SRU2016 Series - Shielded SMD Power Inductors

### Features
- Maximum height of 1.8 mm
- Current up to 2.2 A
- RoHS compliant*

### Applications
- Input/output of DC/DC converters
- Power supplies for:
  - Portable communication equipment
  - Camcorders
  - LCD TVs

### Electrical Specifications

<table>
<thead>
<tr>
<th>Bourns Part No.</th>
<th>Inductance 100 KHz (μH)</th>
<th>Tol. %</th>
<th>Q Ref.</th>
<th>Test Freq. (MHz)</th>
<th>SRF Typ. (MHz)</th>
<th>RDC Max. (mΩ)</th>
<th>Irms Max. (A)</th>
<th>Isat Typ. (A)</th>
<th>Marking</th>
<th>**K-Factor</th>
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<tbody>
<tr>
<td>SRU2016-1R0Y</td>
<td>1.0 ±30</td>
<td>8</td>
<td></td>
<td>7.96</td>
<td>750</td>
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<td>2.20</td>
<td>1.60</td>
<td>A</td>
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<td>0.74</td>
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<td>SRU2016-220Y</td>
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<tr>
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</table>

**K-Factor:** To calculate core flux density, Bp-p (gauss) = K x Lu(H) x A I (peak-to-peak ripple current, A), determine core loss from Core Loss vs. Flux Density plot.

### General Specifications
- Test Voltage: 0.1 V
- Reflow Soldering: 230 °C, 50 sec. max.
- Operating Temperature: -40 °C to +125 °C (Temperature rise included)
- Storage Temperature: -40 °C to +125 °C
- Moisture Sensitivity Level: 1

### Materials
- Core: Ferrite DR and RI core
- Wire: Enamelled copper
- Terminal: Ag/Ni/Sn
- Rated Current: Ind. drop 35 % typ. at Isat
- Temperature Rise: 40 °C max. at rated Irms

### Product Dimensions

#### Dimensions:

<table>
<thead>
<tr>
<th>Dimension</th>
<th>(MM)</th>
<th>(INCHES)</th>
</tr>
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<tbody>
<tr>
<td>Core</td>
<td>2.80</td>
<td>0.110</td>
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<tr>
<td>Wire</td>
<td>1.65</td>
<td>0.065</td>
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<tr>
<td>Terminal</td>
<td>0.90</td>
<td>0.035</td>
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### Core Loss vs. Flux Density

![Core Loss vs. Flux Density Graph]

### Recommended Layout

![Recommended Layout Diagram]

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* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf

**WARNING** Cancer and Reproductive Harm

www.P65Warnings.ca.gov
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Packaging Specifications

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