

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



BOURNS®

Features

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

Applications

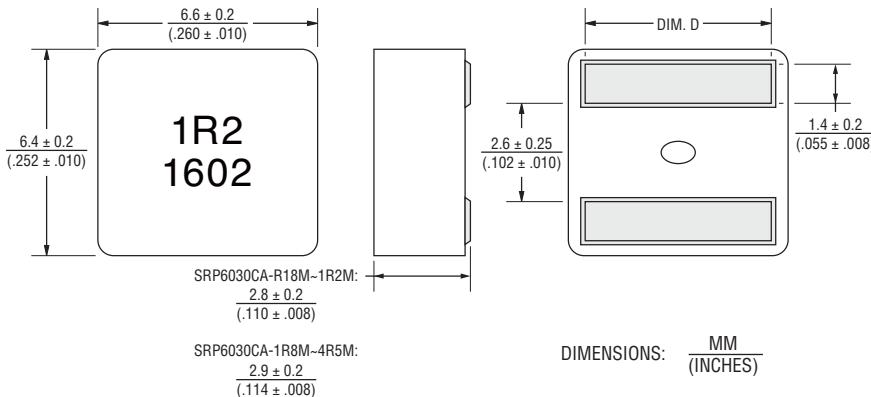
- Selected automotive applications:
 - Driver assistant
 - Infotainment
 - Lighting
- DC/DC converters
- Power supplies

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

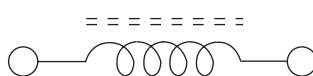


How to Order

SRP6030CA - 1R2M

Model _____
Value Code (see table) _____

Schematic



General Specifications

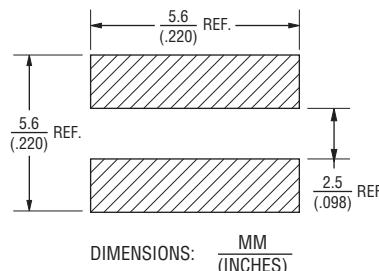
- Operating Temperature -55 °C to +155 °C (Temperature rise included)
- Storage Temperature (Component) -55 °C to +155 °C
- Rated Current Inductance drops 30 % at Isat
- Temperature Rise 20 or 40 °C at rated Irms¹
- MSL 1
- ESD Classification (HBM) N/A

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 Enamelled copper
- Terminal Finish Sn
- Packaging 1000 pcs. per 13-inch reel

Recommended Layout



BOURNS®

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

EMEA: Tel: +36 88 520 390 • Email: europus@bourns.com

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

www.bourns.com

* 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.

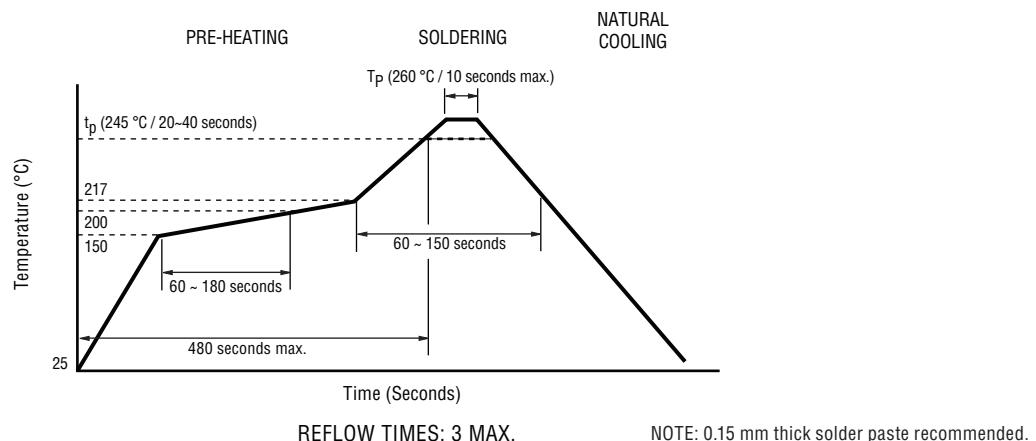
Users should verify actual device performance in their specific applications.

