



Features

- Semi-shielded construction
- Inductance range: 0.47 to 10 μ H
- Rated current up to 1.45 A
- AEC-Q200 qualified
- Low profile: 0.8 mm max.
- RoHS compliant* and halogen free**

Applications

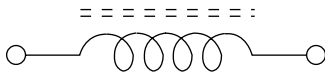
- Automotive systems:
 - Driver assistant
 - Infotainment
 - Lighting
- DC/DC converters
- Power supplies
- Wearable devices
- HDD, SSDs
- Smartphones
- LCD displays

SRN2508A Series – Semi-Shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 1 MHz / 0.1 V		Q @ 1 MHz Typ.	SRF (MHz) Typ.	DCR (Ω) \pm 20 %	I _{rms} (A) Typ.	I _{sat} (A) Typ.
	L (μ H)	Tol. %					
SRN2508A-R47M	0.47	\pm 20	10	340	0.080	1.45	2.50
SRN2508A-R68M	0.68	\pm 20	10	270	0.100	1.35	2.05
SRN2508A-1R0M	1.0	\pm 20	10	220	0.120	1.20	1.75
SRN2508A-1R5M	1.5	\pm 20	10	180	0.170	1.05	1.65
SRN2508A-2R2M	2.2	\pm 20	10	140	0.210	0.95	1.40
SRN2508A-3R3M	3.3	\pm 20	10	110	0.300	0.85	1.10
SRN2508A-4R7M	4.7	\pm 20	10	90	0.400	0.70	0.90
SRN2508A-6R8M	6.8	\pm 20	10	80	0.670	0.55	0.75
SRN2508A-100M	10	\pm 20	10	50	0.930	0.45	0.55

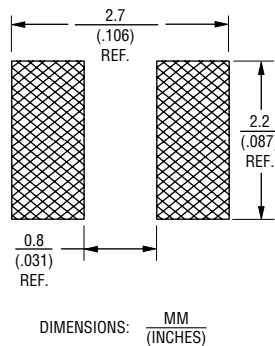
Electrical Schematic



How to Order

Model SRN2508A - R47M
Value Code (see table)

Recommended Layout



Additional Information

Click these links for more information:



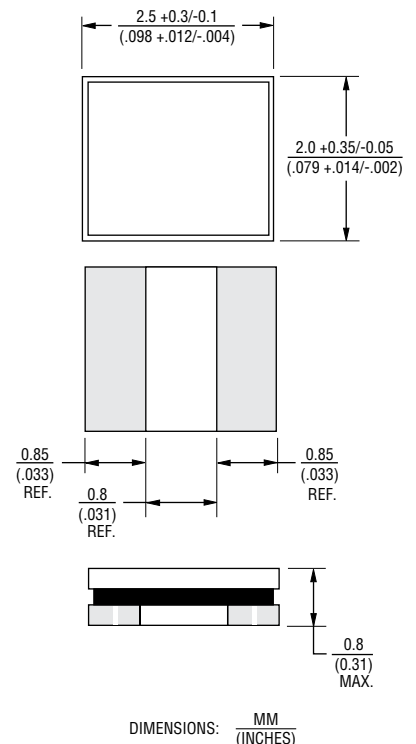
General Specifications

Operating Temperature -55 °C to +125 °C
(Temperature rise included)
Storage Temperature (Component) -55 °C to +125 °C
Temperature Rise 40 °C at rated I_{rms}
Rated Current Inductance drops 30 % at I_{sat}
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



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.

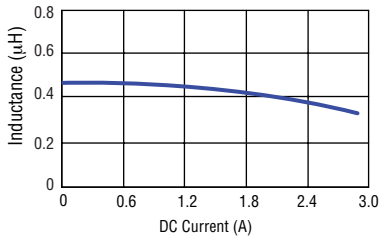
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SRN2508A Series – Semi-shielded Power Inductors

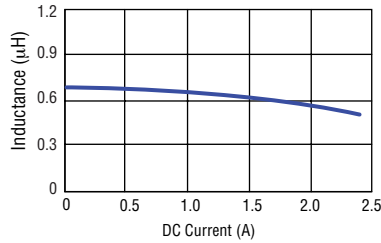


Inductance vs. Current

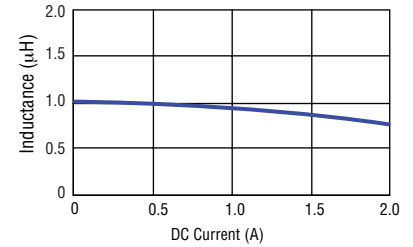
SRN2508A-R47M



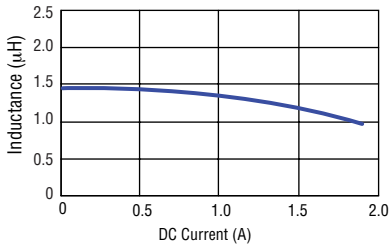
SRN2508A-R68M



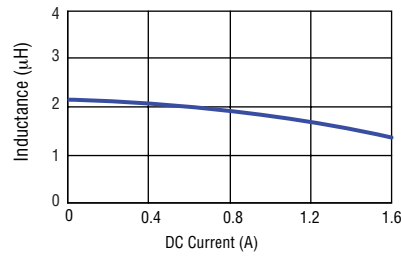
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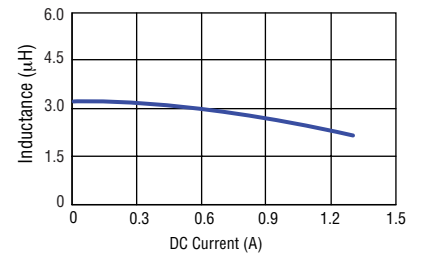
SRN2508A-1R5M



