ULTRA LOW PROFILE SHIELDED SMD CHIP POWER INDUCTOR



ASPI-0410FS

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

- Mobile phones
- MP3 & 4 and other portable communication equipment

RoHS

Compliant

• Digital cameras.

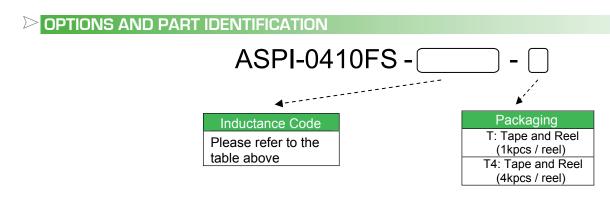
ELECTRICAL SPECIFICATIONS:

Abracon P/N:	ASPI-0410FS 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%	А	A	—
Symbol	L	DCR	lsat*	Irms*	—
ASPI-0410FS-2R2M	2.2	90	1.25	1.30	2R2
ASPI-0410FS-3R3M	3.3	110	1.10	1.15	3R3
ASPI-0410FS-4R7M	4.7	165	0.95	0.90	4R7
ASPI-0410FS-6R8M	6.8	220	0.76	0.81	6R8
ASPI-0410FS-100M	10.0	300	0.62	0.70	100
ASPI-0410FS-220M	22.0	650	0.44	0.50	220
ASPI-0410FS-330M	33.0	1100	0.37	0.36	330
ASPI-0410FS-470M	47.0	1500	0.27	0.32	470

*The rated current is subject to change depending upon the temperature cooling condition.

Test Conditions







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-UQ

ASPI-0410FS



4.0 x 4.0 x 1.0mm

➢ OUTLINE DRAWING: **Mechanical Dimensions** 40 ± 02 1.0MAX. 40 ± 02 3 2 1.4 40土0.2 (4) MARK **Circuit Schematic Recommended Land Pattern** S1 42 F1 Part Name No Material Ni-Zn Ferrite Drum core 1 Copper alloy, Sn 2 Terminals Coil Cu/UEW 3 Epoxy base resin Adhesive 4 Magnetic powder Ni-Zn Ferrite Dimension: mm



ABRACON IS

ISO9001:2008

CERTIFIED



Visit www.abracon.com for Terms & Conditions of Sale **Revised: 09.10.10** 30332 Esperanza, Rancho Santa Margarita, California 92688 tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

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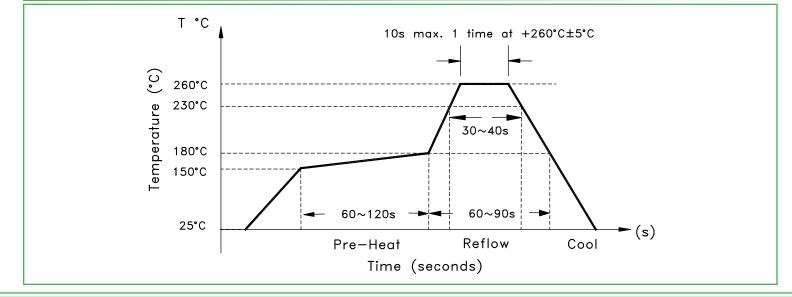
ASPI-0410FS



4.0 x 4.0 x 1.0mm

▷ TAPE & REEL: T: 1,000pcs / reel Ø1.5 T4: 4,000pcs / reel 03 1.75 5 Cl 120 XXX XXX 80 16.4 330 202 13.51 12.4 **Dimension: mm**

➢ 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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