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

SRP0412 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 (mH) Typ.</th>
<th>DCR (mΩ) Max.</th>
<th>Irms (A) Typ.</th>
<th>Isat (A) Typ.</th>
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<tr>
<td>SRP0412-R47K</td>
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<td>25.2</td>
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<td>7.96</td>
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<td>SRP0412-100K</td>
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<td>15</td>
<td>2.52</td>
<td>213.0</td>
<td>250.0</td>
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</table>

** Product Dimensions **

** Recommended Layout **

** Electrical Schematic **

** Additional Information **

Click these links for more information:

** 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 ...
- 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 ......................Enamled copper
Terminal Finish ..................Sn
Packaging ...... 4000 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 **

SRP0412 - 4R7K

Model __________________________ bins
Value Code (see table) __________________________ bins

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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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** WARNING **

Cancer and Reproductive Harm
www.P65Warnings.ca.gov
L vs. I Charts

SRP0412 Series - Shielded Power Inductors

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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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SRP0412 Series - Shielded Power Inductors

Packaging Specifications

Dimensions:

- **MM** (INCHES)
  - 4R7
  - 4R7
  - 4R7
  - 4R7

- 330 (12.99) DIA.
- 21 ± 0.8 (0.827 ± 0.031)
- 13.5 ± 0.5 (0.531 ± 0.020)
- 2.0 ± 0.5 (0.079 ± 0.020)
- 18.4 (0.724)
- 50 MIN.
- 14 MAX.

- COVER TAPE
- EMBOSSED CARRIER

- LEADER
  - NO COMPONENT
  - MIN.
  - 960 (37.795)
  - 315 (12.76)

- TRAILER
  - NO COMPONENT
  - MIN.
  - 13.5 ± 0.5 (0.531 ± 0.020)

- END
- 12 (0.472)
- 8 (0.315)
- 4 (0.157)

- USER DIRECTION OF FEED
- QTY: 4,000 PCS PER REEL

- COMPONENTS

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