

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**

SRN2508A Series - Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

	Inductance @ 1 MHz / 0.1 V		Q @ 1 MHz	SRF (MHz)	DCR (Ω)	Irms (A)	lsat (A)
Bourns Part No.	L (μ H)	Tol. %	Тур.	Typ.	±20 %	Тур.	Тур.
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

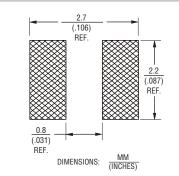
Electrical Schematic

How to Order



Model — Value Code (see table) — —

Recommended Layout



General Specifications

Operating Temperature

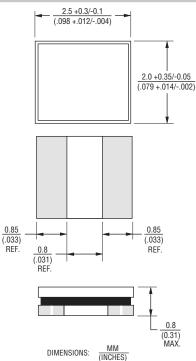
-55 °C to +125 °C
(Temperature rise included)
Storage Temperature (Component)
Temperature Rise40 °C at rated Irms
Rated Current
Inductance drops 30 % at Isat
Moisture Sensitivity Level1

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

Materials

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

Product Dimensions



BOURNS

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WARNING Cancer and Reproductive Harm - <u>www.P65Warnings.ca.gov</u>

* 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.

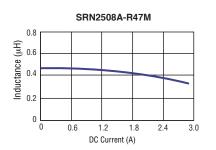
Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

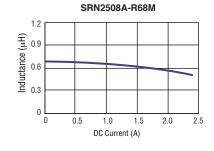
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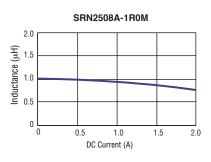
SRN2508A Series - Semi-shielded Power Inductors

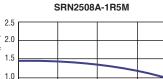
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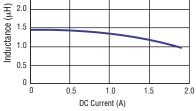
Inductance vs. Current

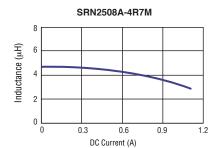




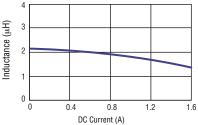












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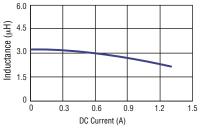
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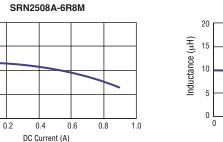
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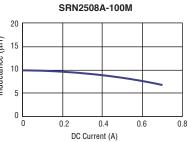
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Inductance (µH)









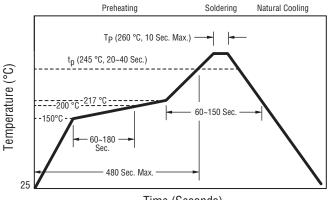
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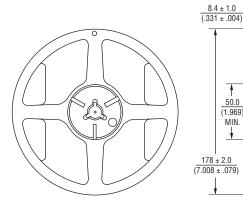
BOURNS

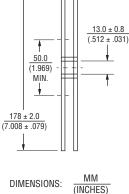
Soldering Profile



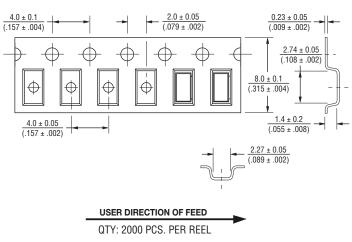
Time (Seconds)

Packaging Specifications





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