



**THE DATASHEET OF
SRN2508A-6R8M**





Features

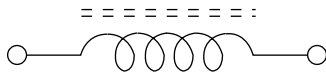
- Semi-shielded construction
- Inductance range: 0.47 to 10 μ H
- Rated current up to 1.45 A
- AEC-Q200 qualified
- Low profile: 0.8 mm max.
- RoHS compliant* and halogen free**

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	± 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

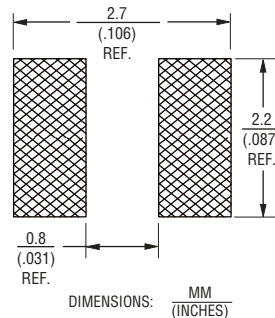


How to Order

SRN2508A - R47M

Model _____
Value Code (see table) _____

Recommended Layout



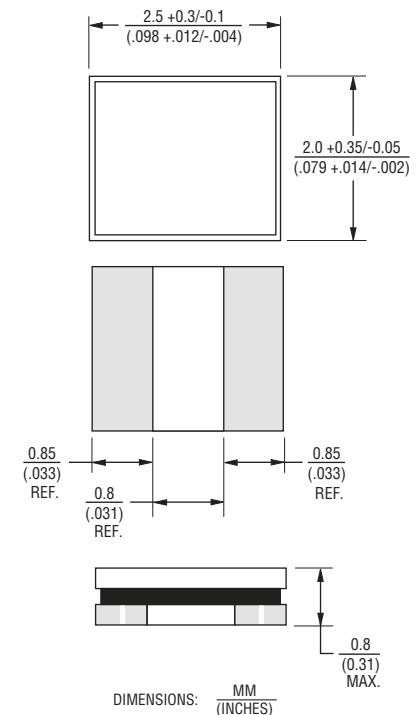
General Specifications

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 Enamelled copper
Terminal Finish Sn
Coating Magnetic epoxy resin
Packaging 2000 pcs. per 7-inch reel

Product Dimensions



BOURNS®

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

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www.bourns.com



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.

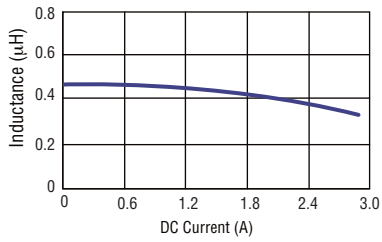
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SRN2508A Series - Semi-shielded Power Inductors

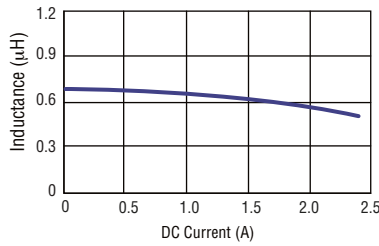
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Inductance vs. Current

