# LOW PROFILE SHIELDED SMD CHIP POWER INDUCTOR



ASPI-0412FS

### **FEATURES**:

- Small size and low profile: 1.2mm
- Small DCR and high rated current
- · High reliability to mechanical strength
- Magnetically shielded by magnetic powder molding
- · Suitable for RoHS reflow profile

# > APPLICATIONS:

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

RoHS

Compliant

· Digital cameras.

## > ELECTRICAL SPECIFICATIONS:

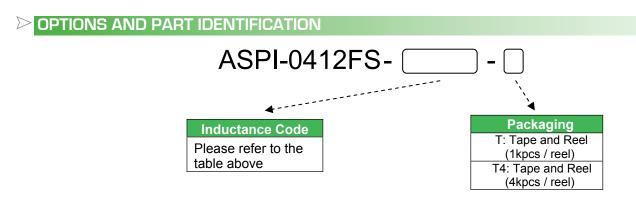
| Abracon P/N:                      | ASPI-0412FS Series  |
|-----------------------------------|---|
| Operating Temperature & Humidity: | -30°C to +100°C, 5% to 85% RH. Please avoid moisture due to the humidity. |
| Storage Temperature & Humidity:   | -20°C to +60°C, 5% to 85% RH. Please avoid moisture due to the humidity.  |

| Part Number      | Inductance | DCR      | Saturation<br>Current | Temperature<br>Rise Current | Marking |
|------------------|------------|----------|-----------------------|-----------------------------|---------|
| Units            | μH ± 20%   | mΩ ± 20% | А                     | А                           | _       |
| Symbol           | L          | DCR      | Isat*                 | Irms*                       | —       |
| ASPI-0412FS-2R2M | 2.2        | 70       | 1.80                  | 1.65                        | 2R2     |
| ASPI-0412FS-3R3M | 3.3        | 100      | 1.55                  | 1.40                        | 3R3     |
| ASPI-0412FS-4R7M | 4.7        | 130      | 1.20                  | 1.15                        | 4R7     |
| ASPI-0412FS-6R8M | 6.8        | 180      | 1.05                  | 0.95                        | 6R8     |
| ASPI-0412FS-100M | 10         | 240      | 0.85                  | 0.90                        | 100     |
| ASPI-0412FS-220M | 22         | 550      | 0.60                  | 0.55                        | 220     |

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

#### **Test Conditions**

Inductance:100kHz,0.3V, Ta=20°CDCR:Ta=20°CIsat: $\Delta L/L$  (initial)  $\geq$  -30%Irms: $\Delta T \leq 40°C$ 







Visit www.abracon.com for Terms & Conditions of Sale **Revised: 08.31.10** 30332 Esperanza, Rancho Santa Margarita, California 92688 tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

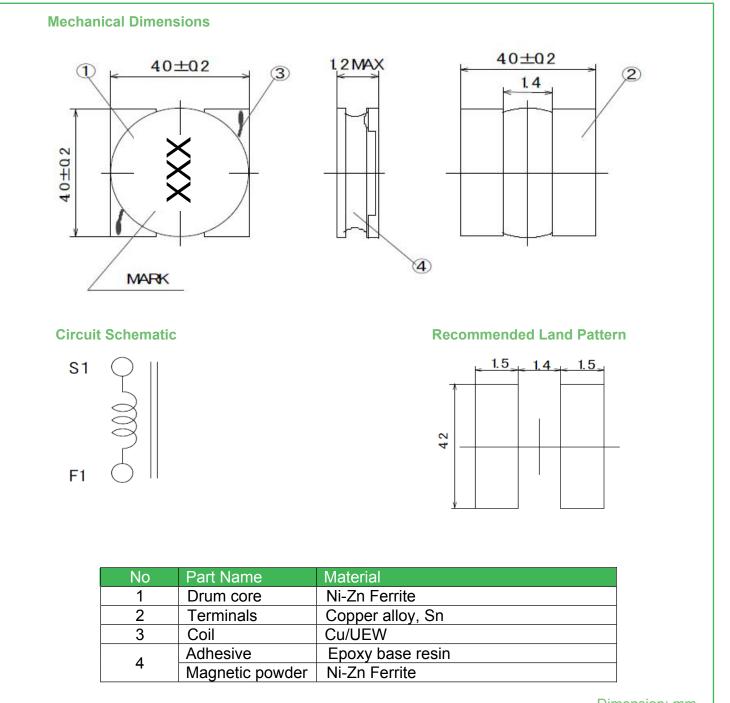


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4.0 x 4.0 x 1.2mm

### ➢ OUTLINE DRAWING:



Dimension: mm





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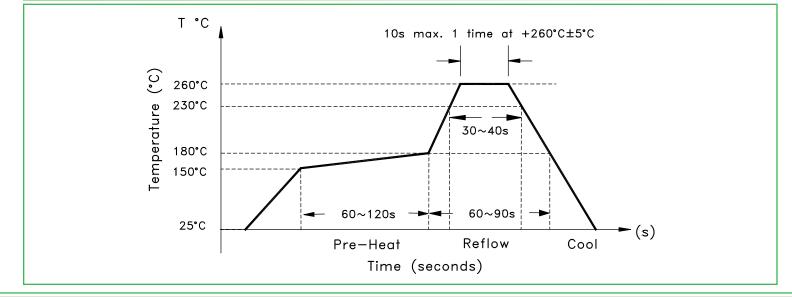
ASPI-0412FS



4.0 x 4.0 x 1.2mm

# ▷ TAPE & REEL: T: 1,000pcs / reel d15 T4: 4,000pcs / reel 03 1.75 22 120 80 1.4 16.4 œ 330 8 Ø പ് 13.5 20 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.

ABRACON IS ISO9001:2008 CERTIFIED



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