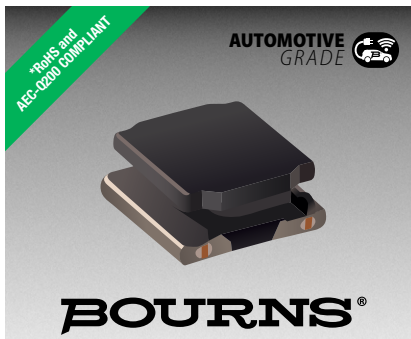




Features

- 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*



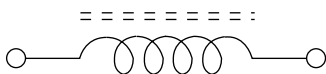
This series is currently available but not recommended for new designs. A possible alternative is the [Model SRN4018BTA](#).

SRN4018TA Series – Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 100 kHz / 1 V		SRF (MHz) Typ.	DCR (Ω) ± 20 %	Irms (A) Typ.	Isat (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

Electrical Schematic

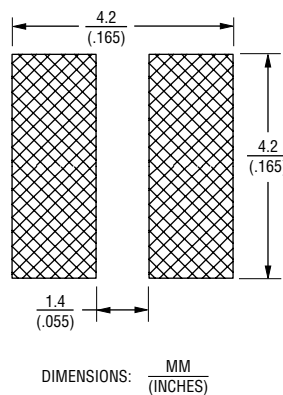


How to Order

SRN4018TA - 100M

Model _____
Value Code (see table) _____

Recommended Layout



Additional Information

Click these links for more information:



[PRODUCT
SELECTOR](#)



[TECHNICAL
LIBRARY](#)



[INVENTORY](#)



[SAMPLES](#)



[CONTACT](#)

General Specifications

Operating Temperature

..... -55 °C to +125 °C
(Temperature rise included)

Storage Temperature ... -55 °C to +125 °C

Temperature Rise40 °C at rated Irms
Rated Current

..... Inductance drops 30 % at Isat

Failure In Time (FIT)24.7/10⁹ hours

Mean Time Between Failures (MTBF)

.....40.4 x 10⁶ hours

Materials

Core Ferrite

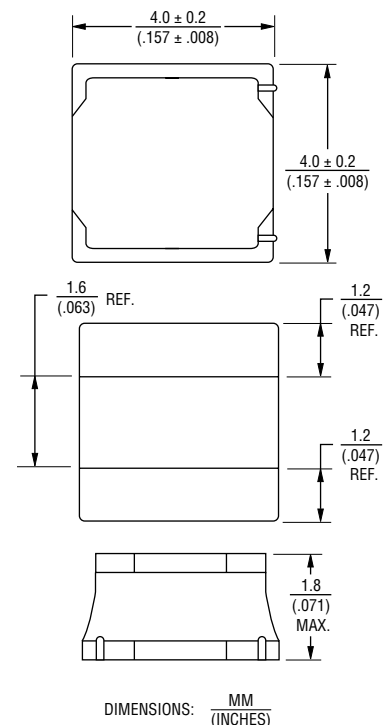
Wire Enameled copper

Terminal Finish Sn

Coating Magnetic epoxy resin

Packaging 3000 pcs. per 13-inch reel

Product Dimensions



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.

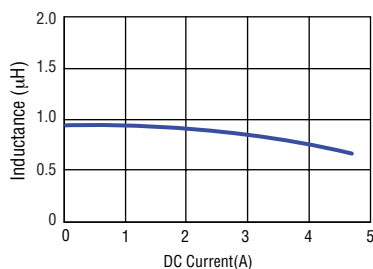
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SRN4018TA Series – Semi-shielded Power Inductors

