



Features

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

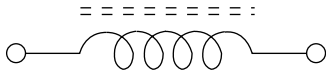
 This series is currently available but not recommended for new designs. Contact factory for alternative product information.

SRN3015TA Series – Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 100 kHz / 0.1 V		Q (Min.) @ 100 kHz	SRF (MHz) Typ.	DCR (Ω) ± 20 %	I _{rms} (A)	I _{sat} (A)
	L (μ H)	Tol. %					
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

Electrical Schematic

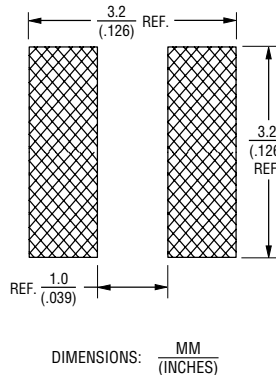


How to Order

SRN3015TA - 100M

Model _____
Value Code (see table) _____

Recommended Layout



Additional Information

Click these links for more information:



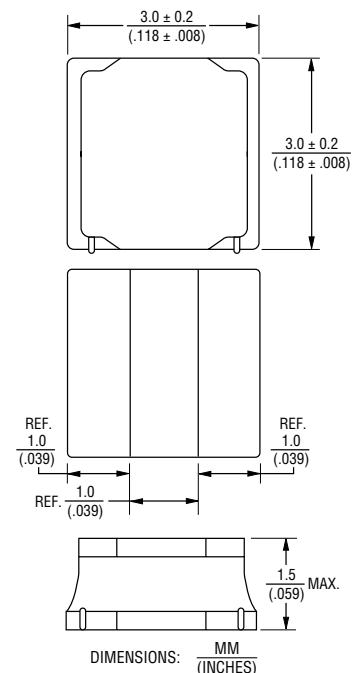
General Specifications

Operating Temperature -40 °C to +125 °C
(Temperature rise included)
Storage Temperature ... -40 °C to +125 °C
Temperature Rise40 °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
Moisture Sensitivity Level.....1
ESD Classification (HBM)..... N/A

Materials

Core..... Ferrite
WireEnameled copper
Terminal Finish Sn
CoatingMagnetic epoxy resin
Packaging.....2000 pcs. per 7-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.

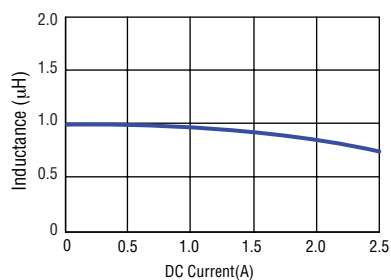
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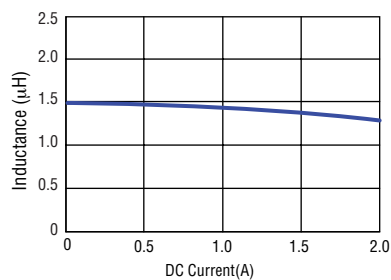
BOURNS®