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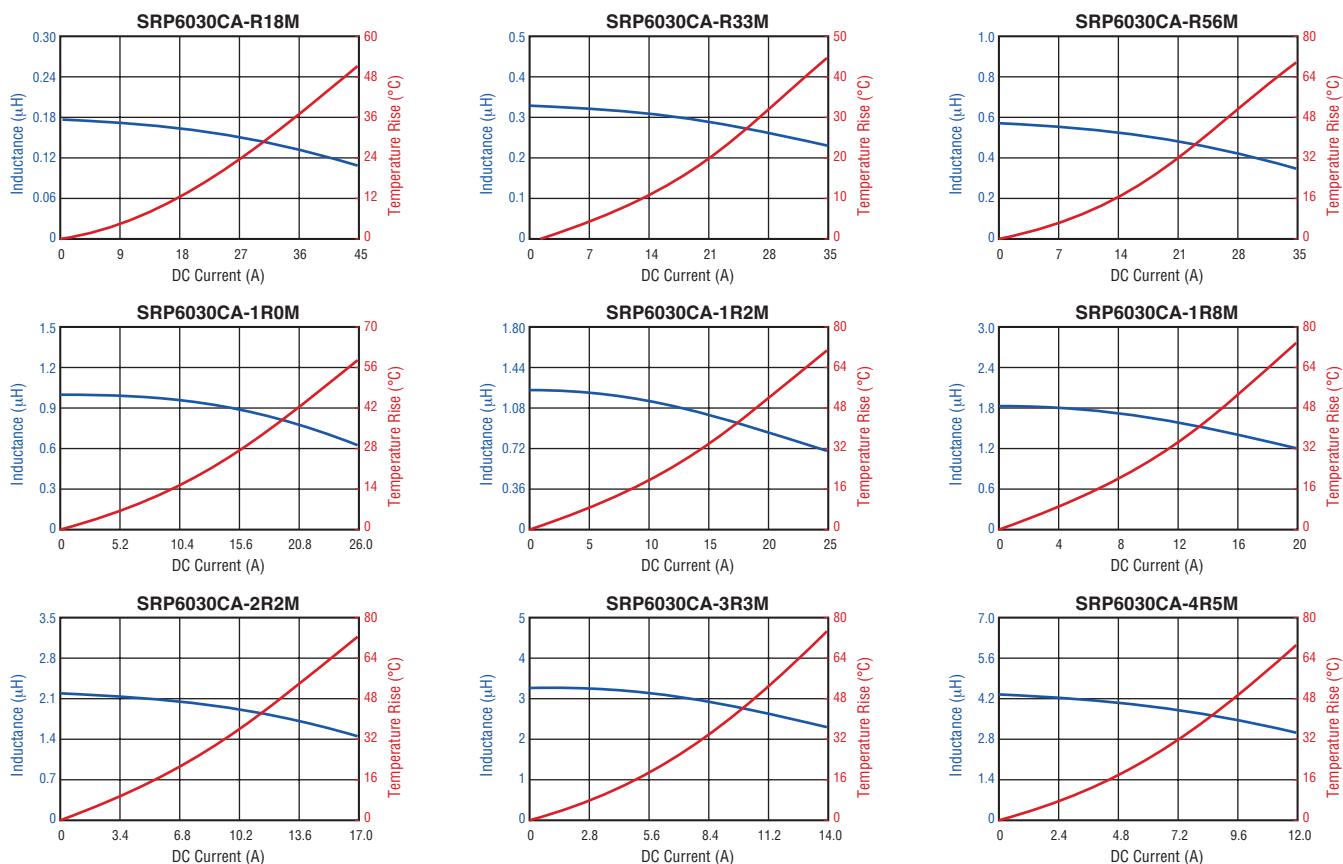
SRP6030CA Series – Shielded Power Inductors

