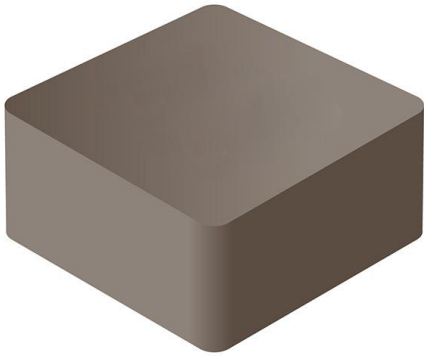


# SRP4018FA-R47M Datasheet

[www.digi-electronics.com](http://www.digi-electronics.com)



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	SRP4018FA-R47M-DG
Manufacturer	<a href="#">Bourns Inc.</a>
Manufacturer Product Number	SRP4018FA-R47M
Description	FIXED IND SMD
Detailed Description	Inductor Nonstandard



Tel: +00 852-30501935

RFQ Email: [Info@DiGi-Electronics.com](mailto:Info@DiGi-Electronics.com)

DiGi is a global authorized distributor of electronic components.

## Purchase and inquiry

Manufacturer Product Number:

SRP4018FA-R47M

Series:

SRP4018FA

Mounting Type:

Surface Mount

Supplier Device Package:

-

Manufacturer:

Bourns Inc.

Product Status:

Active

Package / Case:

Nonstandard

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.50.8000

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99



**Features**

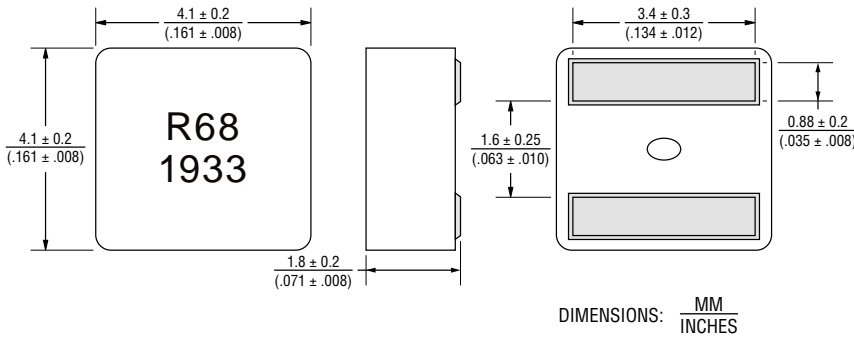
- Shielded construction
- Metal alloy powder core
- High saturation current
- Low buzz noise
- Flat wire
- AEC-Q200 compliant
- RoHS compliant\* and halogen free\*\*

**SRP4018FA 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
SRP4018FA-R33M	0.33	± 20 %	15	92	4.7	5.2	11	15	8.0	11.5	15
SRP4018FA-R47M	0.47	± 20 %	15	90	6.0	6.8	9.8	13.2	7.0	10.0	14
SRP4018FA-R60M	0.60	± 20 %	15	85	6.9	7.8	9.4	12.4	5.8	8.8	12.8
SRP4018FA-R68M	0.68	± 20 %	15	73	7.3	8.2	9.2	12	5.2	8.0	11.6
SRP4018FA-R82M	0.82	± 20 %	15	62	8.6	9.5	8.5	11.5	4.8	6.5	10.2
SRP4018FA-1R0M	1.00	± 20 %	15	56	10.6	11.7	8.0	11	4.5	5.4	9.2
SRP4018FA-1R2M	1.20	± 20 %	15	53	12.2	13.4	7.2	9.5	4.3	5.0	8.6

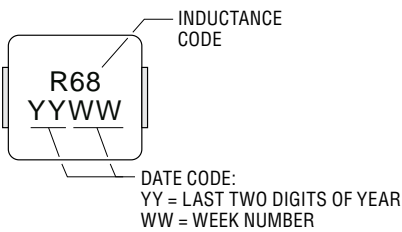
**Product Dimensions**



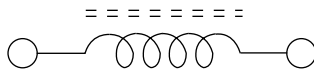
**General Specifications**

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 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 can affect the part temperature. Part temperature should be verified in the end application.

