



Features

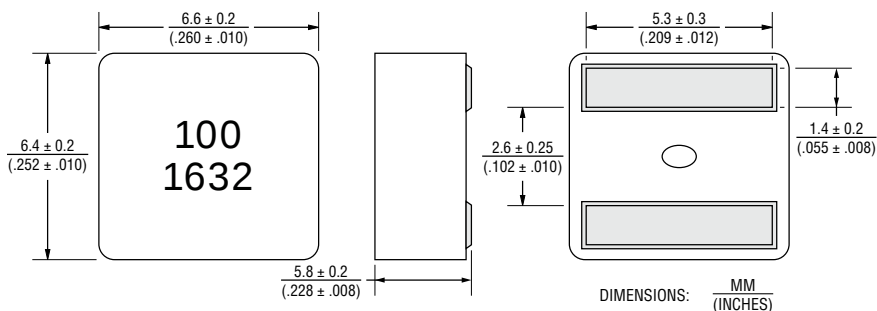
- Shielded construction
- Metal alloy powder core
- High saturation current
- Flat wire
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

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	7.0	7.8	11.0	14.0	14.0
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

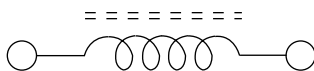


How to Order

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

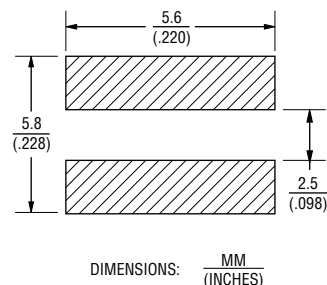
Operating Temperature -55 °C to +155 °C
(Temperature rise included)
Storage Temperature (Component) -55 °C to +155 °C
Rated Current Inductance drops
30 % at Isat
Temperature Rise 20 or 40 °C
at rated Irms¹
MSL 1
ESD Classification (HBM) N/A

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 Enameled copper
Terminal Finish Sn
Packaging 750 pcs. per 13-inch reel

Recommended Layout



BOURNS®

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

Mexico: Tel: +52-614-478-0400 • Email: mexicus@bourns.com

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

EMEA: Tel: +36 88 885 877 • Email: eurocus@bourns.com

www.bourns.com



WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

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

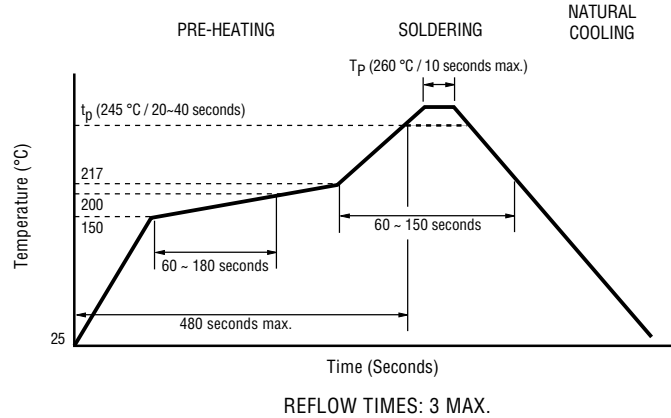
** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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SRP6060FA Series - Shielded Power Inductors

