**Features**
- Shielded construction
- Unit height of 4.5 mm
- Inductance range: 0.36 to 3.2 μH
- Current up to 23 A
- RoHS compliant*

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**SRP1045 Series - Shielded Power Inductors**

**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>SRP1045-R36Y</td>
<td>0.36 ± 30 %</td>
<td>23.0</td>
<td>26.0</td>
<td>1.7</td>
</tr>
<tr>
<td>SRP1045-R80M</td>
<td>0.80 ± 20 %</td>
<td>15.0</td>
<td>17.0</td>
<td>3.9</td>
</tr>
<tr>
<td>SRP1045-1R4M</td>
<td>1.40 ± 20 %</td>
<td>13.0</td>
<td>14.0</td>
<td>4.4</td>
</tr>
<tr>
<td>SRP1045-2R2M</td>
<td>2.20 ± 20 %</td>
<td>9.5</td>
<td>10.0</td>
<td>8.7</td>
</tr>
<tr>
<td>SRP1045-3R2M</td>
<td>3.20 ± 20 %</td>
<td>8.0</td>
<td>8.0</td>
<td>10.4</td>
</tr>
</tbody>
</table>

**Inductance vs. DC Superposition Characteristics**

**General Specifications**

- Test Voltage: 1 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
- Moisture Sensitivity Level: 1
- ESD Classification (HBM): N/A

**Materials**

- Core: Ferrite ER
- Wire: Enameled copper
- Terminal: Cu/Ni/Sn

**Rated Current**: Ind. drops 25 % at Isat
**Temperature Rise**: 40 °C at rated Irms

**Packaging**: 600 pcs. per 13-inch reel

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**Recommended Layout**

**Recommended Layout**

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**WARNING** Cancer and Reproductive Harm

[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

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Applications

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

SRP1045 Series - Shielded Power Inductors

Soldering Profile

Packaging Specifications

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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