

Features

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

Applications

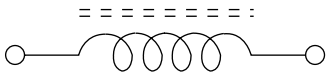
- Automotive systems:
  - Driver assistant
  - Infotainment
  - Lighting
- DC/DC converters
- Power supplies
- Wearable devices
- HDD, SSDs
- Smartphones
- LCD displays

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) ±20 %	Irms (A) Typ.	Isat (A) Typ.
	L (µH)	Tol. %					
SRN2508A-R47M	0.47	±20	10	340	0.080	1.45	2.50
SRN2508A-R68M	0.68	±20	10	270	0.100	1.35	2.05
SRN2508A-1R0M	1.0	±20	10	220	0.120	1.20	1.75
SRN2508A-1R5M	1.5	±20	10	180	0.170	1.05	1.65
SRN2508A-2R2M	2.2	±20	10	140	0.210	0.95	1.40
SRN2508A-3R3M	3.3	±20	10	110	0.300	0.85	1.10
SRN2508A-4R7M	4.7	±20	10	90	0.400	0.70	0.90
SRN2508A-6R8M	6.8	±20	10	80	0.670	0.55	0.75
SRN2508A-100M	10	±20	10	50	0.930	0.45	0.55

Electrical Schematic



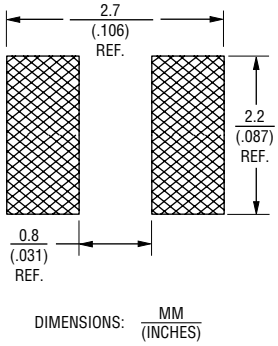
How to Order

SRN2508A - R47M

Model

Value Code (see table)

Recommended Layout



Additional Information

Click these links for more information:

PRODUCT SELECTOR | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

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 Irms

Rated Current ..... Inductance drops 30 % at Isat

Moisture Sensitivity Level 1

ESD Classification (HBM).....N/A

Materials

Core..... Ferrite

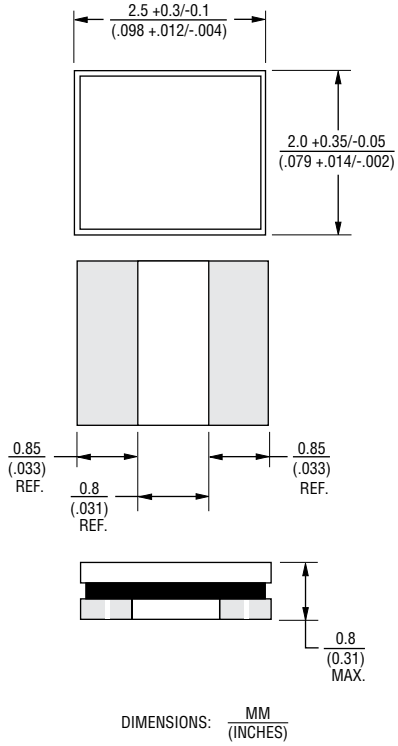
Wire .....Enameled copper

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.

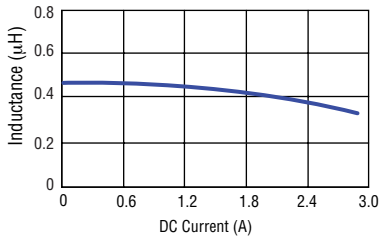
Users should verify actual device performance in their specific applications.

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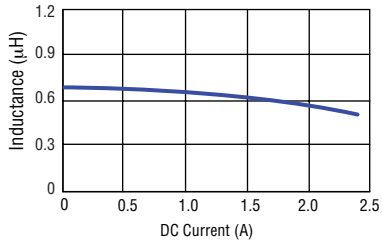
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Inductance vs. Current

