Features

■ Shielded construction
■ Carbonyl powder core
■ High saturation current
■ Inductance range: 0.10 to 10 µH
■ AEC-Q200 compliant
■ RoHS compliant* and halogen free**

SRP1238A Series - Shielded Power Inductors

- Test Voltage: 1.0 V
- Test Frequency: 100 KHz
- Operating Temperature: -40 °C to +150 °C (Temperature rise included)
- Storage Temperature: -40 °C to +125 °C
- Rated Current: Inductance drops 20 % at Isat
- Temperature Rise: 40 °C at rated Irms
- Moisture Sensitivity Level: 1

Materials

Core: Carbonyl powder
Wire: Enameled copper
Terminal Finish: Sn
Packaging: 500 pcs. per 13-inch reel

How to Order

SRP1238A - 100M
Model
Value Code (see table)

Recommended Layout

Please consult Bourns® Model SRP-A Series Visual Inspection Guide for detailed construction, processing and testing information.

WARNING  Cancer and Reproductive Harm
www.P65Warnings.ca.gov

** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.
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### L vs. I Charts (Continued)

#### SRP1238A Series - Shielded Power Inductors

<table>
<thead>
<tr>
<th>Model</th>
<th>Inductance (μH)</th>
<th>DC Current (A)</th>
<th>Temperature Rise (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRP1238A-5R6M</td>
<td>0.0 3.8 7.6 11.4 15.2 19</td>
<td>0 3.5 6.5 9.5 12.5 15.5</td>
<td>30 60 90 120</td>
</tr>
<tr>
<td>SRP1238A-6R8M</td>
<td>0.0 3.8 7.6 11.4 15.2 19</td>
<td>0 3.5 6.5 9.5 12.5 15.5</td>
<td>30 60 90 120</td>
</tr>
<tr>
<td>SRP1238A-8R2M</td>
<td>0.0 3.8 7.6 11.4 15.2 19</td>
<td>0 3.5 6.5 9.5 12.5 15.5</td>
<td>30 60 90 120</td>
</tr>
<tr>
<td>SRP1238A-100M</td>
<td>0.0 3.8 7.6 11.4 15.2 19</td>
<td>0 3.5 6.5 9.5 12.5 15.5</td>
<td>30 60 90 120</td>
</tr>
</tbody>
</table>

### Soldering Profile

**PRE-HEATING**

- Temperature (°C): 25
- Time (Seconds): 480 max.

**SOLDERING**

- Temperature (°C): 250, 260, 270
- Time (Seconds): 60 - 180

**NATURAL COOLING**

- Temperature (°C): 60 - 150
- Time (Seconds): 60 - 150 max.

**REFLOW TIMES: 3 MAX.**

### Electrical Schematic

![Electrical Schematic Diagram](image)

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Packaging Specifications

USER DIRECTION OF FEED

QTY: 500 PCS. PER REEL

DIMENSIONS: MM (INCHES)

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