**SRU5018 Series - Shielded SMD Power Inductors**

**Features**
- Available in E6 series
- Unit height of 1.8 mm
- Current up to 2.8 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 Number</th>
<th>Inductance @ 100 KHz</th>
<th>Q</th>
<th>Test Freq. (MHz)</th>
<th>SRF Min. (MHz)</th>
<th>RDC (mΩ)</th>
<th>I rms Max. (A)</th>
<th>I sat Typ. (A)</th>
<th><strong>K</strong>-Factor</th>
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</thead>
<tbody>
<tr>
<td>SRU5018-1R0Y</td>
<td>1.0 ±30</td>
<td>9</td>
<td>7.96</td>
<td>200</td>
<td>12.5</td>
<td>2.80</td>
<td>2.85</td>
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<td>SRU5018-1R5Y</td>
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<td>9</td>
<td>7.96</td>
<td>160</td>
<td>15.5</td>
<td>2.50</td>
<td>2.40</td>
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<td>SRU5018-3R5Y</td>
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<td>2.00</td>
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<td>SRU5018-220Y</td>
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<td>SRU5018-101Y</td>
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<td>620.0</td>
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**General Specifications**

- Test Voltage: 0.1 V
- Reflow Soldering: 230 °C, 50 sec. max.
- Operating Temp.: -40 °C to +125 °C (Temperature rise included)
- Storage Temperature: -40 °C to +125 °C
- Moisture Sensitivity Level: 1
- ESD Classification (HBM): N/A

**Materials**
- Core: Ferrite DR and RI core
- Wire: Enamelled copper
- Terminal: Ag/Ni/Sn
- Rated Current: Ind. drop 35 % typ. at Isat

**Product Dimensions**

**Recommended Layout**

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
SRU5018 Series - Shielded SMD Power Inductors

Packaging Specifications

Dimensions: MM (INCHES)

QTY: 1000 PCS. PER REEL

User Direction of Feed

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