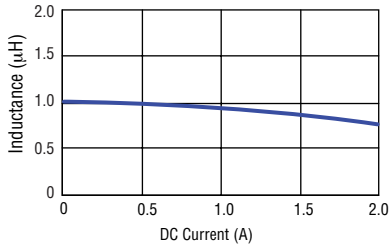
SRN2508A-R47M



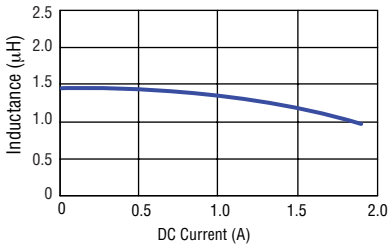
SRN2508A-R68M



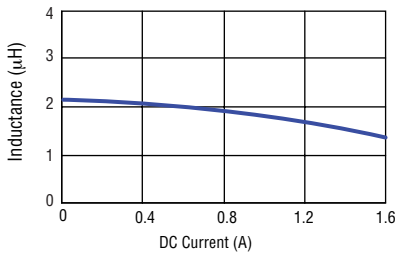
SRN2508A-1R0M



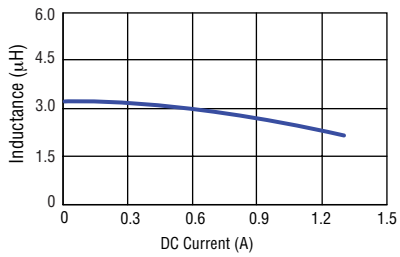
SRN2508A-1R5M



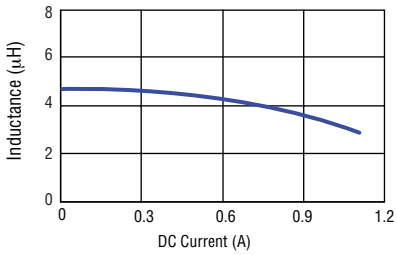
SRN2508A-2R2M



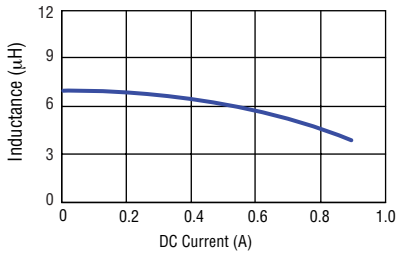
SRN2508A-3R3M



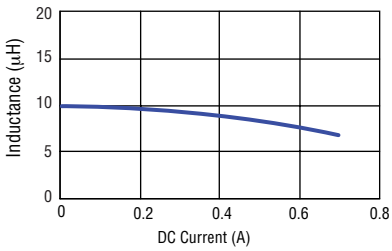
SRN2508A-4R7M



SRN2508A-6R8M



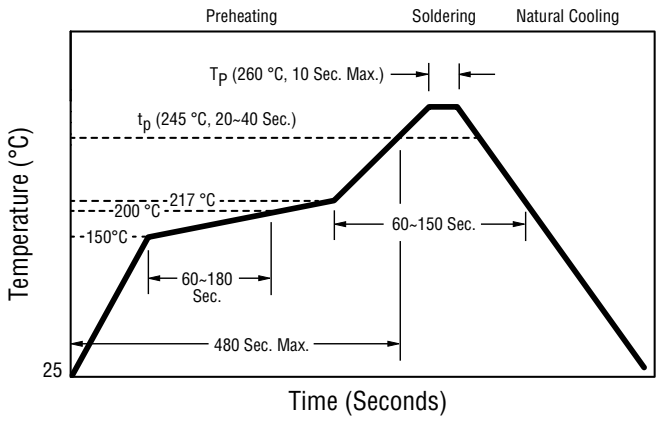
SRN2508A-100M



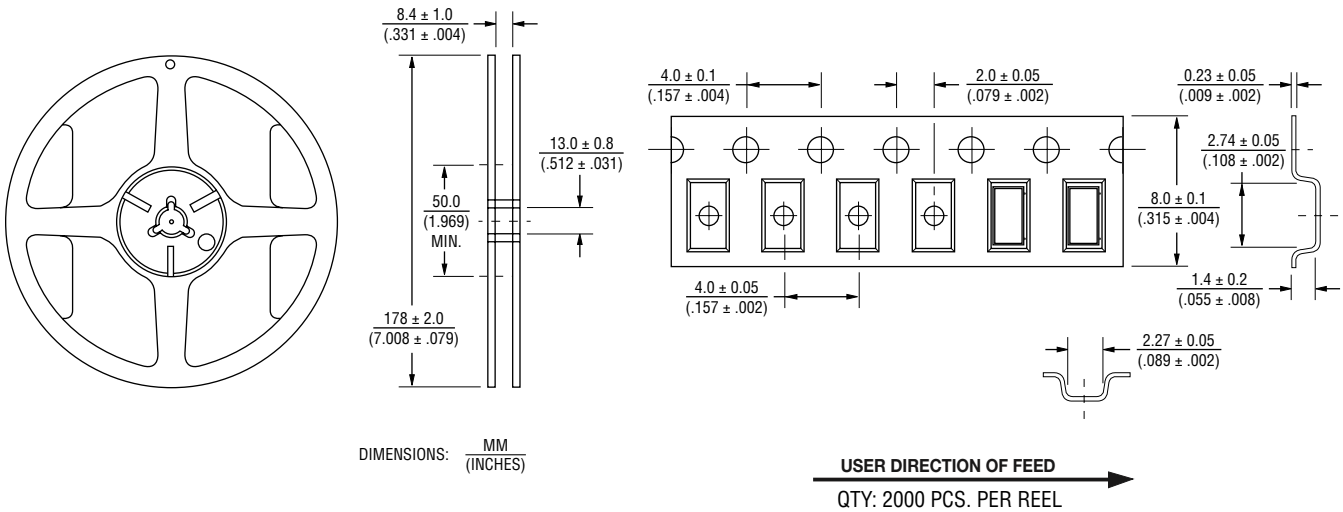
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Soldering Profile



Packaging Specifications



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REV. 06/25

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