



Features

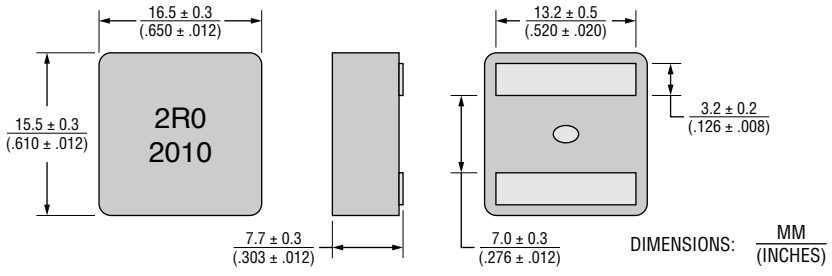
- Shielded construction
- Metal alloy powder core
- High saturation current
- Low buzz noise
- Flat wire
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRP1580CA Series - Shielded Power Inductors

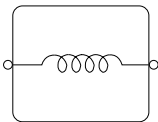
Electrical Specifications @ 25 °C

| Bourns Part Number | Inductance @ 100 KHz / 0.1 V | | Q Typ. @ 100 kHz / 0.1 V | SRF (MHz) Typ. | DCR (mΩ) Typ. | DCR (mΩ) Max. | Irms (A) Typ. | | Isat (A) Typ. |
|--------------------|------------------------------|----------|--------------------------|----------------|---------------|---------------|------------------|------------------|---------------|
| | L (μH) | Tol. (%) | | | | | 20 °C Temp. Rise | 40 °C Temp. Rise | |
| SRP1580CA-1R0M | 1.0 | 20 | 30 | 28 | 1.0 | 1.15 | 41 | 58 | 80 |
| SRP1580CA-2R0M | 2.0 | 20 | 30 | 18 | 1.92 | 2.21 | 29.5 | 40 | 57 |
| SRP1580CA-5R3M | 5.3 | 20 | 30 | 12 | 4.45 | 5.34 | 19.5 | 26 | 35 |

Product Dimensions



Electrical Schematic

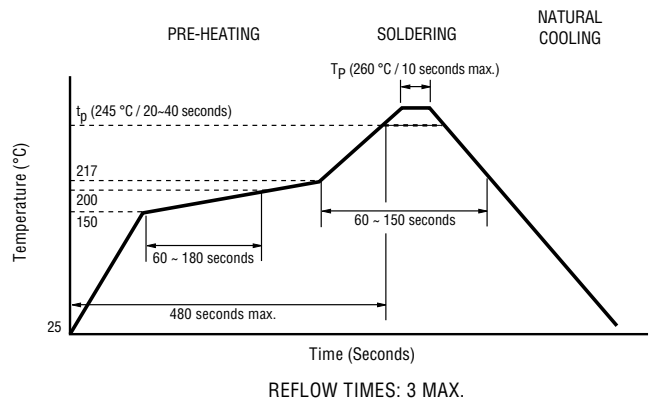


How to Order

SRP1580CA - 1R0M

Model _____
 Value Code (see table) _____

Soldering Profile



Additional Information

Click these links for more information:

[PRODUCT](#)
[TECHNICAL LIBRARY](#)
[INVENTORY](#)
[SAMPLES](#)
[CONTACT](#)

General Specifications

- Operating Temperature-55 °C to +155 °C (Temperature rise included)
- Storage Temperature (Component)-55 °C to +155 °C
- Rated Current Inductance drops 30 % at Isat
- Temperature Rise 20 or 40 °C at rated Irms¹
- Rated Voltage40 V Typ.
- Moisture Sensitivity Level 1
- ESD Classification (HBM)..... N/A

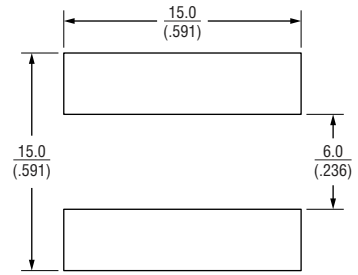
¹ Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Materials

- Core Metal alloy powder
- Wire Enameled copper
- Terminal Finish Sn
- Packaging 200 pcs. per 13-inch reel

