



Features

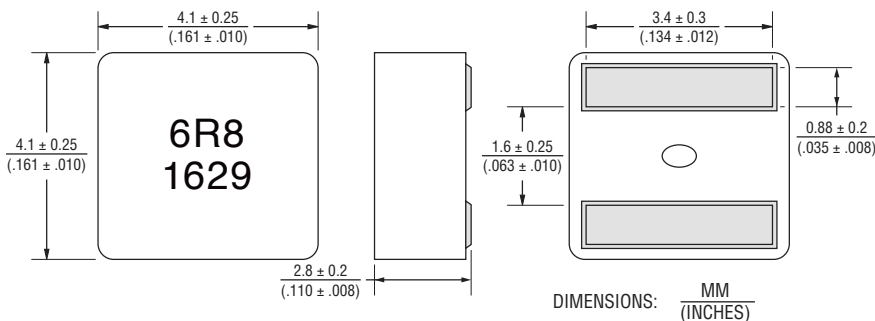
- Shielded construction
- Metal alloy powder core
- High saturation current
- Flat wire
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

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

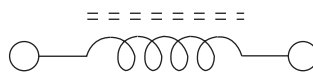


How to Order

SRP4030FA - 1R0M

Model _____
Value Code (see table) _____

Schematic



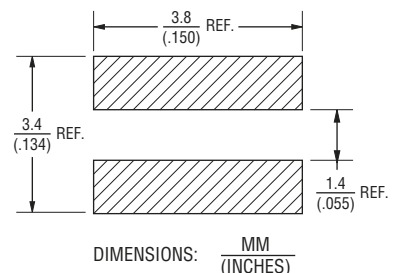
General Specifications

Operating Temperature -55 °C to +155 °C
(Temperature rise included)
Storage Temperature (Component) -55 °C to +155 °C
Rated Current Inductance drops
10, 20 or 30 % at I_{sat}
Temperature Rise 20 or 40 °C
at rated I_{rms}¹
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 2000 pcs. per 13-inch reel

Recommended Layout



BOURNS®

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

www.bourns.com



WARNING Cancer and Reproductive Harm - 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.

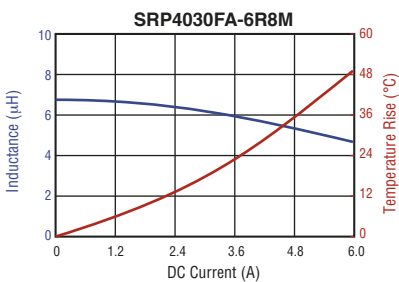
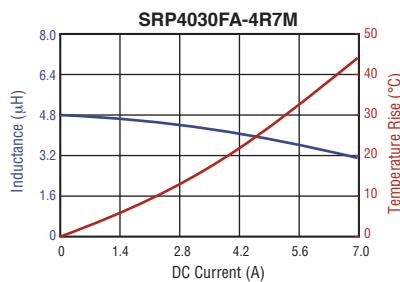
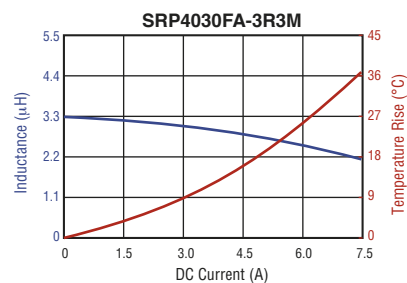
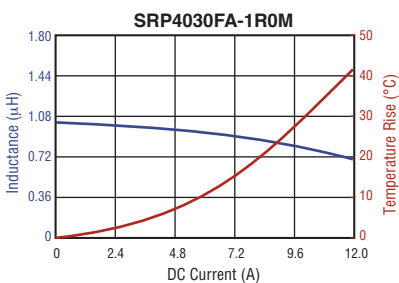
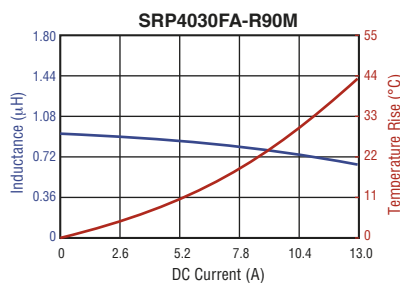
Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

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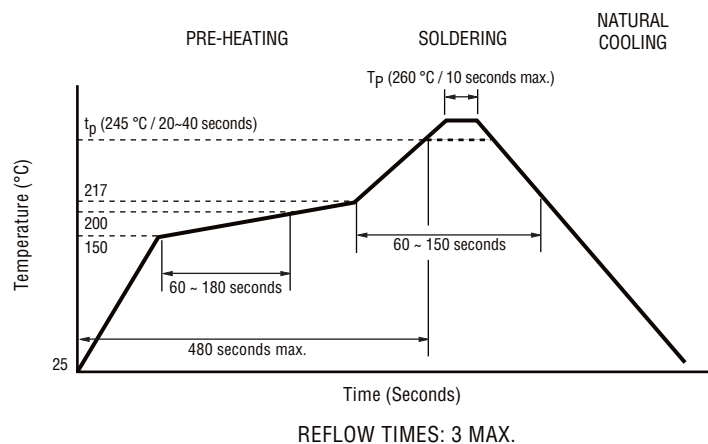
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BOURNS®

L vs. I Charts



Soldering Profile



NOTE: 0.12 mm thick solder paste recommended.

