Features

- Shielded construction
- Inductance range: 3.5 to 100 µH
- Rated current up to 5 A
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

SRU8045A Series - Shielded Power Inductors

**Note: Some of the features mentioned in the text do not appear in the main body of the document.**

Electrical Specifications @ 25 °C

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Inductance @ 100 kHz / 0.1 V</th>
<th>Q (Ref.)</th>
<th>Test Freq. (MHz)</th>
<th>SRF (MHz) Typ.</th>
<th>DCR (Ω)</th>
<th>I rms (A)</th>
<th>I sat (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRU8045A-3R5Y</td>
<td>3.5 ± 30</td>
<td>12</td>
<td>7.96</td>
<td>45</td>
<td>0.0188</td>
<td>0.025</td>
<td>5.00</td>
</tr>
<tr>
<td>SRU8045A-4R7Y</td>
<td>4.7 ± 30</td>
<td>10</td>
<td>7.96</td>
<td>30</td>
<td>0.022</td>
<td>0.0275</td>
<td>4.60</td>
</tr>
<tr>
<td>SRU8045A-6R2Y</td>
<td>6.2 ± 30</td>
<td>10</td>
<td>7.96</td>
<td>23</td>
<td>0.0285</td>
<td>0.036</td>
<td>4.20</td>
</tr>
<tr>
<td>SRU8045A-100Y</td>
<td>10 ± 30</td>
<td>16</td>
<td>2.52</td>
<td>18</td>
<td>0.035</td>
<td>0.048</td>
<td>3.50</td>
</tr>
<tr>
<td>SRU8045A-220Y</td>
<td>22 ± 30</td>
<td>18</td>
<td>2.52</td>
<td>12</td>
<td>0.094</td>
<td>0.122</td>
<td>2.25</td>
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<tr>
<td>SRU8045A-330Y</td>
<td>33 ± 30</td>
<td>14</td>
<td>2.52</td>
<td>8</td>
<td>0.118</td>
<td>0.15</td>
<td>2.00</td>
</tr>
<tr>
<td>SRU8045A-470Y</td>
<td>47 ± 30</td>
<td>12</td>
<td>2.52</td>
<td>6</td>
<td>0.215</td>
<td>0.27</td>
<td>1.45</td>
</tr>
<tr>
<td>SRU8045A-680Y</td>
<td>68 ± 30</td>
<td>8</td>
<td>2.52</td>
<td>4</td>
<td>0.32</td>
<td>0.40</td>
<td>1.25</td>
</tr>
<tr>
<td>SRU8045A-101Y</td>
<td>100 ± 30</td>
<td>20</td>
<td>0.796</td>
<td>3</td>
<td>0.40</td>
<td>0.50</td>
<td>1.00</td>
</tr>
</tbody>
</table>

**Soldering Profile**

- Peak Temperature: 250 °C max.
- Max. Peak Temperature -5 °C; 30 sec. max.
- Max. Time Above 217 °C: 60~150 sec. max.

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
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