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

SRP0612 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 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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<td>SRP0612-R47K</td>
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<td>10</td>
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</table>

Product Dimensions

Recommended Layout

Electrical Schematic

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..............50 V

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 .....................Enameled 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

SRP0612 - 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.

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SRP0612 Series - Shielded Power Inductors

L vs. I Charts

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SRP0612 Series - Shielded Power Inductors

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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### SRP0612 Series - Shielded Power Inductors

**Packaging Specifications**

![Diagram of packaging specifications](image)

**Dimensions:**
- **MM:**
  - End: 330 (12.99) DIA.
  - 21 ± 0.8 (0.827 ± 0.031)
  - 13.5 ± 0.5 (0.531 ± 0.020)
- **(Inches):**
  - 8 (.315)
  - 4 (.157)

**QTY:** 2,500 PCS PER REEL

**User Direction of Feed**

**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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