SRP0415 Series - Shielded Power Inductors

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

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>SRP0415-R47K</td>
<td>0.47 10</td>
<td>19 25.2</td>
<td>80 9.7</td>
<td>11.3 9.3</td>
<td>13.8 9.6</td>
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<td>SRP0415-R68K</td>
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<td>7 25.2</td>
<td>73 11.8</td>
<td>13.8 8.6</td>
<td>22.5 6.1</td>
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<td>SRP0415-1R0K</td>
<td>1.00 10</td>
<td>47 7.96</td>
<td>52 19.3</td>
<td>25.7 22.5</td>
<td>30.0 5.4</td>
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<td>SRP0415-1R5K</td>
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<td>43 25.7</td>
<td>30.0 5.4</td>
<td>48.0 4.2</td>
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<td>SRP0415-2R2K</td>
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<td>82.5 3.2</td>
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<td>SRP0415-3R3K</td>
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<td>40 7.96</td>
<td>33 70.8</td>
<td>82.5 3.2</td>
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<td>SRP0415-4R7K</td>
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<td>125.0 2.5</td>
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<td>SRP0415-6R8K</td>
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<td>125.0 2.5</td>
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<td>SRP0415-100K</td>
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<td>15 198.0</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: 50 V
- Moisture Sensitivity Level: 1
- ESD Classification (HBM): N/A

Materials
- Core: Metal alloy powder
- Wire: Enamelled copper
- Terminal Finish: Sn

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

Model

Value Code (see table)

** 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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WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov
SRP0415 Series - Shielded Power Inductors

L vs. I Charts

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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.

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SRP0415 Series - Shielded Power Inductors

Packaging Specifications

Dimensions: MM (INCHES)

QTY: 3,000 PCS PER REEL

LEADER
NO COMPONENT 960 (38.177) MIN.

COMPONENTS

TRAILER
NO COMPONENT 960 (38.177) MIN.

Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com
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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