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

SRP0420 Series - Shielded Power Inductors

Electronic 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 (mΩ) Typ.</th>
<th>DCR (mΩ) Max.</th>
<th>Irms (A) Typ.</th>
<th>Isat (A) Typ.</th>
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<td>SRP0420-R47K</td>
<td>0.47</td>
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Product Dimensions

Electrical Schematic

Additional Information

Click here for more information:

| PRODUCT 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

Materials

Core: Metal alloy powder
Wire: Enamelled copper
Terminal Finish: Sn
Packaging: 2500 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

SRP0420 - 4R7K

Model Value Code (see table)

WARNING
Cancer and Reproductive Harm
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.
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.
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.

Temperature (°C)

Time (Seconds)
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