Features

- Shielded construction for low radiation
- Metal alloy powder core for high saturation current
- Wide side terminal for enhanced mechanical strength
- High vibration resistance (15 G typical, 30 G peak)
- High operating temperature
- Low buzz noise
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRP1050WA Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

<table>
<thead>
<tr>
<th>Bourns Part No.</th>
<th>Inductance @ 100 kHz / 1 V</th>
<th>Q Typ. @ 100 kHz</th>
<th>SRF (MHz) Typ.</th>
<th>DCR (mΩ) Typ.</th>
<th>DCR (mΩ) Max.</th>
<th>Ims (A) Typ.</th>
<th>Isat (A) Typ.</th>
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<tr>
<td>SRP1050WA-1R0M</td>
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Soldering Profile

![Soldering Profile Diagram]

**HALOGEN FREE & AEC-Q200 COMPLIANT

Features continued...

- High operating temperature
- Low buzz noise
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

General Specifications

Operating Temperature

-55 °C to +165 °C (Temperature rise included)

Storage Temperature (Component)

-55 °C to +165 °C

Temperature Rise .... 40 °C at rated Ims

Rated Current

Inductance drops 30 % at Isat

Moisture Sensitivity Level............... 1

ESD Classification (HBM)............... N/A

- Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Materials

Core................... Metal alloy powder

Wire .................. Enameled copper

Terminal Finish ....................... Sn

Packaging........ 500 pcs. per 13-inch reel

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- INVENTORY
- SAMPLES
- CONTACT

Additional Information

- **RoHS COMPLIANT, and Chlorine (Cl) content is 1500 ppm or less.
- 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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SRP1050WA Series - Shielded Power Inductors

Electrical Schematic

How to Order

SRP1050WA - 1R0M

Model
Value Code (see table)

Recommended Layout

Product Dimensions

L vs. I Charts

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