Features

- Shielded construction
- Metal alloy powder core
- High saturation current
- Low buzz noise
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

Electrical Specifications @ 25 °C

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Inductance @ 100 KHz / 1 V</th>
<th>Q (Typ.) @ 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>
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</table>

Operating Temperature

-55 °C to +155 °C

Storage Temperature (Component)

-55 °C to +155 °C (Temperature rise included)

General Specifications

- Rated Current: Inductance drops 30% at Isat
- Temperature Rise: 40 °C at rated Irms
- Moisture Sensitivity Level: 1
- ESD Classification (HBM): N/A

Materials

Core: Metal alloy powder
Wire: Enamelled copper
Terminal Finish: Sn

Recommended Layout

Please consult Bourns® Model SRP-A Series Visual Inspection Guide for detailed construction, processing and testing information.

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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.
SRP7028AA Series - Shielded Power Inductors

L vs. I Charts

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L vs. I Charts

Soldering Profile

How to Order

SRP7028AA - 1R0M

Value Code (see table)

Electrical Schematic
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