Features
- Semi-shielded construction
- Inductance range: 1 to 22 µH
- Rated current up to 2 A
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRN3012TA Series - Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

<table>
<thead>
<tr>
<th>Bourns Part No.</th>
<th>Inductance @ 1 MHz / 0.1 V</th>
<th>Q (Min.) @ 1 MHz</th>
<th>SRF (MHz) Typ.</th>
<th>DCR (Ω) ±20 %</th>
<th>Irms (A)</th>
<th>Isat (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRN3012TA-1R0Y</td>
<td>1.0 ±30</td>
<td>10</td>
<td>150</td>
<td>0.042</td>
<td>2.00</td>
<td>2.15</td>
</tr>
<tr>
<td>SRN3012TA-1R5Y</td>
<td>1.5 ±30</td>
<td>15</td>
<td>130</td>
<td>0.056</td>
<td>1.85</td>
<td>1.7</td>
</tr>
<tr>
<td>SRN3012TA-2R2M</td>
<td>2.2 ±20</td>
<td>15</td>
<td>90</td>
<td>0.08</td>
<td>1.7</td>
<td>1.5</td>
</tr>
<tr>
<td>SRN3012TA-3R3M</td>
<td>3.3 ±20</td>
<td>15</td>
<td>70</td>
<td>0.1</td>
<td>1.55</td>
<td>1.2</td>
</tr>
<tr>
<td>SRN3012TA-4R7M</td>
<td>4.7 ±20</td>
<td>18</td>
<td>55</td>
<td>0.13</td>
<td>1.3</td>
<td>1.05</td>
</tr>
<tr>
<td>SRN3012TA-6R8M</td>
<td>6.8 ±20</td>
<td>20</td>
<td>45</td>
<td>0.18</td>
<td>1.05</td>
<td>0.9</td>
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<tr>
<td>SRN3012TA-100M</td>
<td>10 ±20</td>
<td>20</td>
<td>40</td>
<td>0.245</td>
<td>0.89</td>
<td>0.76</td>
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<tr>
<td>SRN3012TA-150M</td>
<td>15 ±20</td>
<td>20</td>
<td>35</td>
<td>0.386</td>
<td>0.74</td>
<td>0.62</td>
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<tr>
<td>SRN3012TA-220M</td>
<td>22 ±20</td>
<td>22</td>
<td>25</td>
<td>0.58</td>
<td>0.61</td>
<td>0.49</td>
</tr>
</tbody>
</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 x 10^9 hours
- Mean Time Between Failures (MTBF): 40.4 x 10^6 hours

Materials
- Core: Ferrite
- Wire: Enamelled copper
- Terminal Finish: Magnetic epoxy resin
- Coating: Sn

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.

Users should verify actual device performance in their specific applications.

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SRN3012TA Series - Semi-shielded Power Inductors

Inductance vs. Current

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Packaging Specifications

QTY: 2000 PCS. PER REEL

REV. 06/22
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