

Features

- Semi-shielded construction
- Inductance range: 0.33 to 10 µH
- Rated current up to 2.1 A
- Low profile: 0.95 mm max.
- RoHS compliant* and halogen free**

Applications

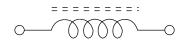
- DC/DC converters
- Power supplies
- Wearable devices
- HDDs, SSDs
- Smartphones
- LCD displays

SRN2009T Series - Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

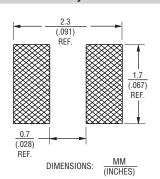
	Inductance @ 1 MHz / 0.1 V		Q (Typ.)	SRF (MHz)	DCR (Ω)	Irms (A)	Isat (A)
Bourns Part No.	L (μH)	Tol. %	@ 1 MHz	Typ.	±20 %	Typ.	Typ.
SRN2009T-R33M	0.33	±20	30	400	0.028	2.1	2.1
SRN2009T-R47M	0.47	±20	25	300	0.038	2	2
SRN2009T-R68M	0.68	±20	22	250	0.055	1.5	1.5
SRN2009T-1R0M	1.0	±20	20	200	0.065	1.4	1.4
SRN2009T-1R5M	1.5	±20	18	170	0.11	1.2	1.2
SRN2009T-2R2M	2.2	±20	16	150	0.16	0.9	0.9
SRN2009T-3R3M	3.3	±20	15	120	0.25	0.85	0.85
SRN2009T-4R7M	4.7	±20	15	90	0.4	0.75	0.75
SRN2009T-6R8M	6.8	±20	15	80	0.55	0.65	0.65
SRN2009T-100M	10	±20	15	60	1	0.55	0.6

Electrical Schematic



How to Order

Recommended Layout



General Specifications

Operating Temperature

.....-40 °C to +125 °C (Temperature rise included) Storage Temperature (Component)

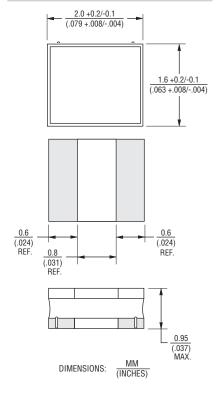
-40 °C to +125 °C
Temperature Rise40 °C at rated Irms

Temperature Rise40 °C at rated Irms Rated Current

Materials

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

Product Dimensions



Specifications are subject to change without notice.

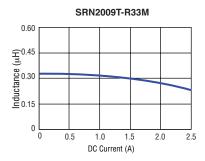
Users should verify actual device performance in their specific applications.

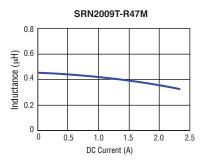
^{*} RoHS Directive 2015/863, Mar 31, 2015 and Annex.

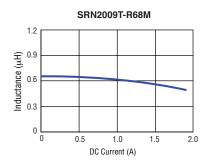
^{**}Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

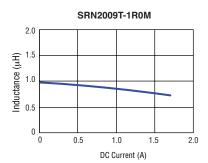
SRN2009T Series - Semi-shielded Power Inductors

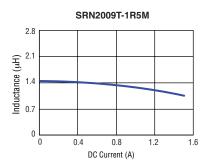
Inductance vs. Current

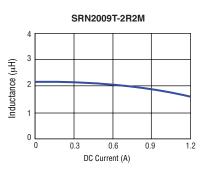


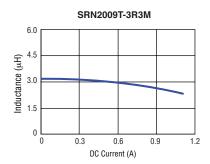


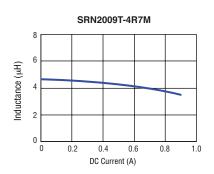


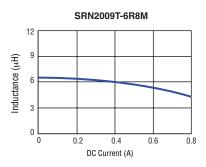


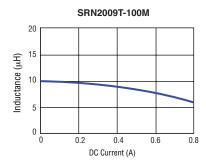




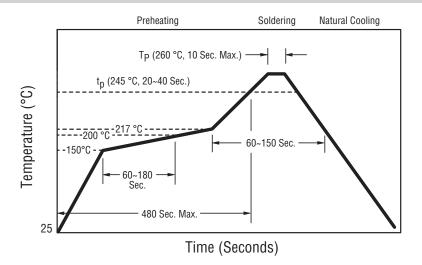




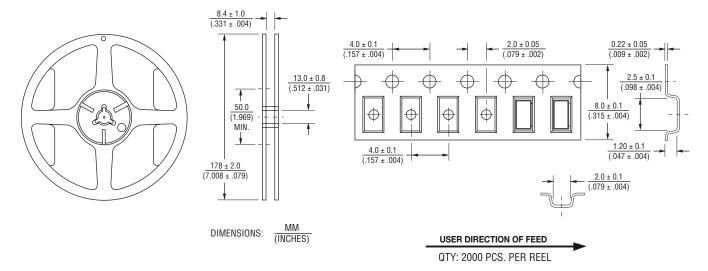




Soldering Profile



Packaging Specifications



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