Features
- Shielded construction
- Unit height of 3.7 mm
- Inductance range: 0.1 to 10 μH
- Current up to 43 A
- RoHS compliant*

SRP1235 Series - Shielded Power Inductors

<table>
<thead>
<tr>
<th>Bourns Part No.</th>
<th>Inductance L (μH) ±20 %</th>
<th>I rms (A)</th>
<th>I sat (A)</th>
<th>DCR (mΩ) Max.</th>
<th>SRF (MHz) Typ.</th>
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<tbody>
<tr>
<td>SRP1235-R10M</td>
<td>0.10</td>
<td>43.0</td>
<td>56</td>
<td>0.96</td>
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<td>SRP1235-R15M</td>
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</table>

Soldering Profile

Test Voltage.........................0.25 V
Test Frequency .......................100 KHz
Reflow Soldering .....................230 °C; 50 sec. max.
Operating Temperature ..............-40 °C to +125 °C
(Temperature rise included)
Storage Temperature (On Board) ......-40 °C to +125 °C
Moisture Sensitivity Level..........+1 ESD Classification (HBM).........N/A

Materials
- Core........................................Iron
- 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

Recommended Layout

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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

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L vs. I Charts

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SRP1235-4R7M

SRP1235-5R6M

SRP1235-6R8M

SRP1235-8R2M

SRP1235-100M

SRP1235-100M

SRP1235-5R6M

SRP1235-6R8M

SRP1235-8R2M

SRP1235-100M

Packaging Specifications

Dimensions: MM (INCHES)

REV. 12/17

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