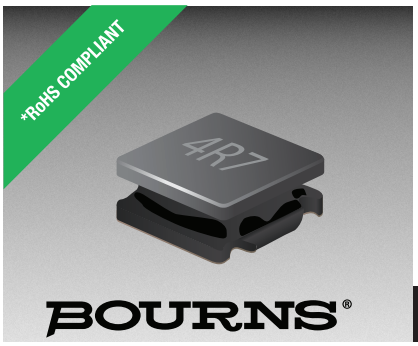


Features

- Semi-shielded construction
- Miniature size
- Low profile - 1.8 mm max.
- Inductance range: 0.82 to 220 µH
- High rated current - up to 4.0 A
- RoHS compliant* and halogen free**

Applications

- DC-DC converters
- Notebook computers
- Digital video cameras
- HDDs
- Cell phones
- Televisions, LCD displays

SRN4018 Series - Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 100 KHz/1 V		Q (Typ.)	Test Freq. (MHz)	SRF (MHz) Typ.	DCR (Ω) Max.	Irms (A)	Isat (A)
	L (µH)	Tol. %						
SRN4018-R82Y	0.82	30	13	7.96	100	0.019	4.0	4.2
SRN4018-1R0Y	1.0	30	15	7.96	90	0.023	3.7	4.7
SRN4018-1R2Y	1.2	30	12	7.96	80	0.025	3.5	4.0
SRN4018-1R5Y	1.5	30	13	7.96	70	0.032	3.1	3.5
SRN4018-2R2M	2.2	20	14	7.96	60	0.044	2.9	3.0
SRN4018-2R7M	2.7	20	13	7.96	52	0.052	2.3	2.4
SRN4018-3R3M	3.3	20	13	7.96	45	0.066	2.2	2.3
SRN4018-4R7M	4.7	20	12	7.96	35	0.084	1.9	2.0
SRN4018-6R8M	6.8	20	14	7.96	30	0.118	1.5	1.6
SRN4018-100M	10	20	16	2.52	25	0.180	1.3	1.4
SRN4018-150M	15	20	19	2.52	18	0.264	1.0	1.1
SRN4018-220M	22	20	16	2.52	15	0.348	0.9	0.95
SRN4018-330M	33	20	23	2.52	12	0.552	0.7	0.75
SRN4018-470M	47	20	17	2.52	10	0.780	0.6	0.62
SRN4018-680M	68	20	19	2.52	8	1.128	0.5	0.50
SRN4018-101M	100	20	33	0.796	6	1.596	0.42	0.45
SRN4018-151M	150	20	35	0.796	5	2.400	0.32	0.35
SRN4018-221M	220	20	44	0.796	3	3.552	0.28	0.30
SRN4018-331M	330	20	35	0.796	6	6.36	0.2	0.25

General Specifications

Operating Temperature
..... -40 °C to +125 °C
(Temperature rise included)
Storage Temperature (Component)
..... -40 °C to +125 °C
Temperature Rise .....40 °C at rated Irms
Rated Current
..... Inductance drops 30 % at Isat
Moisture Sensitivity Level..... 1
ESD Classification (HBM)..... N/A

Materials

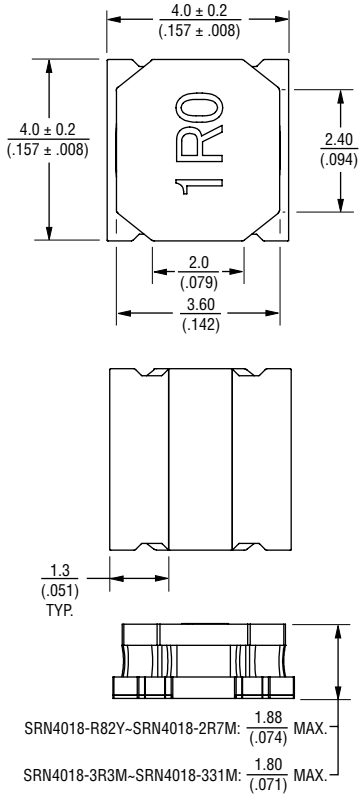
Core.....Ferrite
Wire .....Enameled copper
Terminal Finish .....Sn/Ag/Cu
Coating .....Magnetic epoxy resin
Packaging..... 3000 pcs. per 13-inch reel

How to Order

SRN4018 - 100M

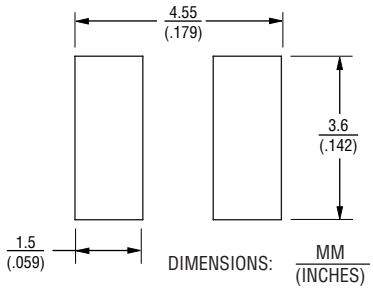
Model
Value Code (see table)

