

Features

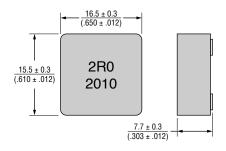
- Shielded construction
- Metal alloy powder core
- High saturation current
- Low buzz noise
- Flat wire
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

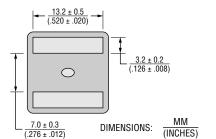
SRP1580CA Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

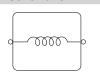
Bourns Part Number	Inductance @ 100 KHz / 0.1 V		Q Typ. @	SRF (MHz)	DCR (mΩ)	DCR (mΩ)	Irms (A) Typ.		Isat (A)
	L (μH)	Tol. (%)	100 kHz / 0.1 V	`Typ.´	Тур.	Max.	20 °C Temp. Rise	40 °C Temp. Rise	Тур.
SRP1580CA-1R0M	1.0	20	30	28	1.0	1.15	41	58	80
SRP1580CA-2R0M	2.0	20	30	18	1.92	2.21	29.5	40	57
SRP1580CA-5R3M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

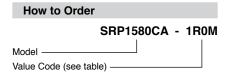
Product Dimensions



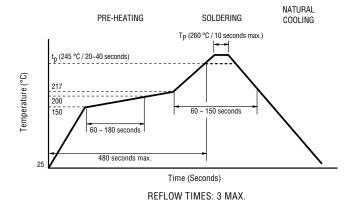


Electrical Schematic





Soldering Profile



Additional Information

Click these links for more information:











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 Voltage40 V Typ. Moisture Sensitivity Level.....1

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.

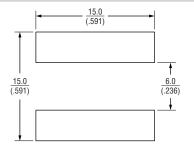
ESD Classification (HBM).....N/A

Materials

Core.....Metal alloy powder WireEnameled copper Terminal FinishSn 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



Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

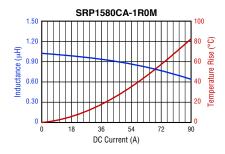
RoHS Directive 2015/863, Mar 31, 2015 and Annex.

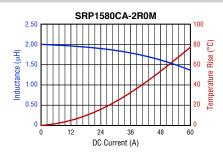
Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

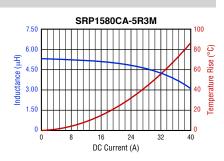
SRP1580CA Series - Shielded Power Inductors

BOURNS

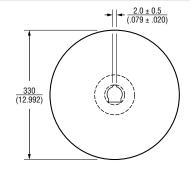
L vs. I Charts

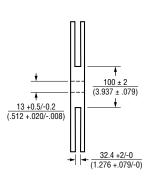


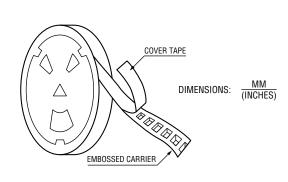


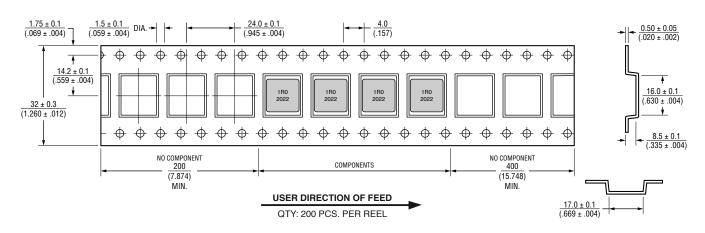


Packaging Specifications









BOURNS®

Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com

EMEA: Tel: +36 88 885 877 • Email: eurocus@bourns.com

The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com

www.bourns.com

03/21

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