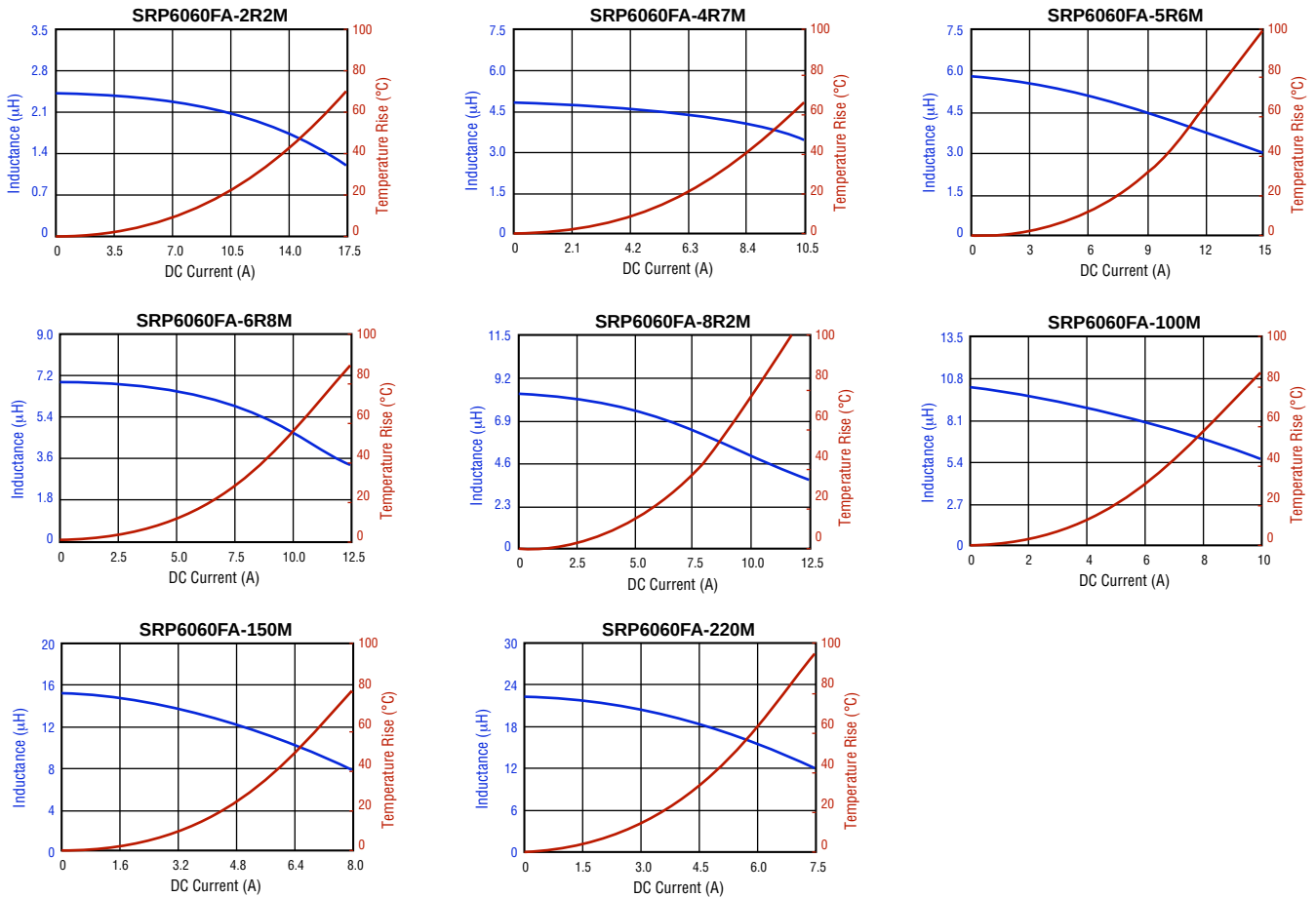
BOURNS®

Soldering Profile



REFLOW TIMES: 3 MAX.

L vs. I Charts



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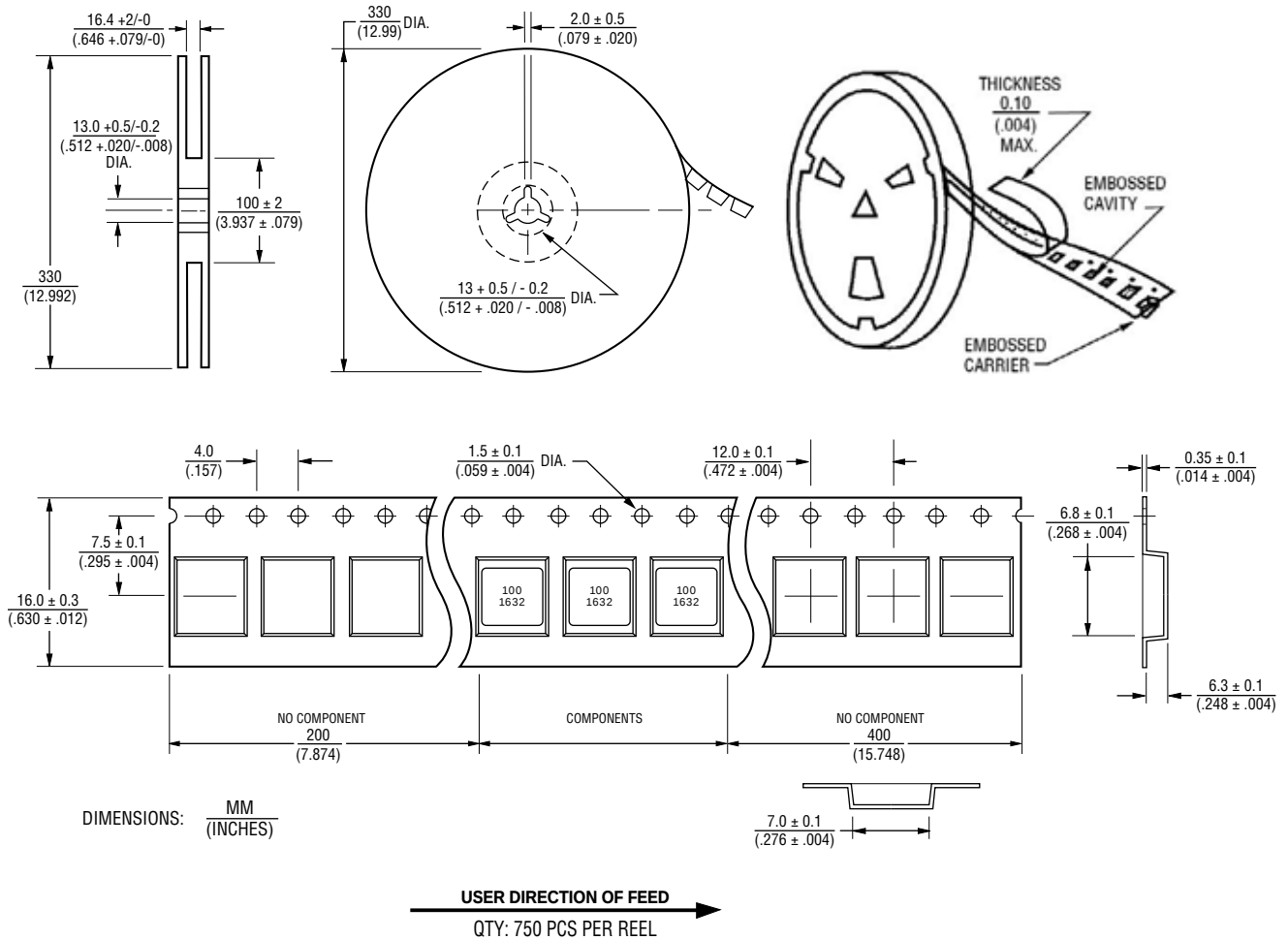
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SRP6060FA Series - Shielded Power Inductors

BOURNS®

Packaging Specifications



REV. 06/24

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