**Typical Part Marking**



**Schematic**



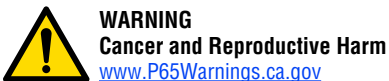
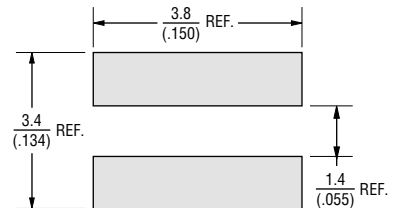
**How to Order**

**SRP4018FA - 1R0M**  
 Model \_\_\_\_\_  
 Value Code (see table) \_\_\_\_\_

**Materials**

Core..... Metal alloy powder  
 Wire .....Enameled copper  
 Terminal Finish .....Sn  
 Packaging..... 3000 pcs. per 13-inch reel

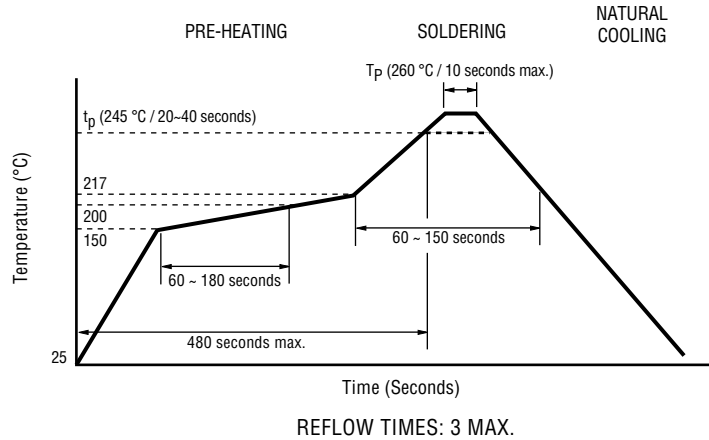
**Recommended Layout**



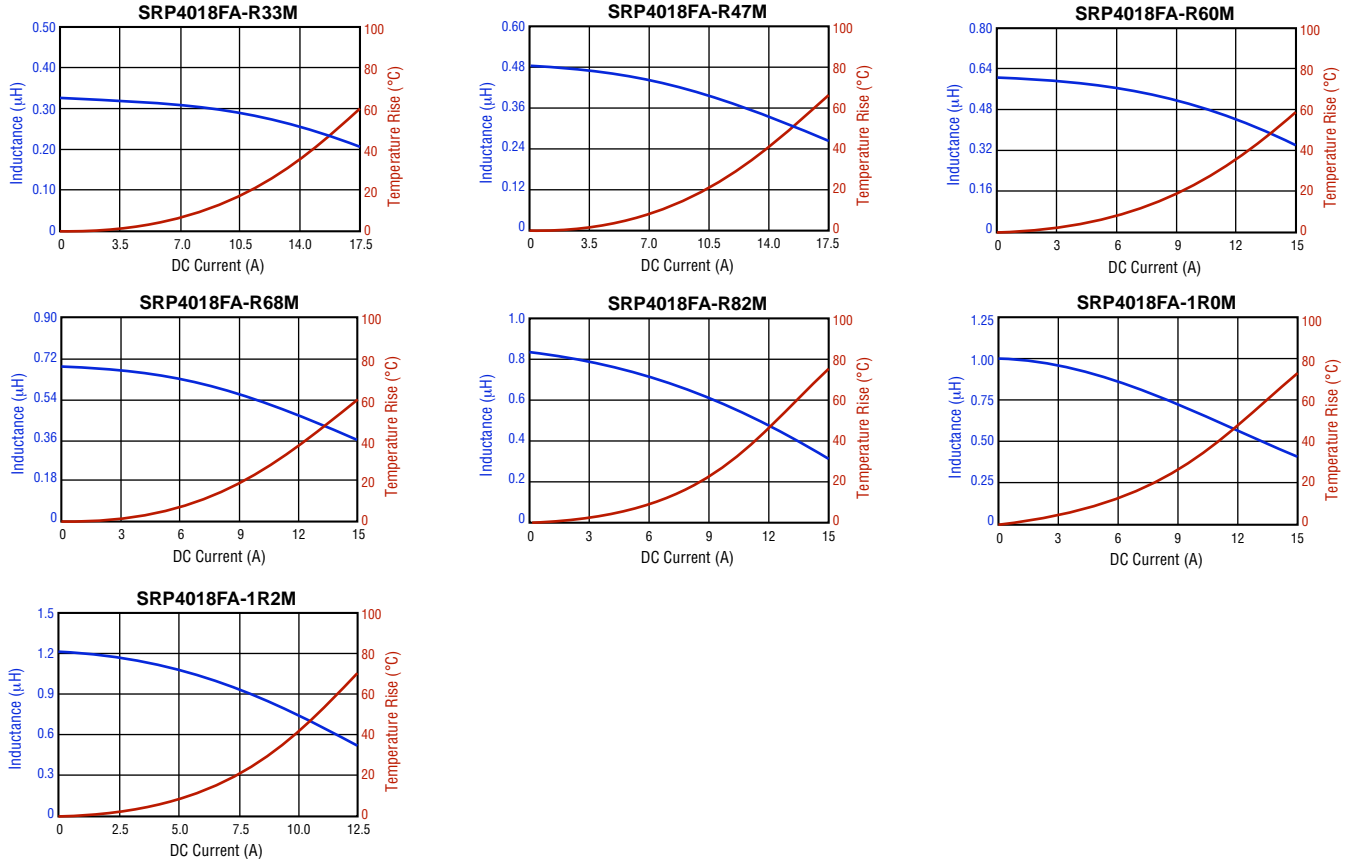
\* RoHS Directive 2015/863, Mar 31, 2015 and Annex.  
 \*\* Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less;  
 (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.  
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# SRP4018FA Series – Shielded Power Inductors **BOURNS®**

