms): Electric Power, Electric current meter, Thermometer Irms: Based on temperature rise (Δ T : 40 °C TYP.)

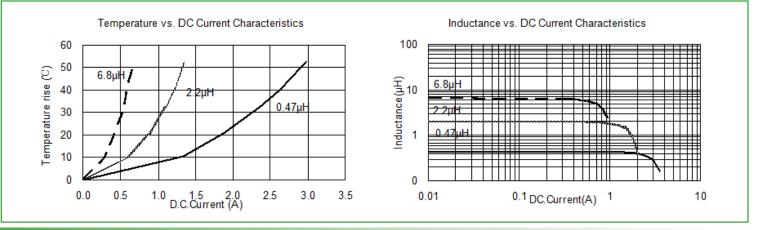




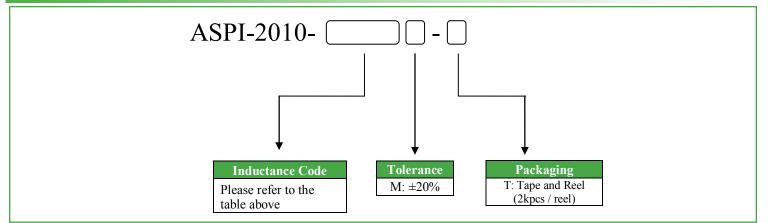
ASPI-2010 series

RoHS/RoHS II Compliant

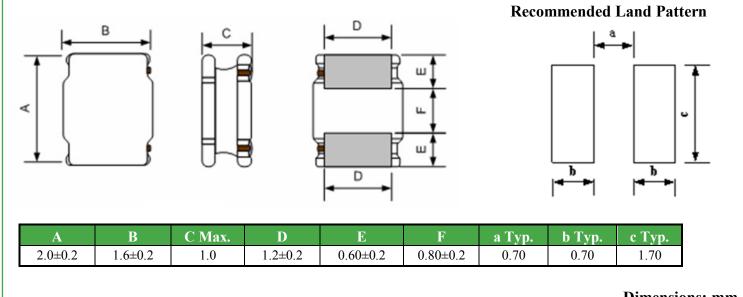
ELECTRICAL CHARACTERISTICS CURVES



PART IDENTIFICATION:



OUTLINE DIMENSION:



Dimensions: mm

Visit www.abracon.com for Terms & Conditions of Sale **Revised: 02.20.13** 30332 Esperanza, Rancho Santa Margarita, California 92688 tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

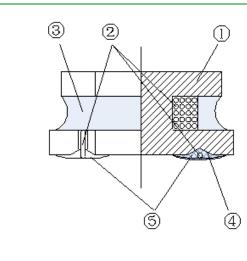




ASPI-2010 series

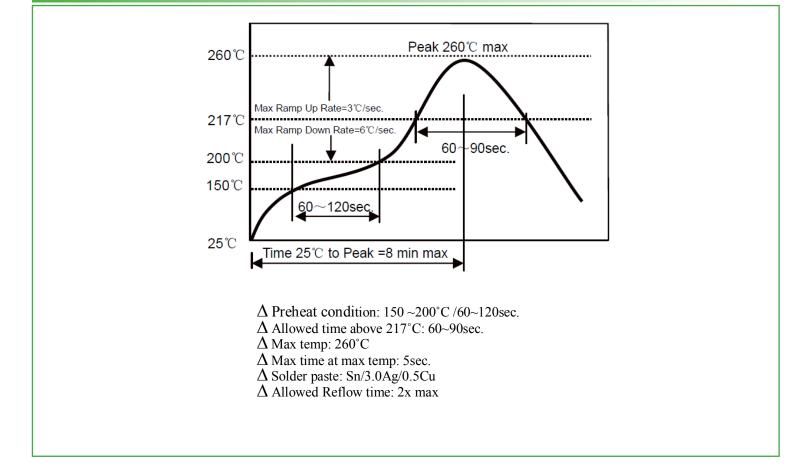
RoHS/RoHS II Compliant

▷ MATERIAL:

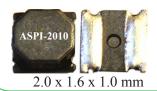


No	Components	Material			
1	Ferrite Core	Ni-Zn Ferrite			
2	Wire	Polyurethane System enameled copper wire			
3	Magnetic Glue	Epoxy resin and magnetic powder			
4	Plating Electrodes	Plating: Ag/Ni/Sn			
5	Outer Electrodes	Top surface solder coating: Sn96.5%/Ag3%/Cu0.5%			

REFLOW PROFILE:



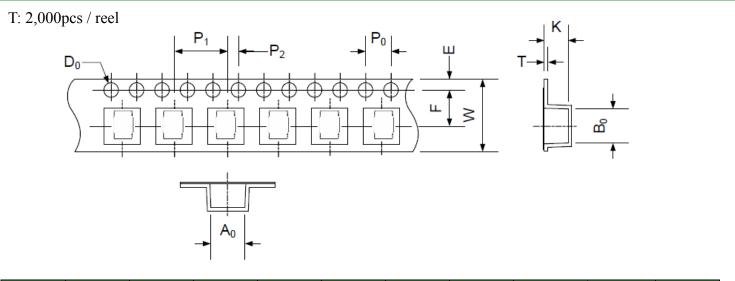




RoHS/RoHS II Compliant

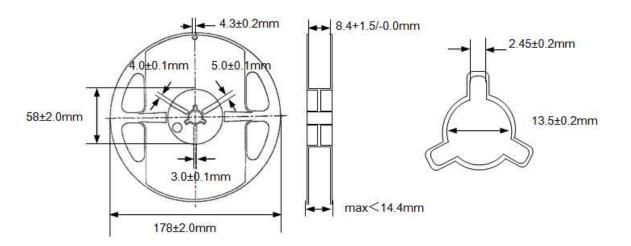
ASPI-2010 series

▷ TAPE & REEL:



(Pb)

Ao	Bo	W	E	F	Po	P ₁	P ₂	Do	Т	K
1.90±0.05	2.20±0.05	8.0±0.1	1.75±0.1	3.5±0.05	4.0±0.1	4.0±0.1	2.0±0.05	1.5+0.1/-0.0	0.25±0.02	1.20±0.05



Storage Conditions

- a. To maintain the solderability of terminal electrodes and to keep the packing material in good condition, temperature and humidity in the storage area should be controlled.
- b. Recommended conditions: $-10^{\circ}C \sim +40^{\circ}C$, 70% RH (Max.)
- c. Even under ideal storage conditions, solderability of products electrodes may decrease as time passes. For this reason, product should be used within one year from the time of delivery.
- d. In case of storage over 6 months, solderability shall be checked before actual usage.

Dimension: mm

ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.