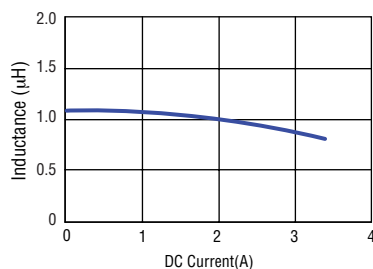
BOURNS®

Inductance vs. Current

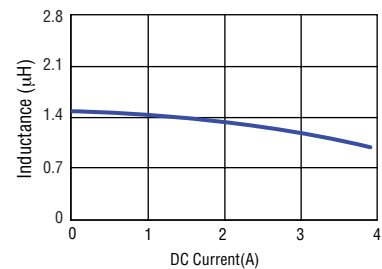
SRN4018TA-1R0M



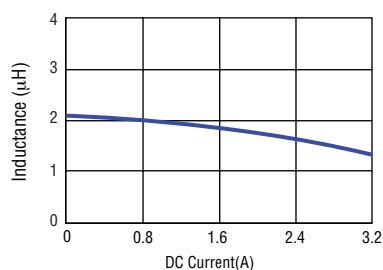
SRN4018TA-1R2M



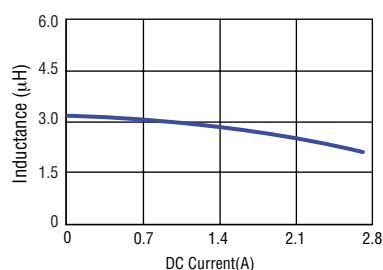
SRN4018TA-1R5M



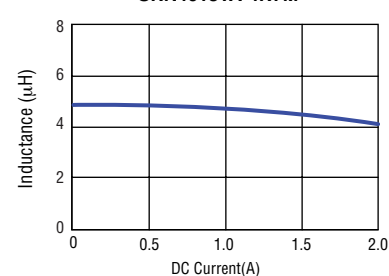
SRN4018TA-2R2M



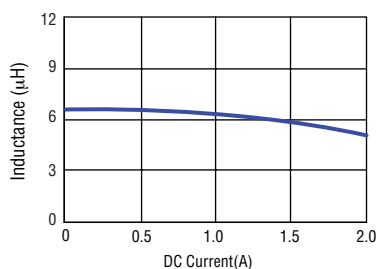
SRN4018TA-3R3M



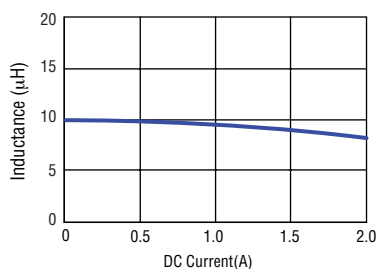
SRN4018TA-4R7M



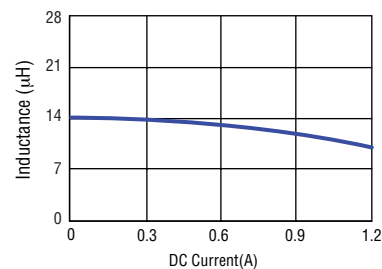
SRN4018TA-6R8M



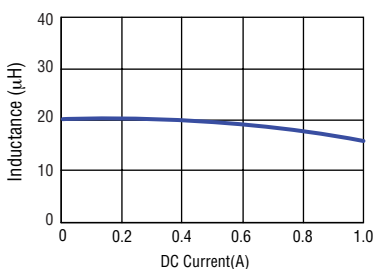
SRN4018TA-100M



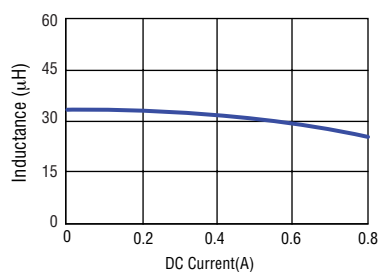
SRN4018TA-150M



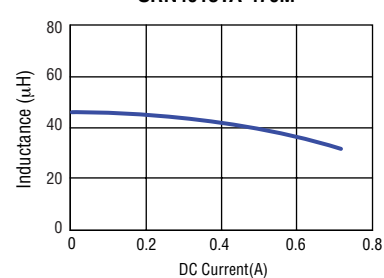
SRN4018TA-220M



SRN4018TA-330M



SRN4018TA-470M



Specifications are subject to change without notice.

