



Features

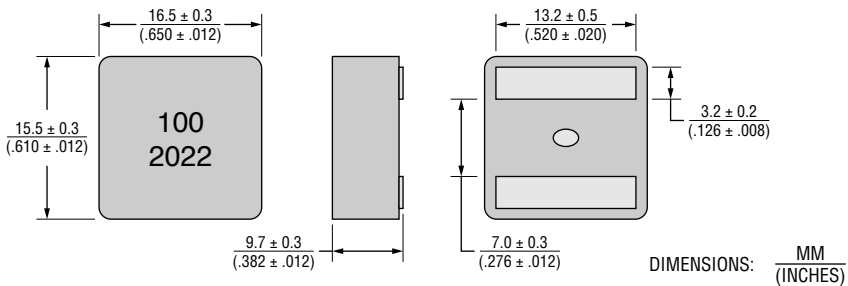
- Shielded construction
- Metal alloy powder core
- High saturation current
- Low buzz noise
- Flat wire
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRP1510CA Series - Shielded Power Inductors

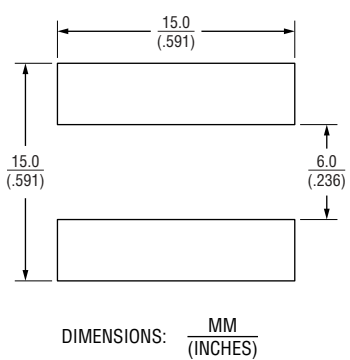
Electrical Specifications @ 25 °C

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.	I _{rms} (A) Typ.		Isat (A) Typ.
	L (μH)	Tol. (%)					20 °C Temp. Rise	40 °C Temp. Rise	
SRP1510CA-4R7M	4.7	20	30	13	3.4	3.8	22	30	43
SRP1510CA-5R6M	5.6	20	30	11	3.82	4.2	21	28	38
SRP1510CA-6R8M	6.8	20	30	10	4.18	4.6	20	26	36
SRP1510CA-8R2M	8.2	20	30	9	6.0	7.2	19	25	32
SRP1510CA-100M	10	20	30	8	7.1	8.6	18	24	29
SRP1510CA-150M	15	20	30	6	9.2	11.5	14	18	23
SRP1510CA-220M	22	20	30	5	13.2	15.8	11	16	20
SRP1510CA-330M	33	20	30	4	18.7	20	9	13	18.7

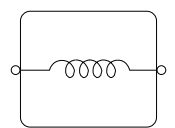
Product Dimensions



Recommended Layout



Electrical Schematic



How to Order

SRP1510CA - 1R0M

Model _____

Value Code (see table) _____

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 I_{rms}¹
- 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
- WireEnameled copper
- Terminal FinishSn
- Packaging 150 pcs. per 13-inch reel

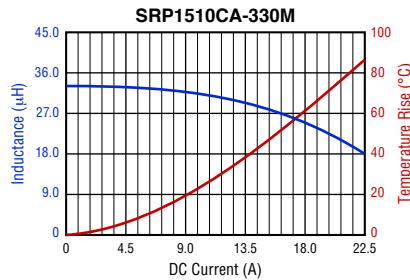
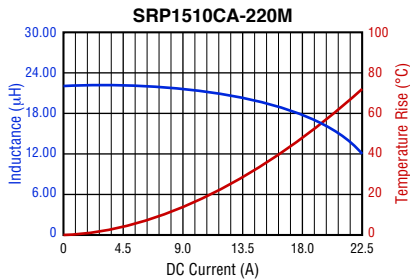
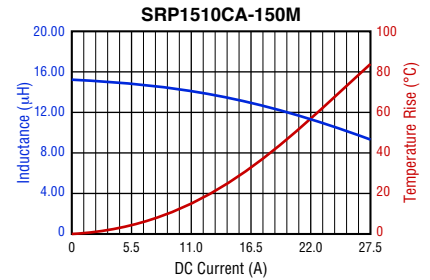
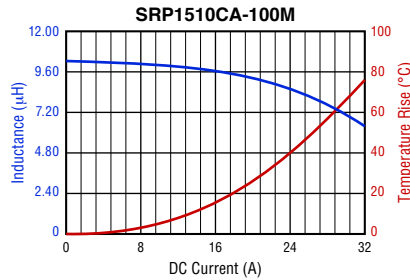
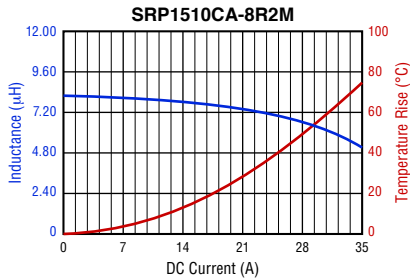
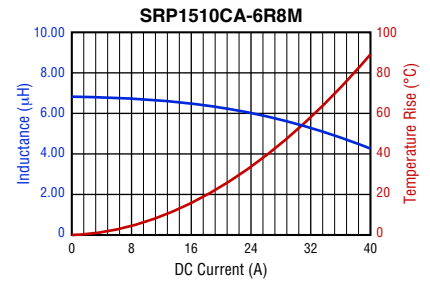
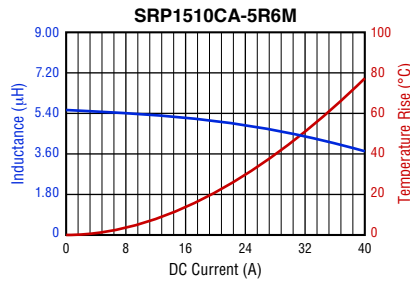
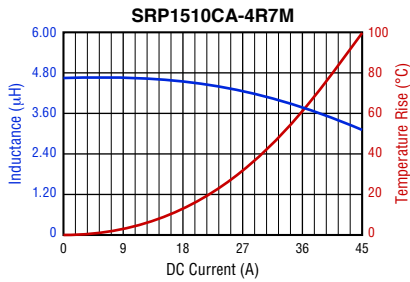
Please consult [Bourns® Model SRP-A Series Visual Inspection Guide](#) for detailed construction, processing and testing information.

