SRP0610 Series - Shielded Power Inductors

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

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**Electrical Specifications @ 25 °C**

<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) Typ.</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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<tbody>
<tr>
<td>SRP0610-R47K</td>
<td>0.47</td>
<td>10</td>
<td>20</td>
<td>25.2</td>
<td>70</td>
<td>37.0</td>
<td>43.0</td>
<td>4.7</td>
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<td>SRP0610-R68K</td>
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<td>10</td>
<td>18</td>
<td>25.2</td>
<td>55</td>
<td>37.0</td>
<td>43.0</td>
<td>4.7</td>
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<tr>
<td>SRP0610-1R0K</td>
<td>1.00</td>
<td>10</td>
<td>49</td>
<td>7.96</td>
<td>43</td>
<td>45.0</td>
<td>54.0</td>
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<tr>
<td>SRP0610-1R5K</td>
<td>1.50</td>
<td>10</td>
<td>43</td>
<td>7.96</td>
<td>37</td>
<td>63.0</td>
<td>74.0</td>
<td>3.5</td>
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<td>SRP0610-2R2K</td>
<td>2.20</td>
<td>10</td>
<td>42</td>
<td>7.96</td>
<td>26</td>
<td>71.5</td>
<td>83.0</td>
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<tr>
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<td>10</td>
<td>31</td>
<td>7.96</td>
<td>20</td>
<td>85.0</td>
<td>99.0</td>
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<td>SRP0610-100K</td>
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<td>11</td>
<td>2.52</td>
<td>11</td>
<td>206.0</td>
<td>240.0</td>
<td>2.0</td>
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</tbody>
</table>

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**Product Dimensions**

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**Recommended Layout**

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**Electrical Schematic**

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**Additional Information**

Click these links for more information:

- **PRODUCT SELECTOR**
- **TECHNICAL LIBRARY**
- **INVENTORY**
- **SAMPLES**
- **CONTACT**

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**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...
- **Rated Voltage**: 40 °C at rated Irms
- **Moisture Sensitivity Level**: 1
- **ESD Classification (HBM)**: N/A

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**Materials**

- Core: Metal alloy powder
- Wire: Enamelled copper
- Terminal Finish: Sn
- Packaging: 2500 pcs. per 13-inch reel

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**How to Order**

**Model**

**Value Code (see table)**

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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
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Packaging Specifications

DIMENSIONS:

<table>
<thead>
<tr>
<th>DIA.</th>
<th>(INCHES)</th>
</tr>
</thead>
<tbody>
<tr>
<td>22.4</td>
<td>(.882)</td>
</tr>
<tr>
<td>50</td>
<td>(.1969)</td>
</tr>
<tr>
<td>18 ± 0</td>
<td>(.709 ± .00)</td>
</tr>
</tbody>
</table>

END COVER TAPE

EMBOSSED CARRIER

LEADER

NO COMPONENT

MIN. (14.175)

MIN. (37.795)

COMPONENTS

TRAILER

NO COMPONENT

MIN. (360)

MIN. (960)

USER DIRECTION OF FEED

QTY: 2,500 PCS PER REEL

DIMENSIONS: MM (INCHES)

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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
www.bourns.com

REV. 06/22

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