**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

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

**Electrical Specifications @ 25 °C**

<table>
<thead>
<tr>
<th>Bourns Part No.</th>
<th>Inductance @ 100 KHz/1 V L (µH)</th>
<th>Tol. %</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>85</td>
<td>0.025</td>
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<td>11</td>
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</table>

**Soldering Profile**

- Temperature Rising Area: +150 °C/120 sec.
- Preheat Area: 150-200 °C / 60-120 sec.
- Reflow Area: >217 °C / 60-150 sec. max.
- Forced Cooling Area: +3.0 °C/Sec. Max.

**General Specifications**

- Operating Temperature: -40 °C to +125 °C (Temperature rise included)
- Storage Temperature (Component): -40 °C to +125 °C
- Temperature Rise: 40 °C at rated Irms
- Rated Current: Isat
- Moisture Sensitivity Level: 1
- ESD Classification (HBM): N/A

**Materials**

- Core: Ferrite
- Wire: Enamelled 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)

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**Product Dimensions**

- Dimensions: 5.0 ± 0.2 (197 ± 0.08)

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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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SRN5020 Series - Semi-shielded Power Inductors

Packaging Specifications

QTY: 2000 PCS. PER REEL

DIMENSIONS: MM (INCHES)

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