BOURNS®

Soldering Profile



L vs. I Charts



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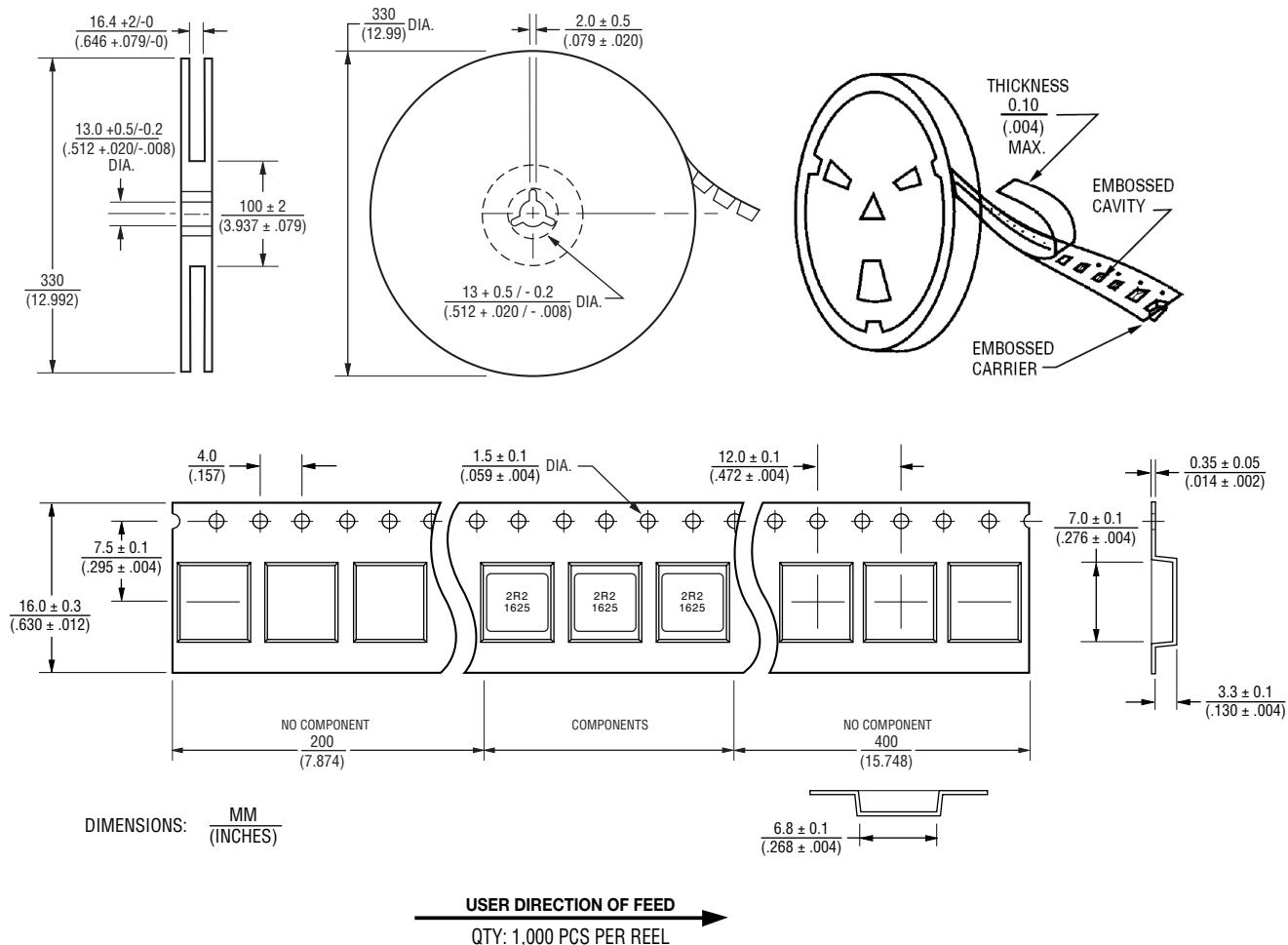
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SRP6030CA Series – Shielded Power Inductors

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Packaging Specifications



06/18

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