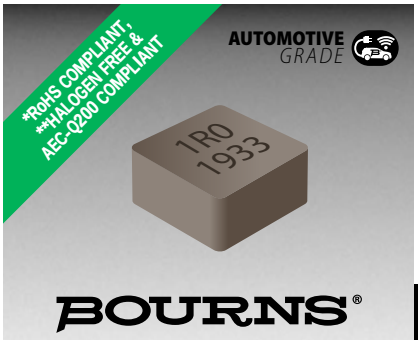


Features

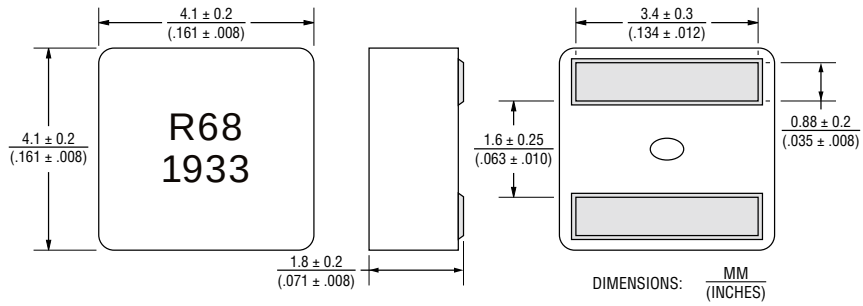
- Shielded construction
- Metal alloy powder core
- High saturation current
- Low buzz noise
- Flat wire
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRP4018FA Series – Shielded Power Inductors

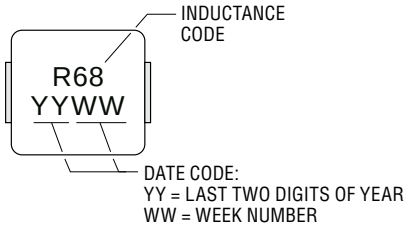
Electrical Specifications @ 25 °C

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

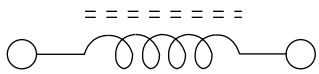
Product Dimensions



Typical Part Marking



Schematic



How to Order

SRP4018FA - 1R0M

Model

Value Code (see table)

Additional Information

Click these links for more information:

PRODUCT SELECTOR | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

General Specifications

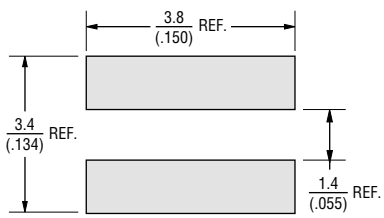
Operating Temperature
..... -55 °C to +155 °C
(Temperature rise included)
Storage Temperature (Component)
..... -55 °C to +155 °C
Rated Current
Inductance drops 10, 20 or 30 % at Isat
Temperature Rise
..... 20 or 40 °C at rated Irms[1]
MSL 1
ESD Classification (HBM)..... N/A

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.

Materials

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

Recommended Layout



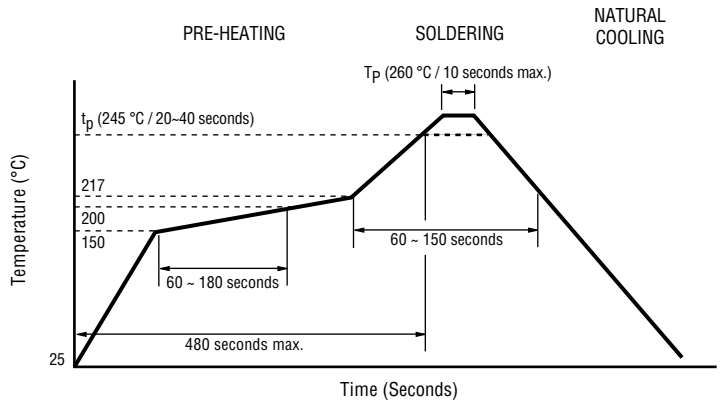
WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

* 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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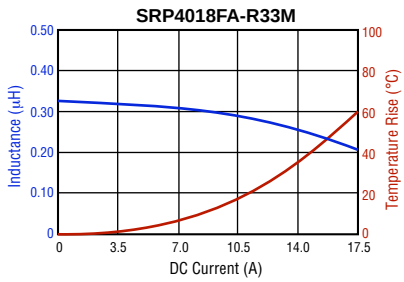
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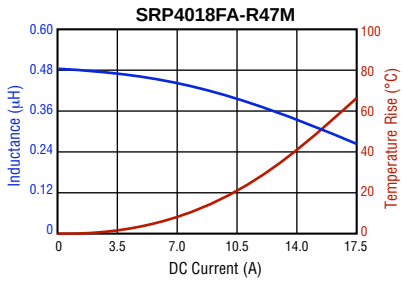
Soldering Profile

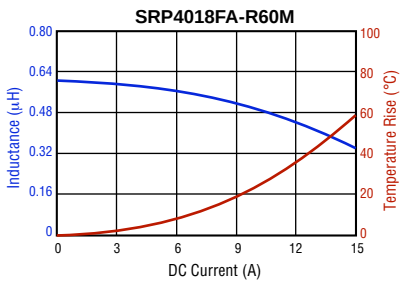


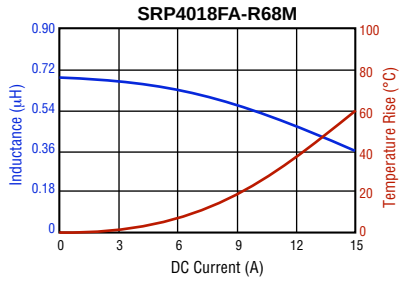
REFLOW TIMES: 3 MAX.

