

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

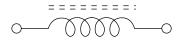
- DC/DC converters
- Notebook computers
- Digital video cameras
- HDDs
- Cell phones
- Televisions, LCD displays

SRN4018 Series - Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

	Inductance @ 100 KHz/1 V		Q	Test Freq.	SRF (MHz)	DCR (Ω)	Irms	Isat
Bourns Part No.	L (μH)	Tol. %	(Ref.)	(MHz)	`Typ.´	Max.	(A)	(A)
SRN4018-R82Y	0.82	30	9	7.96	100	0.019	4.0	4.7
SRN4018-1R0Y	1.0	30	9	7.96	90	0.023	3.7	4.2
SRN4018-1R2Y	1.2	30	9	7.96	80	0.025	3.5	4.0
SRN4018-1R5Y	1.5	30	9	7.96	70	0.032	3.1	3.5
SRN4018-2R2M	2.2	20	9	7.96	60	0.044	2.9	3.0
SRN4018-2R7M	2.7	20	9	7.96	52	0.052	2.3	2.4
SRN4018-3R3M	3.3	20	9	7.96	45	0.066	2.2	2.3
SRN4018-4R7M	4.7	20	9	7.96	35	0.084	1.9	2.0
SRN4018-6R8M	6.8	20	9	7.96	30	0.118	1.5	1.6
SRN4018-100M	10	20	11	2.52	25	0.180	1.3	1.4
SRN4018-150M	15	20	11	2.52	18	0.264	1.0	1.1
SRN4018-220M	22	20	11	2.52	15	0.348	0.9	0.95
SRN4018-330M	33	20	11	2.52	12	0.552	0.7	0.75
SRN4018-470M	47	20	11	2.52	10	0.780	0.6	0.62
SRN4018-680M	68	20	11	2.52	8	1.128	0.5	0.50
SRN4018-101M	100	20	23	0.796	6	1.596	0.42	0.45
SRN4018-151M	150	20	23	0.796	5	2.400	0.32	0.35
SRN4018-221M	220	20	30	0.796	3	3.552	0.28	0.30
SRN4018-331M	330	20	30	0.796	6	6.36	0.2	0.21

Electrical Schematic

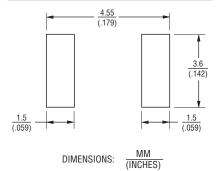


How to Order

SRN4018 - 100M

Value Code (see table)

Recommended Layout



Additional Information

Click these links for more information:











TECHNICAL LIBRARY

INVENTORY SAMPLES

CONTACT

General Specifications

Operating Temperature

-40 °C to +125 °C (Temperature rise included)

Storage Temperature (Component)-40 °C to +125 °C

Resistance to Solder Heat

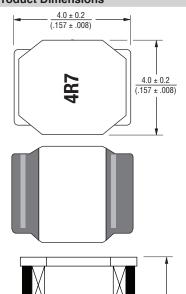
.....+260 °C for 10 sec. Temperature Rise40 °C at rated Irms Rated Current

..... Inductance drops 30 % at Isat Moisture Sensitivity Level.....1 ESD Classification (HBM).....N/A

Materials

Core.....Ferrite WireEnameled copper Terminal FinishSn/Ag/Cu Coating Magnetic epoxy resin Packaging..... 3000 pcs. per 13-inch reel

Product Dimensions



SRN4018-R82Y to -2R7M: $\frac{1.88}{(.074)}$ MAX.

SRN4018-3R3M to -331M: 1.80 MAX.



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

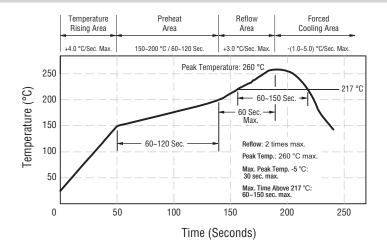
- RoHS Directive 2015/863, Mar 31, 2015 and Annex.
- ** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (CI) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (CI) content is 1500 ppm or less.

Specifications are subject to change without notice.

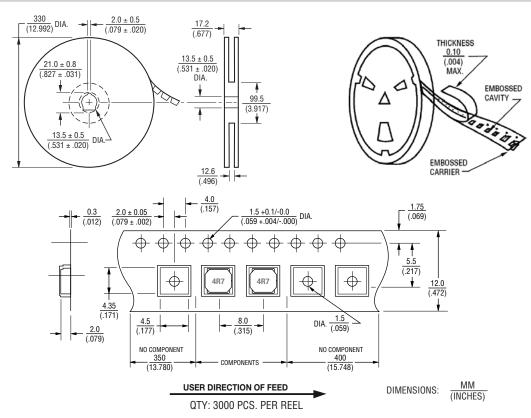
Users should verify actual device performance in their specific applications.

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Soldering Profile



Packaging Specifications



REV. 01/22

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