Features
- Available in E6 values
- Mounting height of only 1.15 mm
- Inductance value to 1.5 µH
- RoHS compliant*

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

SRR3011 Series - Shielded Power Inductors

Electrical Characteristics

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Inductance 100 kHz (µH)</th>
<th>Q Typ.</th>
<th>Test Frequency (MHz)</th>
<th>SRF Min. (MHz)</th>
<th>RDC Max. (Ω)</th>
<th>I rms Max. (A)</th>
<th>I sat Typ. (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRR3011-1R5YL</td>
<td>1.50 ± 30</td>
<td>11</td>
<td>7.96</td>
<td>124</td>
<td>0.055</td>
<td>1.60</td>
<td>1.30</td>
</tr>
<tr>
<td>SRR3011-2R5YL</td>
<td>2.50 ± 30</td>
<td>7</td>
<td>7.96</td>
<td>112</td>
<td>0.085</td>
<td>1.20</td>
<td>1.00</td>
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<tr>
<td>SRR3011-3R3YL</td>
<td>3.30 ± 30</td>
<td>8</td>
<td>7.96</td>
<td>101</td>
<td>0.090</td>
<td>1.00</td>
<td>0.85</td>
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<tr>
<td>SRR3011-4R7YL</td>
<td>4.70 ± 30</td>
<td>9</td>
<td>7.96</td>
<td>69</td>
<td>0.125</td>
<td>0.90</td>
<td>0.75</td>
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<tr>
<td>SRR3011-6R8YL</td>
<td>6.80 ± 30</td>
<td>10</td>
<td>7.96</td>
<td>49</td>
<td>0.210</td>
<td>0.72</td>
<td>0.62</td>
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<tr>
<td>SRR3011-100YL</td>
<td>10.0 ± 30</td>
<td>18</td>
<td>2.52</td>
<td>42</td>
<td>0.280</td>
<td>0.65</td>
<td>0.50</td>
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<tr>
<td>SRR3011-150YL</td>
<td>15.0 ± 30</td>
<td>16</td>
<td>2.52</td>
<td>37</td>
<td>0.420</td>
<td>0.48</td>
<td>0.38</td>
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<tr>
<td>SRR3011-220YL</td>
<td>22.0 ± 30</td>
<td>11</td>
<td>2.52</td>
<td>31</td>
<td>0.680</td>
<td>0.38</td>
<td>0.32</td>
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<tr>
<td>SRR3011-330YL</td>
<td>33.0 ± 30</td>
<td>14</td>
<td>2.52</td>
<td>25</td>
<td>0.860</td>
<td>0.32</td>
<td>0.27</td>
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<tr>
<td>SRR3011-470YL</td>
<td>47.0 ± 30</td>
<td>16</td>
<td>2.52</td>
<td>18</td>
<td>1.800</td>
<td>0.27</td>
<td>0.23</td>
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<tr>
<td>SRR3011-680YL</td>
<td>68.0 ± 30</td>
<td>14</td>
<td>2.52</td>
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<td>2.250</td>
<td>0.22</td>
<td>0.18</td>
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<tr>
<td>SRR3011-101YL</td>
<td>100.0 ± 30</td>
<td>39</td>
<td>0.796</td>
<td>13</td>
<td>3.600</td>
<td>0.18</td>
<td>0.15</td>
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</tbody>
</table>

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
Resistance to Soldering Heat ................. 260 °C for 10 sec.
Moisture Sensitivity Level .................... 1
ESD Classification (HBM) .................... N/A

Materials

Core ........................................... Ferrite DR and RI
Wire ......................................... Enameled copper wire 130
Terminal ...................................... Ag/Ni/Sn
Rated Current ............................... 260 °C for 10 sec.
Ind. drop 35 % typ. at Isat
Temperature Rise ......................... 30 °C max.
at rated Irms
Packaging ................................... 1200 pcs. per reel

Product Dimensions

Schematic

Recommended Layout

WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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