Features
- Shielded construction
- Carbonyl powder core
- High saturation current
- Inductance range: 0.15 to 47 µH
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRP1265A Series - Shielded Power Inductors

### Electrical Specifications @ 25 °C

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Inductance @ 100 kHz / 1 V</th>
<th>Q (Min.) @ 100 kHz / 1 V</th>
<th>SRF (MHz) Typ.</th>
<th>DCR (mΩ) Typ.</th>
<th>DCR (mΩ) Max.</th>
<th>Irms (A)</th>
<th>Isat (A)</th>
<th>Terminal Type</th>
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<td>6.5</td>
<td>9.5</td>
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</tbody>
</table>

### General Specifications
- Test Voltage: 1.0 V
- Test Frequency: 100 KHz
- Operating Temperature: 55 °C to +150 °C (Temperature rise included)
- Storage Temperature: 55 °C to +150 °C
- Rated Current: Inductance drops 20% at Isat
- Temperature Rise: 40 °C at rated Irms
- Moisture Sensitivity Level: 1
- ESD Classification (HBM): N/A

### Materials
- Core: Carboxyl powder (Bourns®)
- Wire: Enameled copper (Sn)
- Terminal Finish: Sn

### How to Order

<table>
<thead>
<tr>
<th>Model</th>
<th>Value Code (see table)</th>
</tr>
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<tbody>
<tr>
<td>SRP1265A - 100M</td>
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</table>

### Recommended Layout

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

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** 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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Users should verify actual device performance in their specific applications.

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SRP1265A Series - Shielded Power Inductors

L vs. I Charts (Continued)

Soldering Profile

PRE-HEATING

T(<sub>p</sub>) (245 °C / 30–40 seconds)

SOLDERING

T(<sub>p</sub>) (260 °C / 10 seconds max.)

NATURAL COOLING

60–180 seconds

60–150 seconds

480 seconds max.

REFLOW TIMES: 3 MAX.

Electrical Schematic

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SRP1265A Series - Shielded Power Inductors

Packaging Specifications

Dimensions:

QTY: 500 PCS. PER REEL

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EMEA: Tel: +36 88 885 877 • Email: eurocus@bourns.com
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