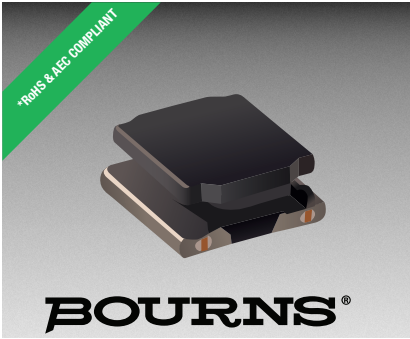





**THE DATASHEET OF
SRN4018TA-1R5M**





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*

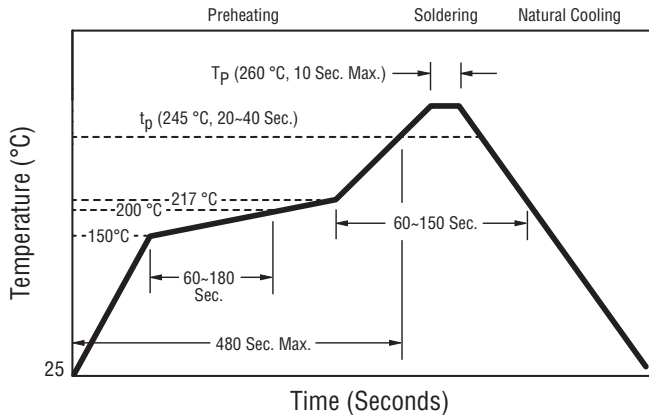
 This series is currently available but not recommended for new designs. A possible alternative is the [Model SRN4018BTA](#).

SRN4018TA Series - Semi-shielded Power Inductors

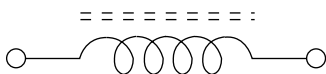
Electrical Specifications @ 25 °C

| 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. 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.

