**Features**
- Semi-shielded construction
- Miniature size
- Low profile: 1 mm
- Inductance range: 0.24 to 2.2 µH
- Rated current up to 3.1 A
- RoHS compliant* and halogen free**

**Applications**
- DC/DC converters
- Notebook computers
- Digital video cameras
- HDDs
- Cellphones
- Televisions, LCD displays

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**SRN2510 Series - Semi-shielded Power Inductors**

**Electrical Specifications @ 25 °C**

<table>
<thead>
<tr>
<th>Bourns Part No.</th>
<th>Inductance @ 1 MHz / 0.1 V</th>
<th>Test Freq. (MHz)</th>
<th>SRF (MHz) Min.</th>
<th>DCR (Ω) Max.</th>
<th>Irms (A)</th>
<th>Isat (A)</th>
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</thead>
<tbody>
<tr>
<td>SRN2510-R24M</td>
<td>0.24</td>
<td>20</td>
<td>8</td>
<td>1</td>
<td>210</td>
<td>0.042</td>
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<td>1</td>
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<tr>
<td>SRN2510-R68M</td>
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<td>9</td>
<td>1</td>
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<td>0.055</td>
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<tr>
<td>SRN2510-1R0M</td>
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<td>1</td>
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<tr>
<td>SRN2510-2R2M</td>
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<td>20</td>
<td>11</td>
<td>1</td>
<td>80</td>
<td>0.169</td>
</tr>
</tbody>
</table>

**Soldering Profile**

- Peak Temperature: 260 °C max.
- Max. Time Above 217 °C: 60–150 sec. max.

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**General Specifications**

- Operating Temperature: -55 °C to +125 °C (Temperature rise included)
- Storage Temperature: -40 °C to +85 °C
- Resistance to Solder Heat: +260 °C for 40 sec.
- Temperature Rise: 40 °C at rated Irms

**Materials**

- Core: Ferrite
- Wire: Enamelled copper
- Terminal Finish: Sn
- Coating: Magnetic epoxy resin
- Packaging: 2000 pcs. per 7-inch reel

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**Recommended Layout**

![Recommended Layout Diagram]

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**How to Order**

SRN2510 - R24M

Model - Value Code (see table)

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**Electrical Schematic**

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**Asia-Pacific:** Tel: +886-2 2562-4117 • Fax: +886-2 2562-4116  
**EMEA:** Tel: +36 88 520 390 • Fax: +36 88 520 211  
**The Americas:** Tel: +1-951 781-5500 • Fax: +1-951 781-5700  
www.bourns.com

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**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. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf
SRN2510 Series - Semi-shielded Power Inductors

L vs. IDC

<table>
<thead>
<tr>
<th>Specification</th>
<th>DC Current (A)</th>
<th>Inductance (μH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRN2510-R24M</td>
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<tr>
<td>SRN2510-1R0M</td>
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<td></td>
</tr>
<tr>
<td>SRN2510-2R2M</td>
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</tr>
</tbody>
</table>

Packaging Specifications

QTY: 2000 PCS. PER REEL

REV. 12/14

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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