Features
- Semi-shielded construction
- Miniature size
- Low profile - 1.0 mm max.
- Inductance range: 1 to 47 µH
- Rated current up to 2.3 A
- RoHS compliant* and halogen free**

Applications
- DC/DC converters
- Notebook computers
- Digital video cameras
- HDDs
- Cell phones
- Televisions, LCD displays

SRN3010 Series - Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

<table>
<thead>
<tr>
<th>Bourns Part No.</th>
<th>Inductance @ 100 KHz / 1 V L (µH)</th>
<th>Test Freq. (MHz) SRF (MHz) Typ.</th>
<th>DCR (Ω) Max.</th>
<th>Irms (A)</th>
<th>Isat (A)</th>
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<tbody>
<tr>
<td>SRN3010-1R0Y</td>
<td>1.0</td>
<td>7.96</td>
<td>0.063</td>
<td>2.3</td>
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<td>SRN3010-2R2M</td>
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<td>0.096</td>
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<td>1.3</td>
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<td>SRN3010-3R3M</td>
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<td>SRN3010-4R7M</td>
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<td>0.210</td>
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<td>SRN3010-6R8M</td>
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<td>0.312</td>
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<td>SRN3010-100M</td>
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<td>0.420</td>
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<td>SRN3010-150M</td>
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<td>SRN3010-220M</td>
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<td>0.936</td>
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<td>0.4</td>
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<tr>
<td>SRN3010-330M</td>
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<td>7.96</td>
<td>1.320</td>
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<td>SRN3010-470M</td>
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<td>7.96</td>
<td>1.920</td>
<td>0.35</td>
<td>0.28</td>
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</tbody>
</table>

Materials
- Core: Ferrite
- Wire: Enameled copper
- Terminal Finish: Sn/Ag/Cu Coating
- Packaging: Magnetic epoxy resin
- Packaging: 2000 pcs. per 7-inch reel

Soldering Profile

How to Order

Model
Value Code (see table)
SRN3010 - 100M

Product Dimensions

Electrical Schematic

Recommend Layout

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
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