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



ULTRA LOW PROFILE SHIELDED SMD CHIP POWER INDUCTOR



3.0 x 3.0 x 1.0mm

ASPI-0310FS

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:



1.45

1.05

0.85

0.70

0.60

0.50

0.40

0.32

0.28

1.90

1.80

1.70

1.30

0.90

0.80

0.70

0.50

0.35

► APPLICATIONS:

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

±20%

Abracon P/N: Operating Temperature & Humidity :		ASPI-0310FS Series -25°C to +120°C (Including self generated heat)				
Storage Temperature & Humidity:						
Storage Temperature & Humidity: -10°C to +40°C, 30% to 70% RH						
Part Number	Inductance	Inductance Tolerance	DCR	DCR Tolerance	Saturation Current	Temperature Rise Current
Units	μH	%	mΩ	%	Α	Α
Symbol	L	M, N	DCR		Isat	Irms
ASPI-0310FS-1R0	1.0	N	50	±25%	2.30	2.30
ASPI-0310FS-1R2	1.2	N	62	±30%	1.90	2.10
ASPI-0310FS-1R5	1.5	N	70		1.65	2.00

80

130

175

260

350

510

780

1100

1600

ASPI-0310FS-2R2

ASPI-0310FS-3R3

ASPI-0310FS-4R7

ASPI-0310FS-6R8

ASPI-0310FS-100

ASPI-0310FS-150

ASPI-0310FS-220

ASPI-0310FS-330

ASPI-0310FS-470

- 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 ($\Box L/Lo : \le -30\%$)

2.2

3.3

4.7

6.8

10.0

15.0

22.0

33.0

47.0

Μ

Μ

Μ

Μ

Μ

Μ

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Μ

- 4. Irms : Based on temperature rise (\mathbb{I} T : 40°C TYP.)
- 5. Test Freq: 100KHz, 1Vrms

OPTIONS AND PART IDENTIFICATION







2 Faraday, Suite# B | Irvine | CA 92618 **Revised: 02.23.16** Ph. 949.546.8000 | Fax. 949.546.8001 Visit **www.abracon.com** for Terms and Conditions of Sale

ULTRA LOW PROFILE SHIELDED SMD CHIP POWER INDUCTOR



ASPI-0310FS



3.0 x 3.0 x 1.0mm

OUTLINE DRAWING:



Materials

No	Part Name	Material		
1	Ferrite core	Ni-Zn Ferrite		
2	Terminals	Ag/Ni/Sn		
3	Coil	Cu/P180 Grd 1		
4	Adhesive	Silicon Base Resin		
	Magnetic Powder	Ni-Zn Ferrite		

ABRACON IS ISO9001:2008 CERTIFIED



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ULTRA LOW PROFILE SHIELDED SMD CHIP POWER INDUCTOR



Dimension: mm

ASPI-0310FS

▷ TAPE & REEL:

T2: 2,000pcs / reel





RoHS

Compliant



REFLOW PROFILE:



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.





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