

#### **Features**

- Semi-shielded construction
- Inductance range: 1 to 47 µH
- Rated current up to 2.2 A
- AEC-Q200 compliant
- RoHS compliant\* and halogen free\*\*

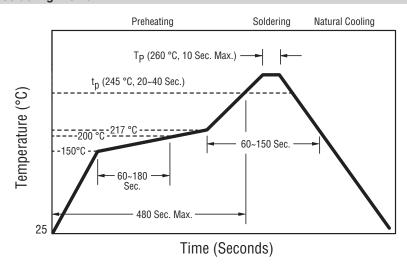
This series is currently available but not recommended for new designs. Contact Bourns for alternative product information.

# **SRN3015TA Series - Semi-shielded Power Inductors**

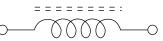
#### Electrical Specifications @ 25 °C

	Inductance @ 100 kHz / 0.1 V		Q (Min.)	SRF (MHz)	DCR (Ω)	Irms	Isat
Bourns Part No.	<b>L (μH)</b>	Tol. %	@ 100 kHz	Typ.	±20 %	(A)	(A)
SRN3015TA-1R0Y	1.0	±30	12	100	0.03	2.2	2.2
SRN3015TA-1R5Y	1.5	±30	12	87	0.04	2	2
SRN3015TA-2R2M	2.2	±20	12	64	0.06	1.7	1.7
SRN3015TA-3R3M	3.3	±20	12	49	0.08	1.4	1.4
SRN3015TA-4R7M	4.7	±20	12	40	0.12	1.2	1.2
SRN3015TA-6R8M	6.8	±20	12	36	0.16	1	1
SRN3015TA-100M	10	±20	12	28	0.22	0.8	0.75
SRN3015TA-150M	15	±20	12	23	0.32	0.7	0.65
SRN3015TA-180M	18	±20	12	21	0.41	0.65	0.6
SRN3015TA-220M	22	±20	12	20	0.46	0.6	0.55
SRN3015TA-330M	33	±20	12	18	0.8	0.45	0.4
SRN3015TA-470M	47	±20	12	17	1.2	0.4	0.35

#### **Soldering Profile**



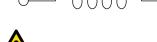
#### **Electrical Schematic**



#### How to Order

Value Code (see table)

SRN3015TA - 100M



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**

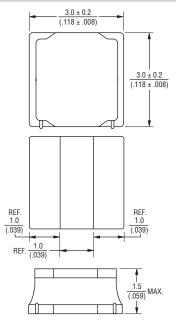
**Operating Temperature** 

............ Inductance drops 30 % at Isat Failure In Time (FIT).......24.7/109 hours Mean Time Between Failures (MTBF)

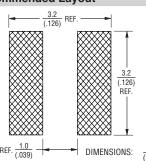
### Materials

Core	Ferrite
Wire	Enameled copper
Terminal Finish	Sn
Coating	Magnetic epoxy resin
Packaging 2	000 pcs. per 7-inch reel

#### **Product Dimensions**

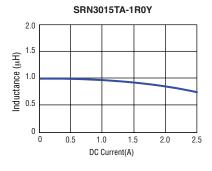


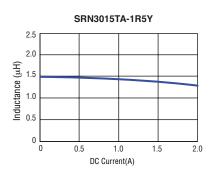
#### **Recommended Layout**

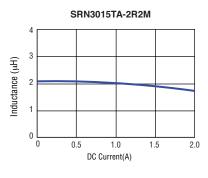


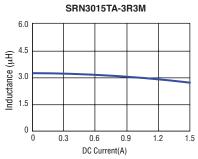
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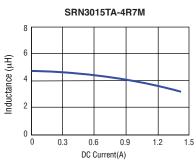
#### Inductance vs. Current

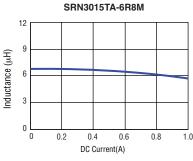


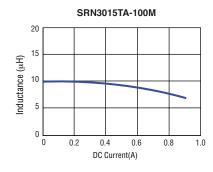


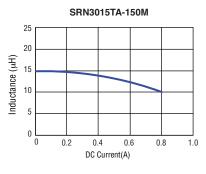


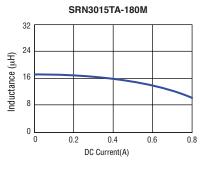


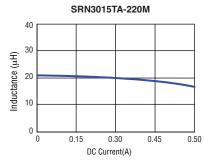


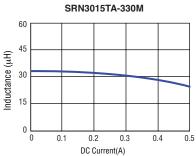


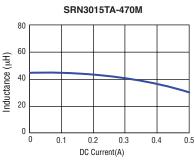




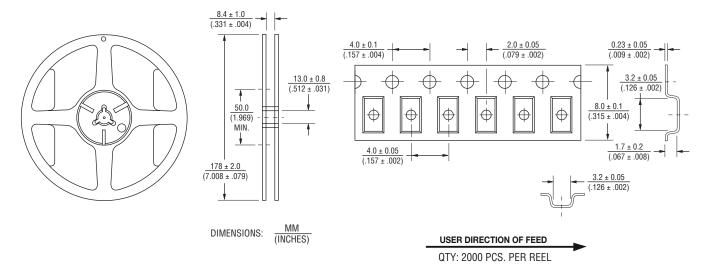








### **Packaging Specifications**



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