Inductance vs. Current

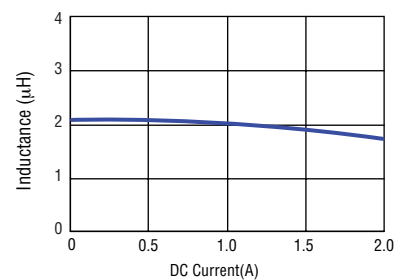
SRN3015TA-1R0Y



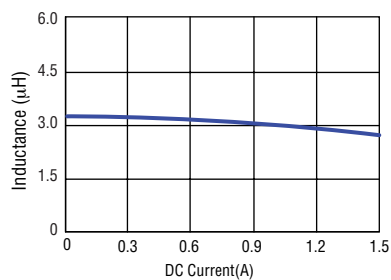
SRN3015TA-1R5Y



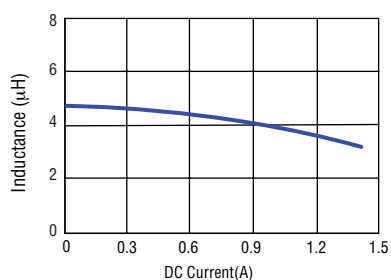
SRN3015TA-2R2M



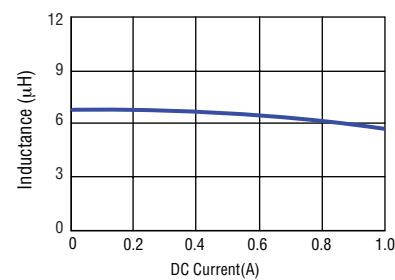
SRN3015TA-3R3M



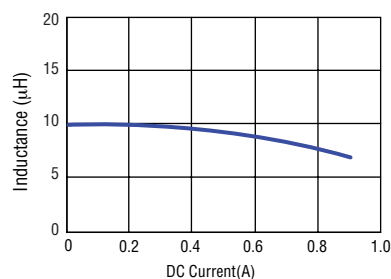
SRN3015TA-4R7M



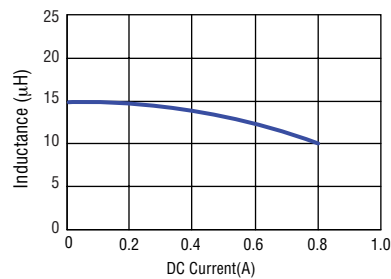
SRN3015TA-6R8M



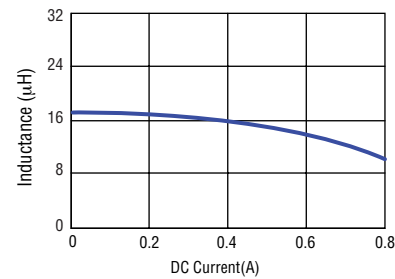
SRN3015TA-100M



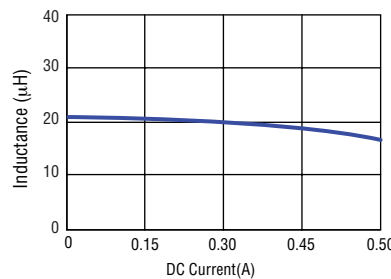
SRN3015TA-150M



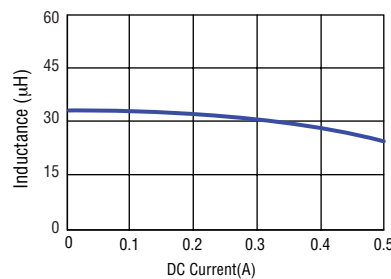
SRN3015TA-180M



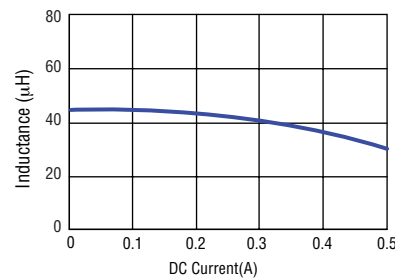
SRN3015TA-220M



SRN3015TA-330M



SRN3015TA-470M



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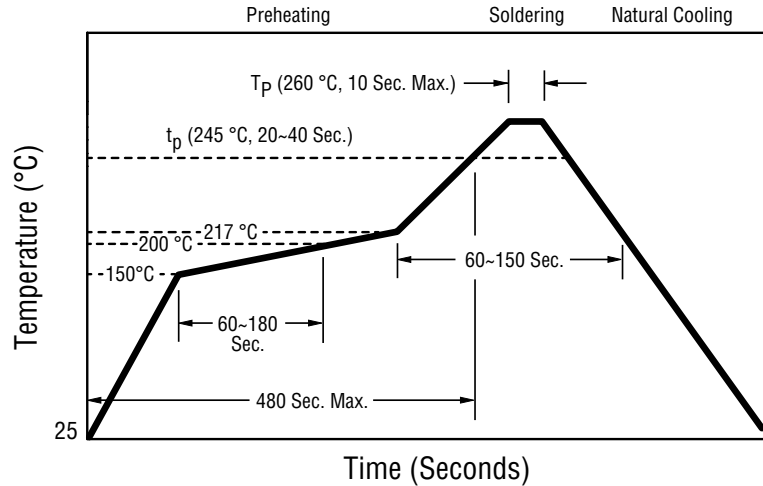
Users should verify actual device performance in their specific applications.

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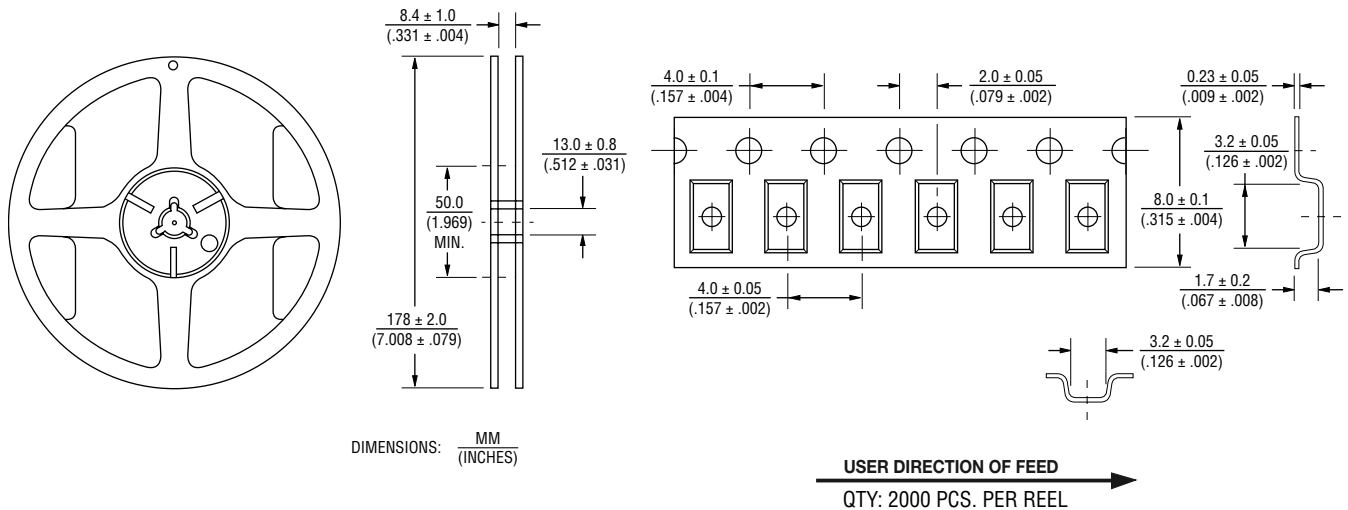
SRN3015TA Series – Semi-shielded Power Inductors

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Soldering Profile



Packaging Specifications



BOURNS®

Americas: Tel: +1 951-781-5500 • Email: americus@bourns.com

Mexico: Tel: +52-614-478-0400 • Email: mexicus@bourns.com

Asia: Tel: +886-2-2562-4117 • Email: asiacus@bourns.com

EMEA: Tel: +36 88 885 877 • Email: eurocus@bourns.com

www.bourns.com

REV. 06/25

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