### SRP6540 Series - Shielded Power Inductors

#### Features
- Shielded construction
- Iron powder core
- High saturation current
- Inductance range: 0.56 to 47 µH
- Rated current up to 18 A
- RoHS compliant* and halogen free**

#### Applications
- DC/DC converters
- Power supplies for:
  - Portable communications equipment
  - Laptop computers
  - Camcorders, HDTV
  - Video game consoles

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**Electrical Specifications**

<table>
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<tr>
<th>Bourns Part No.</th>
<th>Inductance L (µH) ±20 %</th>
<th>DCR (mΩ) Max.</th>
<th>I rms (A)</th>
<th>I sat (A)</th>
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**General Specifications**

- Test Voltage: 0.25 V
- Test Frequency: 100 KHz
- Operating Temperature: -55 °C to +125 °C (Temperature rise included)
- Storage Temperature: -55 °C to +125 °C
- ESD Classification (HBM): N/A

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**Materials**

- Core: Iron powder
- Wire: Enamelled copper
- Terminal: Cu/Ni/Sn
- Rated Current: Ind. drops 20% typ. at rated Irms
- Temperature Rise: 40 °C typ.
- Packaging: 1200 pcs. per 13-inch reel

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**Soldering Profile**

- Peak Temperature: 250 °C max.
- Time Above 245 °C: 30 sec. max.
- Time Above 217 °C: 60 ~ 150 sec. max.

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**WARNING** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://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.

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L vs. I Charts

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Packaging Specifications

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