

### **Features**

- Semi-shielded construction
- Inductance range: 0.90 to 100 µH
- Rated current up to 4.6 A
- RoHS compliant\* and halogen free\*\*

## **Applications**

- DC/DC converters
- Notebook computers
- Digital video cameras
- HDDs
- Cellphones
- Televisions, LCD displays

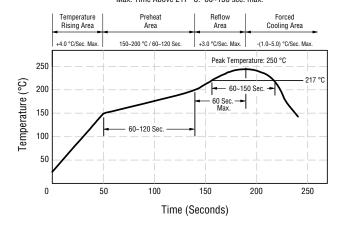
## SRN6028 Series - Semi-shielded Power Inductors

#### Electrical Specifications @ 25 °C

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	Inductance @ 100 KHz / 1 V		Q	Test Freg.	SRF (MHz)	DCR (Ω)	Irms	Isat
Bourns Part No.	<b>L (μH)</b>	Tol. %	(Ref.)	(MHz)	Typ.	Max.	(A)	(A)
SRN6028-R90Y	0.90	30	12	7.96	105	0.017	4.6	6.7
SRN6028-1R5Y	1.5	30	12	7.96	70	0.021	4.2	5.1
SRN6028-2R2Y	2.2	30	12	7.96	56	0.026	3.7	4.2
SRN6028-3R0Y	3.0	30	12	7.96	46	0.03	3.4	3.6
SRN6028-3R3M	3.3	20	12	7.96	42	0.034	3.4	3.6
SRN6028-3R9M	3.9	20	10	7.96	35	0.038	3.0	2.7
SRN6028-4R7M	4.7	20	10	7.96	34	0.038	3.0	2.7
SRN6028-6R0M	6.0	20	10	7.96	28	0.048	2.5	2.5
SRN6028-6R2M	6.2	20	10	7.96	28	0.063	2.2	2.2
SRN6028-6R8M	6.8	20	10	7.96	27	0.063	2.2	2.2
SRN6028-100M	10	20	18	2.52	20	0.078	1.9	1.9
SRN6028-150M	15	20	14	2.52	17	0.114	1.8	1.6
SRN6028-220M	22	20	18	2.52	14	0.162	1.4	1.3
SRN6028-330M	33	20	11	2.52	10	0.264	1.1	1.1
SRN6028-470M	47	20	11	2.52	9	0.36	0.92	1.0
SRN6028-680M	68	20	11	2.52	7	0.51	0.77	0.8
SRN6028-101M	100	20	16	0.796	6	0.72	0.66	0.65

#### **Soldering Profile**

Peak Temperature: 250 °C max. Max. Peak Temperature -5 °C: 30 sec. max. Max. Time Above 217 °C: 60~150 sec. max.



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

- RoHS Directive 2015/863, Mar 31, 2015 and Annex.
- \*\*Bourns follows the prevailing definition of "halogen free" in the industry. 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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#### **General Specifications**

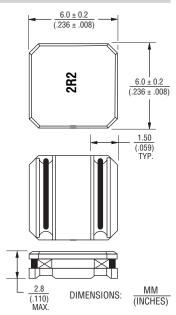
Operating Temperature

.....+260 °C for 10 sec. Temperature Rise .....40 °C at rated Irms Rated Current

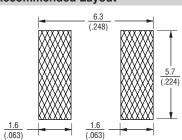
#### Materials

Core ......Ferrite
Wire ......Enameled copper
Terminal Finish .....Sn/Ag/Cu
Coating .....Magnetic epoxy resin
Packaging ..... 1000 pcs. per 13-inch reel

#### **Product Dimensions**

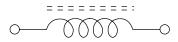


#### **Recommended Layout**



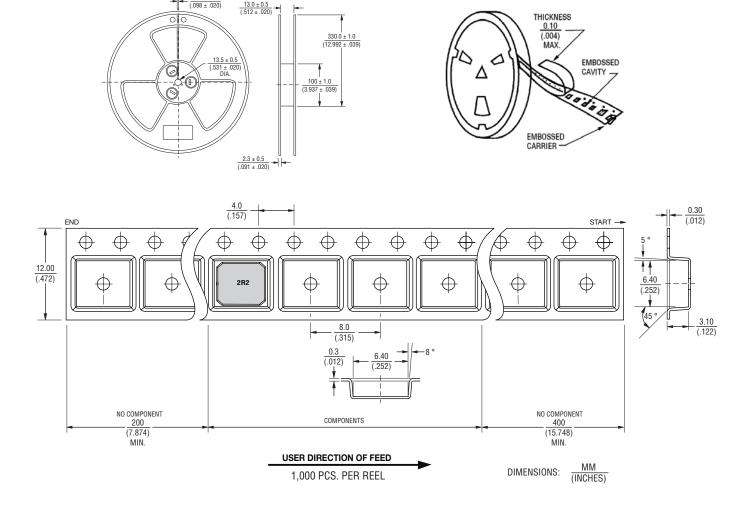
# **SRN6028 Series - Semi-shielded Power Inductors**

#### **Electrical Schematic**



## **How to Order** SRN6028 - 4R7M Model -Value Code (see table)

### **Packaging Specifications**



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