

Features

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

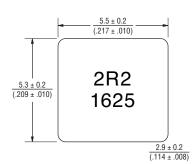
BOURNS

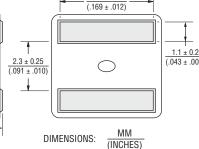
SRP5030CA Series – Shielded Power Inductors

Electrical Specifications @ 25 °C

	Inductance @ 100 kHz / 0.1 V		SRF	DCR	DCR	l rms (A) Typ.		Isat
Bourns Part Number	L (µH)	Tol. %	(MHz) Typ.	(mΩ) Typ.	(mΩ) Max.	20 °C Temp. Rise	40 °C Temp. Rise	(A) Typ.
SRP5030CA-R15M	0.15	± 20 %	140	2.10	2.31	14.3	22.2	36
SRP5030CA-R16M	0.16	± 20 %	140	2.12	2.33	14.2	22.2	35
SRP5030CA-R33M	0.33	± 20 %	110	3.20	3.52	13.8	19.2	28
SRP5030CA-R56M	0.56	± 20 %	73	4.05	4.52	13.6	17.7	22.2
SRP5030CA-R60M	0.60	± 20 %	68	4.11	4.52	13.6	17.7	22
SRP5030CA-R80M	0.80	± 20 %	57	5.14	5.65	10.1	13.1	20
SRP5030CA-R82M	0.82	± 20 %	54	5.25	5.78	9.9	12.9	19.7
SRP5030CA-1R0M	1.0	± 20 %	50	6.90	7.60	9.0	12.2	16.5
SRP5030CA-1R2M	1.2	± 20 %	43	8.80	9.70	8.5	11.0	15
SRP5030CA-1R5M	1.5	± 20 %	38	10.1	11.2	8.0	10.5	14
SRP5030CA-1R8M	1.8	± 20 %	36	11.5	12.7	7.6	10.1	12.3
SRP5030CA-2R2M	2.2	± 20 %	33	13.2	14.5	7.2	9.7	10
SRP5030CA-3R3M	3.3	± 20 %	25	21.0	23.1	5.9	8.1	9.5
SRP5030CA-3R6M	3.6	± 20 %	23	25.0	27.5	4.6	6.5	9
SRP5030CA-4R7M	4.7	± 20 %	21	33.0	36.3	4.3	5.9	8.2

Product Dimensions





4.3 ± 0.3

How to Order Model -Value Code (see table)





* 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. 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.

 $(.043 \pm .008)$ MM DIMENSIONS: (INCHES)



Asia-Pacific: Tel: +886-2 2562-4117 Email: asiacus@bourns.com Europe: Tel: +36 88 885 877 Email: eurocus@bourns.com The Americas: Tel: +1-951 781-5500 Email: americus@bourns.com

www.bourns.com

ESD Classification (HBM).....N/A Note 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 2000 pcs. per 13-inch reel **Recommended Layout**

General Specifications Operating Temperature

.....-55 °C to +155 °C

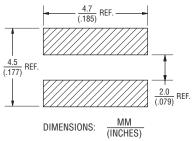
MSL 1

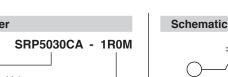
Storage Temperature (Component)-55 °C to +155 °C Rated Current Inductance drops

(Temperature rise included)

30 % at Isat

at rated Irms¹

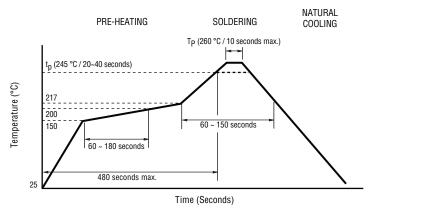




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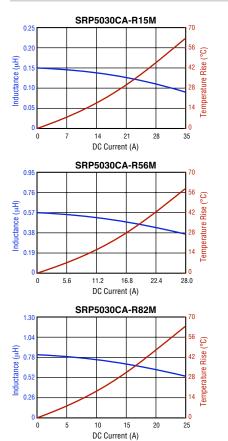
Soldering Profile

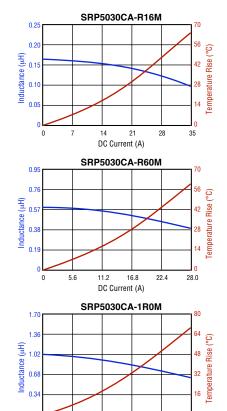


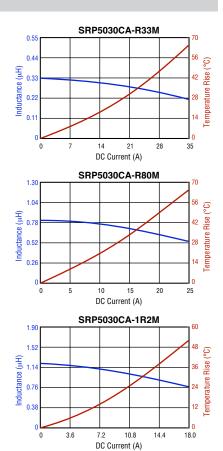
REFLOW TIMES: 3 MAX.

NOTE: 0.12 mm thick solder paste recommended.

L vs. I Charts







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DC Current (A)

13.2

17.6

22.0

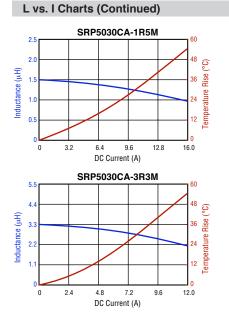
8.8

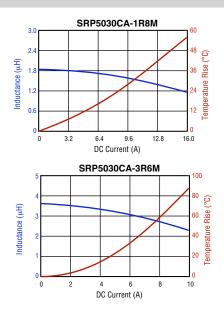
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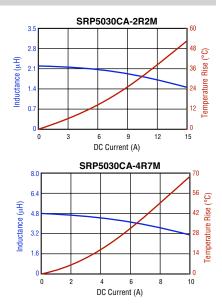
4.4

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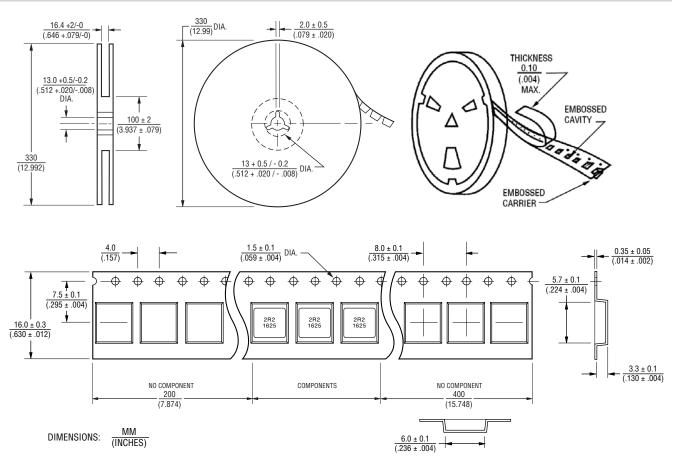
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Packaging Specifications



USER DIRECTION OF FEED QTY: 2,000 PCS PER REEL

REV. 04/20

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