**Features**
- Shielded construction for low radiation
- Metal alloy powder core
- High saturation current
- Low buzz noise
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

**Electrical Specifications @ 25 °C**

<table>
<thead>
<tr>
<th>Bourns Part No.</th>
<th>Inductance @ 500 kHz / 0.25 V L (µH)</th>
<th>Tol. %</th>
<th>Q Test Freq. (MHz) Typ. 25.2</th>
<th>Q Test Freq. (MHz) Typ. 200</th>
<th>SRF (MHz) Typ. 145</th>
<th>DCR (mΩ) Typ. 2.5</th>
<th>DCR (mΩ) Max. 2.8</th>
<th>Irms (A) Typ. 5.0</th>
<th>Isat (A) Typ. 8.0</th>
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<td>0.10</td>
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<td>30</td>
<td>7.96</td>
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<td>17</td>
<td>54.0</td>
<td>60.0</td>
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</tbody>
</table>

**Additional Information**

Click these links for more information:
- [PRODUCT](#)
- [TECHNICAL LIBRARY](#)
- [INVENTORY](#)
- [SAMPLES](#)
- [CONTACT](#)

**General Specifications**

- **Operating Temperature**: -55 °C to +155 °C (Temperature rise included)
- **Storage Temperature (Component)**: -55 °C to +155 °C
- **Temperature Rise**: 40 °C at rated Irms
- **Rated Current**: Inductance drops 30 % at Isat
- **Rated Voltage**: 50 V
- **MSL**: 1
- **ESD Classification (HBM)**: N/A

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

**Materials**

- Core: Metal alloy powder
- Wire: Enameled copper
- Terminal Finish: Ni/Sn

**Recommended Layout**

<table>
<thead>
<tr>
<th>Dimensions: MM (INCHES)</th>
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<tbody>
<tr>
<td>3.70 (146)</td>
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<tr>
<td>7.40 (291)</td>
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<tr>
<td>3.40 (134)</td>
</tr>
</tbody>
</table>

**WARNING**

Cancer and Reproductive Harm
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

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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. Specifications are subject to change without notice.

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Soldering Profile

Temperature (°C)
-50 0 50 100 150 200 250

Time (Seconds)
0 50 100 150 200 250

Peak Temperature: 250 °C
Max. Peak Temp.: -5 °C
Max. Time Above 217 °C: 60-150 sec. max.

Inductance vs. IDC

SRP6530A-R22M

SRP6530A-1R0M

SRP6530A-3R3M

SRP6530A-100M

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SRP6530A Series - Shielded Power Inductors

Inductance vs. IDC (continued)

<table>
<thead>
<tr>
<th>Model</th>
<th>L @ 25 °C</th>
<th>L @ 125 °C</th>
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<tbody>
<tr>
<td>SRP6530A-R22M</td>
<td>120%</td>
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<tr>
<td>SRP6530A-1R0M</td>
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<td>60%</td>
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<tr>
<td>SRP6530A-3R3M</td>
<td>40%</td>
<td>20%</td>
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<tr>
<td>SRP6530A-100M</td>
<td>0%</td>
<td>0%</td>
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</tbody>
</table>

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SRP6530A Series - Shielded Power Inductors

Packaging Specifications

Dimensions: MM (INCHES)  USER DIRECTION OF FEED

QTY: 1,000 PCS PER REEL

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