



## Features

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

## Applications

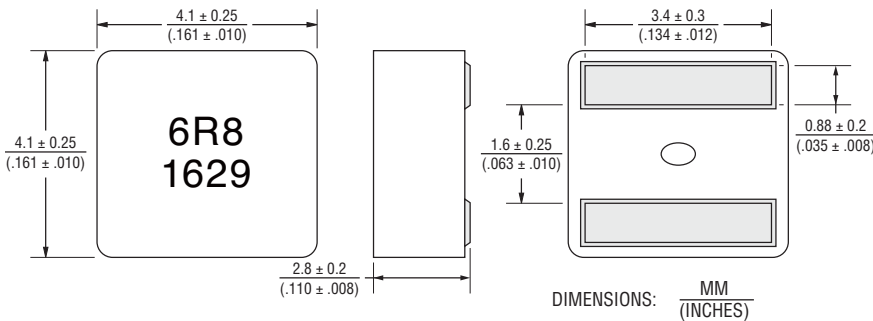
- Selected automotive applications:
  - Driver assistant
  - Infotainment
  - Lighting
- DC/DC converters
- Power supplies

# 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

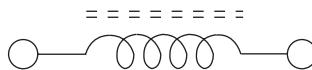
### Product Dimensions



### How to Order



### 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  
10, 20 or 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

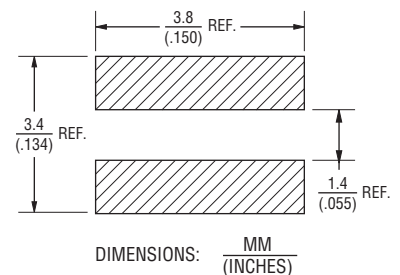
Core ..... Metal alloy powder

Wire ..... Enameled copper

Terminal Finish ..... Sn

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

### Recommended Layout



# BOURNS®

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\* 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.

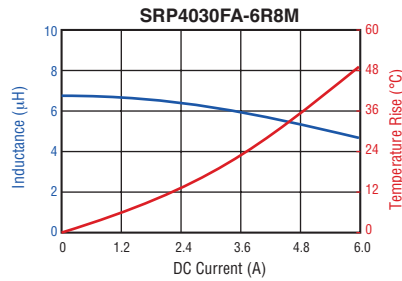
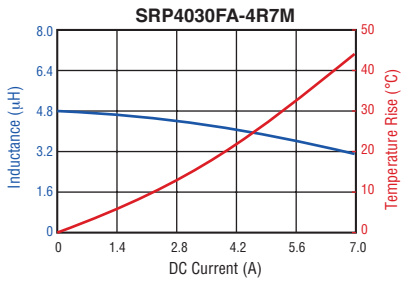
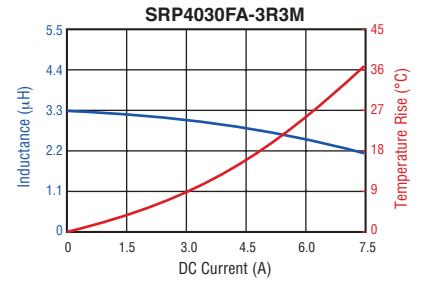
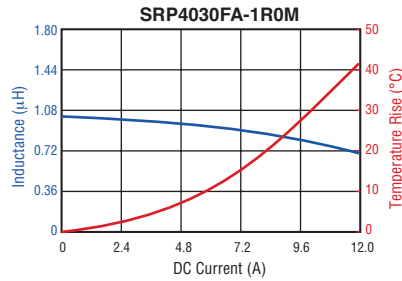
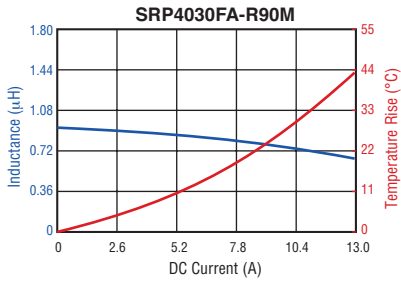
Users should verify actual device performance in their specific applications.

