Features
- Shielded construction
- Inductance range: 10 to 33 µH
- Heating current up to 0.7 A
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

SRU3028A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Inductance @ 100 KHz / 0.1 V L (µH)</th>
<th>Q (Ref.)</th>
<th>Test Freq. (MHz)</th>
<th>SRF (MHz) Typ.</th>
<th>DCR (Ω) Max.</th>
<th>I rms (A)</th>
<th>I sat (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRU3028A-100Y</td>
<td>10 ±30</td>
<td>20</td>
<td>2.52</td>
<td>35</td>
<td>0.20</td>
<td>0.72</td>
<td>0.86</td>
</tr>
<tr>
<td>SRU3028A-150Y</td>
<td>15 ±30</td>
<td>18</td>
<td>2.52</td>
<td>25</td>
<td>0.29</td>
<td>0.66</td>
<td>0.72</td>
</tr>
<tr>
<td>SRU3028A-220Y</td>
<td>22 ±30</td>
<td>18</td>
<td>2.52</td>
<td>15</td>
<td>0.335</td>
<td>0.60</td>
<td>0.62</td>
</tr>
<tr>
<td>SRU3028A-330Y</td>
<td>33 ±30</td>
<td>20</td>
<td>2.52</td>
<td>10</td>
<td>0.56</td>
<td>0.47</td>
<td>0.48</td>
</tr>
</tbody>
</table>

General Specifications
- Operating Temperature: -40 °C to +125 °C
- Storage Temperature: -40 °C to +125 °C
- Temperature Rise: 40 °C typ. at rated I rms
- Inductance Drop: 35% typ. at I sat

Materials
- Core: Ferrite
- Wire: Enameled copper
- Terminal Finish: Ag/Ni/Sn
- Packaging: 600 pcs. per reel

How to Order
- Model: SRU3028A - 100Y
- Value Code (see table)

Recommended Layout

Inductor Connection

Electrical Schematic

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
**SRU3028A Series - Shielded Power Inductors**

**Soldering Profile**

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

**Inductance vs. DC Current Plot**

![Inductance vs. DC Current Plot](image)

**Packaging Specifications**

![Packaging Specifications](image)

QTY: 600 PCS. PER REEL

**Dimensions:**

- 17.8 (0.709) DIA.
- 2.9 ± 0.5 (0.079 ±.020) DIA.
- 16.5 (0.650) DIA.
- 13.0 (0.512) DIA.
- 14.0 (0.551 ±.020)
- 4 (0.157)
- Thickness: 0.10 (0.004) MAX
- Embossed Cavity
- Embossed Carrier
- 12 (0.472)
- 8 (0.315)
- 4 (1.57)

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