Features
- Semi-shielded construction
- Inductance range: 0.47 to 22 µH
- Rated current up to 2.3 A
- AEC-Q200 compliant
- 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.)</th>
<th>SRF (MHz)</th>
<th>DCR (@1 MHz)</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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<tr>
<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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<tr>
<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>
</tr>
<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>
</tr>
<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>

General Specifications

Operating Temperature
-55 °C to +125 °C (Temperature rise included)

Storage Temperature
-55 °C to +125 °C

Failure In Time (FIT) 24.7/10^9 hours

Mean Time Between Failures (MTBF) 40.4 x 10^6 hours

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

Recommended Layout

This series is currently available but not recommended for new designs. Contact Bourns for alternative product information.

*Soldering Profile

Preheating Soldering Natural Cooling

Time (Seconds)

Preheating Tp (260 °C, 10 Sec. Max.)

Soldering Tp (245 °C, 20~40 Sec.)

Cooling 0.6 (0.024) Ref. 60~180 Sec. 1.00 (0.39) Max. 0.8 (0.031) Ref. 60~150 Sec. 0.6 (0.024) Ref. 480 Sec. Max.

Electrical Schematic

How to Order
SRN2010TA - R68Y

Model Value Code (see table)

Recommended Layout

Dimensions: MM (INCHES)
SRN2010TA Series - Semi-shielded Power Inductors

Inductance vs. Current

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

QTY: 2000 PCS. PER REEL

REV. 06/22
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