

Features

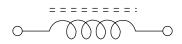
- Semi-shielded construction
- Inductance range: 0.47 to 10 µH
- Rated current up to 1.45 A
- AEC-Q200 qualified
- Low profile: 0.8 mm max.
- RoHS compliant* and halogen free**

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)	Isat (A)
Bourns Part No.	L (μH)	Tol. %	Typ.	Typ.	±20 %	Typ.	Typ.
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

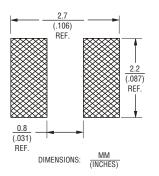


How to Order

SRN2508A - R47M

Model — Value Code (see table) — Value Code

Recommended Layout



BOURNS®

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General Specifications

Operating Temperature

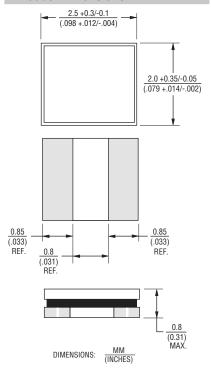
......55 °C to +125 °C (Temperature rise included) Storage Temperature (Component)

-55 °C to +125 °C Temperature Rise40 °C at rated Irms

Materials

CoreFerrite
WireEnameled copper
Terminal FinishSn
CoatingMagnetic epoxy resin
Packaging2000 pcs. per 7-inch reel

Product Dimensions



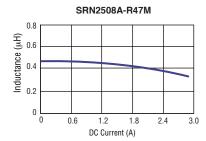


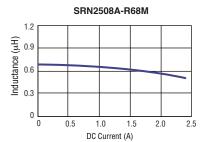
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

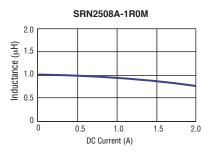
- * RoHS Directive 2015/863, Mar 31, 2015 and Annex.
- **Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

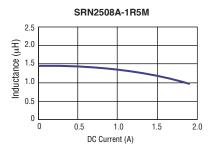
SRN2508A Series - Semi-shielded Power Inductors

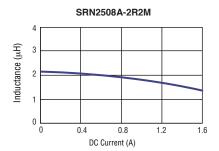
Inductance vs. Current

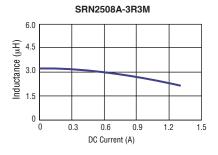


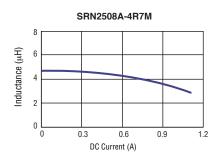


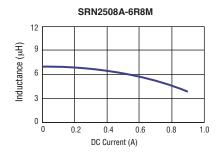


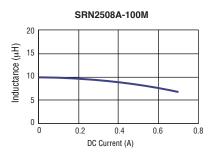




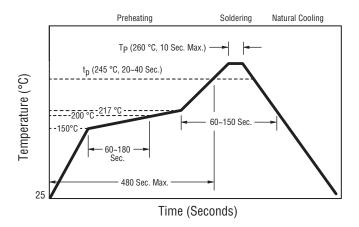




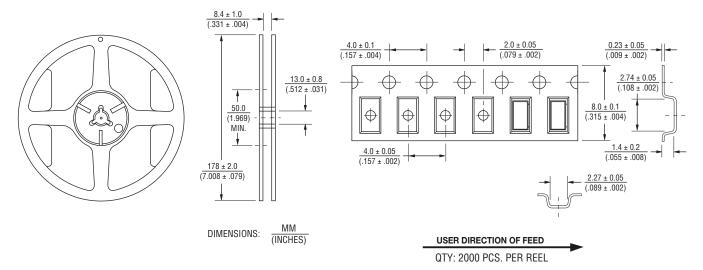




Soldering Profile



Packaging Specifications



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