Features
- Shielded construction
- Unit height of 5.7 mm
- Inductance range: 0.47 to 3.3 μH
- Current up to 30 A
- RoHS compliant*

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

SRP1206 Series - Shielded Power Inductors

Electrical Specifications

<table>
<thead>
<tr>
<th>Bourns Part No.</th>
<th>Initial Inductance L0 (μH)</th>
<th>Inductance at Flat Point L1 (μH)</th>
<th>Flat Point Ref. (A)</th>
<th>I rms (A)</th>
<th>I sat (A)</th>
<th>DCR (mΩ) Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRP1206-R47Y</td>
<td>0.70 ±25 %</td>
<td>0.47 ±25 %</td>
<td>5.0</td>
<td>30.0</td>
<td>30.0</td>
<td>2.3</td>
</tr>
<tr>
<td>SRP1206-R60Y</td>
<td>0.90 ±25 %</td>
<td>0.60 ±25 %</td>
<td>5.0</td>
<td>28.0</td>
<td>26.0</td>
<td>2.3</td>
</tr>
<tr>
<td>SRP1206-R80Y</td>
<td>1.10 ±25 %</td>
<td>0.80 ±25 %</td>
<td>5.0</td>
<td>26.0</td>
<td>25.0</td>
<td>3.2</td>
</tr>
<tr>
<td>SRP1206-1R3Y</td>
<td>1.50 ±25 %</td>
<td>1.30 ±25 %</td>
<td>4.0</td>
<td>22.0</td>
<td>19.0</td>
<td>3.6</td>
</tr>
<tr>
<td>SRP1206-2R0Y</td>
<td>2.20 ±25 %</td>
<td>2.00 ±25 %</td>
<td>4.0</td>
<td>17.0</td>
<td>15.0</td>
<td>6.0</td>
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<tr>
<td>SRP1206-2R8Y</td>
<td>3.00 ±25 %</td>
<td>2.80 ±25 %</td>
<td>3.0</td>
<td>15.0</td>
<td>13.0</td>
<td>7.0</td>
</tr>
<tr>
<td>SRP1206-3R3Y</td>
<td>3.50 ±25 %</td>
<td>3.30 ±25 %</td>
<td>3.0</td>
<td>14.0</td>
<td>12.0</td>
<td>7.0</td>
</tr>
</tbody>
</table>

L vs I Charts

Electrical Schematic

Recommended Layout

Materials
- Core: Ferrite ER
- Wire: Enameled copper
- Terminal: Cu/Sn
- Rated Current: Ind. drops 20 % at Isat Temperature Rise: 40 °C at rated Irms
- Packaging: 600 pcs. per 13-inch reel

General Specifications
- Test Voltage: 1 V
- Test Frequency: 100 KHz
- Reflow Soldering: 230 °C; 50 sec. max.
- Operating Temperature: -55 °C to +150 °C
- Storage Temperature: -55 °C to +150 °C
- Moisture Sensitivity Level: 1

ESD Classification (HBM): N/A

1 Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

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![Cancer and Reproductive Harm](www.P65Warnings.ca.gov)

![DIMENSIONS: MM (INCHES)](image)
SRP1206 Series - Shielded Power Inductors

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