Features
- Semi-shielded construction
- Miniature size
- Low profile - 1.8 mm max.
- Inductance range: 0.82 to 220 µH
- High rated current - up to 4.0 A
- RoHS compliant* and halogen free**

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

SRN4018 Series - Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

<table>
<thead>
<tr>
<th>Bourns Part No.</th>
<th>Inductance @ 100 KHz/1 V</th>
<th>Test Freq. (MHz)</th>
<th>SRF (MHz)</th>
<th>DCR (Ω) Max.</th>
<th>Irms (A)</th>
<th>Isat (A)</th>
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<tr>
<td>SRN4018-R82Y</td>
<td>0.82</td>
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<td>0.019</td>
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</table>

General Specifications

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

Storage Temperature (Component)
-40 °C to +125 °C

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

Temperature Rise
-40 °C at rated Irms

Rated Current
Inductance drops 30 % at Isat

Materials
Core: Ferrite Wire: Enamelled copper Terminal Finish: Sn/Ag/Cu Coating: Magnetic epoxy resin

Packaging: 3000 pcs. per 13-inch reel

How to Order
SRN4018 - 100M

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.
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SRN4018 Series - Semi-shielded Power Inductors

Specifications

Temperature Rising Area: +4.0 °C/Sec. Max. 150-260 °C / 65-120 Sec.

Preheat Area: +3.0 °C/Sec. Max. 60 Sec. Max.


Forced Cooling Area: Peak Temperature: 260 °C 60-150 Sec.

Packaging Specifications

Users should verify actual device performance in their specific applications.

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