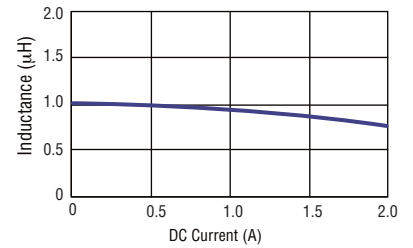
SRN2508A-R47M



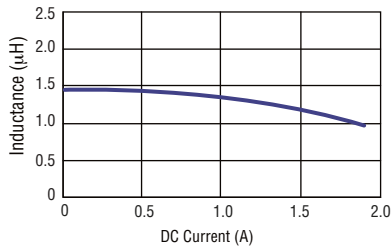
SRN2508A-R68M



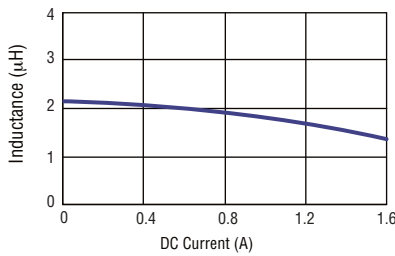
SRN2508A-1R0M



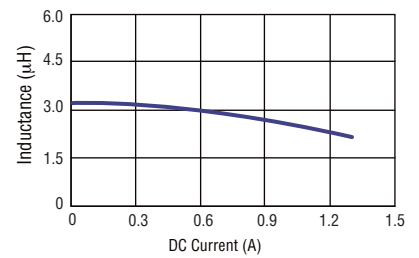
SRN2508A-1R5M



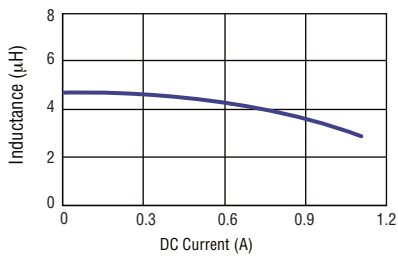
SRN2508A-2R2M



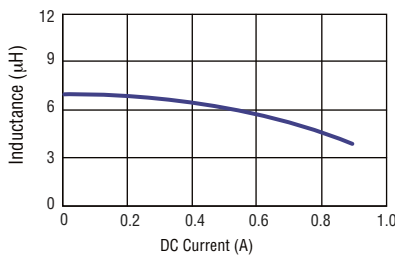
SRN2508A-3R3M



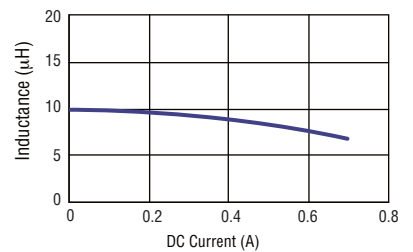
SRN2508A-4R7M



SRN2508A-6R8M



SRN2508A-100M



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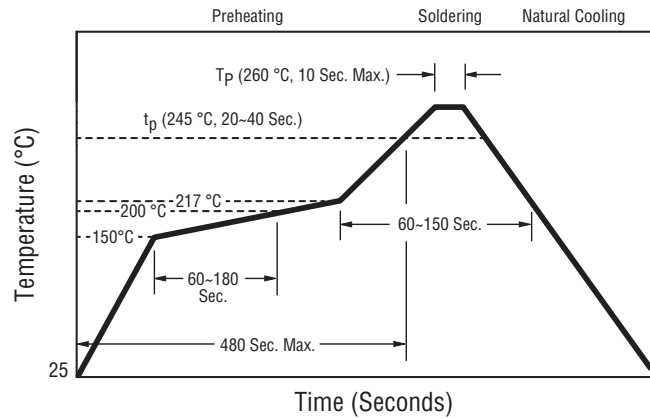
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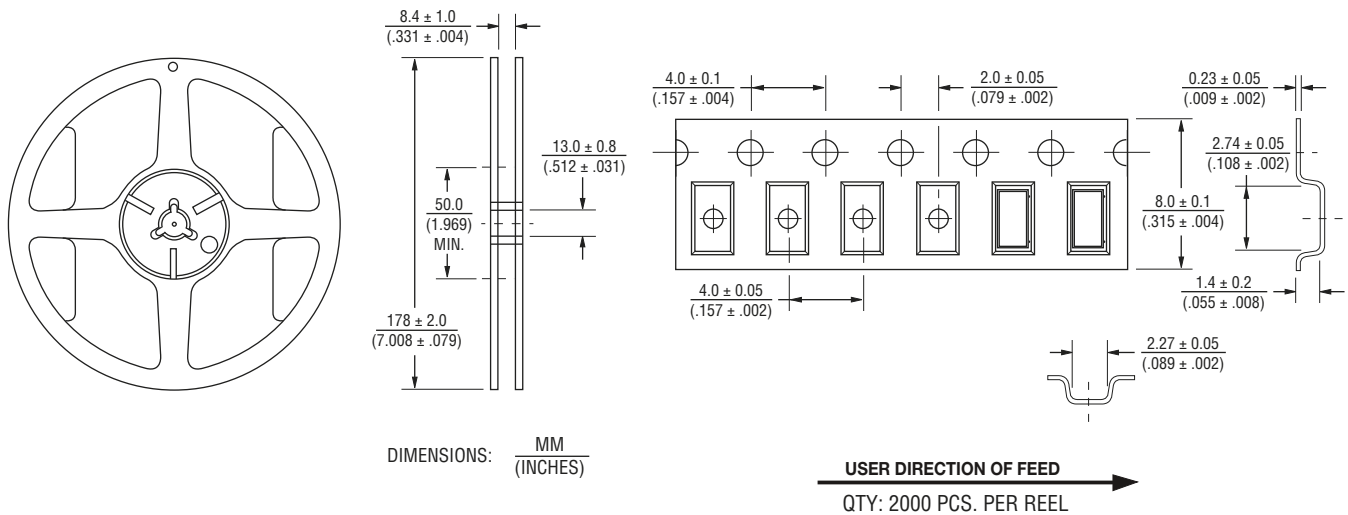
SRN2508A Series - Semi-shielded Power Inductors

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Soldering Profile



Packaging Specifications



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