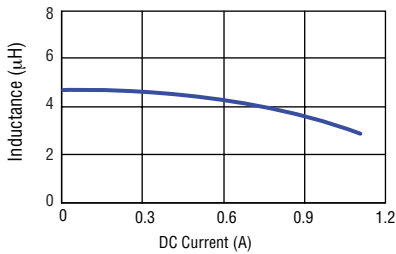
SRN2508A-2R2M



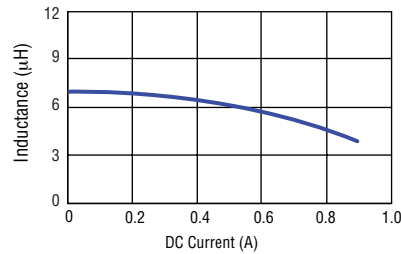
SRN2508A-3R3M



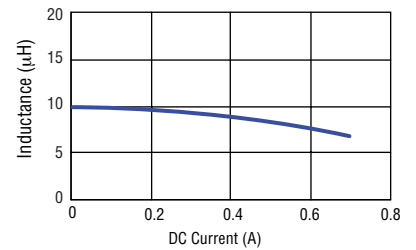
SRN2508A-4R7M



SRN2508A-6R8M



SRN2508A-100M



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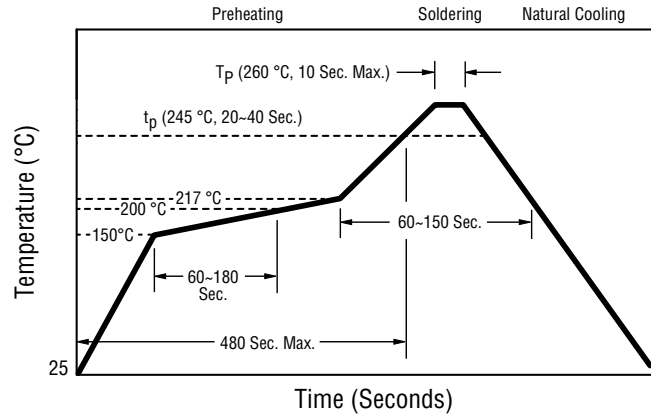
Users should verify actual device performance in their specific applications.

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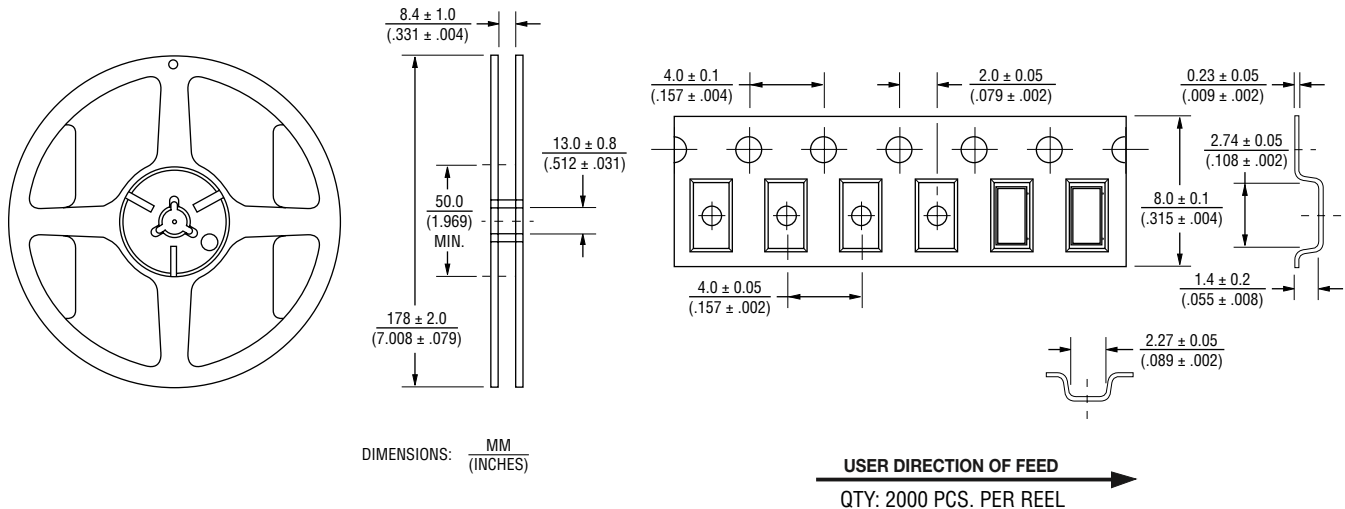
SRN2508A Series – Semi-shielded Power Inductors

BOURNS®

Soldering Profile



Packaging Specifications



BOURNS®

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

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REV. 06/25

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