**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

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**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>Q (Ref.)</th>
<th>Test Freq. (MHz)</th>
<th>SRF (MHz) Typ.</th>
<th>DCR (Ω) Max.</th>
<th>Irms (A) Max.</th>
<th>Isat (A) Max.</th>
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<tr>
<td>SRN4018-R82Y</td>
<td>0.82</td>
<td>30</td>
<td>9</td>
<td>7.96</td>
<td>100</td>
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<td>6.36</td>
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</table>

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

**Materials**
- Core: Ferrite Wire: Enamelled copper
- Terminal Finish: Sn/Ag/Cu
- Coating: Magnetic epoxy resin
- Packaging: 3000 pcs. per 13-inch reel

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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.

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Soldering Profile

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

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