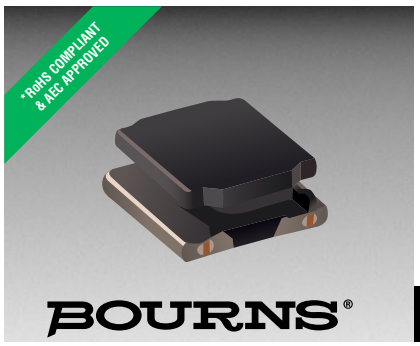
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Features

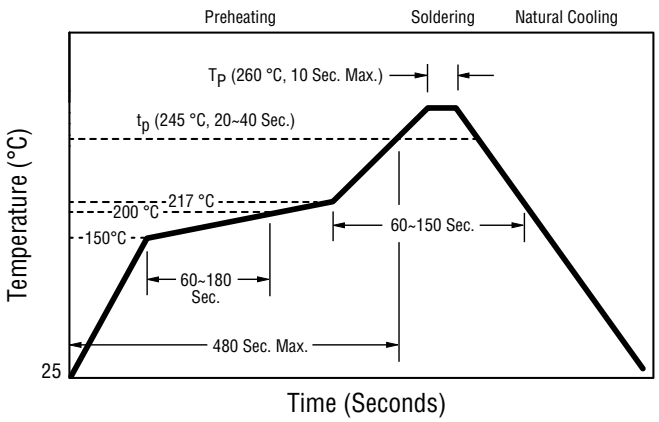
- Semi-shielded construction
- Inductance range: 1 to 220 µH
- Rated current up to 3.7 A
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

SRN4018TA Series - Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

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



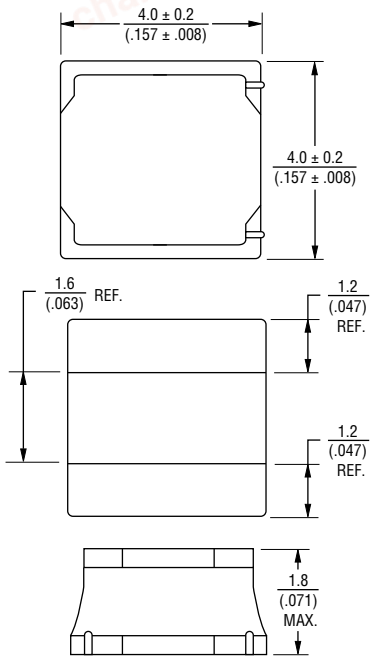
General Specifications

Operating Temperature
..... -55 °C to +125 °C
(Temperature rise included)
Storage Temperature .. -55 °C to +125 °C
Temperature Rise .....40 °C at rated Irms
Rated Current
..... Inductance drops 30 % at Isat
Failure In Time (FIT) .....24.7/10^9 hours
Mean Time Between Failures (MTBF)
.....40.4 x 10^6 hours

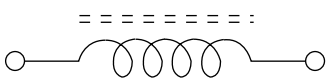
Materials

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

Product Dimensions



Electrical Schematic



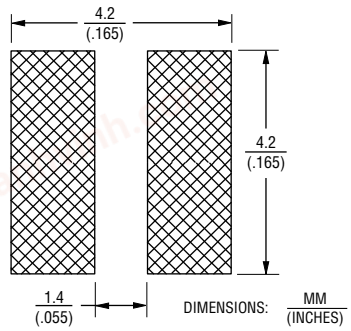
How to Order

SRN4018TA - 100M

Model

Value Code (see table)

Recommended Layout



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

* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

** 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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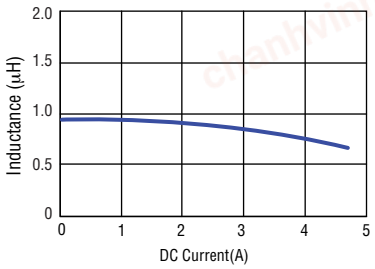
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SRN4018TA Series - Semi-shielded Power Inductors

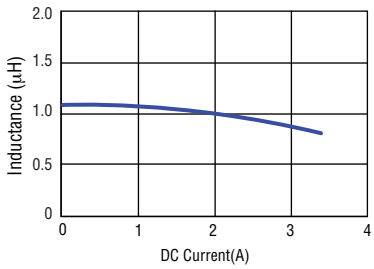
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Inductance vs. Current

