



**THE DATASHEET OF
SRP4030FA-4R7M**





Features

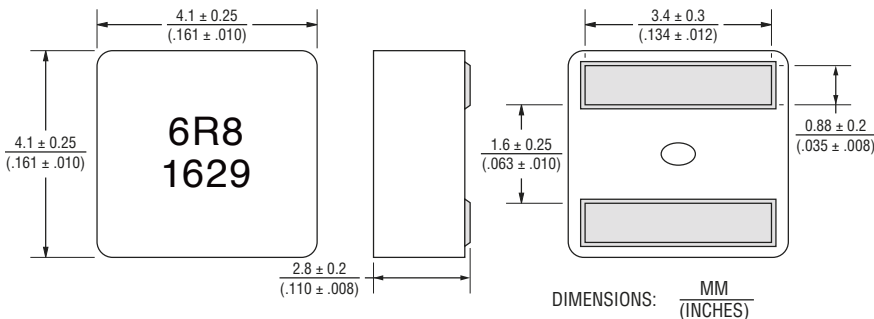
- Shielded construction
- Metal alloy powder core
- High saturation current
- Flat wire
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

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

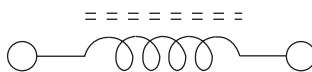
Operating Temperature -55 °C to +155 °C
 (Temperature rise included)
 Storage Temperature (Component) -55 °C to +155 °C
 Rated Current Inductance drops
 10, 20 or 30 % at I_{sat}
 Temperature Rise 20 or 40 °C
 at rated I_{rms}¹
 MSL 1
 ESD Classification (HBM) N/A

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.

How to Order

Model _____ SRP4030FA - 1R0M
 Value Code (see table) _____

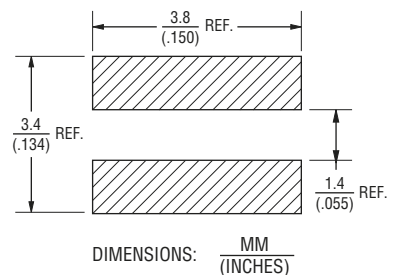
Schematic



Materials

Core Metal alloy powder
 Wire Enameled copper
 Terminal Finish Sn
 Packaging 2000 pcs. per 13-inch reel

Recommended Layout



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

EMEA: Tel: +36 88 520 390 • Email: eurocus@bourns.com

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.

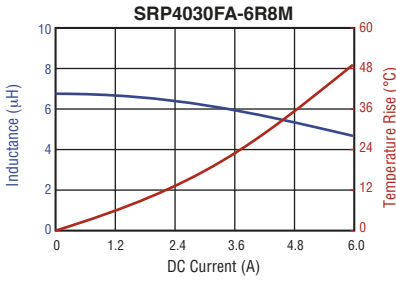
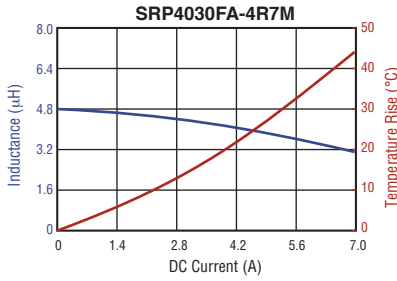
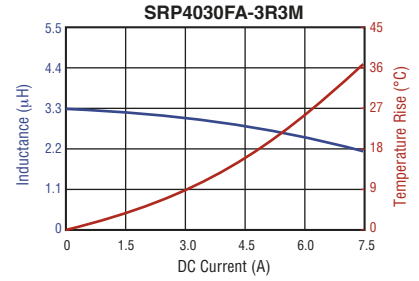
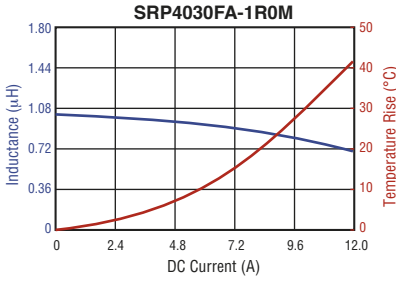
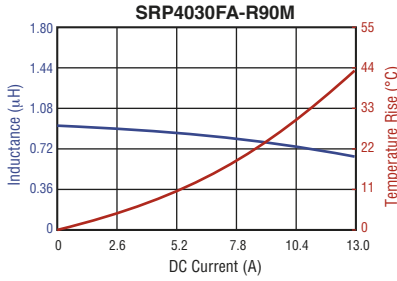
Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

