

Features

- Semi-shielded construction
- Inductance range: 1 to 220 μ H
- Rated current up to 3.7 A
- AEC-Q200 qualified
- RoHS compliant* and halogen free*

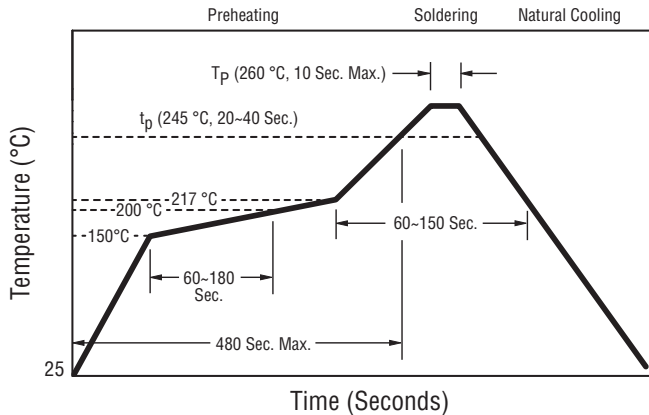
This series is currently available but not recommended for new designs. A possible alternative is the [Model SRN4018BTA](#).

SRN4018TA Series - Semi-shielded Power Inductors

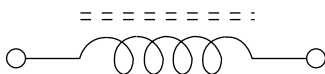
Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 100 kHz / 1 V		SRF (MHz) Typ.	DCR (Ω) ± 20 %	I _{rms} (A) Typ.	I _{sat} (A) Typ.
	L (μ H)	Tol. %				
SRN4018TA-1R0M	1.0	± 20	160	0.027	3.7	4
SRN4018TA-1R2M	1.2	± 20	150	0.028	3.5	3.6
SRN4018TA-1R5M	1.5	± 20	110	0.032	3.3	3.3
SRN4018TA-2R2M	2.2	± 20	70	0.042	2.9	3
SRN4018TA-3R3M	3.3	± 20	60	0.055	2.3	2.3
SRN4018TA-4R7M	4.7	± 20	50	0.07	2	2
SRN4018TA-6R8M	6.8	± 20	40	0.098	1.7	1.7
SRN4018TA-100M	10	± 20	35	0.15	1.5	1.5
SRN4018TA-150M	15	± 20	25	0.19	1.1	1.1
SRN4018TA-220M	22	± 20	20	0.29	0.9	0.9
SRN4018TA-330M	33	± 20	12	0.405	0.75	0.75
SRN4018TA-470M	47	± 20	10	0.55	0.6	0.6
SRN4018TA-680M	68	± 20	10	0.89	0.55	0.55
SRN4018TA-101M	100	± 20	8	1.38	0.45	0.45
SRN4018TA-151M	150	± 20	5	1.97	0.35	0.35
SRN4018TA-221M	220	± 20	5	3	0.3	0.3

Soldering Profile



Electrical Schematic



How to Order

SRN4018TA - 100M

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 (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) 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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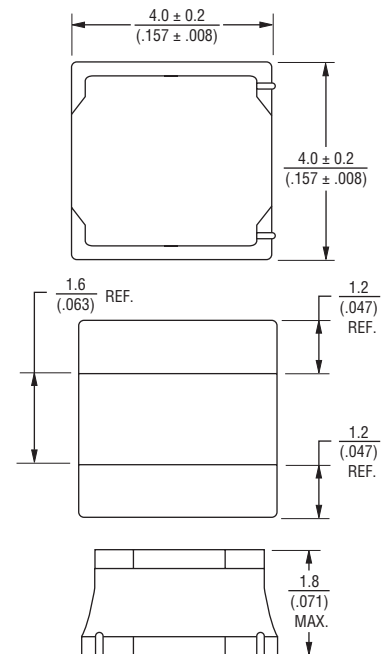
General Specifications

Operating Temperature -55 °C to +125 °C
(Temperature rise included)
Storage Temperature .. -55 °C to +125 °C
Temperature Rise 40 °C at rated I_{rms}
Rated Current
..... Inductance drops 30 % at I_{sat}
Failure In Time (FIT) 24.7/10⁹ hours
Mean Time Between Failures (MTBF)
..... 40.4 x 10⁶ hours

