



## Features

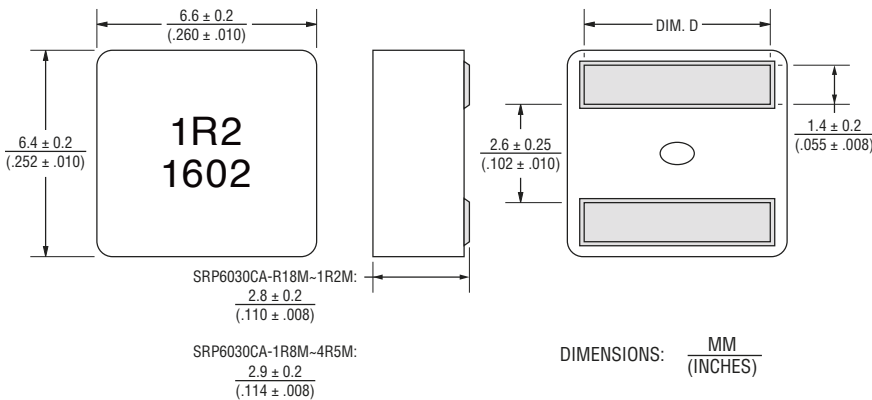
- Shielded construction
- Metal alloy powder core
- High saturation current
- Flat wire
- AEC-Q200 compliant
- RoHS compliant\* and halogen free\*\*

## SRP6030CA Series – Shielded Power Inductors

### Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 kHz / 0.1 V		SRF (MHz) Typ.	DCR (mΩ) Typ.	DCR (mΩ) Max.	I rms (A) Typ.		I sat (A) Typ.	D Dim. (mm) ± 0.3 mm
	L (μH)	Tol. %				20 °C Temp. Rise	40 °C Temp. Rise		
SRP6030CA-R18M	0.18	± 20 %	143	1.6	1.75	24	32	40	5.3
SRP6030CA-R33M	0.33	± 20 %	78	2.25	2.5	20	25	32	5.55
SRP6030CA-R56M	0.56	± 20 %	70	3	3.31	17	22	29	5.3
SRP6030CA-1R0M	1.0	± 20 %	52	5.5	6.05	13	18	23	5.2
SRP6030CA-1R2M	1.2	± 20 %	47	6.7	7.4	12	16	22	5.15
SRP6030CA-1R8M	1.8	± 20 %	33	9.2	10.2	10	14	18.2	5.1
SRP6030CA-2R2M	2.2	± 20 %	29	11	12.2	7	10	15.9	5.05
SRP6030CA-3R3M	3.3	± 20 %	25	18.8	20.8	6	8	12.2	5
SRP6030CA-4R5M	4.5	± 20 %	20	23	25.3	5	7	10	5

### Product Dimensions



### 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 I<sub>sat</sub>

Temperature Rise ..... 20 or 40 °C at rated I<sub>rms</sub><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

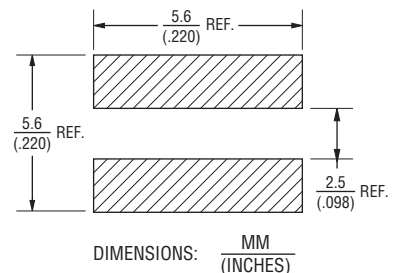
Core ..... Metal alloy powder

Wire ..... Enameled copper

Terminal Finish ..... Sn

Packaging ..... 1000 pcs. per 13-inch reel

### Recommended Layout



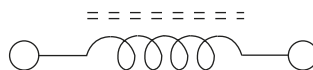
### How to Order

SRP6030CA - 1R2M

Model \_\_\_\_\_

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

### Schematic



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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.

