Features
- Shielded construction
- Metal alloy powder core
- High saturation current
- Low buzz noise
- Inductance range 0.1 to 10 µH
- RoHS compliant* and halogen free**

SRP3020C Series – Shielded Power Inductors

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

Storage Temperature (Component)
-40 °C to +125 °C

Rated Current
- Inductance drops 30% at Isat
- Temperature Rise ... 40 °C at rated Irms

MSL
- 1

ESD Classification (HBM)
- N/A

Note 1: Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all can affect the part temperature. Part temperature should be verified in the end application.

Materials
- Core.................Metal alloy powder
- Wire.................Enamelled copper
- Terminal Finish .........Sn
- Packaging....3000 pcs. per 13-inch reel

How to Order
SRP3020C – 100M

Model
SRP3020C - 100M

Value Code (see table)

Schematic

Recommended Layout

Typical Part Marking

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. Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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Soldering Profile

**SRP3020C Series – Shielded Power Inductors**

**L vs. I Charts**

![Graph showing temperature vs. time for different soldering profiles](image)

REFLOW TIMES: 3 MAX.

**Specifications**

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## SRP3020C Series – Shielded Power Inductors

### L vs. I Charts (Continued)

**SRP3020C-4R7M**

- **Inductance (μH)** vs. **DC Current (A)**
- **Temperature Rise (°C)**

**SRP3020C-5R6M**

- **Inductance (μH)** vs. **DC Current (A)**
- **Temperature Rise (°C)**

**SRP3020C-6R8M**

- **Inductance (μH)** vs. **DC Current (A)**
- **Temperature Rise (°C)**

**SRP3020C-8R2M**

- **Inductance (μH)** vs. **DC Current (A)**
- **Temperature Rise (°C)**

**SRP3020C-100M**

- **Inductance (μH)** vs. **DC Current (A)**
- **Temperature Rise (°C)**

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