Features
- Shielded construction
- Flat wire
- Unit height of 1.2 mm
- Inductance range: 0.22 to 1.5 μH
- Rated current up to 9 A
- RoHS compliant* and halogen free**

SRP4012 Series - Shielded Power Inductors

<table>
<thead>
<tr>
<th>Bourns Part No.</th>
<th>Inductance L (μH) ±20 %</th>
<th>I rms (A)</th>
<th>I sat (A)</th>
<th>DCR (mΩ) Max.</th>
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<td>SRP4012-R22M</td>
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<td>10</td>
<td>9.3</td>
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<td>3</td>
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</table>

**Soldering Profile**
- Maximum of 10 seconds between +255 °C and +260 °C
- +255 °C peak
- +220 °C
- +190 °C
- +120-150 °C
- 60 seconds maximum
- Ramp down 3 °C/second
- Ramp up 4 °C/second maximum
- 10 seconds minimum
- 10 seconds maximum

**Electrical Schematic**

**Recommended Layout**

**General Specifications**
- Test Voltage: 0.25 V
- Test Frequency: 100 KHz
- Reflow Soldering: 230 °C; 50 sec. max.
- Operating Temperature: -55 °C to +125 °C (Temperature rise included)
- Storage Temperature: -55 °C to +125 °C

**Materials**
- Core: Iron
- Wire: Enameled copper
- Terminal: Cu/Sn
- Rated Current: Ind. drops 20 % at Isat
- Temperature Rise: 40 °C at rated Irms
- Packaging: 2000 pcs. per 13-inch reel

**Product Dimensions**

**WARNING** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

** Bourns considers a product to be “halogen free” if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf
Applications
- DC/DC converters
- Power supplies for:
  - Portable communications equipment
  - Laptop computers
  - Camcorders, HDTV, car audio systems
  - Video game consoles

SRP4012 Series - Shielded Power Inductors

L vs. I Charts

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Packaging Specifications

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