



**THE DATASHEET OF  
SRP7030CA-6R8M**





## Features

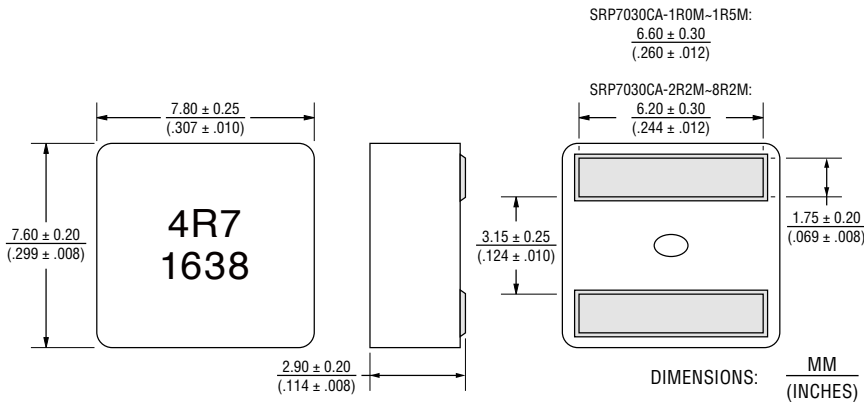
- Shielded construction
- Metal alloy powder core
- High saturation current
- Flat wire
- AEC-Q200 compliant
- RoHS compliant\* and halogen free\*\*

## 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

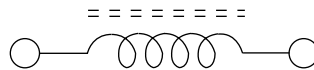


### How to Order

SRP7030CA - 1R5M

Model \_\_\_\_\_  
Value Code (see table) \_\_\_\_\_

### Schematic



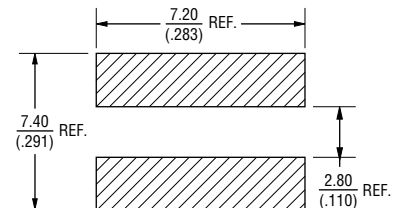
### General Specifications

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<sup>1</sup>  
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

### Recommended Layout



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**WARNING Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://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.

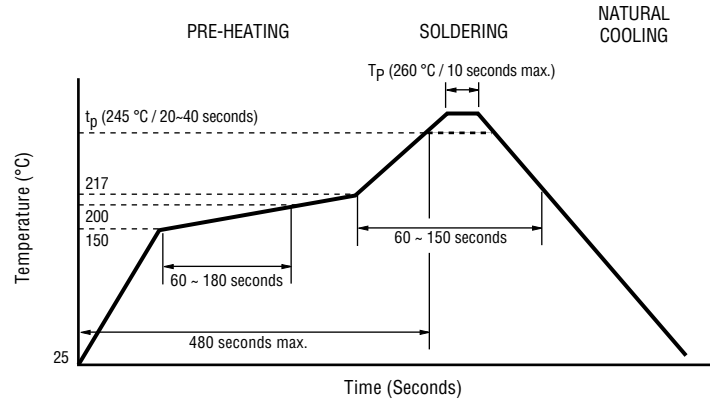
Users should verify actual device performance in their specific applications.

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# SRP7030CA Series – Shielded Power Inductors

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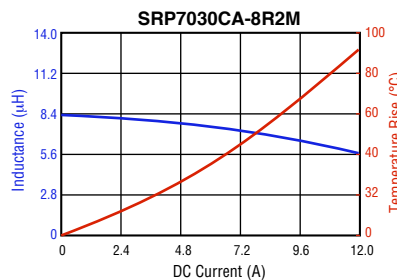
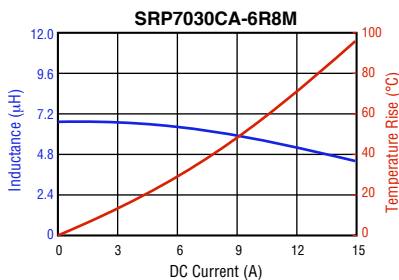
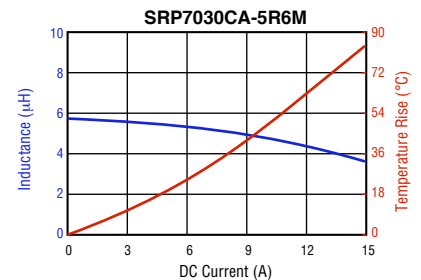
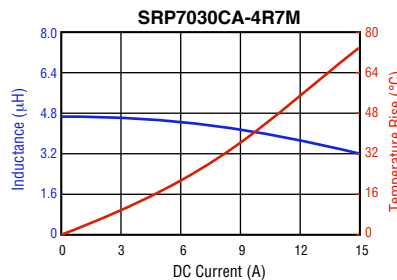
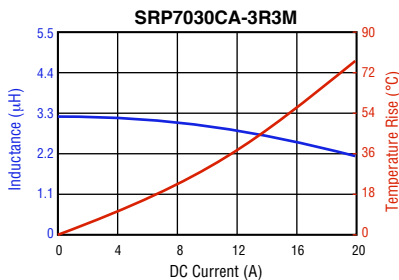
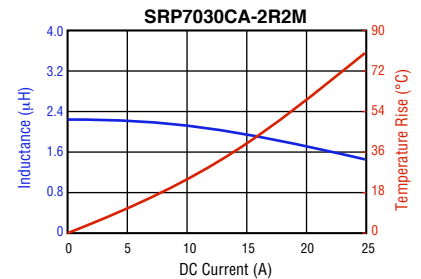
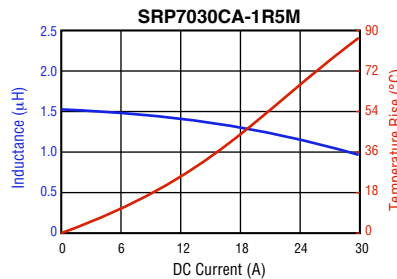
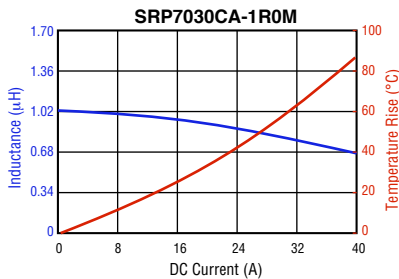
## Soldering Profile



