Features
- Maximum height of 1.25 mm
- Current up to 2.6 A
- RoHS compliant*

SRU6011 Series - Shielded SMD Power Inductors

Electrical Specifications

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Inductance @ 100 KHz</th>
<th>Q Ref.</th>
<th>Test Freq. (MHz)</th>
<th>SRF Typ. (MHz)</th>
<th>RDC Max. (mc)</th>
<th>I rms Max. (A)</th>
<th>I sat Typ. (A)</th>
<th>**K-Factor</th>
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</thead>
<tbody>
<tr>
<td>SRU6011-1R4Y</td>
<td>1.4 ±30</td>
<td>8</td>
<td>7.96</td>
<td>140</td>
<td>40</td>
<td>2.60</td>
<td>1.80</td>
<td>707</td>
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<tr>
<td>SRU6011-2R7Y</td>
<td>2.7 ±30</td>
<td>8</td>
<td>7.96</td>
<td>100</td>
<td>62</td>
<td>2.20</td>
<td>1.45</td>
<td>490</td>
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<tr>
<td>SRU6011-4R7Y</td>
<td>4.7 ±30</td>
<td>8</td>
<td>7.96</td>
<td>70</td>
<td>86</td>
<td>1.80</td>
<td>1.0</td>
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<tr>
<td>SRU6011-6R8Y</td>
<td>6.8 ±30</td>
<td>7</td>
<td>7.96</td>
<td>55</td>
<td>136</td>
<td>1.40</td>
<td>0.9</td>
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<tr>
<td>SRU6011-100Y</td>
<td>10 ±30</td>
<td>12</td>
<td>2.52</td>
<td>45</td>
<td>220</td>
<td>1.10</td>
<td>0.72</td>
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<tr>
<td>SRU6011-150Y</td>
<td>15 ±30</td>
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<td>2.52</td>
<td>32</td>
<td>320</td>
<td>0.95</td>
<td>0.62</td>
<td>193</td>
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<tr>
<td>SRU6011-220Y</td>
<td>22 ±30</td>
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<td>2.52</td>
<td>26</td>
<td>390</td>
<td>0.80</td>
<td>0.48</td>
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<td>SRU6011-330Y</td>
<td>33 ±30</td>
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<td>2.52</td>
<td>22</td>
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<td>SRU6011-470Y</td>
<td>47 ±30</td>
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<td>0.32</td>
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<tr>
<td>SRU6011-680Y</td>
<td>68 ±30</td>
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<td>2.52</td>
<td>18</td>
<td>1200</td>
<td>0.46</td>
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</tbody>
</table>

**K-Factor: To calculate core flux density, Bp-p (gauss) = K \times L(\mu H) \times \Delta 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 Temp.............-40 °C to +125 °C (Temperature rise included)
Storage Temp..................-40 °C to +125 °C
Resistance to Soldering Heat...........................260 °C for 10 sec.
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 Temp. Rise......40 °C max. at rated Irms
Packaging..............................1000 pcs. per reel

Electrical Schematic

Recommended Layout

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WARNING Cancer and Reproductive Harm

www.P65Warnings.ca.gov
Applications

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

SRU6011 Series - Shielded SMD Power Inductors

Packaging Specifications

REV. 09/23

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Users should verify actual device performance in their specific applications.
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