**Features**
- Semi-shielded construction
- Inductance range: 1 to 47 µH
- Rated current up to 2.2 A
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

**SRN3015TA Series - Semi-shielded Power Inductors**

**Electrical Specifications @ 25 °C**

<table>
<thead>
<tr>
<th>Bourns Part No.</th>
<th>Inductance @ 100 kHz / 0.1 V (Min.)</th>
<th>Q @ 100 kHz (Typ.)</th>
<th>SRF (MHz) @ 100 kHz (Typ.)</th>
<th>DCR (Ω) ±20%</th>
<th>Irms (A)</th>
<th>Isat (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRN3015TA-1R0Y</td>
<td>1.0 ±30</td>
<td>12</td>
<td>100</td>
<td>0.03</td>
<td>2.2</td>
<td>2.2</td>
</tr>
<tr>
<td>SRN3015TA-1R5Y</td>
<td>1.5 ±30</td>
<td>12</td>
<td>87</td>
<td>0.04</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>SRN3015TA-2R2M</td>
<td>2.2 ±20</td>
<td>12</td>
<td>64</td>
<td>0.06</td>
<td>1.7</td>
<td>1.7</td>
</tr>
<tr>
<td>SRN3015TA-3R3M</td>
<td>3.3 ±20</td>
<td>12</td>
<td>49</td>
<td>0.08</td>
<td>1.4</td>
<td>1.4</td>
</tr>
<tr>
<td>SRN3015TA-4R7M</td>
<td>4.7 ±20</td>
<td>12</td>
<td>40</td>
<td>0.12</td>
<td>1.2</td>
<td>1.2</td>
</tr>
<tr>
<td>SRN3015TA-6R8M</td>
<td>6.8 ±20</td>
<td>12</td>
<td>36</td>
<td>0.16</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>SRN3015TA-100M</td>
<td>10 ±20</td>
<td>12</td>
<td>28</td>
<td>0.22</td>
<td>0.8</td>
<td>0.75</td>
</tr>
<tr>
<td>SRN3015TA-150M</td>
<td>15 ±20</td>
<td>12</td>
<td>23</td>
<td>0.32</td>
<td>0.7</td>
<td>0.75</td>
</tr>
<tr>
<td>SRN3015TA-180M</td>
<td>18 ±20</td>
<td>12</td>
<td>21</td>
<td>0.41</td>
<td>0.65</td>
<td>0.6</td>
</tr>
<tr>
<td>SRN3015TA-220M</td>
<td>22 ±20</td>
<td>12</td>
<td>20</td>
<td>0.46</td>
<td>0.6</td>
<td>0.55</td>
</tr>
<tr>
<td>SRN3015TA-330M</td>
<td>33 ±20</td>
<td>12</td>
<td>18</td>
<td>0.8</td>
<td>0.45</td>
<td>0.4</td>
</tr>
<tr>
<td>SRN3015TA-470M</td>
<td>47 ±20</td>
<td>12</td>
<td>17</td>
<td>1.2</td>
<td>0.4</td>
<td>0.35</td>
</tr>
</tbody>
</table>

**General Specifications**

- Operating Temperature: -40 °C to +125 °C (Temperature rise included)
- Storage Temperature: -40 °C to +125 °C
- Temperature Rise: 40 °C at rated Irms
- Failure In Time (FIT): 24.7/109 hours
- Mean Time Between Failures (MTBF): 40.4 x 10⁶ hours
- Moisture Sensitivity Level: 1

**Materials**
- Core: Ferrite
- Wire: Enamelled copper
- Terminal Finish: Sn
- Coating: Magnetic epoxy resin
- Packaging: 2000 pcs. per 7-inch reel

**How to Order**

<table>
<thead>
<tr>
<th>Model</th>
<th>Value Code (see table)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRN3015TA - 100M</td>
<td></td>
</tr>
</tbody>
</table>

**Soldering Profile**

Preheating: Tp (260 °C, 10 Sec. Max.)
Soldering: Tp (245 °C, 20~40 Sec.)
Natural Cooling: 480 Sec. Max.

**Recommended Layout**

**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)
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SRN3015TA Series - Semi-shielded Power Inductors

Packaging Specifications

DIMENSIONS: MM

QTY: 2000 PCS. PER REEL

REV. 11/17

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