**Features**
- Available in E12 values
- Inductance range as low as 1.1 µH
- Current rating to 10.2 amps
- RoHS compliant*

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

**SRR1280 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. (µΩ)</th>
<th>I rms Max. (A)</th>
<th>I sat Typ. (A)</th>
<th><strong>K-Factor</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>SRR1280-1R1Y</td>
<td>1.1 ± 30</td>
<td>26</td>
<td>7.96</td>
<td>85</td>
<td>6.5</td>
<td>10.20</td>
<td>14.00</td>
<td>94</td>
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<td>SRR1280-1R2Y</td>
<td>1.2 ± 30</td>
<td>28</td>
<td>7.96</td>
<td>83</td>
<td>18.0</td>
<td>6.60</td>
<td>7.80</td>
<td>90</td>
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<tr>
<td>SRR1280-1R4Y</td>
<td>1.4 ± 30</td>
<td>24</td>
<td>7.96</td>
<td>80</td>
<td>9.8</td>
<td>9.80</td>
<td>12.00</td>
<td>90</td>
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<tr>
<td>SRR1280-2R4Y</td>
<td>2.4 ± 30</td>
<td>20</td>
<td>7.96</td>
<td>45</td>
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<td>9.20</td>
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<td>SRR1280-3R3Y</td>
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<td>20</td>
<td>7.96</td>
<td>40</td>
<td>12.0</td>
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<td>9.80</td>
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<tr>
<td>SRR1280-3R5Y</td>
<td>3.5 ± 30</td>
<td>20</td>
<td>7.96</td>
<td>36</td>
<td>12.0</td>
<td>8.80</td>
<td>9.80</td>
<td>56</td>
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<tr>
<td>SRR1280-4R5Y</td>
<td>4.5 ± 30</td>
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<td>7.96</td>
<td>34</td>
<td>13.5</td>
<td>8.50</td>
<td>9.00</td>
<td>48</td>
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<td>SRR1280-4R7Y</td>
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<td>8.20</td>
<td>8.80</td>
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<tr>
<td>SRR1280-5R6Y</td>
<td>5.6 ± 30</td>
<td>20</td>
<td>7.96</td>
<td>24</td>
<td>16.0</td>
<td>8.00</td>
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<tr>
<td>SRR1280-6R8Y</td>
<td>6.8 ± 30</td>
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<td>7.96</td>
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<td>18.0</td>
<td>8.70</td>
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<tr>
<td>SRR1280-7R5Y</td>
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<tr>
<td>SRR1280-7R6Y</td>
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<td>7.96</td>
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<td>20.0</td>
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<td>9.00</td>
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<td>SRR1280-8R2Y</td>
<td>8.2 ± 30</td>
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<td>20.5</td>
<td>8.30</td>
<td>8.80</td>
<td>35</td>
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</tbody>
</table>

**General Specifications**
- **Inductance Test Frequency / Voltage**
  - SRR1280-1R1Y to -8R2Y ... 100 kHz/1 V
  - SRR1280-100M to -102K...... 1 kHz/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
- **Inductance Drop**
  - 25 % typ. at I sat
- **Moisture Sensitivity Level**
  - 1
- **Core**
  - Ferrite DR and RI
- **Wire**
  - Enameled copper wire 130
- **Terminal**
  - Cu/Ni/Sn
- **Packaging**
  - 400 pcs. per reel

**Materials**
- Core: ...............Ferrite DR and RI Wire ...............Enameled copper wire 130
- Terminal: .................Cu/Ni/Sn
- Packaging: .............400 pcs. per reel

**Product Dimensions**

**Recommended Layout**

**Electrical Schematic**

**WARNING** Cancer and Reproductive Harm

www.P65Warnings.ca.gov

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SRR1280 Series - Shielded SMD Power Inductors

Core Loss vs. Flux Density

Core Loss (mW) vs. Flux Density Bp-p (gauss) for different frequencies.

Packaging Specifications

- Diameter: 330 (12.99) DIA.
- Wall Thickness: 0.1 (0.04) MAX.
- Embossed Cavity:
- Embossed Carrier: 24.0 (.945)
- User Direction of Feed:
- QTY: 400 PCS. PER REEL

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