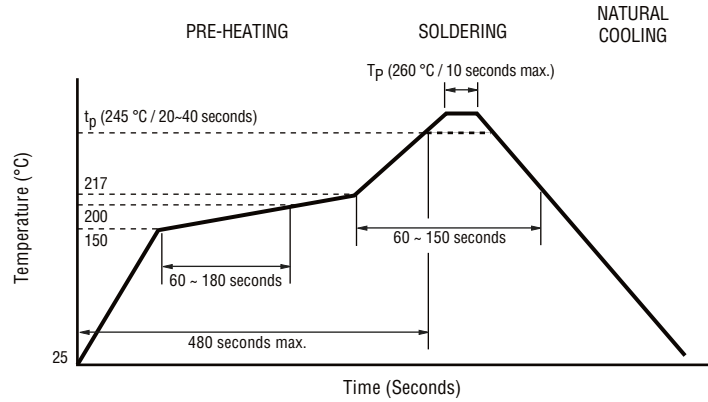
Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

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# SRP6030CA Series – Shielded Power Inductors

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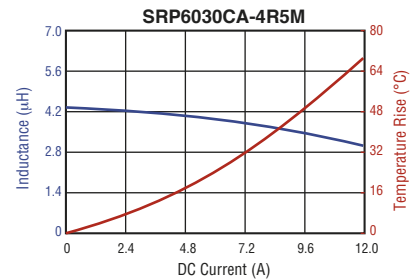
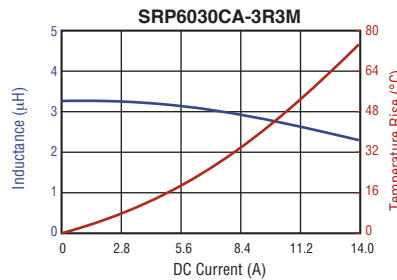
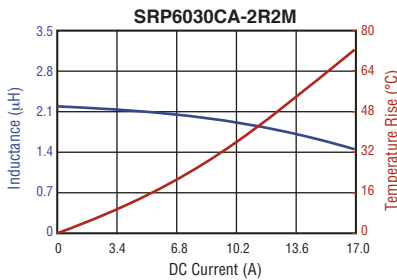
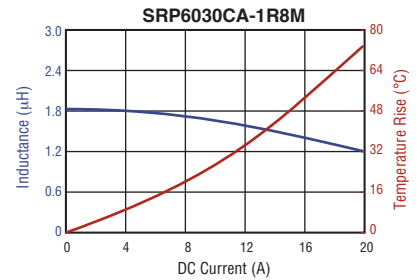
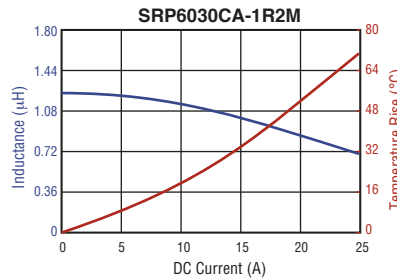
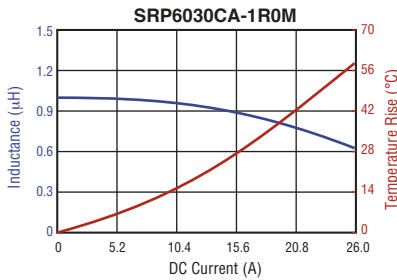
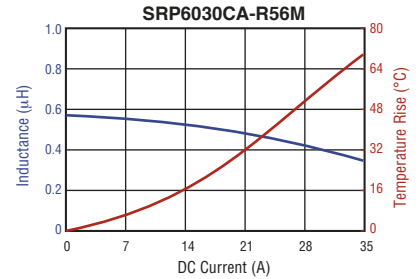
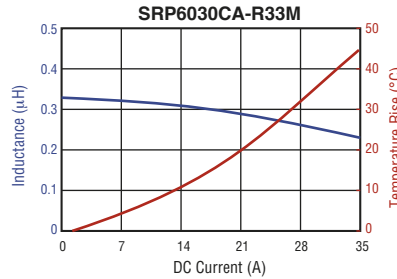
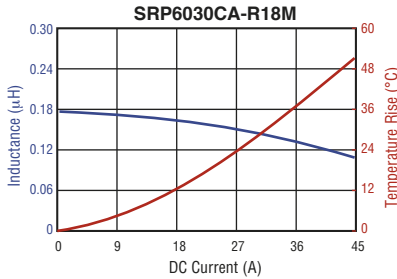
## Soldering Profile



REFLOW TIMES: 3 MAX.

