



## Features

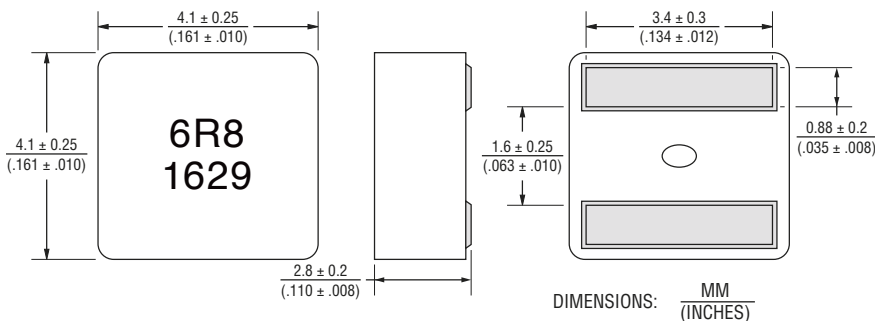
- Shielded construction
- Metal alloy powder core
- High saturation current
- Flat wire
- AEC-Q200 compliant
- RoHS compliant\* and halogen free\*\*

## SRP4030FA Series – Shielded Power Inductors

### Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 kHz / 0.1 V		Q (Min.) @ 100 kHz	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	10 % L Drop	20 % L Drop	30 % L Drop
SRP4030FA-R90M	0.9	± 20 %	10	60	9.1	10.1	8.2	11.2	5.2	7.0	10.0
SRP4030FA-1R0M	1.0	± 20 %	10	58	9.1	10.1	8.0	11.0	5.0	6.8	9.8
SRP4030FA-3R3M	3.3	± 20 %	10	28	26.0	28.6	5.0	6.6	3.3	4.8	6.2
SRP4030FA-4R7M	4.7	± 20 %	10	27	40.1	44.1	3.9	5.1	2.8	4.2	5.5
SRP4030FA-6R8M	6.8	± 20 %	15	26	67.4	74.1	3.1	4.0	2.3	3.5	4.6

### 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  
10, 20 or 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

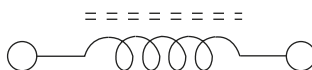
Note 1: Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

### How to Order

Model \_\_\_\_\_ SRP4030FA - 1R0M

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

### Schematic



### Materials

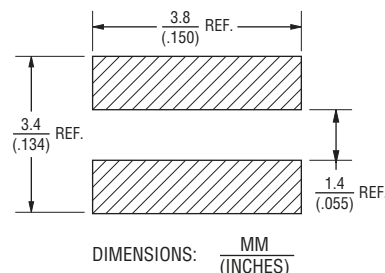
Core ..... Metal alloy powder

Wire ..... Enameled copper

Terminal Finish ..... Sn

Packaging ..... 2000 pcs. per 13-inch reel

### Recommended Layout



## BOURNS®

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

\* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

\*\*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.

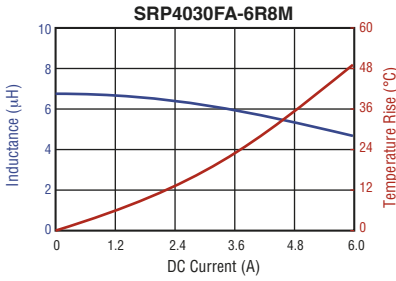
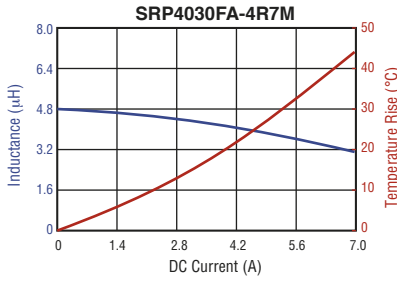
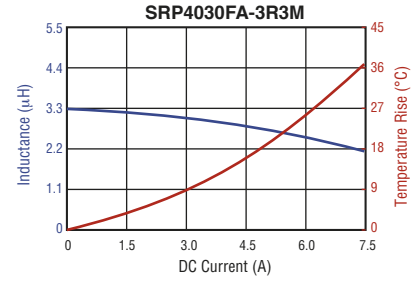
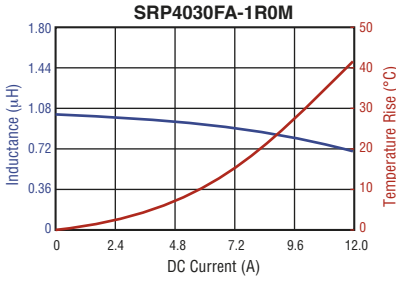
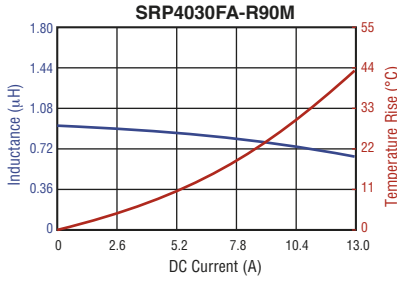
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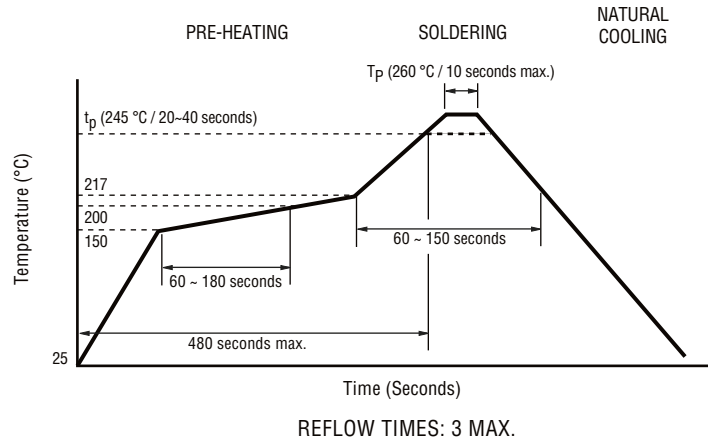
# SRP4030FA Series – Shielded Power Inductors