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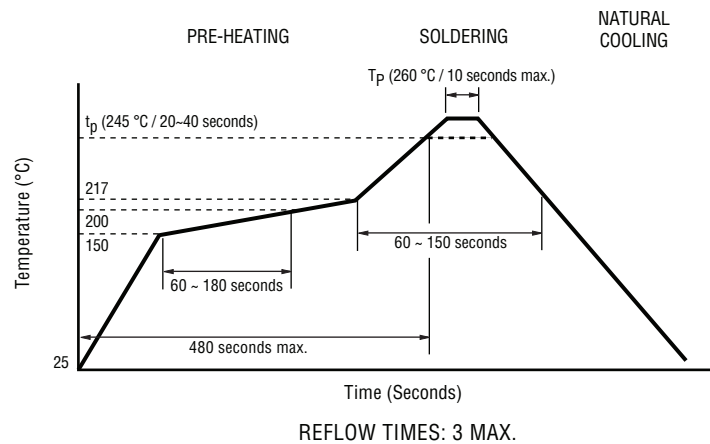
# SRP4030FA Series – Shielded Power Inductors

**BOURNS®**

## L vs. I Charts



## Soldering Profile

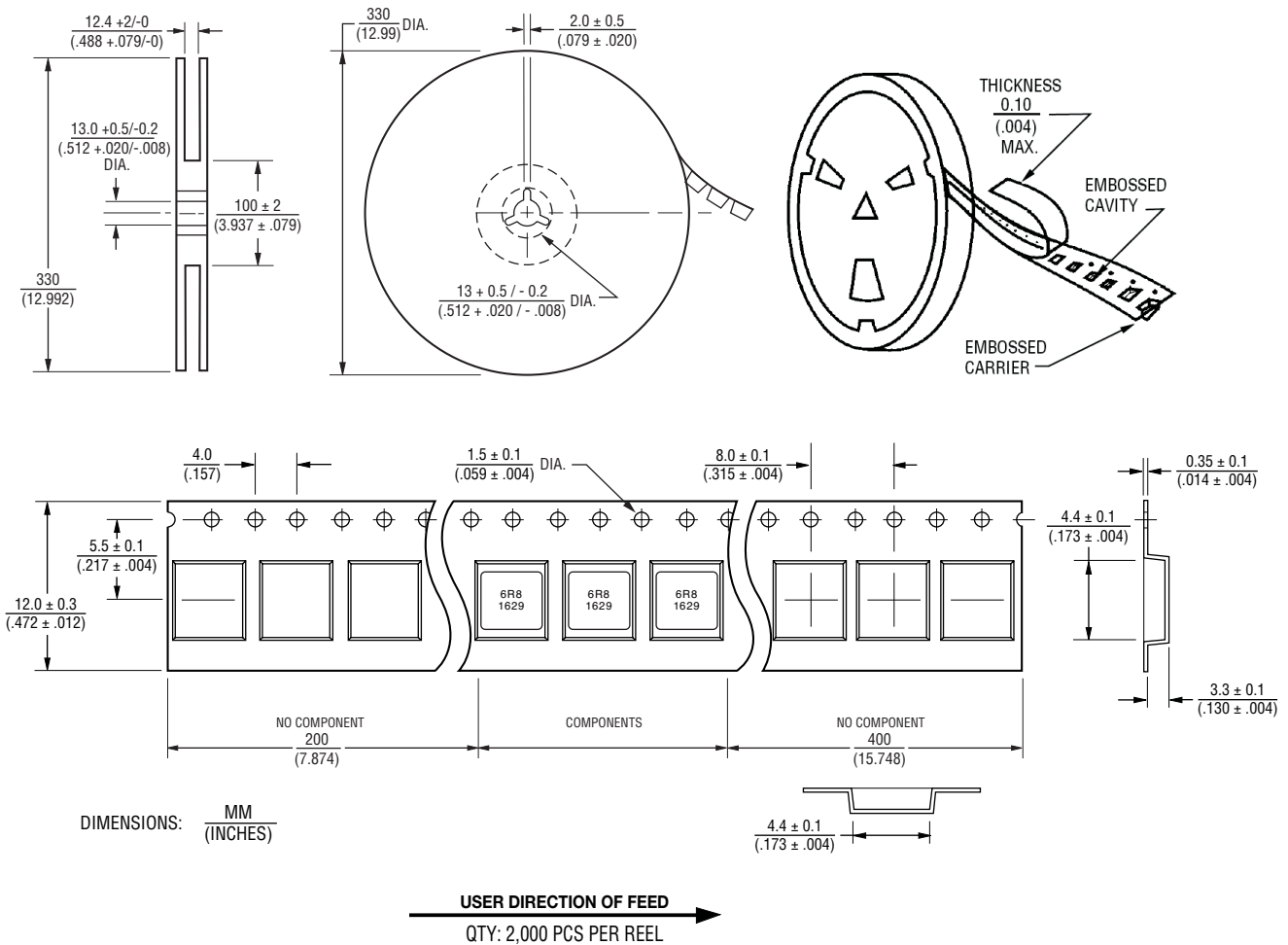


NOTE: 0.12 mm thick solder paste recommended.

# SRP4030FA Series – Shielded Power Inductors

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## Packaging Specifications



06/18

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