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

Recommended Layout

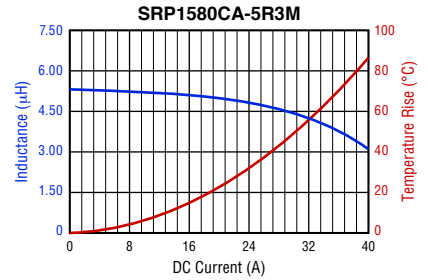
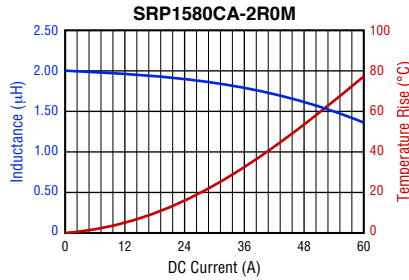
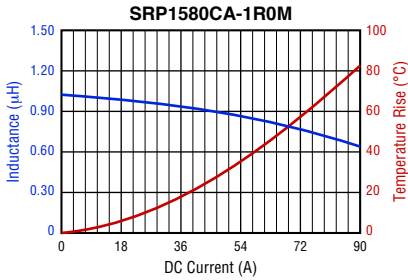


* RoHS Directive 2015/863, Mar 31, 2015 and Annex.
 ** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.
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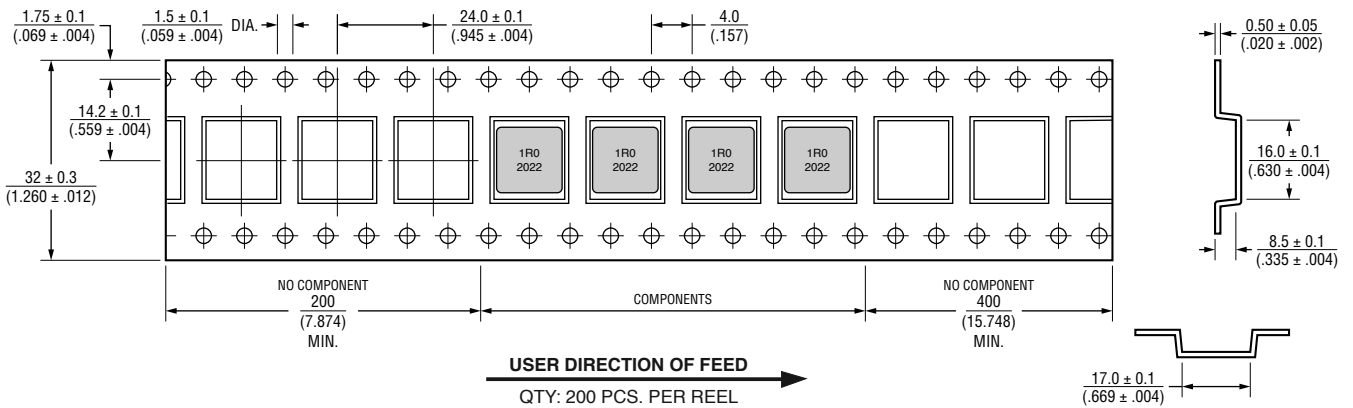
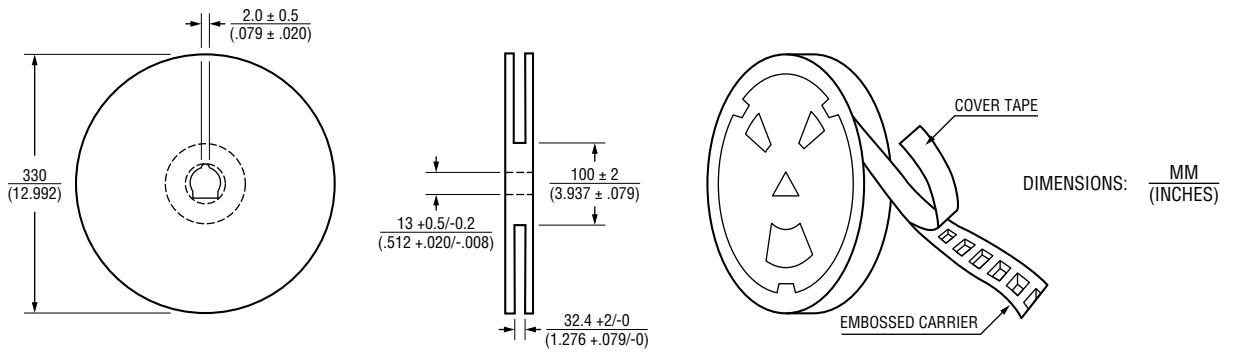
SRP1580CA Series - Shielded Power Inductors



L vs. I Charts



Packaging Specifications



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www.bourns.com

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