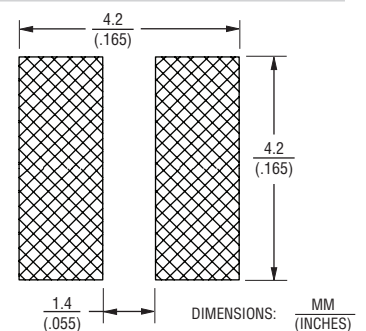
Materials

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

Product Dimensions



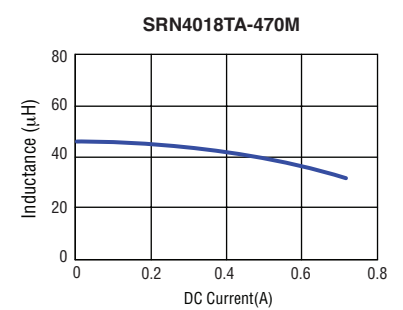
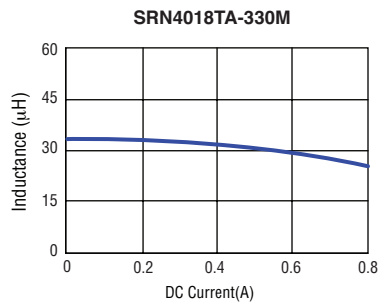
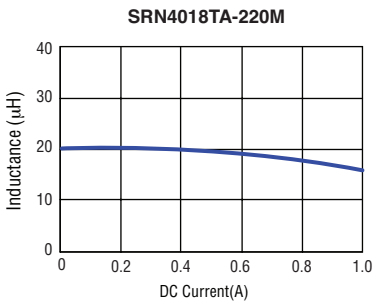
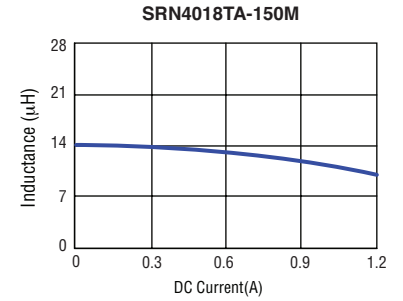
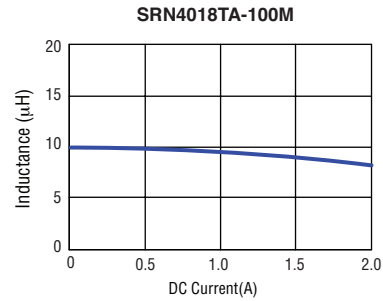
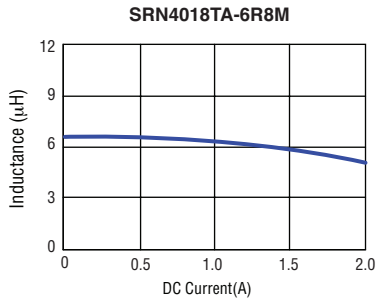
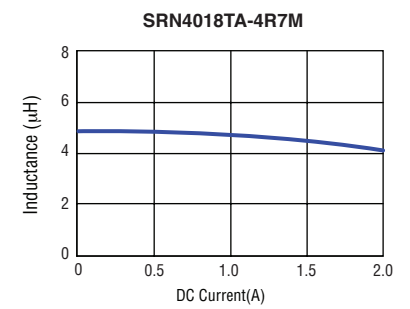
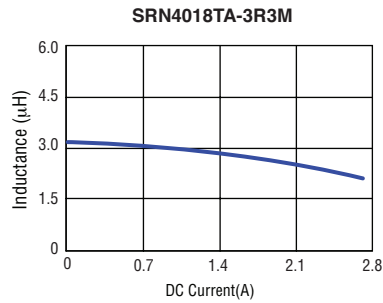
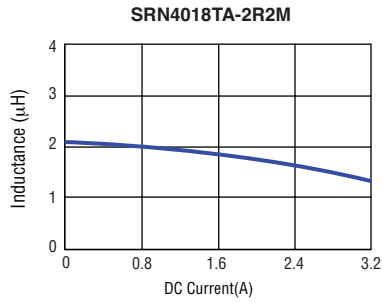
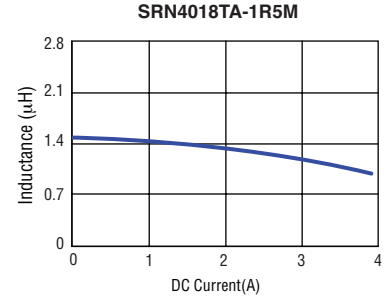
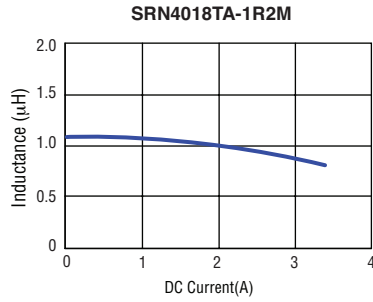
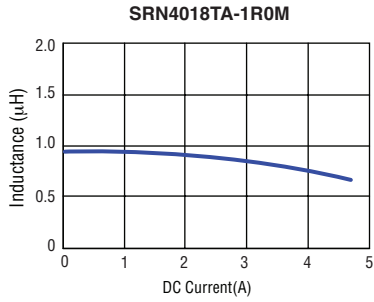
Recommended Layout



