### Features
- Semi-shielded construction
- Inductance range: 1 to 220 µH
- Rated current up to 3.7 A
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

### SRN4018TA 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>SRF (MHz)</th>
<th>DCR (Ω)</th>
<th>Irms (A)</th>
<th>Isat (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>L (µH)</td>
<td>Typ.</td>
<td>±20 %</td>
<td>Typ.</td>
<td>Typ.</td>
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<tr>
<td>SRN4018TA-1R0M</td>
<td>1.0</td>
<td>160</td>
<td>0.027</td>
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<td>SRN4018TA-1R2M</td>
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<td>0.028</td>
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<td>SRN4018TA-1R5M</td>
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<td>SRN4018TA-2R2M</td>
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<td>SRN4018TA-3R3M</td>
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<td>SRN4018TA-10M</td>
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<td>SRN4018TA-101M</td>
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<td>SRN4018TA-151M</td>
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<td>3</td>
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</table>

#### General Specifications

- **Operating Temperature**: -55 °C to +125 °C (Temperature rise included)
- **Storage Temperature**: -55 °C to +125 °C
- **Temperature Rise**: 40 °C at rated Irms
- **Rated Current**: Inductance drops 30% at Isat
- **Failure In Time (FIT)**: 24.7/10^9 hours
- **Mean Time Between Failures (MTBF)**: 40.4 x 10^6 hours

#### Materials
- Core: Ferrite
- Wire: Enameled copper
- Terminal Finish: Sn
- Coating: Magnetic epoxy resin
- Packaging: 3000 pcs. per 13-inch reel

#### Product Dimensions

![Product Dimensions Diagram](image)

#### Soldering Profile

![Soldering Profile Diagram](image)

#### How to Order

- **Model**: SRN4018TA
- **Value Code (see table)**

#### Recommended Layout

![Recommended Layout Diagram](image)

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**WARNING** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://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](http://www.bourns.com/docs/legal/disclaimer.pdf)
SR4018TA Series - Semi-shielded Power Inductors

Inductance vs. Current

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SRN4018TA Series - Semi-shielded Power Inductors

Inductance vs. Current

SRN4018TA-680M

SRN4018TA-101M

SRN4018TA-151M

SRN4018TA-221M

Packaging Specifications

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