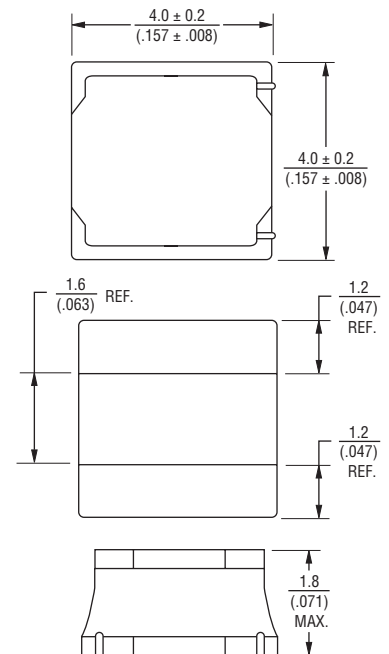
General Specifications

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

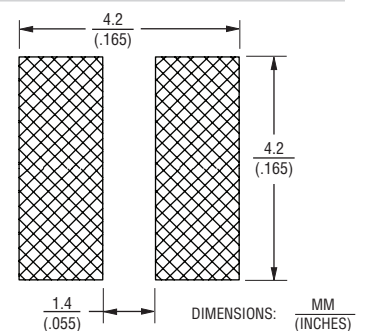
Materials

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

Product Dimensions



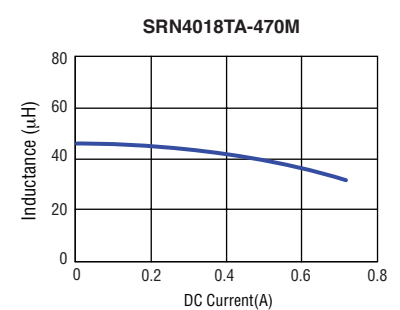
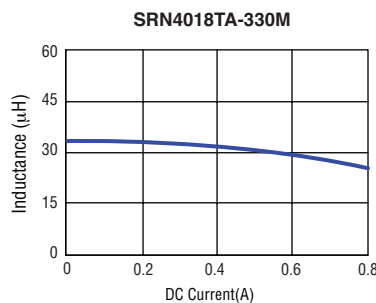
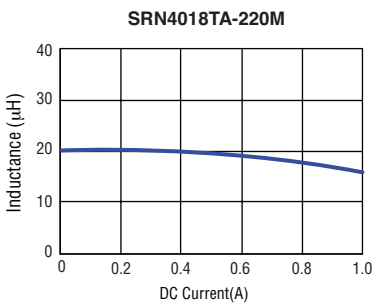
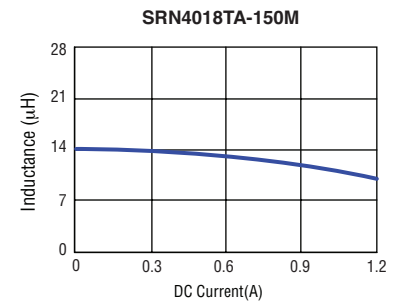
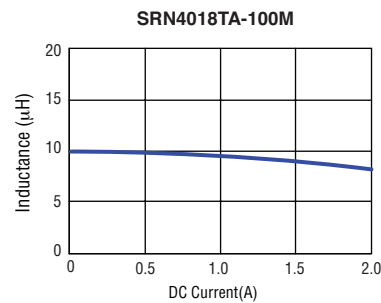
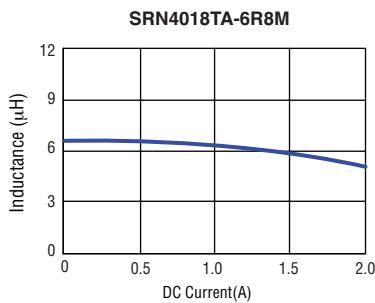
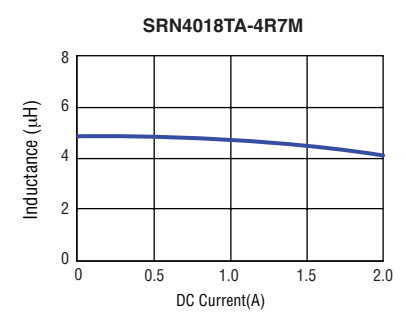
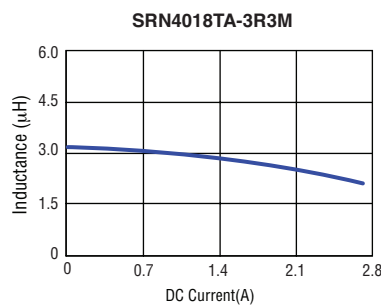
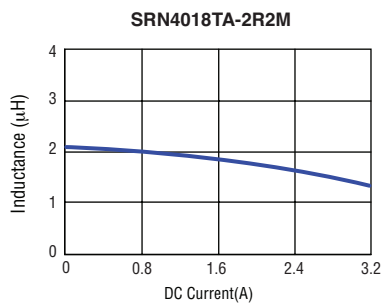
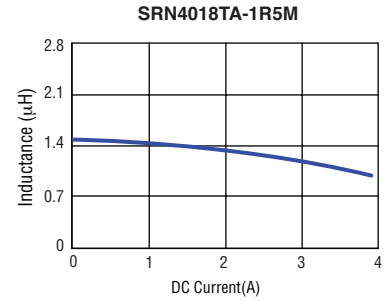
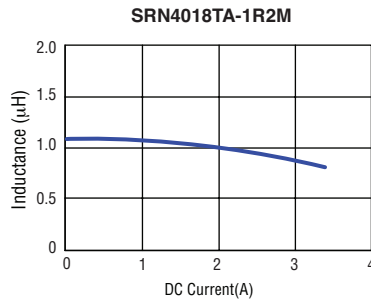
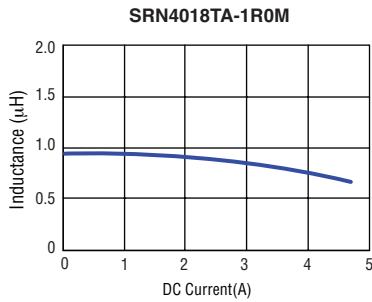
Recommended Layout



