Features

- Shielded construction
- Inductance range: 1.5 to 330 µH
- Heating current up to 7.2 A
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

SRU1038A Series - Shielded Power Inductors

### Electrical Specifications @ 25 °C

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Inductance @ 100 KHz / 1 V L (µH)</th>
<th>Q (Ref.)</th>
<th>Test Freq. (MHz)</th>
<th>SRF (MHz) Typ.</th>
<th>DCR (mΩ) Max.</th>
<th>I rms (A)</th>
<th>I sat (A)</th>
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<tr>
<td>SRU1038A-1R5Y</td>
<td>1.5 ±30 14</td>
<td>7.96</td>
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<td>7.2</td>
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<td>10.5</td>
<td>6.8</td>
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</table>

### How to Order

Model: SRU1038A - 100Y

Value Code (see table)

### General Specifications

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

**Storage Temperature**
- -40 °C to +125 °C

**Resistance to Soldering Heat**
- +245 °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: 800 pcs. per reel

### Product Dimensions

- 10.0 ±0.3 (394 ±0.12)
- 3.8 ±0.3 (150 ±0.12)
- 7.4 (291) TYP.
- 3.4 (134) TYP.
- 3.2 (136) TYP.
- 3.4 (134) TYP.

**Recommended Layout**

**WARNING** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://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.

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SRU1038A Series - Shielded Power Inductors

Soldering Profile

Peak Temperature: 245 °C max.
Max. Peak Temperature -5 °C: 30 sec. max.
Max. Time Above 217 °C: 60–150 sec. max.

Inductance vs. DC Current Plot

Packaging Specifications

QTY: 800 PCS. PER REEL

Dimensions: MM (INCHES)

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