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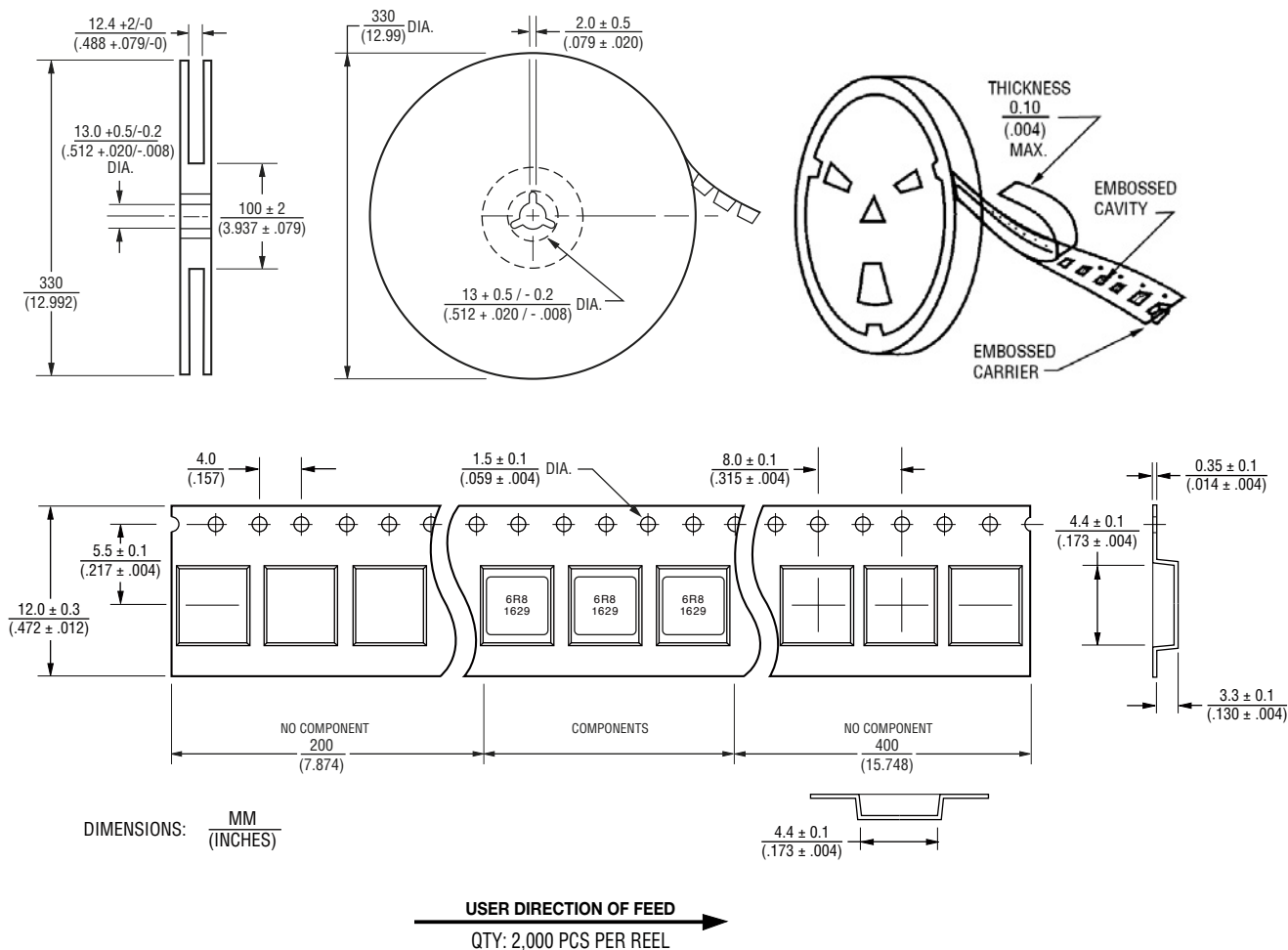
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SRP4030FA Series – Shielded Power Inductors

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Packaging Specifications



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