SRN4018TA Series - Semi-shielded Power Inductors

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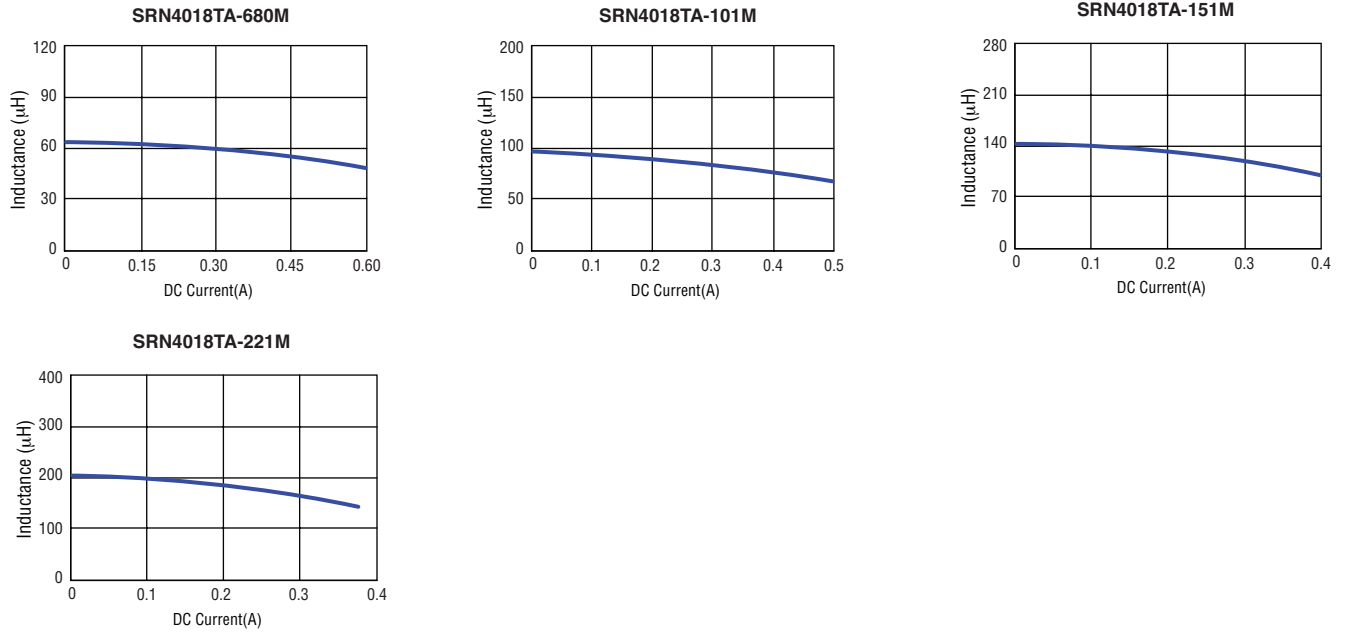
Inductance vs. Current



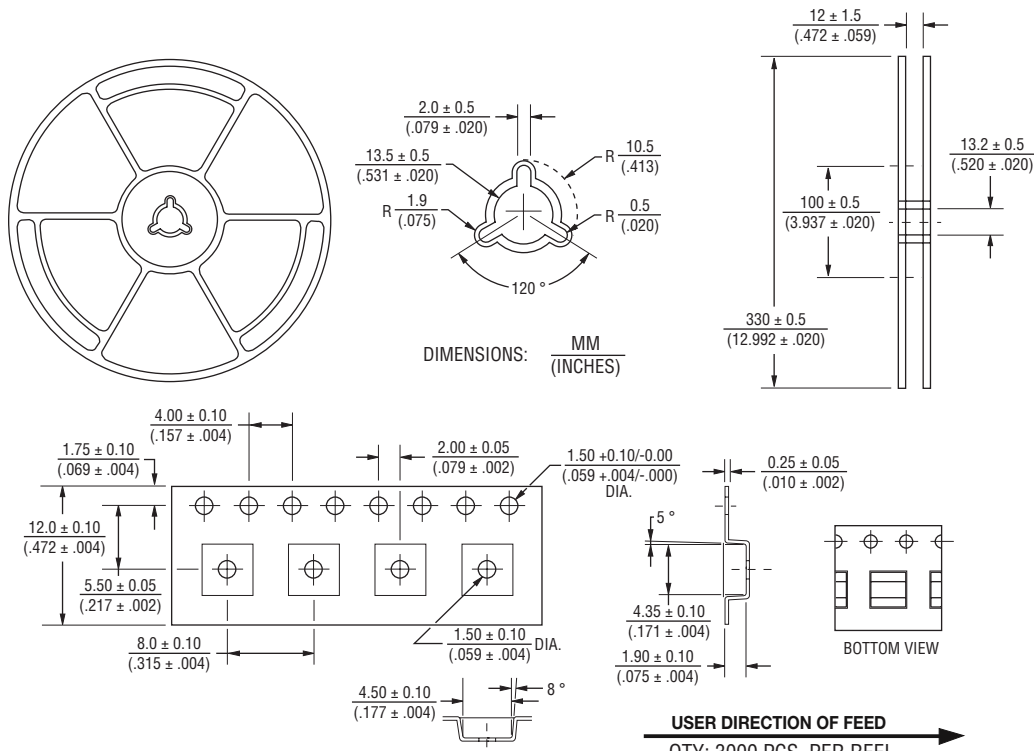
SRN4018TA Series - Semi-shielded Power Inductors

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Inductance vs. Current



Packaging Specifications



REV. 07/22

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