

### **Features**

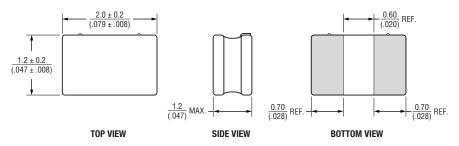
- Semi-shielded construction
- Miniature size
- High Q value
- High self-resonant frequency
- Low DCR
- RoHS compliant\* and halogen free\*\*

# **SRN2012T Series - Semi-Shielded Power Inductors**

## Electrical Specifications @ 25 °C

	Induc	tance		L & Q Test Freg.	SRF (MHz)	DCR	Irms	Isat (mA)
Bourns Part No.	<b>L (μH)</b>	Tol. %	Typ.	/ Voltage	Typ.	(Ω) ±30 %	(mA) Typ.	Typ.
SRN2012T-1R0K	1.0	10	14	7.9 MHz / 0.5 V	208	0.085	1300	1100
SRN2012T-2R2K	2.2	10	13	7.9 MHz / 0.5 V	100	0.18	1040	740
SRN2012T-4R7K	4.7	10	14	7.9 MHz / 0.5 V	65	0.36	840	520
SRN2012T-6R8K	6.8	10	14	7.9 MHz / 0.5 V	55	0.6	700	420
SRN2012T-100K	10	10	14	2.5 MHz / 0.5 V	40	0.8	560	360
SRN2012T-150K	15	10	15	2.5 MHz / 0.5 V	35	1.4	380	300
SRN2012T-220K	22	10	15	2.5 MHz / 0.5 V	20	1.76	340	240

### **Product Dimensions**



DIMENSIONS: MM

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#### **Additional Information**

Click these links for more information:











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## **General Specifications**

**Operating Temperature** 

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

Storage Temperature (Component)

Temperature Rise .... 40  $^{\circ}\text{C}$  at rated Irms  $^{1}$  Rated Current

Note 1: Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

## Materials

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

# **Electrical Schematic**



### **How to Order**

SRN2012T - 1R0K

Model
Value Code (see table)



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

\* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

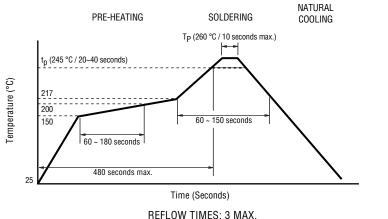
\*\* Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

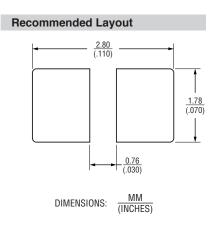
Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

# **SRN2012T Series - Semi-Shielded Power Inductors**







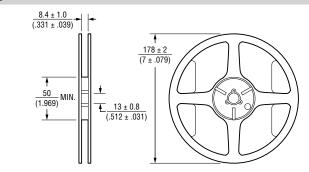
2.25 ± 0.1

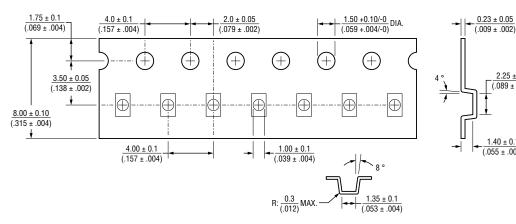
(.089 ± .004)

1.40 ± 0.1

 $(.055 \pm .004)$ 

# **Packaging Specifications**





DIMENSIONS: (INCHES)

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