Features
- Shielded construction
- Metal alloy powder core
- High saturation current
- Low buzz noise
- Flat wire
- RoHS compliant* and halogen free**

SRP0515 Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Inductance @ 100 kHz / 1 V Q</th>
<th>Q Test Freq. (MHz)</th>
<th>SRF (MHz) Typ.</th>
<th>DCR (mΩ) Typ.</th>
<th>DCR (mΩ) Max.</th>
<th>Irms (A) Typ.</th>
<th>Isat (A) Typ.</th>
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<tr>
<td>SRP0515-R47K</td>
<td>0.47</td>
<td>10</td>
<td>16</td>
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<td>52</td>
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<td>47</td>
<td>7.96</td>
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<td>35</td>
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<td>SRP0515-2R2K</td>
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<td>2.52</td>
<td>12</td>
<td>140.0</td>
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</tbody>
</table>

Product Dimensions

Recommended Layout

General Specifications

Operating Temperature
-40 °C to +125 °C (Temperature rise included)
Storage Temperature (Component)
-40 °C to +125 °C
Rated Current
Inductance drops 30% at Isat
Temperature Rise ... 40 °C at rated Irms
Rated Voltage
Moisture Sensitivity Level
ESD Classification (HBM)

Materials
Core: Metal alloy powder
Wire: Enamelled copper
Terminal Finish: Sn
Packaging: 3000 pcs. per 13-inch reel

How to Order

SRP0515 - 4R7K

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** 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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SRP0515 Series - Shielded Power Inductors

L vs. I Charts

<table>
<thead>
<tr>
<th>Model</th>
<th>Current Range 1</th>
<th>Current Range 2</th>
<th>Current Range 3</th>
</tr>
</thead>
<tbody>
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<td>SRP0515-R47K</td>
<td>0 - 9.0 A</td>
<td>0 - 9.0 A</td>
<td>0 - 9.0 A</td>
</tr>
<tr>
<td>SRP0515-1R0K</td>
<td>0 - 3.6 A</td>
<td>0 - 3.6 A</td>
<td>0 - 3.6 A</td>
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<tr>
<td>SRP0515-2R2K</td>
<td>0 - 1.8 A</td>
<td>0 - 1.8 A</td>
<td>0 - 1.8 A</td>
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<tr>
<td>SRP0515-100K</td>
<td>0 - 0.5 A</td>
<td>0 - 0.5 A</td>
<td>0 - 0.5 A</td>
</tr>
</tbody>
</table>

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Soldering Profile

Peak Temperature: 260 °C max.
Max. Peak Temperature -5 °C: 30 sec. max.
Max. Time Above 217 °C: 60~150 sec. max.

Graph showing soldering profile with temperature and time specifications.
**SRP0515 Series - Shielded Power Inductors**

**Packaging Specifications**

![Diagram of packaging specifications](image)

**Dimensions:**

- **DIA.:** 18.4 (0.724)
- **MIN. 50 (1.989)
- **MAX. 14 (0.551)

**QTY:** 3,000 PCS PER REEL

**User Direction of Feed**

- **Leader**: NO COMPONENT MIN. 360 (14.173)
- **Components**: MIN. 960 (37.795)
- **Trailer**: NO COMPONENT MIN. 950 (37.778)

**User Direction of Feed**

**QTY:** 3,000 PCS PER REEL

**DIMENSIONS:**

- **MM**
- **INCHES**

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**EMEA**: Tel: +36 88 885 877 • Email: eurocus@bourns.com

**The Americas**: Tel: +1-951 781-5500 • Email: americus@bourns.com

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