**Features**
- Semi-shielded construction
- High rated current
- Component height 4.5 mm
- Inductance range: 1 to 220 µH
- Rated current up to 4.2 A
- RoHS compliant* and halogen free**

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

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### 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>SRN6045-1R0Y</td>
<td>1.0</td>
<td>30</td>
<td>15</td>
<td>7.96</td>
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</table>

### General Specifications

**Operating Temperature**
- -40 °C to 125 °C (Temperature rise included)

**Storage Temperature (Component)**
- -40 °C to 125 °C

**Resistance to Solder Heat**
- 250 °C for 10 sec.

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

**Rated Current**
- Inductance drops 30 % at Isat

**Moisture Sensitivity Level**
- 1

**ESD Classification (HBM)**
- N/A

### Materials

- Core: Ferrite
- Wire: Enamled copper
- Terminal Finish: Sn/Ag/Cu
- Coating: Magnetic epoxy resin
- Packaging: 1000 pcs. per 13-inch reel

### How to Order

SRN6045 - 100M

**Model**

**Value Code (see table)**

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**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.

Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications.
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SRN6045 Series - Semi-shielded Power Inductors

**Soldering Profile**

 Peak Temperature: 250 °C max.
- Max. Peak Temp. -5 °C: 30 sec. max.
- Max. Time Above 217 °C: 60–150 sec. max.

**Packaging Specifications**

QTY: 1000 PCS. PER REEL

REV. 01/20
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Users should verify actual device performance in their specific applications.
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