**SRP1255 Series - Shielded Power Inductors**

### Features
- Shielded construction
- Unit height of 5.4 mm
- Inductance range: 0.68 µH to 4.7 µH
- Current up to 29.7 A
- RoHS compliant*

### Electrical Specifications

<table>
<thead>
<tr>
<th>Bourns Part No.</th>
<th>Inductance L (µH)</th>
<th>I rms (A)</th>
<th>I sat (A)</th>
<th>DCR (mΩ) max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRP1255-R68M</td>
<td>0.68</td>
<td>29.7</td>
<td>38.8</td>
<td>1.5</td>
</tr>
<tr>
<td>SRP1255-1R0M</td>
<td>1.00</td>
<td>25.7</td>
<td>33.6</td>
<td>2.0</td>
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<tr>
<td>SRP1255-1R2M</td>
<td>1.20</td>
<td>23.1</td>
<td>26.9</td>
<td>2.6</td>
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<tr>
<td>SRP1255-2R2M</td>
<td>2.20</td>
<td>17.8</td>
<td>19.6</td>
<td>4.5</td>
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<tr>
<td>SRP1255-3R3M</td>
<td>3.30</td>
<td>14.4</td>
<td>17.5</td>
<td>7.0</td>
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<tr>
<td>SRP1255-4R7M</td>
<td>4.70</td>
<td>12.8</td>
<td>14.9</td>
<td>8.8</td>
</tr>
</tbody>
</table>

### General Specifications
- Test Voltage: 0.25 V
- Test Frequency: 100 KHz
- Reflow Soldering: 230°C; 50 sec max.
- Operating Temperature: -55°C to +150°C (Temperature rise included)
- Storage Temperature: -55°C to +150°C

### Materials
- Core: Iron
- Wire: Enameled copper
- Terminal: Cu/Sn
- Rated Current: Ind. drops 20% at I sat
- Temperature Rise: 40°C at rated I rms

### Soldering Profile
- Maximum of 10 seconds between +255°C and +280°C
- 260°C peak
- 10 seconds minimum
- Ramp Up: 4°C/second maximum
- Ramp Down: 3°C/second maximum

### Product Dimensions

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Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

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*OBSOLETE*
Applications
- Input/output of DC/DC converters
- Power supplies for:
  - Portable communications equipment
  - Camcorders
  - LCD TVs
  - Car audio systems

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L vs. I Charts

Packaging Specifications

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