

### **Features**

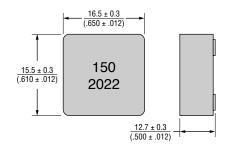
- Shielded construction
- Metal alloy powder core
- High saturation current
- Low buzz noise
- Flat wire
- AEC-Q200 compliant
- RoHS compliant\* and halogen free\*\*

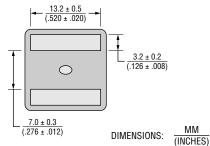
## SRP1513CA Series - Shielded Power Inductors

### Electrical Specifications @ 25 °C

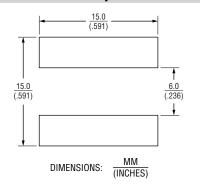
Bourns Part Number	Inductance @ 100 KHz / 0.1 V		Q Typ. @	SRF (MHz)	DCR (mΩ)	DCR (mΩ)	Irms (A) Typ.		Isat (A)
	L (μH)	Tol. (%)	100 kHz / 0.1 V	`Typ.´	Typ.	Max.	20 °C Temp. Rise	40 °C Temp. Rise	Тур.
SRP1513CA-4R7M	4.7	20	40	13	3.0	3.3	23	31	44
SRP1513CA-5R6M	5.6	20	40	11	3.5	3.9	22	29	40
SRP1513CA-6R8M	6.8	20	40	10	3.8	4.2	21	27	37
SRP1513CA-8R2M	8.2	20	40	9	5.1	5.74	20	26	33
SRP1513CA-100M	10	20	40	8	6.3	7	19	25	30
SRP1513CA-150M	15	20	40	7	6.8	7.5	16	22	25.5
SRP1513CA-220M	22	20	40	6	12.6	13.86	12	17	22
SRP1513CA-330M	33	20	40	5	18.5	22.2	9	14	19

### **Product Dimensions**





## **Recommended Layout**



#### **Electrical Schematic**



### **How to Order**

Value Code (see table)

Model

SRP1513CA - 100M

### **Additional Information**

Click these links for more information:











TECHNICAL INVENTORY SAMPLES

### **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 Voltage ......40 V Typ. Moisture Sensitivity Level.....1 ESD Classification (HBM).....N/A

<sup>1</sup> 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...... 100 pcs. per 13-inch reel

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

Specifications are subject to change without notice.

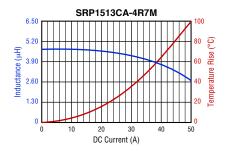
RoHS Directive 2015/863, Mar 31, 2015 and Annex.

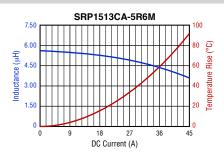
Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (CI) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (CI) content is 1500 ppm or less.

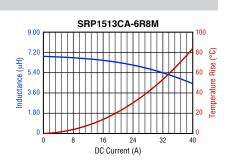
# **SRP1513CA Series - Shielded Power Inductors**

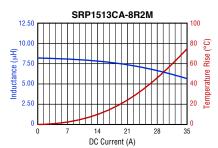
## BOURNS

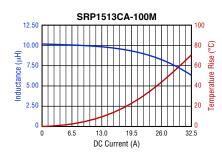


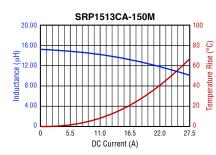


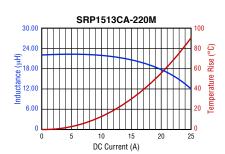


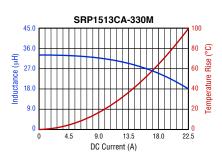




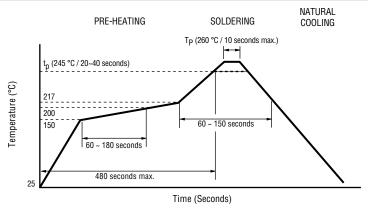






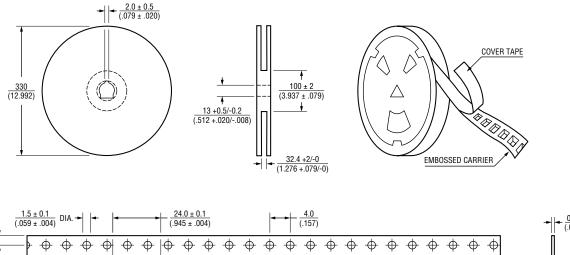


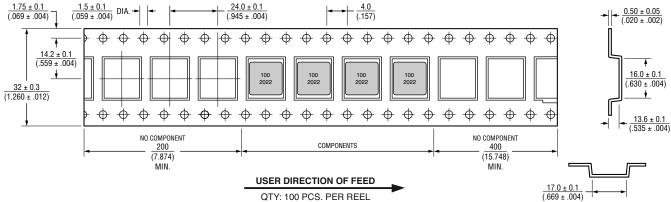
## **Soldering Profile**



REFLOW TIMES: 3 MAX.

### **Packaging Specifications**





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

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