## Soldering Profile



## L vs. I Charts

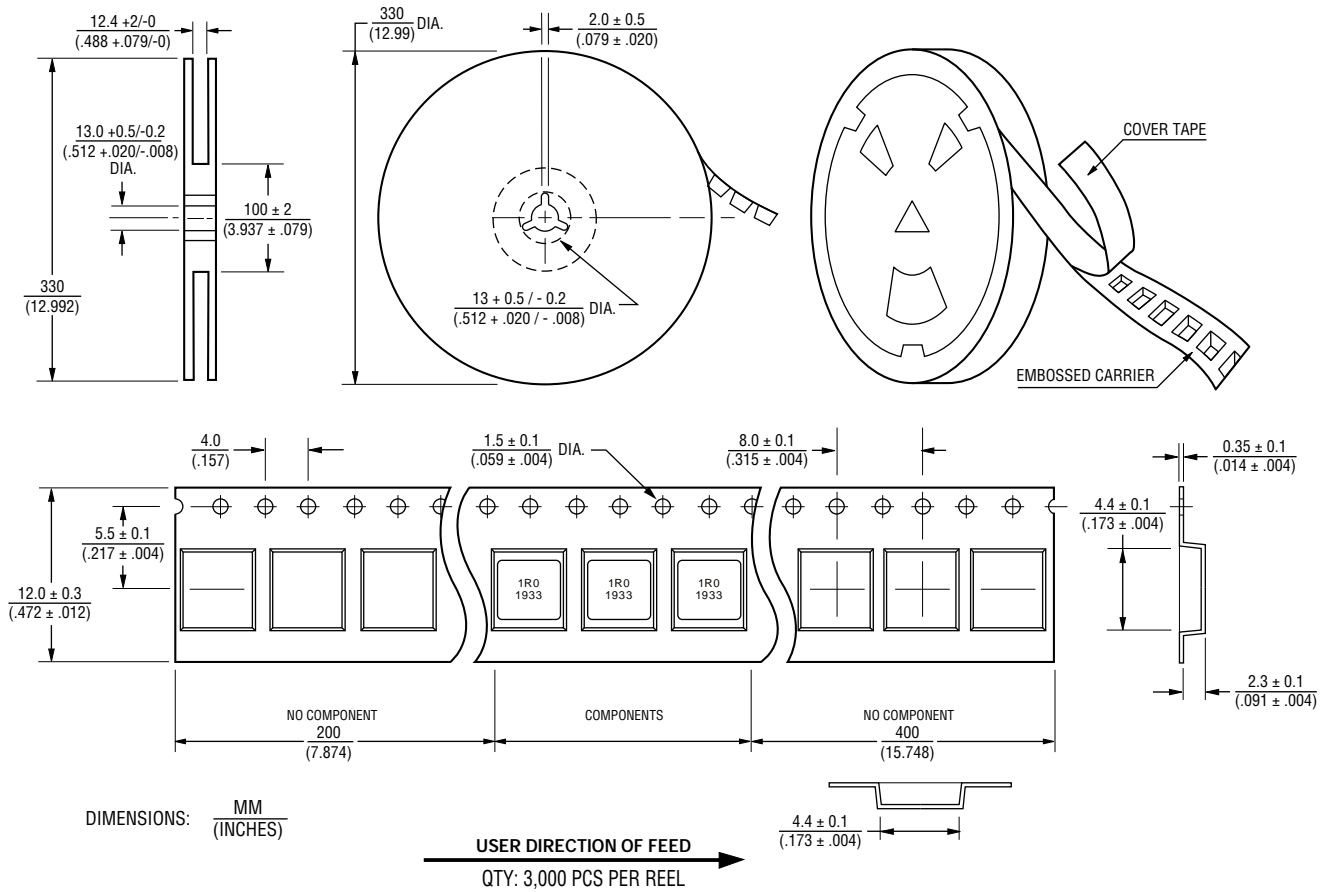


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## SRP4018FA Series – Shielded Power Inductors

**BOURNS®**

## Packaging Specifications

**BOURNS®**

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

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

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

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

03/20

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