Features

- Shielded construction
- Inductance range: 1.2 to 100 µH
- Heating current up to 3.5 A
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

SRU5028A Series - Shielded Power Inductors

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) Max.</th>
<th>I rms (A)</th>
<th>I sat (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRU5028A-1R2Y</td>
<td>1.2 ±30</td>
<td>10</td>
<td>7.96</td>
<td>200</td>
<td>0.022</td>
<td>3.5</td>
<td>3.4</td>
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<td>SRU5028A-2R2Y</td>
<td>2.2 ±30</td>
<td>10</td>
<td>7.96</td>
<td>130</td>
<td>0.027</td>
<td>3.2</td>
<td>2.5</td>
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<tr>
<td>SRU5028A-3R3Y</td>
<td>3.3 ±30</td>
<td>10</td>
<td>7.96</td>
<td>90</td>
<td>0.032</td>
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<td>2.1</td>
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<td>SRU5028A-4R7Y</td>
<td>4.7 ±30</td>
<td>9</td>
<td>7.96</td>
<td>50</td>
<td>0.045</td>
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<td>SRU5028A-6R8Y</td>
<td>6.8 ±30</td>
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<td>7.96</td>
<td>45</td>
<td>0.056</td>
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<tr>
<td>SRU5028A-100Y</td>
<td>10 ±30</td>
<td>18</td>
<td>2.52</td>
<td>25</td>
<td>0.085</td>
<td>1.8</td>
<td>1.4</td>
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<td>SRU5028A-150Y</td>
<td>15 ±30</td>
<td>18</td>
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<td>23</td>
<td>0.14</td>
<td>1.1</td>
<td>1.0</td>
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<tr>
<td>SRU5028A-220Y</td>
<td>22 ±30</td>
<td>15</td>
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<td>18</td>
<td>0.21</td>
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<td>SRU5028A-330Y</td>
<td>33 ±30</td>
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<td>SRU5028A-470Y</td>
<td>47 ±30</td>
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<td>SRU5028A-680Y</td>
<td>68 ±30</td>
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<tr>
<td>SRU5028A-101Y</td>
<td>100 ±30</td>
<td>15</td>
<td>0.796</td>
<td>8</td>
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<td>0.47</td>
<td>0.42</td>
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</tbody>
</table>

General Specifications

Operating Temperature
-40 °C to +125 °C (Temperature rise included)
Storage Temperature
-40 °C to +125 °C
Resistance to Soldering Heat
+250 °C for 10 sec.
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 7 ” reel

Product Dimensions

How to Order

SRU5028A - 100Y

Model
Value Code (see table)

Electrical Schematic

Inductor Connection

NOW SHIPPING 4-CONDUCTORS

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.
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SRU5028A Series - Shielded Power Inductors

Soldering Profile

Inductance vs. DC Current Plot

Packaging Specifications

REV. 08/16
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