

Features

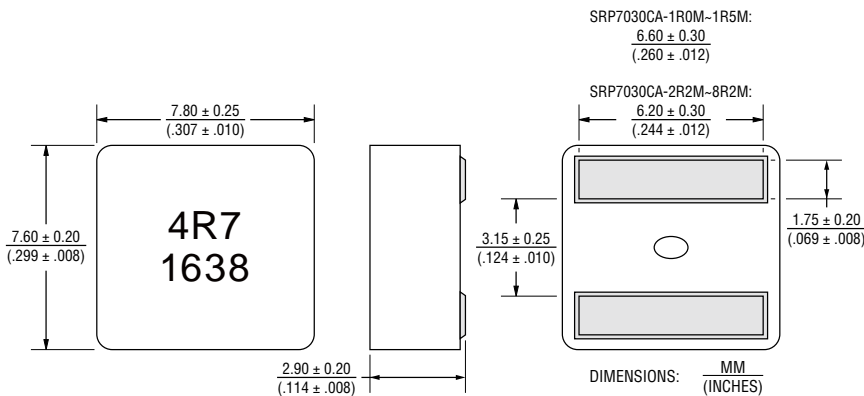
- Shielded construction
- Metal alloy powder core
- High saturation current
- Flat wire
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRP7030CA Series – Shielded Power Inductors

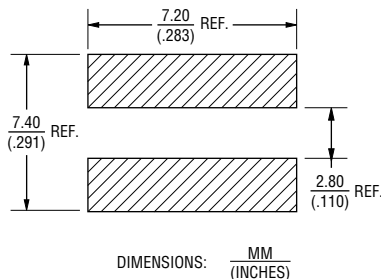
Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 kHz / 1 V		SRF (MHz) Typ.	DCR (mΩ) Typ.	DCR (mΩ) Max.	I rms (A) Typ.		I sat (A) Typ.
	L (μH)	Tol. %				20 °C Temp. Rise	40 °C Temp. Rise	
SRP7030CA-1R0M	1.0	± 20 %	35	4.55	5.00	16.1	21.8	30.0
SRP7030CA-1R5M	1.5	± 20 %	31	7.50	8.25	12.0	15.3	25.0
SRP7030CA-2R2M	2.2	± 20 %	38	12.40	13.70	10.0	13.0	19.0
SRP7030CA-3R3M	3.3	± 20 %	22	16.30	18.00	8.0	10.0	15.0
SRP7030CA-4R7M	4.7	± 20 %	18	24.20	26.70	6.9	9.0	13.5
SRP7030CA-5R6M	5.6	± 20 %	16	30.10	33.20	5.3	7.3	12.5
SRP7030CA-6R8M	6.8	± 20 %	14	38.60	42.50	4.5	6.8	12.0
SRP7030CA-8R2M	8.2	± 20 %	12	44.30	48.73	3.0	5.9	10.2

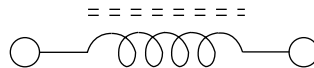
Product Dimensions



Recommended Layout



Schematic



How to Order

SRP7030CA - 1R5M

Model _____
Value Code (see table) _____

Additional Information

Click these links for more information:



[PRODUCT SELECTOR](#) [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 Irms ¹
MSL	1
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
Wire	Enameled copper
Terminal Finish	Sn
Packaging	1500 pcs. per 13-inch reel



WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

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

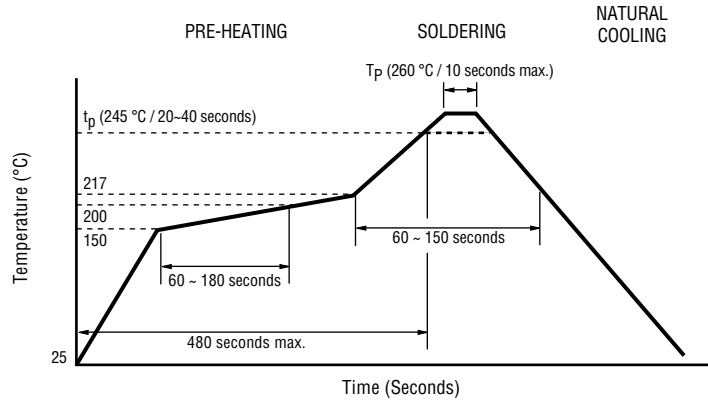
** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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.