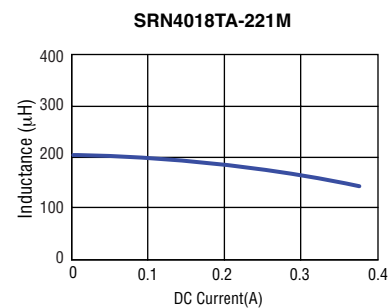
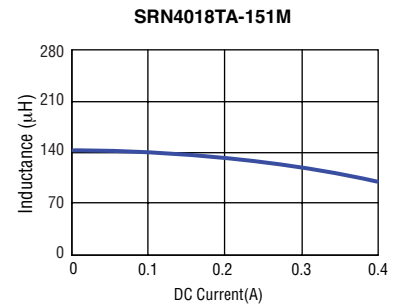
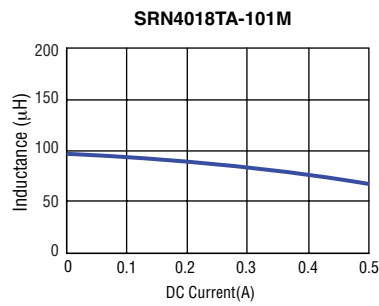
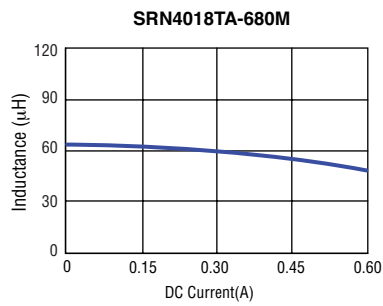
Users should verify actual device performance in their specific applications.

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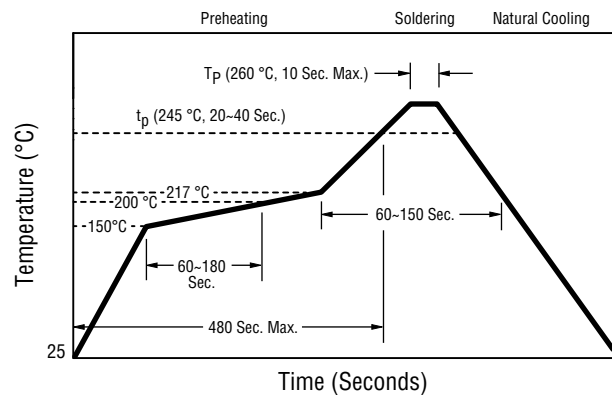
SRN4018TA Series – Semi-shielded Power Inductors

BOURNS®

Inductance vs. Current (continued)



Soldering Profile



Specifications are subject to change without notice.

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Technical drawing of a reel, showing dimensions in MM (INCHES).

Top View Dimensions:

- Overall width: 12.0 ± 0.10 (0.472 $\pm$.004)
- Overall height: 12.0 ± 0.10 (0.472 $\pm$.004)
- Central hub width: 4.00 ± 0.10 (0.157 $\pm$.004)
- Central hub height: 1.75 ± 0.10 (0.069 $\pm$.004)
- Central hub inner diameter: 5.50 ± 0.05 (0.217 $\pm$.002)
- Central hub outer diameter: 8.0 ± 0.10 (0.315 $\pm$.004)
- Spoke width: 2.00 ± 0.05 (0.079 $\pm$.002)
- Spoke height: 1.50 ± 0.10 (0.059 $\pm$.004) DIA.
- Spoke inner radius: $R 10.5$ (0.413)
- Spoke outer radius: $R 0.5$ (0.020)
- Spoke angle: 120°

Side View Dimensions:

- Overall thickness: 12 ± 1.5 (0.472 $\pm$.059)
- Central hub thickness: 100 ± 0.5 (3.937 $\pm$.020)
- Central hub outer diameter: 330 ± 0.5 (12.992 $\pm$.020)
- Central hub inner diameter: 13.2 ± 0.5 (0.520 $\pm$.020)

Bottom View Dimensions:

- Overall width: 12.0 ± 0.10 (0.472 $\pm$.004)
- Overall height: 12.0 ± 0.10 (0.472 $\pm$.004)
- Central hub width: 4.00 ± 0.10 (0.157 $\pm$.004)
- Central hub height: 1.75 ± 0.10 (0.069 $\pm$.004)
- Central hub inner diameter: 5.50 ± 0.05 (0.217 $\pm$.002)
- Central hub outer diameter: 8.0 ± 0.10 (0.315 $\pm$.004)
- Spoke width: 2.00 ± 0.05 (0.079 $\pm$.002)
- Spoke height: 1.50 ± 0.10 (0.059 $\pm$.004) DIA.
- Spoke inner radius: $R 10.5$ (0.413)
- Spoke outer radius: $R 0.5$ (0.020)
- Spoke angle: 120°

Notes:

- USER DIRECTION OF FEED
- QTY: 3000 PCS. PER REEL

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