SRN4018TA Series - Semi-shielded Power Inductors



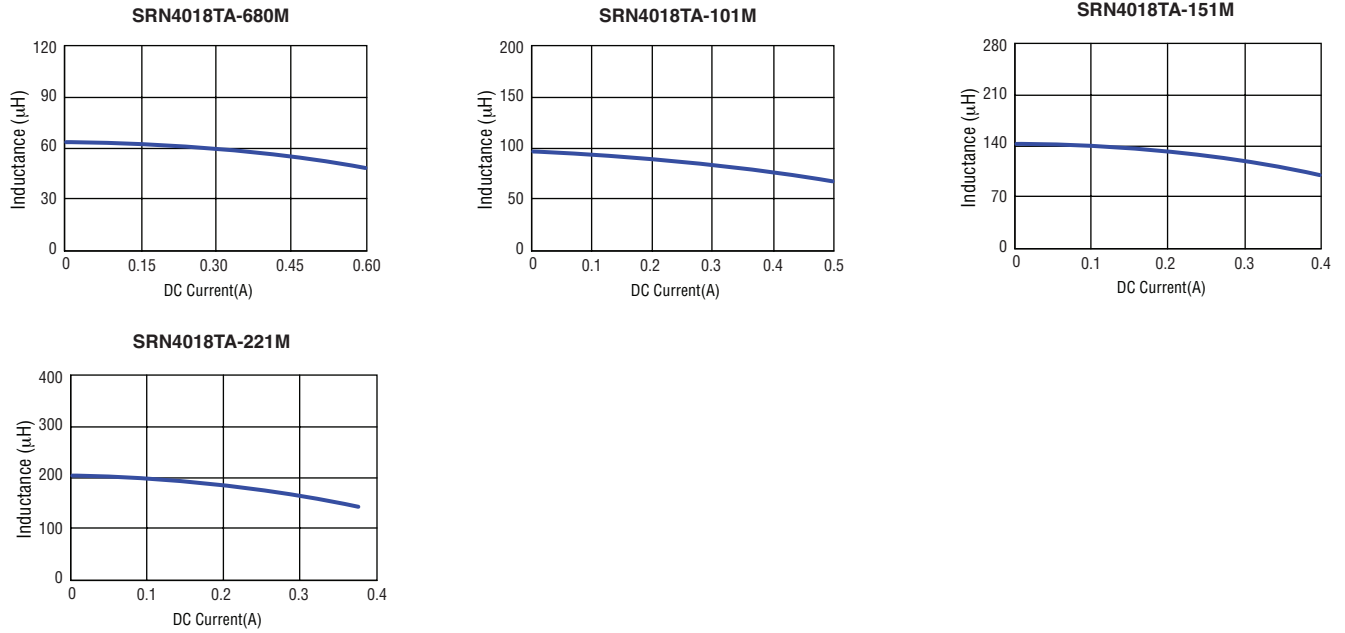
Inductance vs. Current



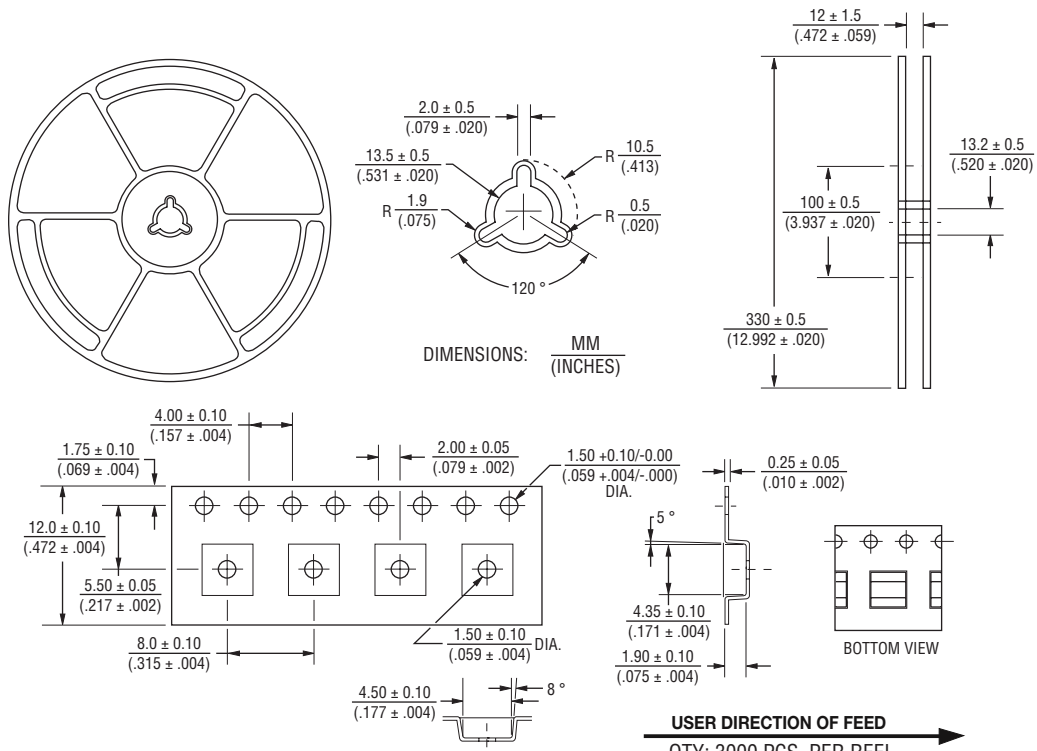
SRN4018TA Series - Semi-shielded Power Inductors

BOURNS®

Inductance vs. Current



Packaging Specifications



REV. 07/22

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