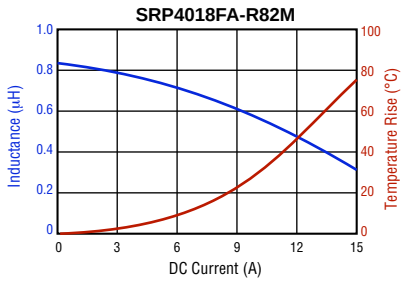
L vs. I Charts

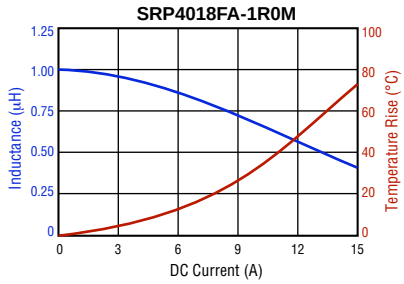


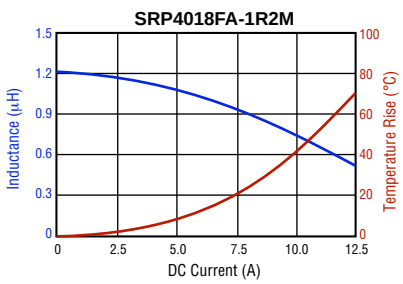








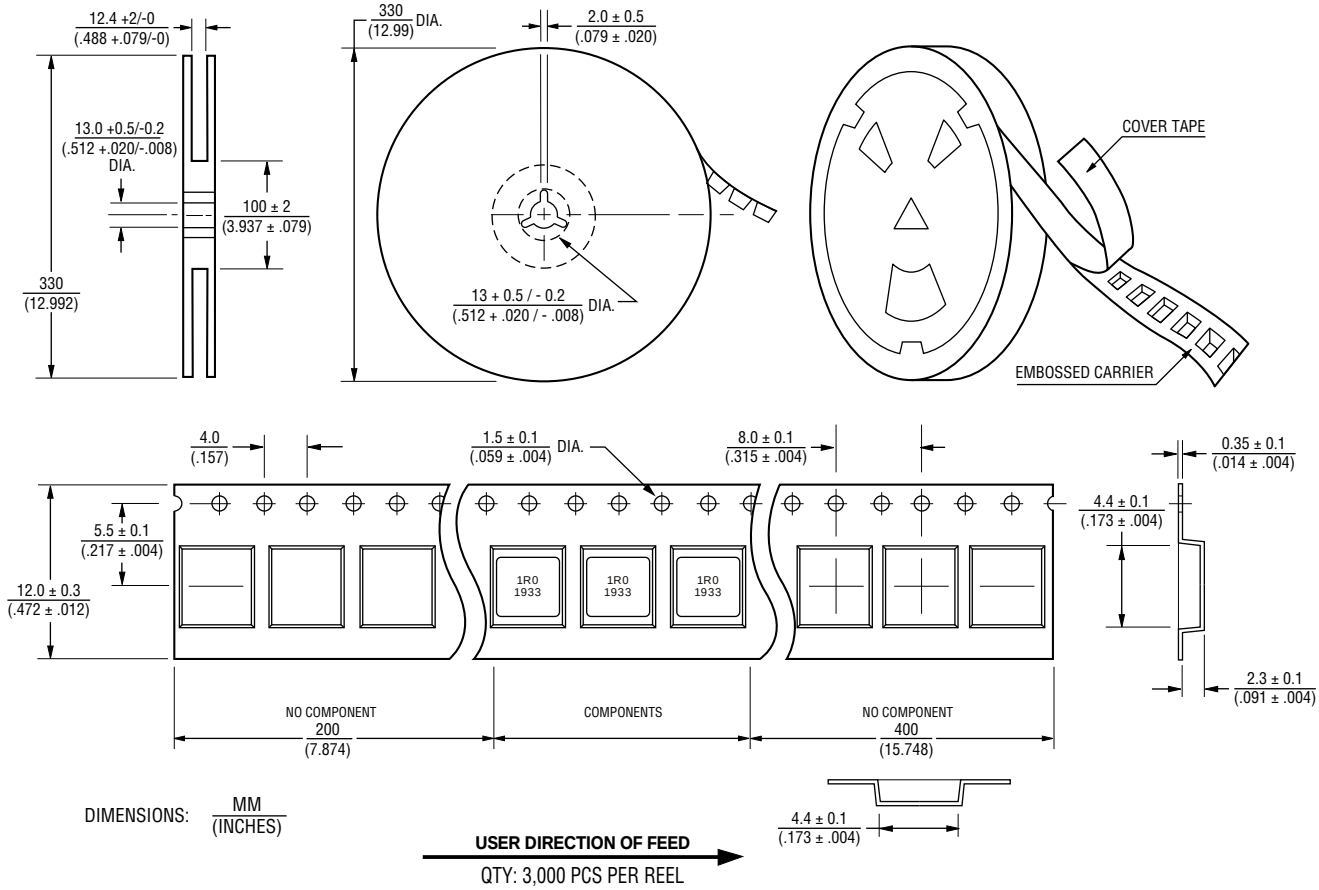




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Packaging Specifications



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Asia: Tel: +886-2-2562-4117 • Email: asiacus@bourns.com
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REV. 06/24

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