

## Features

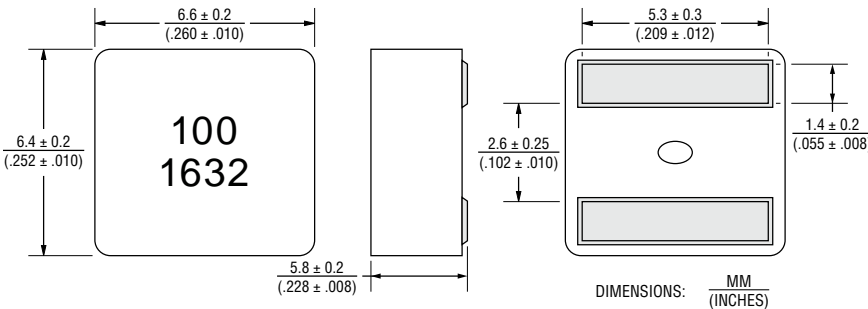
- Shielded construction
- Metal alloy powder core
- High saturation current
- Flat wire
- AEC-Q200 compliant
- RoHS compliant\* and halogen free\*\*

## SRP6060FA 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	
	SRP6060FA-2R2M	2.20				± 20 %	30	
SRP6060FA-4R7M	4.70	± 20 %	24	13.1	14.4	8.0	11.0	10.5
SRP6060FA-5R6M	5.60	± 20 %	18	14.3	15.8	7.5	10.0	10.0
SRP6060FA-6R8M	6.80	± 20 %	16	18.9	20.8	7.0	9.0	9.2
SRP6060FA-8R2M	8.20	± 20 %	14	22.5	24.8	6.0	8.0	8.5
SRP6060FA-100M	10.0	± 20 %	12	26.6	29.3	5.0	7.0	7.6
SRP6060FA-150M	15.0	± 20 %	11	39.0	43.0	4.5	6.0	5.8
SRP6060FA-220M	22.0	± 20 %	10	55.0	60.5	3.8	5.0	5.6

### Product Dimensions

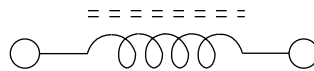


### How to Order

SRP6060FA - 100M

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

### Schematic



### Additional Information

Click these links for more information:



[PRODUCT SELECTOR](#) [TECHNICAL LIBRARY](#) [INVENTORY](#) [SAMPLES](#) [CONTACT](#)

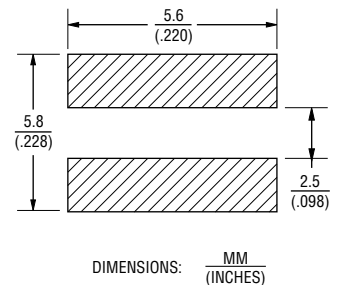
### General Specifications

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 ..... 750 pcs. per 13-inch reel

### Recommended Layout



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[www.bourns.com](http://www.bourns.com)



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

\* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

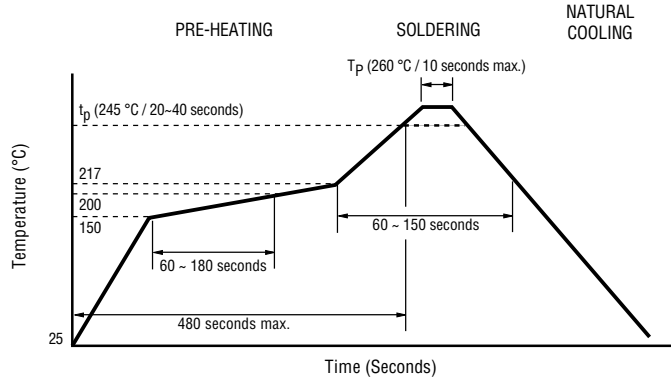
\*\* Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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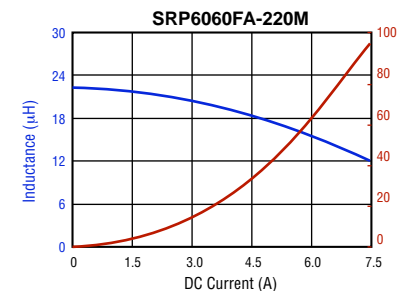
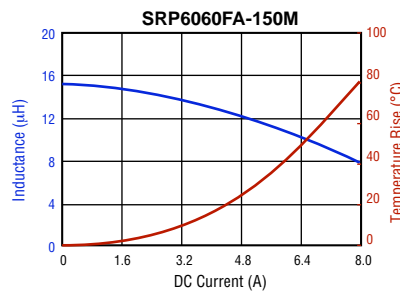
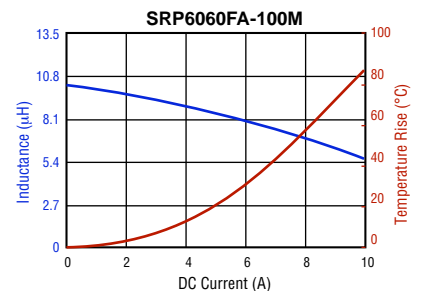
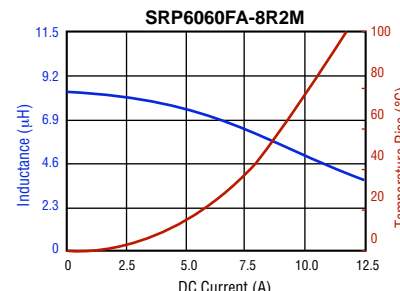
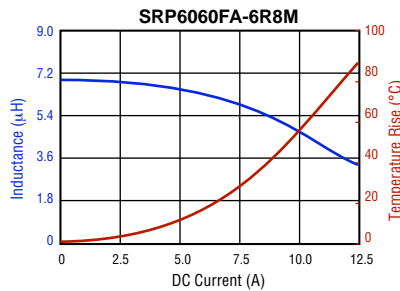
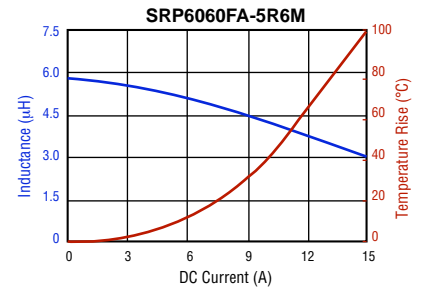
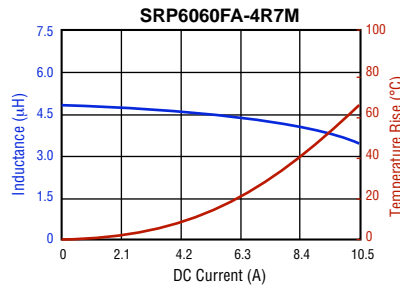
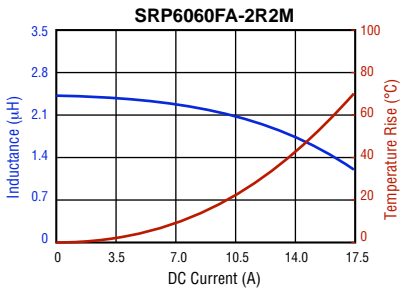


