Features
- Semi-shielded construction
- Inductance range: 0.47 to 22 µH
- Rated current up to 2.3 A
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

SRN2010TA 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 (Typ.) @ 1 MHz</th>
<th>SRF (MHz) Typ.</th>
<th>DCR (Ω) ±20 %</th>
<th>Irms (A) Max.</th>
<th>Isat (A) Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRN2010TA-R47Y</td>
<td>0.47 ±30</td>
<td>12</td>
<td>270</td>
<td>0.044</td>
<td>2.35</td>
<td>2.7</td>
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<td>SRN2010TA-R68Y</td>
<td>0.68 ±30</td>
<td>12</td>
<td>210</td>
<td>0.062</td>
<td>2.05</td>
<td>2</td>
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<tr>
<td>SRN2010TA-1R0Y</td>
<td>1.0 ±30</td>
<td>12</td>
<td>170</td>
<td>0.08</td>
<td>1.6</td>
<td>1.8</td>
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<tr>
<td>SRN2010TA-1R5Y</td>
<td>1.5 ±30</td>
<td>12</td>
<td>140</td>
<td>0.13</td>
<td>1.26</td>
<td>1.46</td>
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<tr>
<td>SRN2010TA-2R2M</td>
<td>2.2 ±20</td>
<td>14</td>
<td>100</td>
<td>0.145</td>
<td>1.2</td>
<td>1.26</td>
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<tr>
<td>SRN2010TA-3R3M</td>
<td>3.3 ±20</td>
<td>14</td>
<td>95</td>
<td>0.245</td>
<td>0.95</td>
<td>0.9</td>
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<td>SRN2010TA-4R7M</td>
<td>4.7 ±20</td>
<td>14</td>
<td>62</td>
<td>0.36</td>
<td>0.9</td>
<td>0.77</td>
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<td>SRN2010TA-6R8M</td>
<td>6.8 ±20</td>
<td>14</td>
<td>52</td>
<td>0.5</td>
<td>0.55</td>
<td>0.72</td>
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<tr>
<td>SRN2010TA-100M</td>
<td>10 ±20</td>
<td>16</td>
<td>43</td>
<td>0.72</td>
<td>0.45</td>
<td>0.55</td>
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<tr>
<td>SRN2010TA-150M</td>
<td>15 ±20</td>
<td>16</td>
<td>40</td>
<td>1.4</td>
<td>0.36</td>
<td>0.45</td>
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<tr>
<td>SRN2010TA-180M</td>
<td>18 ±20</td>
<td>16</td>
<td>35</td>
<td>1.8</td>
<td>0.34</td>
<td>0.4</td>
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<tr>
<td>SRN2010TA-220M</td>
<td>22 ±20</td>
<td>16</td>
<td>30</td>
<td>2</td>
<td>0.27</td>
<td>0.38</td>
</tr>
</tbody>
</table>

Soldering Profile

Preheating | Soldering | Natural Cooling

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

Storage Temperature
-40 °C to +125 °C

Temperature Rise
-40 °C at rated Irms

Maximum 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: Enameled copper
- Terminal Finish: Sn
- Coating: Magnetic epoxy resin
- Packaging: 2000 pcs. per 7-inch reel

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. 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
Inductance vs. Current

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Packaging Specifications

DIMENSIONS: MM (INCHES)

QTY: 2000 PCS. PER REEL

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