



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**

Applications

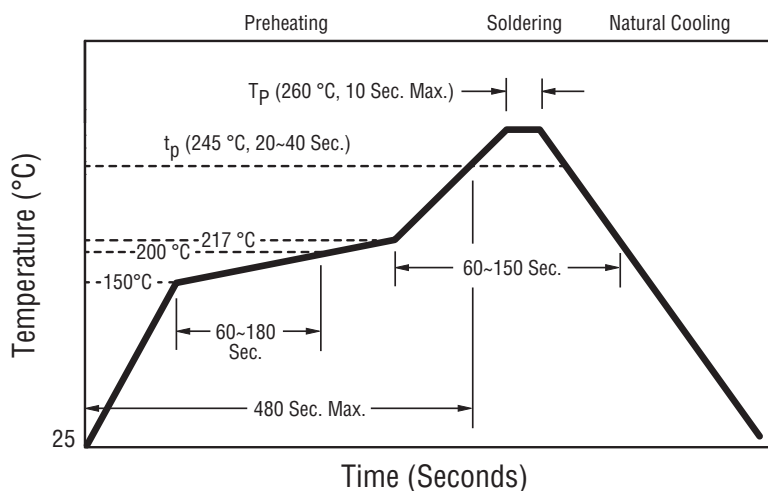
- Automotive systems:
 - Driver assistant
 - Infotainment
 - Lighting
- DC/DC converters
- Power supplies
- Digital video cameras
- HDDs
- Smartphones
- Televisions, LCD displays

SRN3015TA Series - Semi-shielded Power Inductors

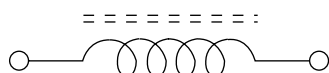
Electrical Specifications @ 25 °C

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

Soldering Profile



Electrical Schematic



How to Order

Model SRN3015TA - 100M
Value Code (see table) _____

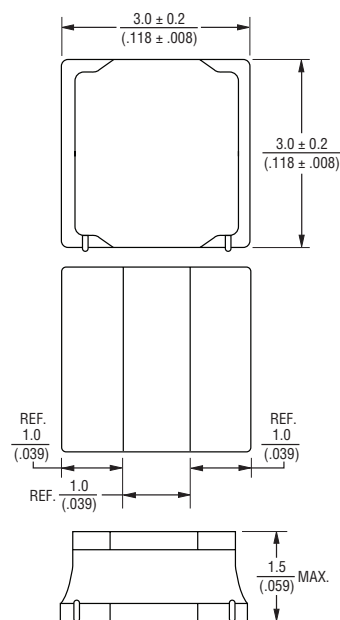
General Specifications

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

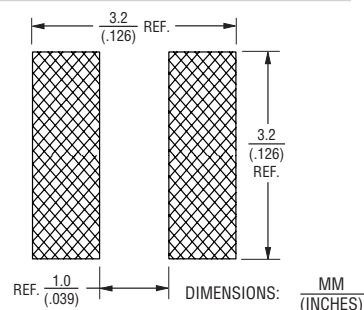
Materials

Core Ferrite
Wire Enameled copper
Terminal Finish Sn
Coating Magnetic epoxy resin
Packaging 2000 pcs. per 7-inch reel

Product Dimensions



Recommended Layout



*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. Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

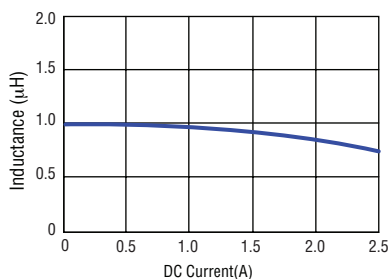
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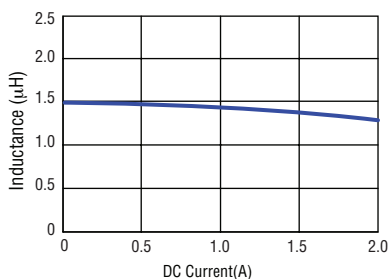
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Inductance vs. Current

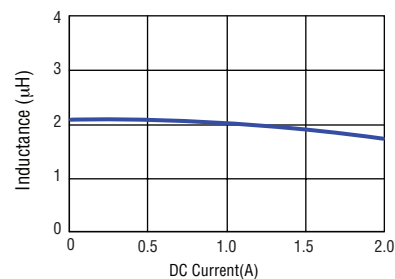
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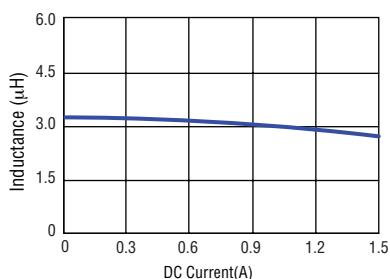
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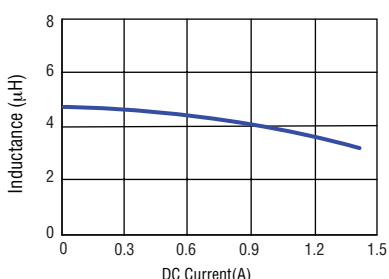
SRN3015TA-2R2M