Product Dimensions



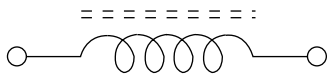
DIMENSIONS: MM (INCHES)

Recommended Layout



DIMENSIONS: MM (INCHES)

Electrical Schematic



Additional Information

Click these links for more information:

PRODUCT SELECTOR | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

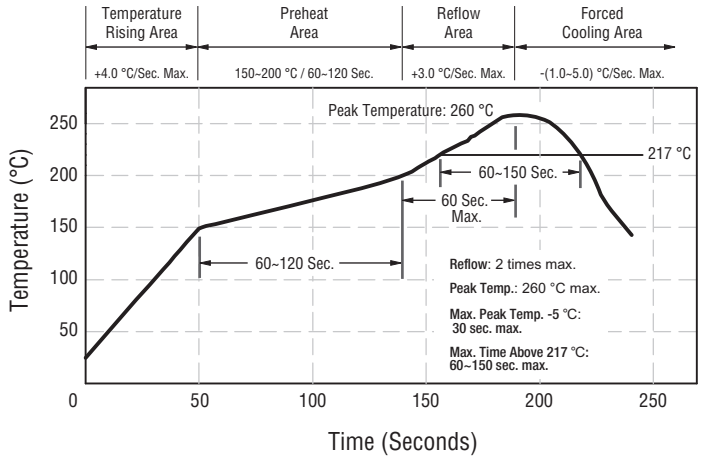
CALIFORNIA WARNING: Can expose you to lead, a carcinogen and reproductive toxicant. See www.P65Warnings.ca.gov

* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

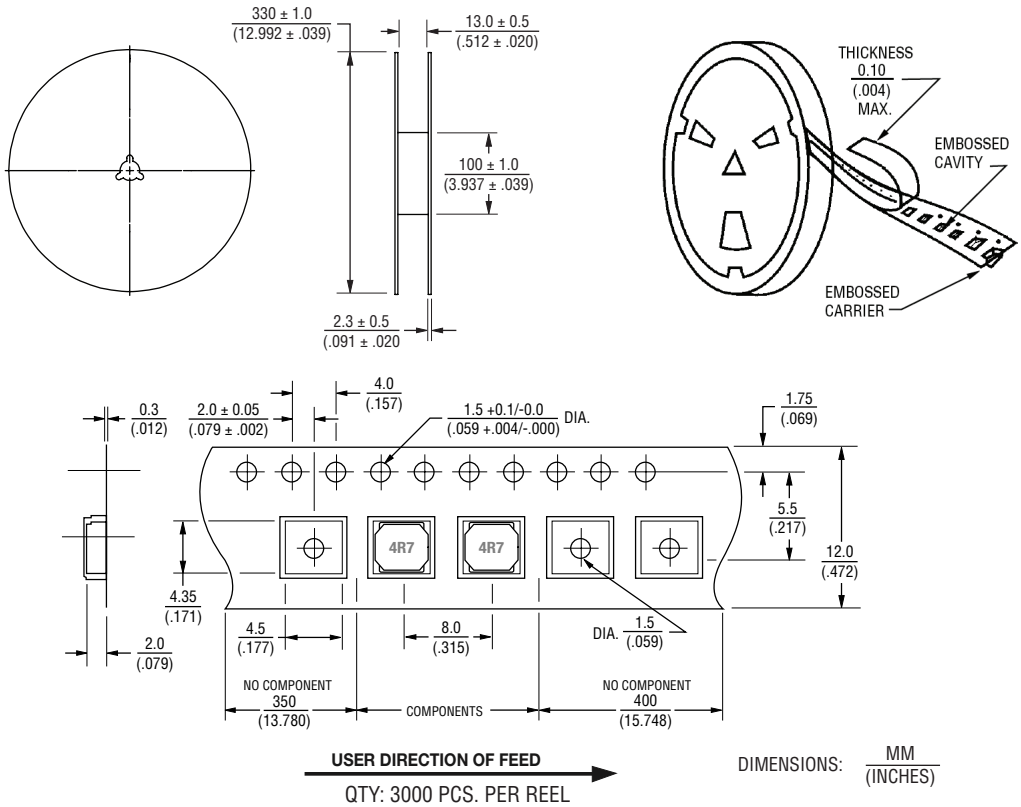
** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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Soldering Profile



Packaging Specifications



REV. 10/26

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