* 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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 Users should verify actual device performance in their specific applications.
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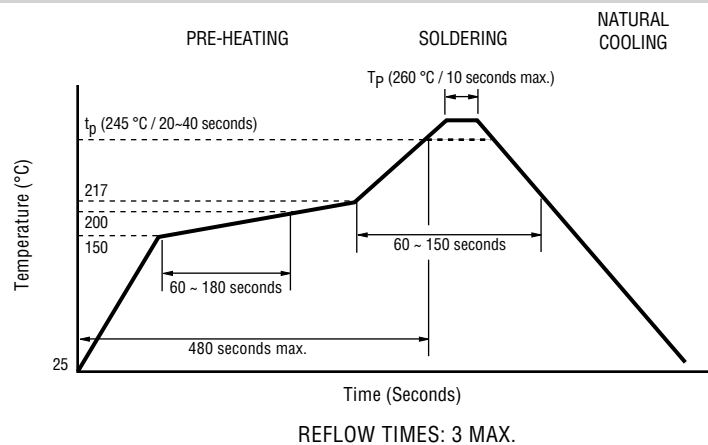
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L vs. I Charts



Soldering Profile



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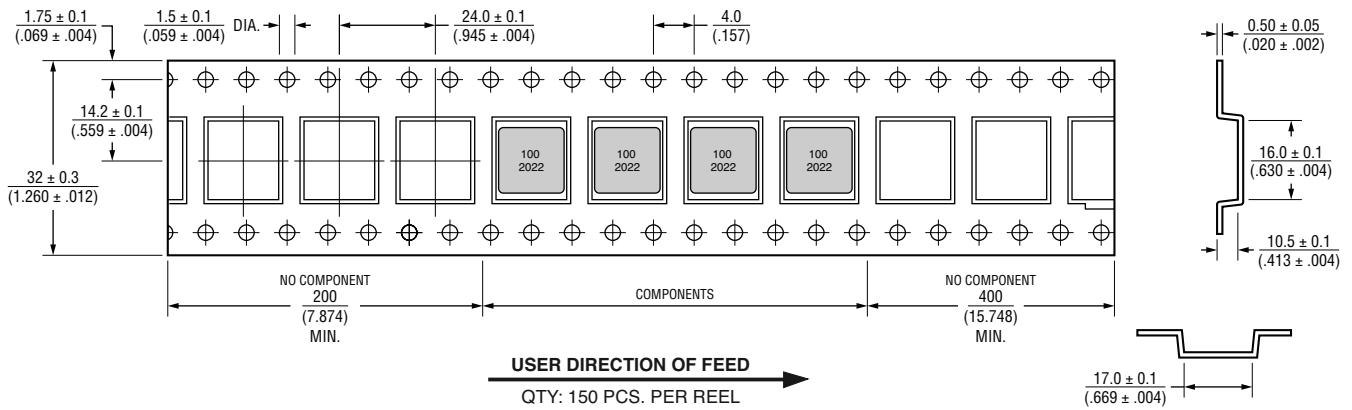
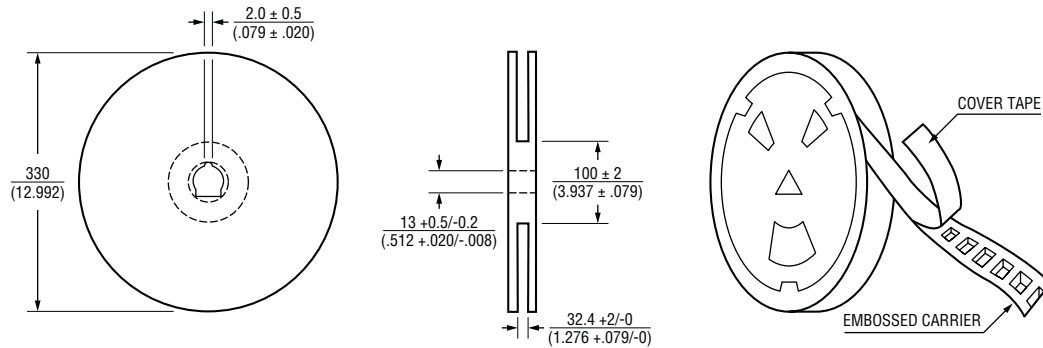
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SRP1510CA Series - Shielded Power Inductors

BOURNS®

Packaging Specifications



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

BOURNS®

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