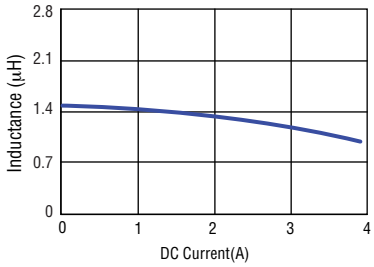
SRN4018TA-1R0M



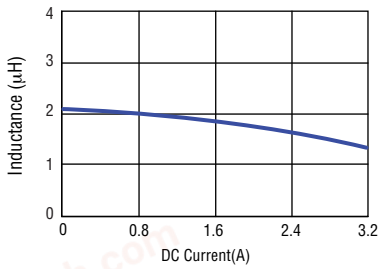
SRN4018TA-1R2M



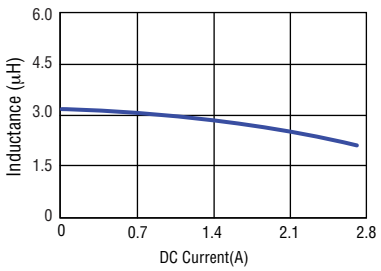
SRN4018TA-1R5M



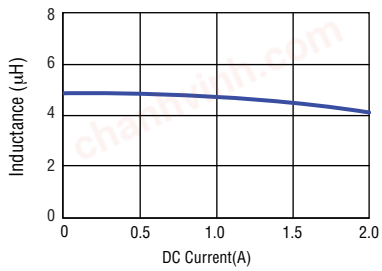
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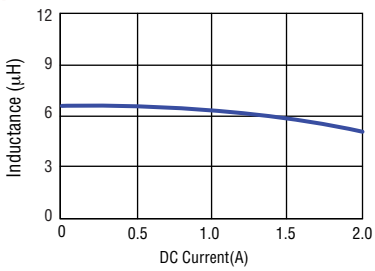
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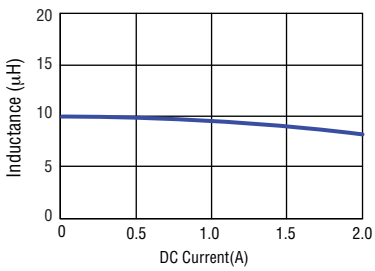
SRN4018TA-4R7M