**BOURNS®**

## L vs. I Charts



## Soldering Profile



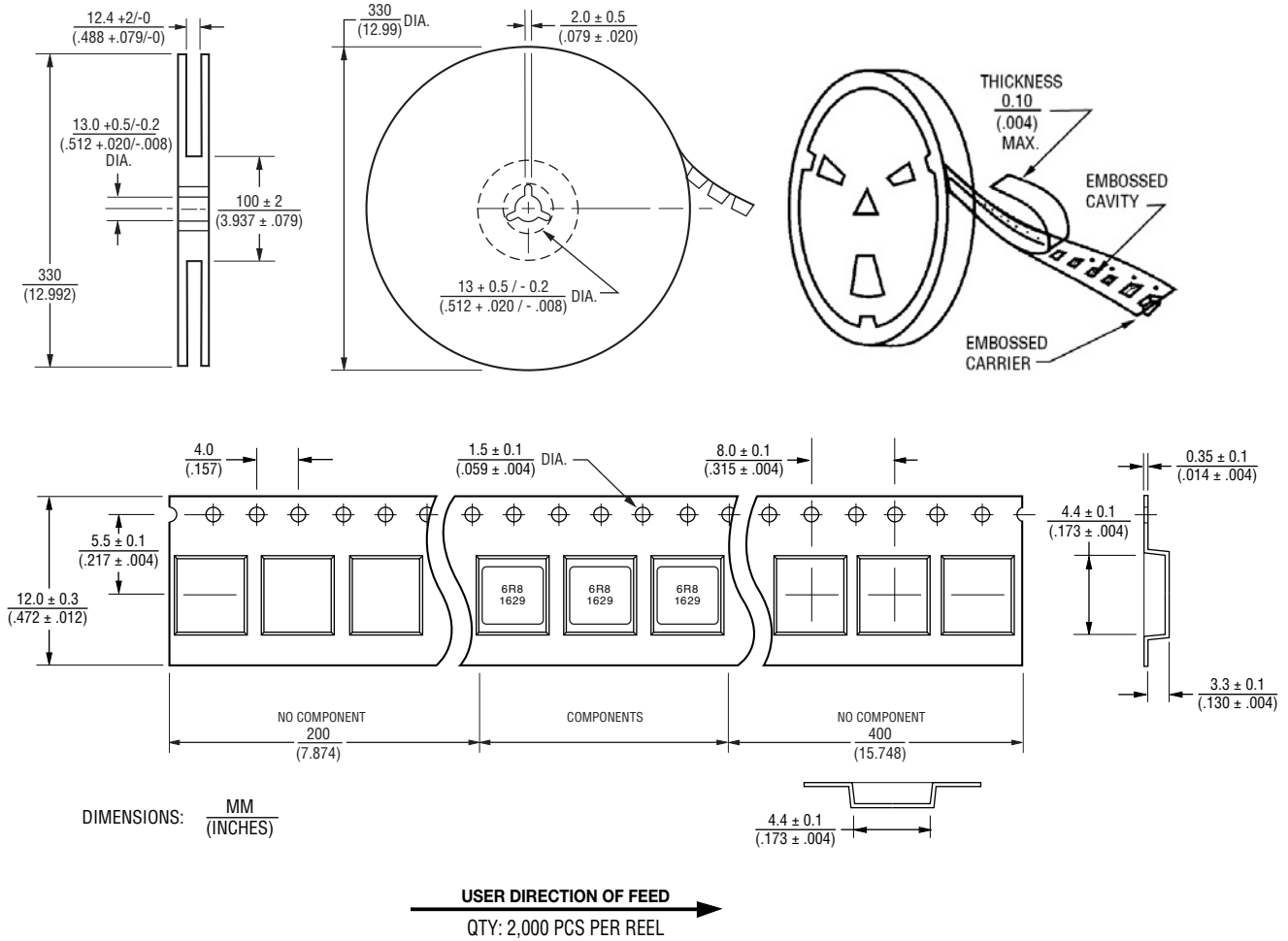
NOTE: 0.12 mm thick solder paste recommended.

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# SRP4030FA Series – Shielded Power Inductors

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## Packaging Specifications



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