Features
- Semi-shielded construction
- Miniature size
- Component height 1.5 mm
- Inductance range: 1 to 100 µH
- Rated current up to 2.35 A
- RoHS compliant* and halogen free**

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

SRN3015 Series - Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

<table>
<thead>
<tr>
<th>Bourns Part No.</th>
<th>Inductance L (µH)</th>
<th>Tol. %</th>
<th>Q (Ref.)</th>
<th>Test Freq. (MHz)</th>
<th>SRF (MHz) Typ.</th>
<th>DCR (Ω) Max.</th>
<th>SRF (MHz) Min.</th>
<th>Irms (A)</th>
<th>Isat (A)</th>
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<tbody>
<tr>
<td>SRN3015-1R0Y</td>
<td>1.0 ± 30</td>
<td>10</td>
<td>7.96</td>
<td>105</td>
<td>0.048</td>
<td>145</td>
<td>2.35</td>
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<td>SRN3015-1R5Y</td>
<td>1.5 ± 30</td>
<td>10</td>
<td>7.96</td>
<td>90</td>
<td>0.066</td>
<td>130</td>
<td>2.10</td>
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<tr>
<td>SRN3015-2R2M</td>
<td>2.2 ± 20</td>
<td>10</td>
<td>7.96</td>
<td>70</td>
<td>0.072</td>
<td>90</td>
<td>1.80</td>
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<tr>
<td>SRN3015-3R3M</td>
<td>3.3 ± 20</td>
<td>10</td>
<td>7.96</td>
<td>47</td>
<td>0.112</td>
<td>75</td>
<td>1.60</td>
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<td>SRN3015-4R7M</td>
<td>4.7 ± 20</td>
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<td>7.96</td>
<td>43</td>
<td>0.136</td>
<td>65</td>
<td>1.40</td>
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<td>SRN3015-6R8M</td>
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<td>0.211</td>
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<td>0.276</td>
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<td>SRN3015-150M</td>
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<td>0.422</td>
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<td>SRN3015-180M</td>
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<td>SRN3015-330M</td>
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<td>SRN3015-470M</td>
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<td>SRN3015-101M</td>
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<td>2.920</td>
<td>11</td>
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<td>0.27</td>
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</table>

General Specifications

Operating Temperature
-40 °C to +125 °C (Temperature rise included)

Storage Temperature
-40 °C to +85 °C

Resistance to Solder Heat
+260 °C for 10 sec.

Temperature Rise
40 °C at rated Irms

Rated Current
Inductance drops 30 % at Isat

Moisture Sensitivity Level
1 ESD Classification (HBM)
N/A

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

How to Order
Model
SRN3015 - 100M
Value Code (see table)

Product Dimensions

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

Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications.
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