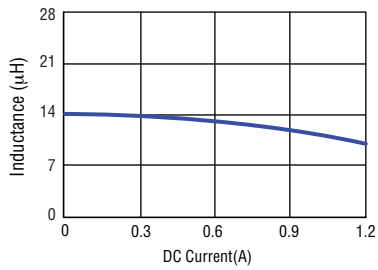
SRN4018TA-6R8M



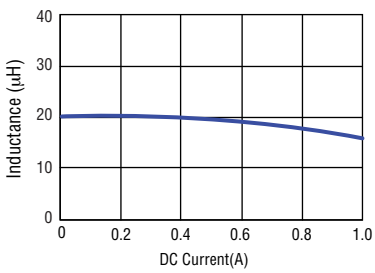
SRN4018TA-100M



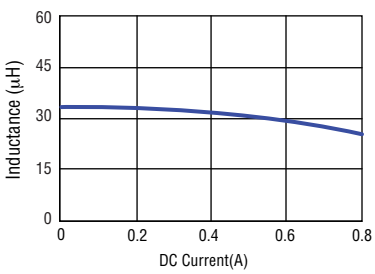
SRN4018TA-150M



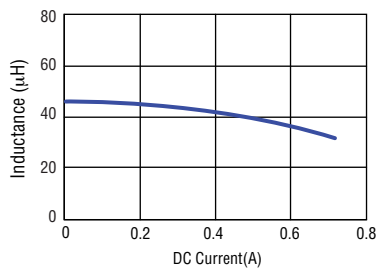
SRN4018TA-220M



SRN4018TA-330M



SRN4018TA-470M



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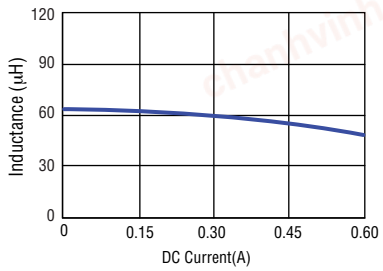
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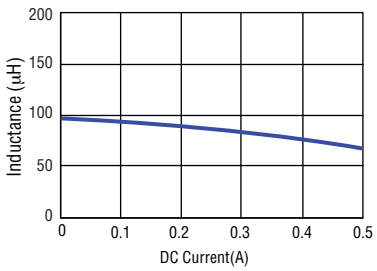
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Inductance vs. Current

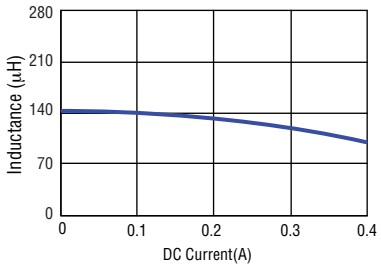
SRN4018TA-680M



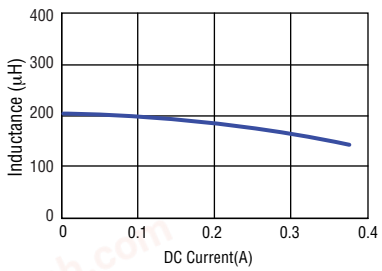
SRN4018TA-101M



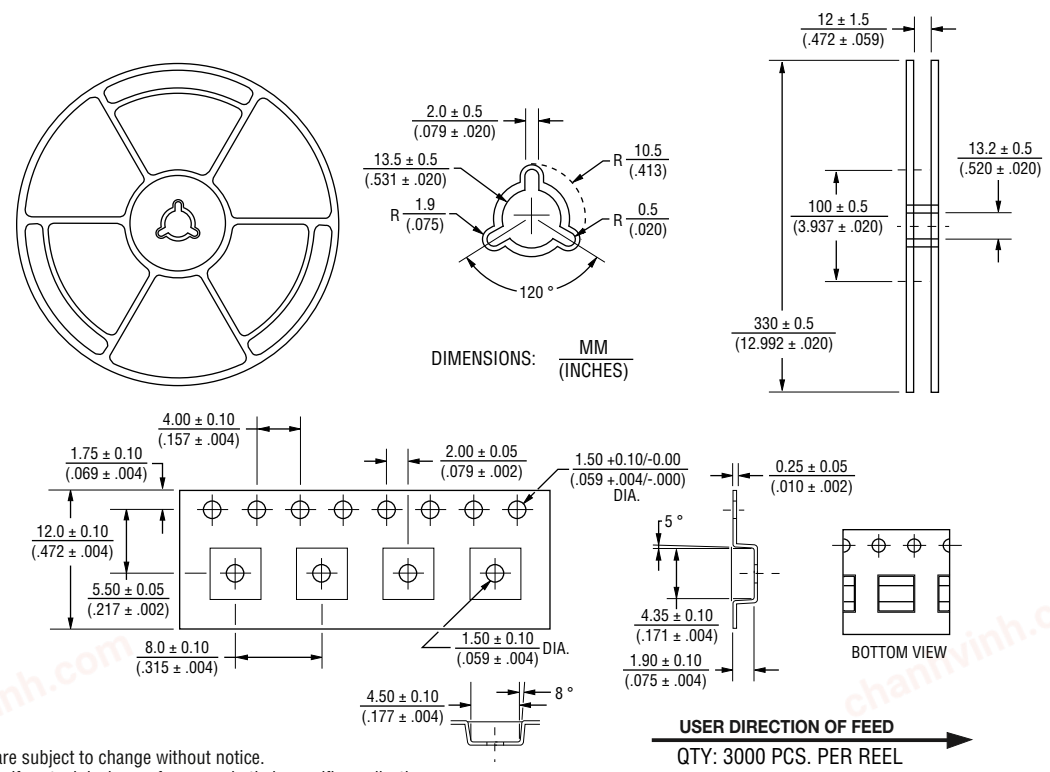
SRN4018TA-151M



SRN4018TA-221M



Packaging Specifications



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