REFLOW TIMES: 3 MAX.

NOTE: 0.15 mm thick solder paste recommended.

## L vs. I Charts



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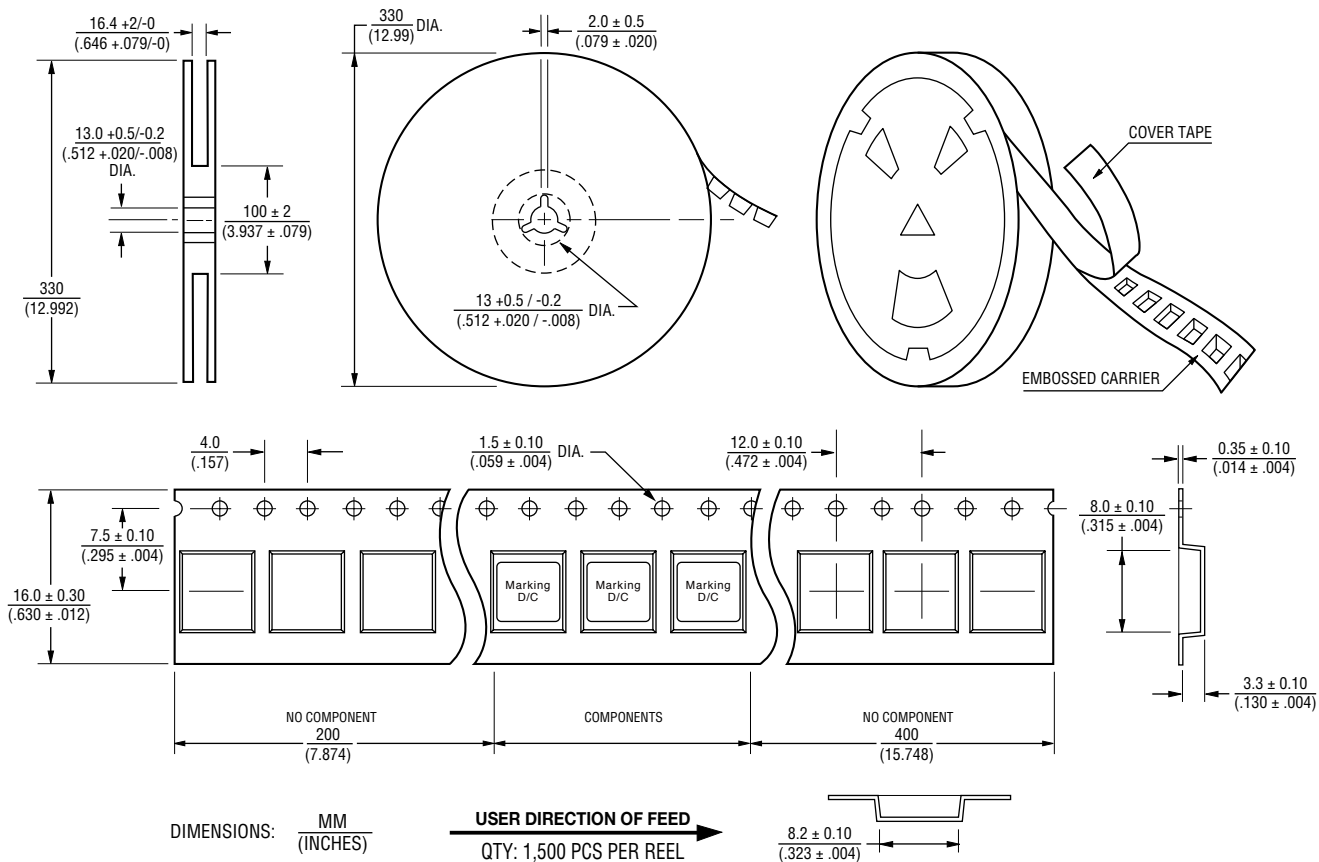
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# SRP7030CA Series – Shielded Power Inductors

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