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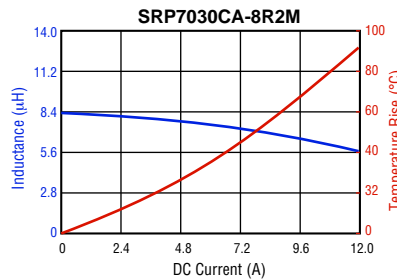
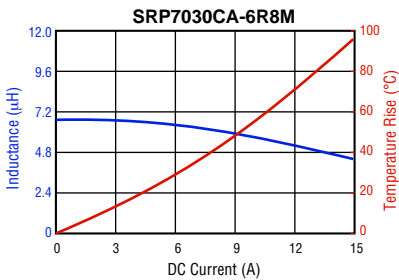
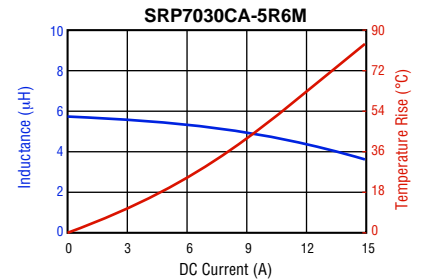
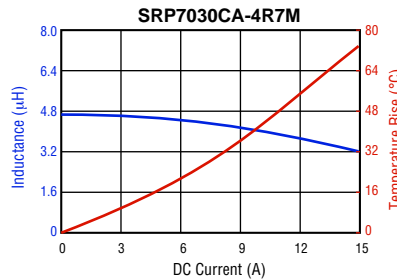
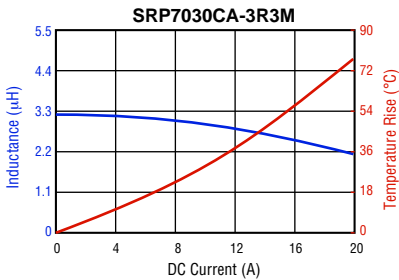
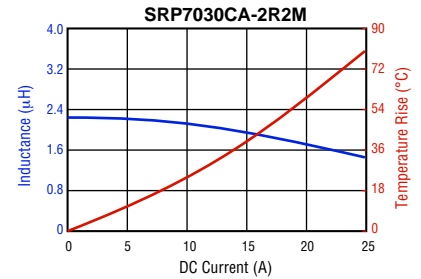
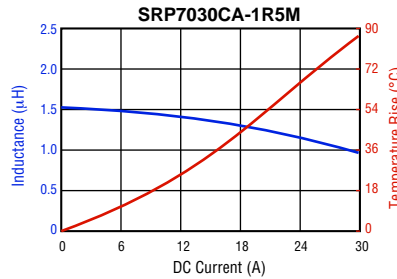
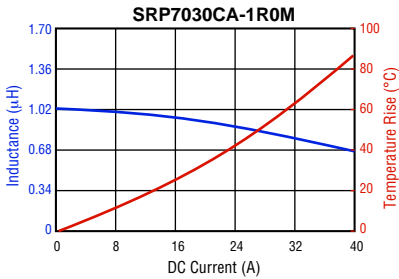
Soldering Profile



REFLOW TIMES: 3 MAX.

NOTE: 0.15 mm thick solder paste recommended.

L vs. I Charts



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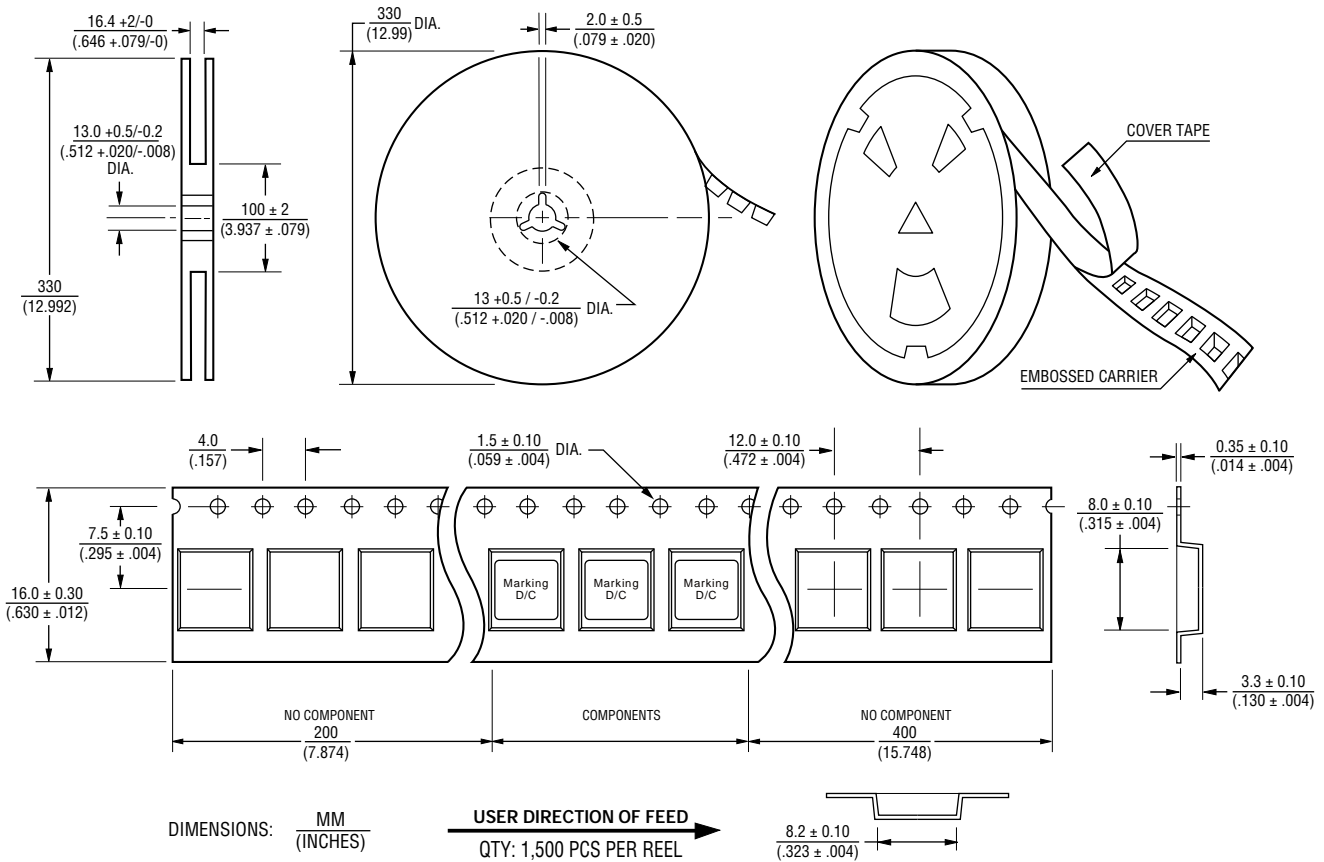
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SRP7030CA Series - Shielded Power Inductors

BOURNS®

Packaging Specifications



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

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REV. 06/24

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