**Features**
- Available in E6 series
- Unit height of 1.8 mm
- Current up to 1.7 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>Q Ref.</th>
<th>Test Freq. (MHz)</th>
<th>SRF Typ. (MHz)</th>
<th>RDC (mΩ)</th>
<th>Irms Max. (A)</th>
<th>Isat Typ. (A)</th>
<th>**K-Factor</th>
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</thead>
<tbody>
<tr>
<td>SRU3017-2R2Y</td>
<td>2.2 ± 30</td>
<td>8</td>
<td>7.96</td>
<td>100</td>
<td>35</td>
<td>1.70</td>
<td>0.98</td>
<td>1238</td>
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<tr>
<td>SRU3017-3R3Y</td>
<td>3.3 ± 30</td>
<td>8</td>
<td>7.96</td>
<td>80</td>
<td>55</td>
<td>1.45</td>
<td>0.80</td>
<td>1002</td>
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<td>SRU3017-4R7Y</td>
<td>4.7 ± 30</td>
<td>10</td>
<td>7.96</td>
<td>60</td>
<td>68</td>
<td>1.10</td>
<td>0.63</td>
<td>842</td>
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<tr>
<td>SRU3017-6R8Y</td>
<td>6.8 ± 30</td>
<td>10</td>
<td>7.96</td>
<td>50</td>
<td>85</td>
<td>1.00</td>
<td>0.53</td>
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<tr>
<td>SRU3017-100Y</td>
<td>10.0 ± 30</td>
<td>15</td>
<td>7.96</td>
<td>40</td>
<td>120</td>
<td>0.85</td>
<td>0.47</td>
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<tr>
<td>SRU3017-150Y</td>
<td>15.0 ± 30</td>
<td>20</td>
<td>2.52</td>
<td>35</td>
<td>175</td>
<td>0.68</td>
<td>0.35</td>
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<tr>
<td>SRU3017-220Y</td>
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<td>2.52</td>
<td>30</td>
<td>250</td>
<td>0.60</td>
<td>0.30</td>
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<tr>
<td>SRU3017-330Y</td>
<td>33.0 ± 30</td>
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<td>2.52</td>
<td>20</td>
<td>430</td>
<td>0.47</td>
<td>0.25</td>
<td>324</td>
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<tr>
<td>SRU3017-470Y</td>
<td>47.0 ± 30</td>
<td>18</td>
<td>2.52</td>
<td>18</td>
<td>540</td>
<td>0.36</td>
<td>0.21</td>
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</tbody>
</table>

**Core Loss vs. Flux Density**

<table>
<thead>
<tr>
<th>Flux Density Bp-p (gauss)</th>
<th>Core Loss (mW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>1.0</td>
</tr>
<tr>
<td>100</td>
<td>1.0</td>
</tr>
<tr>
<td>1000</td>
<td>1.0</td>
</tr>
</tbody>
</table>

**Specifications**

- Test Voltage: 0.1 V
- Reflow Soldering: 230 °C, 50 sec. max.
- Operating Temperature: -40 °C to +125 °C
- Storage Temperature: -40 °C to +125 °C
- Rated Current: Ind. drop 35 % typ. at Isat
- Temp. Rise: 30 °C max. at rated Irms
- Moisture Sensitivity Level: N/A

**Materials**

- Core: Ferrite DR and RI core
- Wire: Enameled copper (Class F)
- Terminal: Ag/Ni/Sn
- Packaging: 800 pcs. per reel

**Recommended Layout**

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**WARNING** Cancer and Reproductive Harm  
www.P65Warnings.ca.gov  
*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
SRU3017 Series - Shielded SMD Power Inductors

**Inductor Connection**

**Electrical Schematic**

**Packaging Specifications**

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