

Features

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

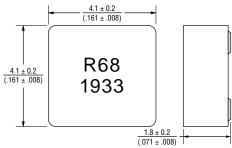
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SRP4018FA Series – Shielded Power Inductors

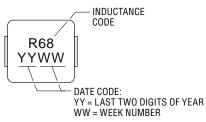
Electrical Specifications @ 25 °C

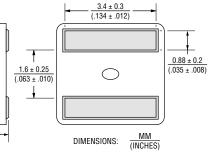
	Induc @ 100 kl	tance Hz / 0.1 V	Q Min.	SRF (MHz) Typ.	DCR (mΩ) Typ.	DCR (mΩ) Max.	l rms (A) Typ.		l sat (A) Typ.		
Bourns Part Number	L (µH)	Tol. %	@ 100 kHz				20 °C Temp. Rise	40 °C Temp. Rise	10 % L Drop	20 % L Drop	30 % L Drop
SRP4018FA-R33M	0.33	± 20 %	15	92	4.7	5.2	11	15	8.0	11.5	15
SRP4018FA-R47M	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)

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 (CI) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (CI) content is 1500 ppm or less. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

Additional Information

Click these links for more information:



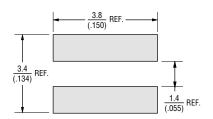
General Specifications

Operating Temperature

Materials

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

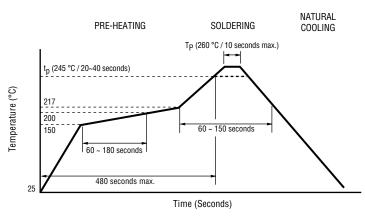
Recommended Layout



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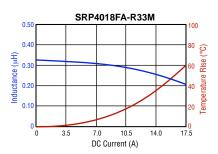
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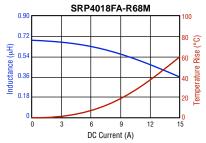
Soldering Profile

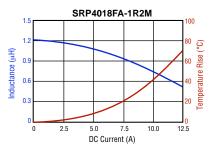




L vs. I Charts

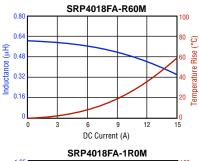


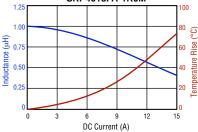












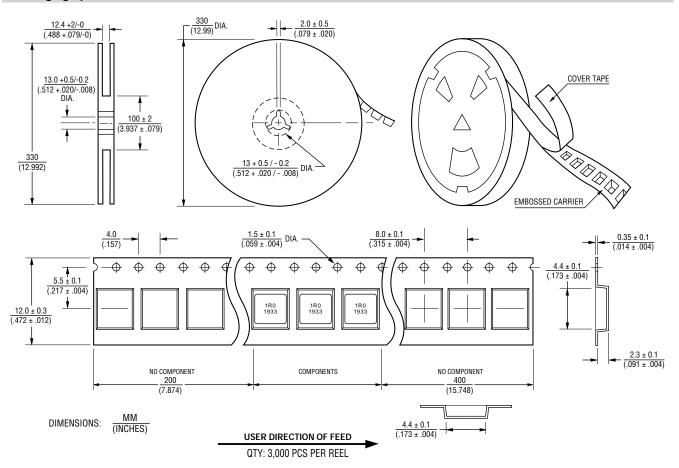
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Packaging Specifications



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REV. 06/24

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