**Features**
- Shielded construction
- Unit height of 5.9 mm
- Inductance range: 0.22 to 10 μH
- Current up to 45 A
- RoHS compliant*

**SRP1250 Series - Shielded Power Inductors**

**Electrical Specifications**

<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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<tr>
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</table>

**Soldering Profile**

![Soldering Profile Diagram]

**General Specifications**

- Test Voltage: 0.25 V
- Test Frequency: 100 KHz
- Reflow Soldering: 230 °C for 50 sec. max.
- Operating Temperature: -40 °C to +125 °C (Temperature rise included)
- Storage Temperature (On Board): -40 °C to +125 °C
- Moisture Sensitivity Level: 1 ESD Classification (HBM)

**Materials**

- Core: Iron
- Wire: Enamelled copper
- Terminal: Cu/Sn
- Rated Current: Ind. drops 20 % at Isat
- Temperature Rise: 40 °C at rated Irms
- Packaging: 500 pcs. per 13-inch reel

**Product Dimensions**

![Product Dimensions Diagram]

**Electrical Schematic**

![Electrical Schematic Diagram]

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* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. 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](http://www.bourns.com/docs/legal/disclaimer.pdf)
Applications
- Input/output of DC/DC converters
- Power supplies for:
  - Portable communications equipment
  - Camcorders
  - LCD TVs
  - Car audio systems

SRP1250 Series - Shielded Power Inductors

L vs. I Charts

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SRP1250 Series - Shielded Power Inductors

L vs. I Charts

Packaging Specifications

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