NOTE: 0.15 mm thick solder paste recommended.

## L vs. I Charts

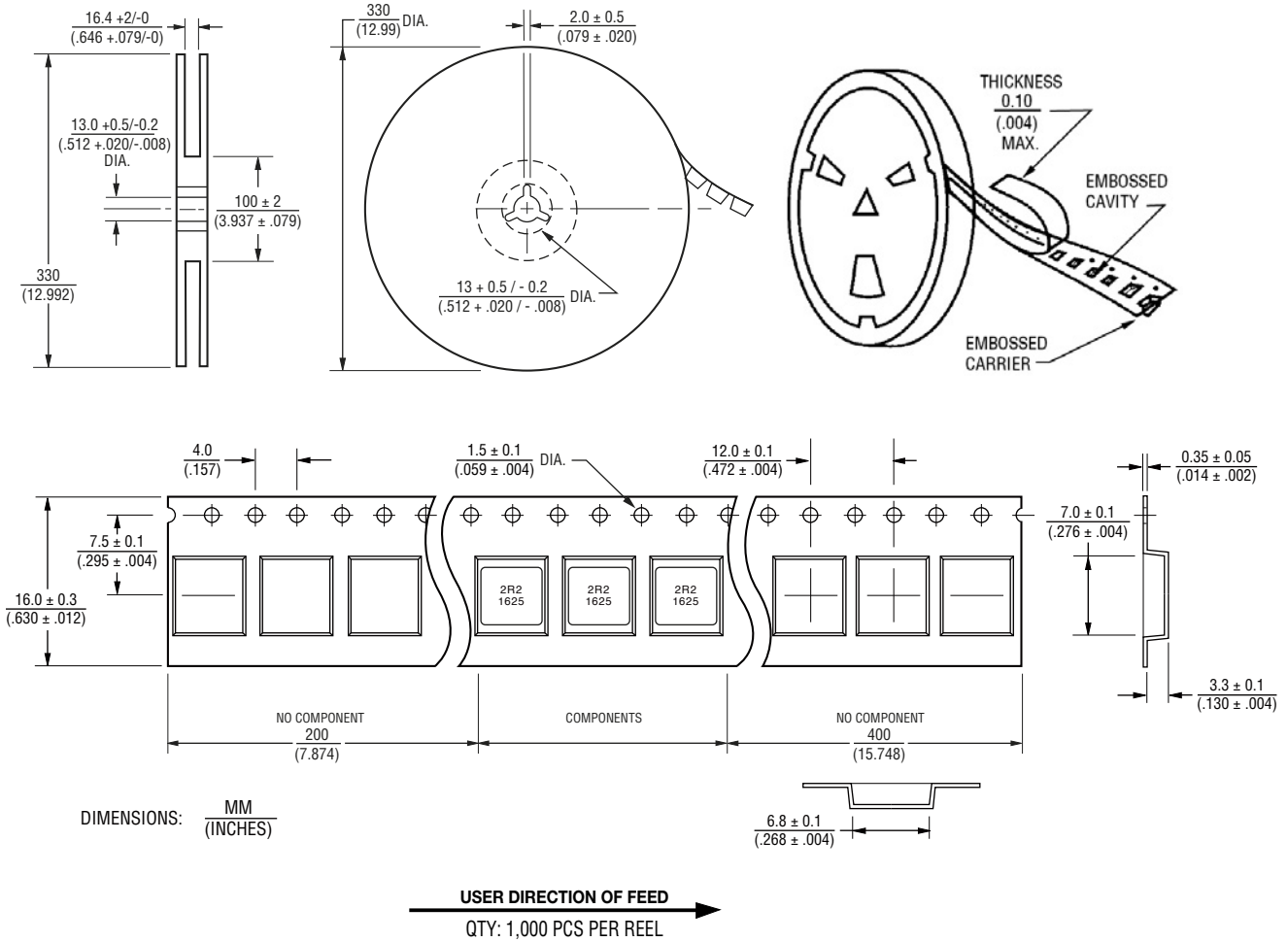


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# SRP6030CA Series – Shielded Power Inductors

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## Packaging Specifications



06/18

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