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

**SRP0320 Series - Shielded Power Inductors**

**Electrical Specifications @ 25 °C**

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Inductance @ 100 kHz / 1 V Q (µH)</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>
</tr>
</thead>
<tbody>
<tr>
<td>SRP0320-R47K</td>
<td>0.47</td>
<td>10</td>
<td>19</td>
<td>25.2</td>
<td>85</td>
<td>12.5</td>
<td>14.6</td>
<td>7.4</td>
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<td>SRP0320-R68K</td>
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<td>10</td>
<td>8</td>
<td>25.2</td>
<td>62</td>
<td>12.6</td>
<td>14.8</td>
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<td>SRP0320-1R0K</td>
<td>1.00</td>
<td>10</td>
<td>34</td>
<td>7.96</td>
<td>64</td>
<td>18.2</td>
<td>21.3</td>
<td>6.3</td>
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<tr>
<td>SRP0320-1R5K</td>
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<td>35</td>
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<tr>
<td>SRP0320-2R2K</td>
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<td>34</td>
<td>7.96</td>
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<tr>
<td>SRP0320-3R3K</td>
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<td>34</td>
<td>7.96</td>
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<td>SRP0320-4R7K</td>
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<td>34</td>
<td>7.96</td>
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<td>132.0</td>
<td>156.0</td>
<td>2.2</td>
</tr>
</tbody>
</table>

*RoHS COMPLIANT*  
**LEAD FREE VERSIONS ARE RoHS COMPLIANT**

**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 Isat1

**Temperature Rise**
- 40 °C at rated Irms

**Rated Voltage**
- 50 V

**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: 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**

SRP0320 - 4R7K

**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](http://www.P65Warnings.ca.gov)
SRP0320 Series - Shielded Power Inductors

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SRP0320 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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SRP0320 Series - Shielded Power Inductors

Packaging Specifications

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