Features

- Maximum height of 6.7 mm
- Current up to 8 A
- RoHS compliant*

Applications

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

SRU1063 Series - Shielded SMD Power Inductors

Electrical Specifications

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Inductance @ 100 KHz L (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>I rms Max. (A)</th>
<th>I sat Typ. (A)</th>
<th>**K-Factor</th>
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<tbody>
<tr>
<td>SRU1063-1R6Y</td>
<td>1.6 ±30</td>
<td>13</td>
<td>13</td>
<td>7.96</td>
<td>65</td>
<td>9</td>
<td>8.00</td>
<td>10.00</td>
<td>133</td>
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<tr>
<td>SRU1063-2R2Y</td>
<td>2.2 ±30</td>
<td>10</td>
<td>10</td>
<td>7.96</td>
<td>65</td>
<td>11</td>
<td>7.50</td>
<td>8.50</td>
<td>95</td>
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<td>SRU1063-4R7Y</td>
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<td>11</td>
<td>11</td>
<td>7.96</td>
<td>30</td>
<td>14</td>
<td>5.50</td>
<td>5.70</td>
<td>68</td>
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<tr>
<td>SRU1063-100Y</td>
<td>10 ±30</td>
<td>14</td>
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<td>2.52</td>
<td>18</td>
<td>38</td>
<td>3.80</td>
<td>4.00</td>
<td>49</td>
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<tr>
<td>SRU1063-150Y</td>
<td>15 ±30</td>
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<td>12</td>
<td>2.52</td>
<td>14</td>
<td>42</td>
<td>3.20</td>
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<tr>
<td>SRU1063-220Y</td>
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<td>60</td>
<td>3.00</td>
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<tr>
<td>SRU1063-330Y</td>
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<td>12</td>
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<td>105</td>
<td>2.20</td>
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<td>SRU1063-470Y</td>
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<td>SRU1063-101Y</td>
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<td>320</td>
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<td>1.20</td>
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</table>

**K-Factor: To calculate core flux density, Bp-p (gauss) = K x L(μH) 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 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 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...............500 pcs. per reel

Materials

Product Dimensions

<table>
<thead>
<tr>
<th>Dimensions (INCHES)</th>
<th>REF.</th>
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<tr>
<td>3.80 (150)</td>
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<td>1.80 (0.71)</td>
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<tr>
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<td>REF.</td>
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<td>7.20 (283)</td>
<td>REF.</td>
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<tr>
<td>7.20 (283)</td>
<td>REF.</td>
</tr>
<tr>
<td>1.80 (0.71)</td>
<td>REF.</td>
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</tbody>
</table>

Recommended Layout

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

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SRU1063 Series - Shielded SMD Power Inductors

Packaging Specifications

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