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

SRP0312 Series - Shielded Power Inductors

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Inductance @ 100 kHz / 1 V L (µH)</th>
<th>Q Typ.</th>
<th>Q Test Freq, (MHz) 91</th>
<th>SRF (MHz) Typ. 49.0</th>
<th>DCR (mΩ) Max. 4.7</th>
<th>Irms (A) Typ. 29.0</th>
<th>Isat (A) Typ. 77.0</th>
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<td>7.96</td>
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Electrical Schematic

Recommended Layout

Product Dimensions

Recommended Layout

Dimensions: MM (INCHES)

Electrical Schematic

How to Order

SRP0312 - 4R7K

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).................1
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 ......................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.

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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SRP0312 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.

Temperature Rising Area
-4.0 °C/Sec. Max.
150~200 °C / 60~120 Sec.

Preheat Area
+3.0 °C/Sec. Max.

Reflow Area
(1.0~5.0) °C/Sec. Max.

Forced Cooling Area

Temperature (°C)

Time (Seconds)

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SRP0312 Series - Shielded Power Inductors

Packaging Specifications

- Dimensions: MM (INCHES)
- Leader No Component: 360 (14.177) MIN.
- Components: 960 (37.795) MIN.
- Trailer No Component: 960 (37.795) MIN.
- User Direction of Feed
- QTY: 4,000 PCS PER REEL

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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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