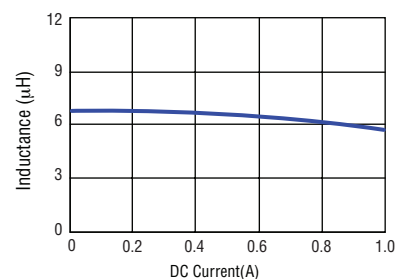
SRN3015TA-3R3M



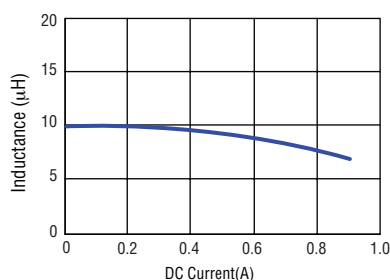
SRN3015TA-4R7M



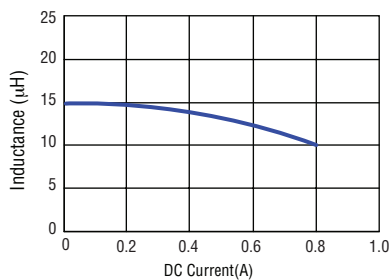
SRN3015TA-6R8M



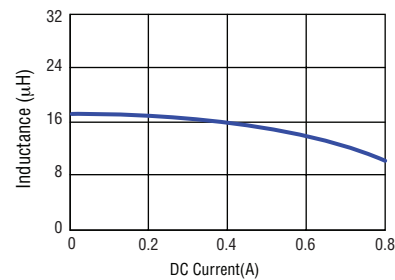
SRN3015TA-100M



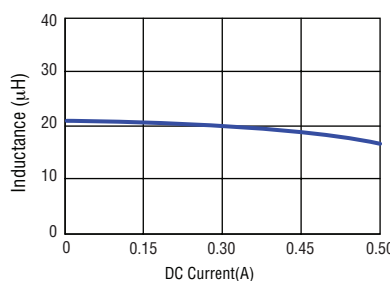
SRN3015TA-150M



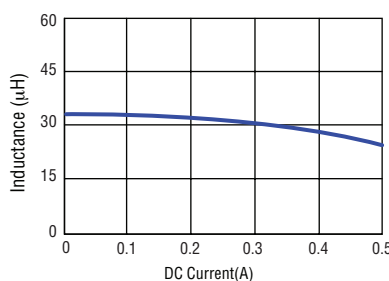
SRN3015TA-180M



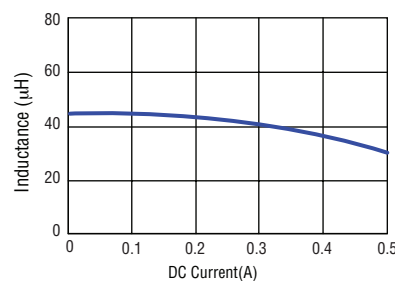
SRN3015TA-220M



SRN3015TA-330M



SRN3015TA-470M



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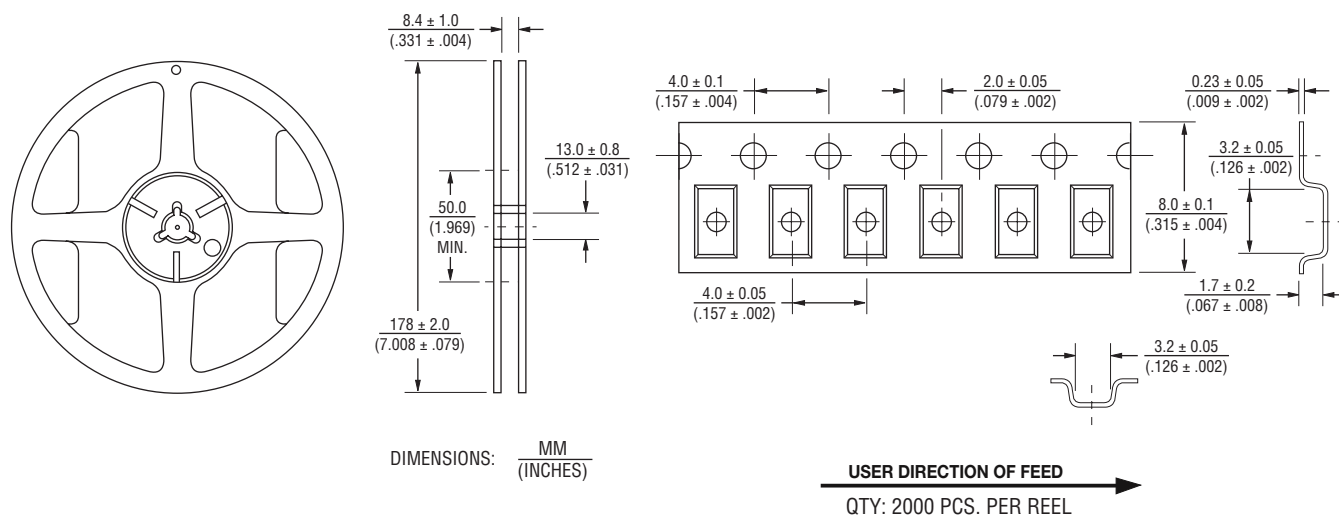
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Packaging Specifications



REV. 11/17

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