**Features**
- Semi-shielded construction
- Component height: 2 mm max.
- Inductance range: 1 to 33 µH
- High rated current - up to 3.6 A
- RoHS compliant* and halogen free**

**Applications**
- DC/DC converters
- Notebook computers
- Digital video cameras
- Televisions, LCD displays

**SRN5020 Series - Semi-shielded Power Inductors**

**Electrical Specifications @ 25 °C**

<table>
<thead>
<tr>
<th>Bourns Part No.</th>
<th>Inductance @ 100 KHz/1V</th>
<th>Q (Ref.)</th>
<th>Test Freq. (MHz)</th>
<th>SRF (MHz) Typ.</th>
<th>DCR (Ω) Max.</th>
<th>Irms (A)</th>
<th>Isat (A)</th>
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<tbody>
<tr>
<td>SRN5020-1R0Y</td>
<td>1.0</td>
<td>30</td>
<td>13</td>
<td>7.96</td>
<td>0.025</td>
<td>3.60</td>
<td>4.00</td>
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<td>SRN5020-1R5Y</td>
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<td>11</td>
<td>7.96</td>
<td>0.040</td>
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<td>SRN5020-3R3M</td>
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<td>0.106</td>
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<td>0.108</td>
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<td>SRN5020-100M</td>
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<td>SRN5020-150M</td>
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<td>14</td>
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<td>0.198</td>
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<td>SRN5020-220M</td>
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<td>0.312</td>
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<td>0.90</td>
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<td>SRN5020-330M</td>
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<td>0.516</td>
<td>0.90</td>
<td>0.80</td>
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</tbody>
</table>

**Soldering Profile**

- Preheat Area: 150-200 °C / 60-120 sec.
- Reflow Area: 60-150 sec.
- Forced Cooling Area: 60-120 sec.

**General Specifications**

- **Operating Temperature**: -40 °C to +125 °C (Temperature rise included)
- **Storage Temperature (Component)**: -40 °C to +125 °C
- **Resistance to Solder Heat**: +260 °C for 10 sec.
- **Temperature Rise**: 40 °C at rated Irms
- **Rated Current**: Rated Current drops 30 % at Isat
- **Moisture Sensitivity Level**: 1

**Materials**
- **Core**: Ferrite
- **Wire**: Enameled copper
- **Terminal Finish**: Sn/Ag/Cu
- **Coating**: Magnetic epoxy resin
- **Packaging**: 2000 pcs. per 13-inch reel

**How to Order**

- Model: SRN5020 - 100M
- Value Code (see table)

**Product Dimensions**

- **Dimensions**: MM (INCHES)
- **5.0 ± 0.2 (0.197 ± .008)
- **5.0 ± 0.2 (0.197 ± .008)
- **2.0 (079) MAX.

**WARNING** Cancer and Reproductive Harm
[www.P65Warnings.ca.gov](http://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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SRN5020 Series - Semi-shielded Power Inductors

Packaging Specifications

QTY: 2000 PCS. PER REEL

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