Features
- Available in E12 values
- Inductance range as low as 1.0 µH
- Current rating to 9.4 amps
- RoHS compliant*

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

SRR1260 Series - Shielded SMD Power Inductors

Electrical Specifications

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Inductance (µH)</th>
<th>Q (typ.)</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><strong>K-Factor</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>SRR1260-1R0Y</td>
<td>1.0 ± 30</td>
<td>26</td>
<td>7.96</td>
<td>100.00</td>
<td>7.8</td>
<td>9.40</td>
<td>10.00</td>
<td>158</td>
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<td>SRR1260-1R2Y</td>
<td>1.2 ± 30</td>
<td>18</td>
<td>7.96</td>
<td>91.10</td>
<td>8.0</td>
<td>9.20</td>
<td>9.80</td>
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<td>SRR1260-1R5Y</td>
<td>1.5 ± 30</td>
<td>24</td>
<td>7.96</td>
<td>86.00</td>
<td>9.5</td>
<td>8.80</td>
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<tr>
<td>SRR1260-2R2Y</td>
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<td>22</td>
<td>7.96</td>
<td>70.00</td>
<td>10.5</td>
<td>8.20</td>
<td>8.50</td>
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<tr>
<td>SRR1260-2R4Y</td>
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<td>7.96</td>
<td>63.80</td>
<td>11.5</td>
<td>7.80</td>
<td>8.00</td>
<td>100</td>
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<td>SRR1260-3R3Y</td>
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<td>7.96</td>
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<td>12.0</td>
<td>7.60</td>
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<td>74</td>
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<td>3.5 ± 30</td>
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<td>37.60</td>
<td>13.0</td>
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<td>19.0</td>
<td>6.00</td>
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<td>SRR1260-5R6Y</td>
<td>5.6 ± 30</td>
<td>25</td>
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<td>21.00</td>
<td>23.0</td>
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<td>SRR1260-6R1Y</td>
<td>6.1 ± 30</td>
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<td>SRR1260-7R6Y</td>
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<td>SRR1260-8R2Y</td>
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<td>43.0</td>
<td>3.60</td>
<td>3.70</td>
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</tbody>
</table>

**K-Factor**: To calculate core flux density, Bp (gauss) = K x L(µH) x I (peak-to-peak ripple current, A), determine core loss from Core Loss vs. Flux Density plot.

General Specifications
- Inductance Test Frequency / Voltage SRR1260-1R0Y to -8R2Y...100 kHz/0.1 V SRR1260-100M to -120M...1 kHz/0.1 V
- Operating Temperature .................-40 °C to +125 °C (Temperature rise included)
- Storage Temperature .................-40 °C to +125 °C
- Resistance to Soldering Heat .............+260 °C for 10 sec.
- Temperature Rise ....................40 °C max. at rated I rms
- Inductance Drop .......... 25 % typ. at I sat
- Moisture Sensitivity Level ................1 ESD Classification (HBM)..............N/A
- Core Material ..................Ferrite DR and RI
- Wire ..................... Enameled copper wire
- Terminal ....................................Cu/Ni/Sn
- Packaging .................... 600 pcs. per reel

Materials

<table>
<thead>
<tr>
<th>Product Dimensions</th>
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</thead>
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<tr>
<td>12.5 ± 0.3  (492 ± 0.012)</td>
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<tr>
<td>6.0 ± 0.5  (236 ± 0.020)</td>
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</tbody>
</table>

Electrical Schematic

Recommended Layout

WARNING Cancer and Reproductive Harm

www.P65Warnings.ca.gov
Core Loss vs. Flux Density

![Core Loss vs. Flux Density Graph]

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Users should verify actual device performance in their specific applications.
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