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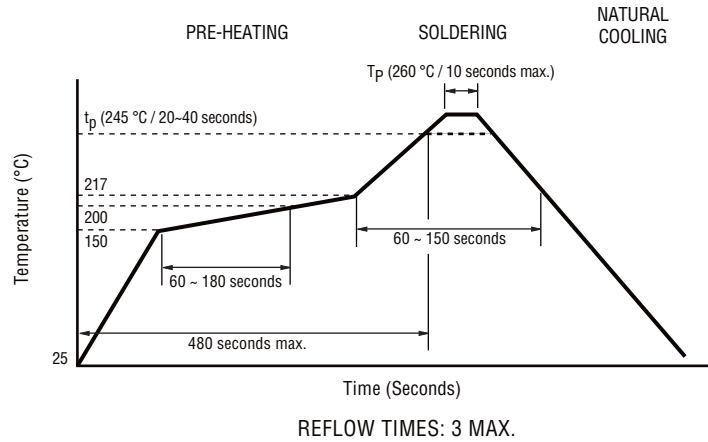
SRP4030FA Series – Shielded Power Inductors

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L vs. I Charts



Soldering Profile

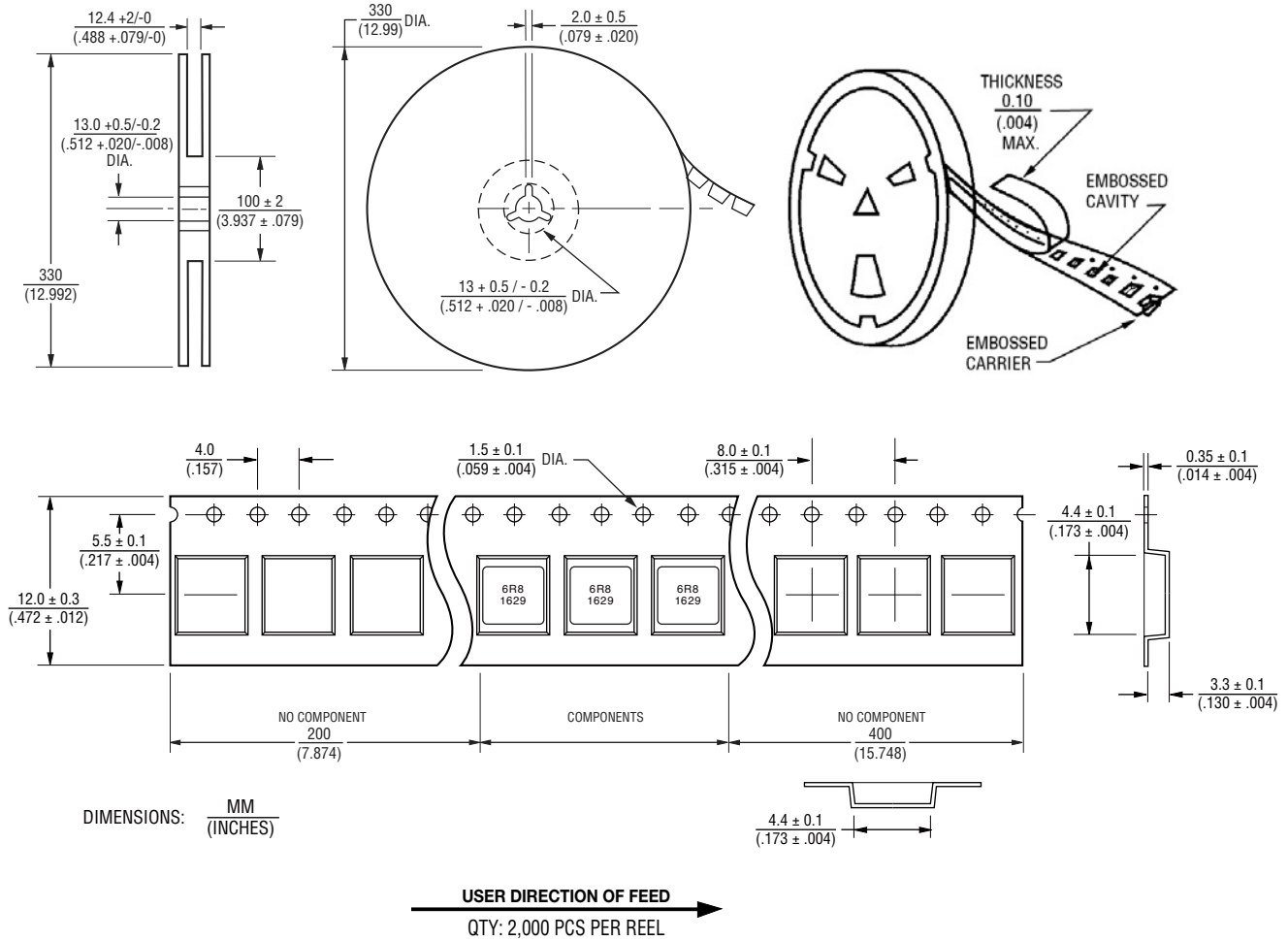


NOTE: 0.12 mm thick solder paste recommended.

SRP4030FA Series – Shielded Power Inductors

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Packaging Specifications



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