Features
- Shielded construction
- Metal alloy powder core
- High saturation current
- Inductance range 1 to 100 µH
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

Electrical Specifications @ 25 °C

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Inductance L (µH)</th>
<th>Q (Min.) @ 100 kHz / 1 V</th>
<th>SRF (MHz) Typ.</th>
<th>DCR (mΩ) Typ.</th>
<th>DCR (mΩ) Max.</th>
<th>Irms (A) Typ.</th>
<th>Isat (A) Typ.</th>
<th>Terminal Type</th>
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<td>SRP2313AA-1R0M</td>
<td>1.0</td>
<td>20</td>
<td>60</td>
<td>23</td>
<td>0.8</td>
<td>0.95</td>
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</table>

How to Order
- Model: SRP2313AA - 100M
- Value Code (see table)

Recommended Layout

Materials
- Core: Metal alloy powder
- Wire: Enamelled copper
- Terminal Finish: Sn
- Packaging: 80 pcs. per 13-inch reel

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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SRP2313AA Series - Shielded Power Inductors

L vs. I Charts

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SRP2313AA Series - Shielded Power Inductors

Soldering Profile

Profile Feature | Pb Free Assembly
--- | ---
Preheat - Temperature Min. (T\text{min}) | 150 °C
- Temperature Max. (T\text{max}) | 200 °C
- Time(t\text{p}) from T\text{min} to T\text{max} | 60-120 seconds
Ramp-up Rate (T\text{L} to T\text{p}) | 3 °C/second max.
Liquidous temperature (T\text{L}) | 217 °C
Time (t\text{L}) maintained above T\text{L} | 60-150 seconds
Peak package body temperature (T\text{p}) | 245 °C
Time within 5 °C of Actual Peak Temperature (t\text{p}) | 20-30 seconds
Ramp-Down Rate (T\text{p} to T\text{L}) | 6 °C/second max.
Time 25 °C to Peak Temperature | 8 minutes max.

Packaging Specifications

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