Features

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

SRP0415 Series - Shielded Power Inductors

### Electrical Specifications @ 25 °C

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Inductance @ 100 kHz / 1 V Q Typ.</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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<tbody>
<tr>
<td>SRP0415-R47K</td>
<td>0.47 10 19 25.2 80 9.7 11.3 9.3 13.8</td>
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<td>SRP0415-100K</td>
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</tbody>
</table>

### Product Dimensions

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

### Additional Information

Click these links for more information:

- Product Technical Library
- Inventory
- Samples
- Contact

### 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: 50 V
- Moisture Sensitivity Level: 1
- ESD Classification (HBM): N/A

Note 1: Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

### Materials

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

Please consult Bourns® Model SRP-A Series Visual Inspection Guide for detailed construction, processing and testing information.

### How to Order

SRP0415 - 4R7K

Model
Value Code (see table)
L vs. I Charts

Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications.
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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.

Temperature Rising Area
-4.0 °C/Sec. Max.
150~200 °C / 60~120 Sec.
>3.0 °C/Sec. Max.
<(-1.0~5.0) °C/Sec. Max.

Preheat Area
Reflow Area
Forced Cooling Area

Temperature (°C)

Time (Seconds)
SRP0415 Series - Shielded Power Inductors

Packaging Specifications

Dimensions:
- END: 12 mm (0.472 in)
- LEADER: 8 mm (0.315 in)
- TRAILER: 4 mm (0.157 in)

Leader:
- NO COMPONENT: 360° (14.173°) MIN.
- COMPONENTS: 90° (37.718°) MIN.

User Direction of Feed:
- QTY: 3,000 PCS PER REEL

User should verify actual device performance in their specific applications.

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