## Soldering Profile



REFLOW TIMES: 3 MAX.

## L vs. I Charts



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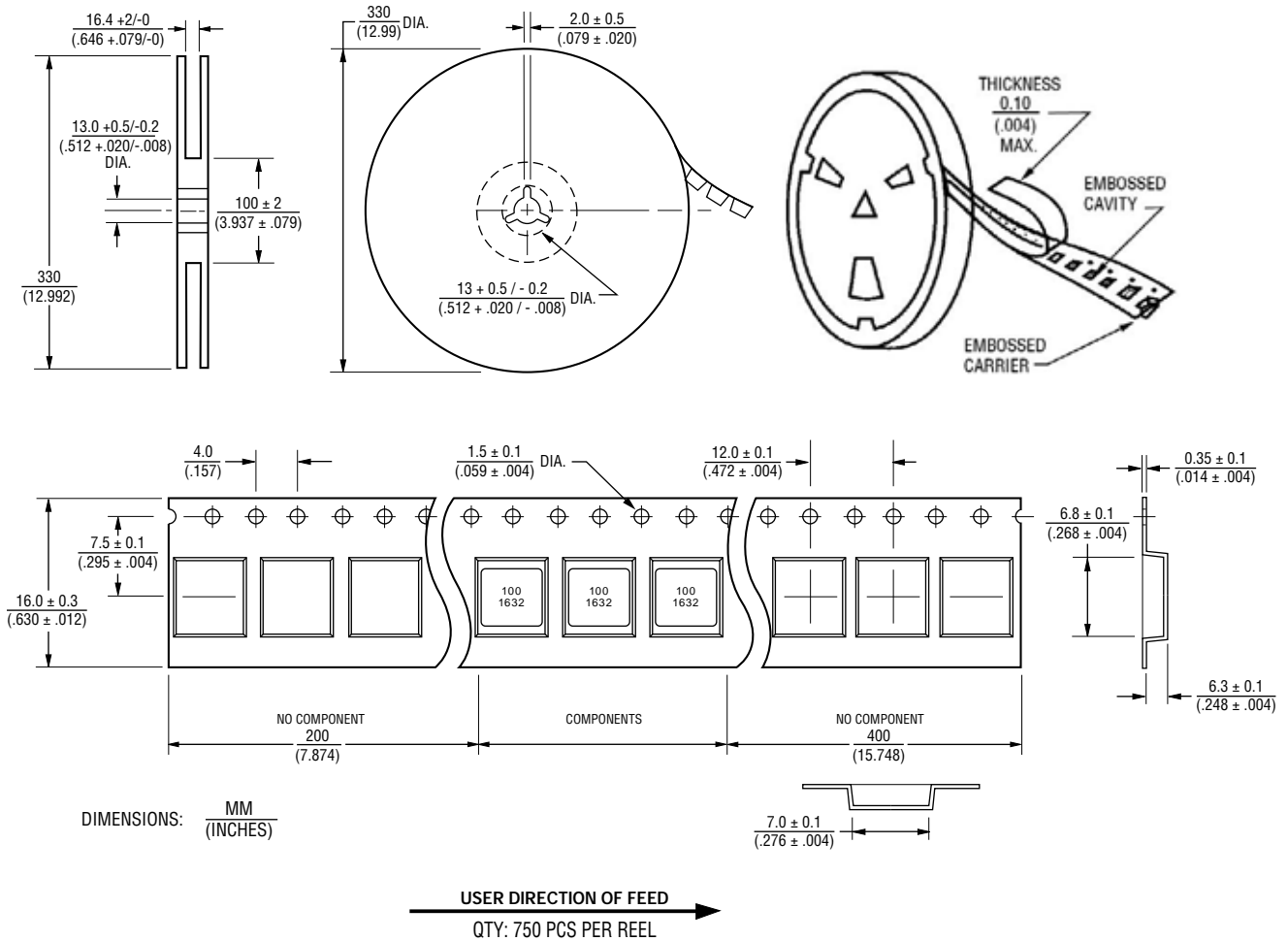
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# SRP6060FA Series - Shielded Power Inductors

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## Packaging Specifications



REV. 06/24

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