



Features

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

Applications

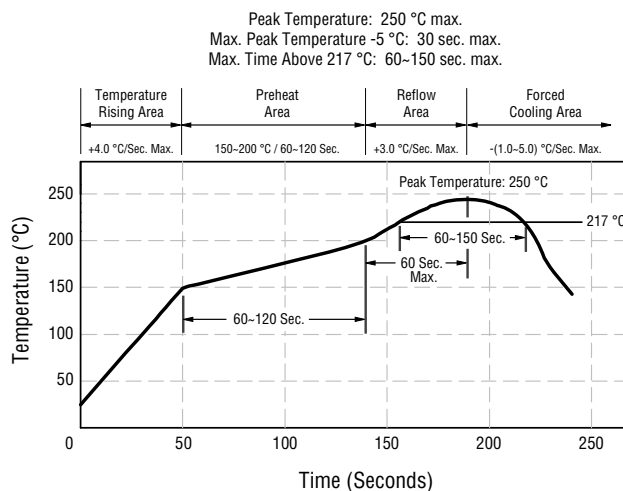
- DC/DC converters
- Notebook computers
- Digital video cameras
- HDDs
- Cellphones
- Televisions, LCD displays

SRN6028 Series - Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 100 KHz / 1 V		Q (Ref.)	Test Freq. (MHz)	SRF (MHz) Typ.	DCR (Ω) Max.	I _{rms} (A)	I _{sat} (A)
	L (μ H)	Tol. %						
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



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

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

Storage Temperature -10 °C to +40 °C
Resistance to Solder Heat

..... +260 °C for 10 sec.

Temperature Rise 40 °C at rated I_{rms}
Rated Current

..... Inductance drops 30 % at I_{sat}

Moisture Sensitivity Level 1

ESD Classification (HBM) N/A

Materials

Core Ferrite

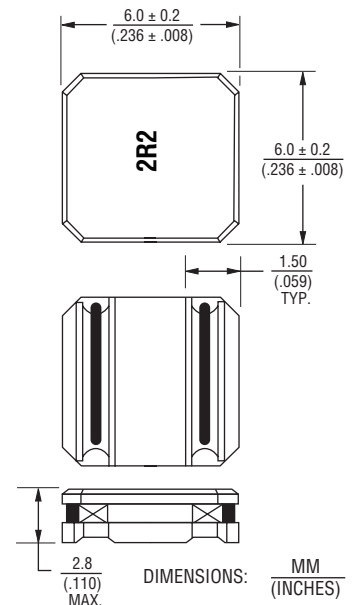
Wire Enameled copper

Terminal Finish Sn/Ag/Cu

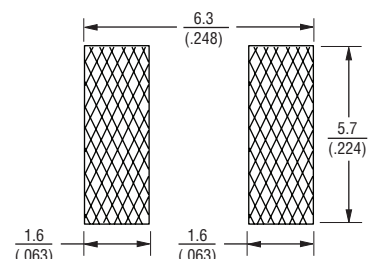
Coating Magnetic epoxy resin

Packaging 1000 pcs. per 13-inch reel

Product Dimensions

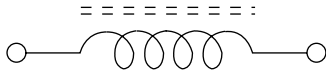


Recommended Layout



BOURNS®

SRN6028 - 4R7M



Value Code (see table)

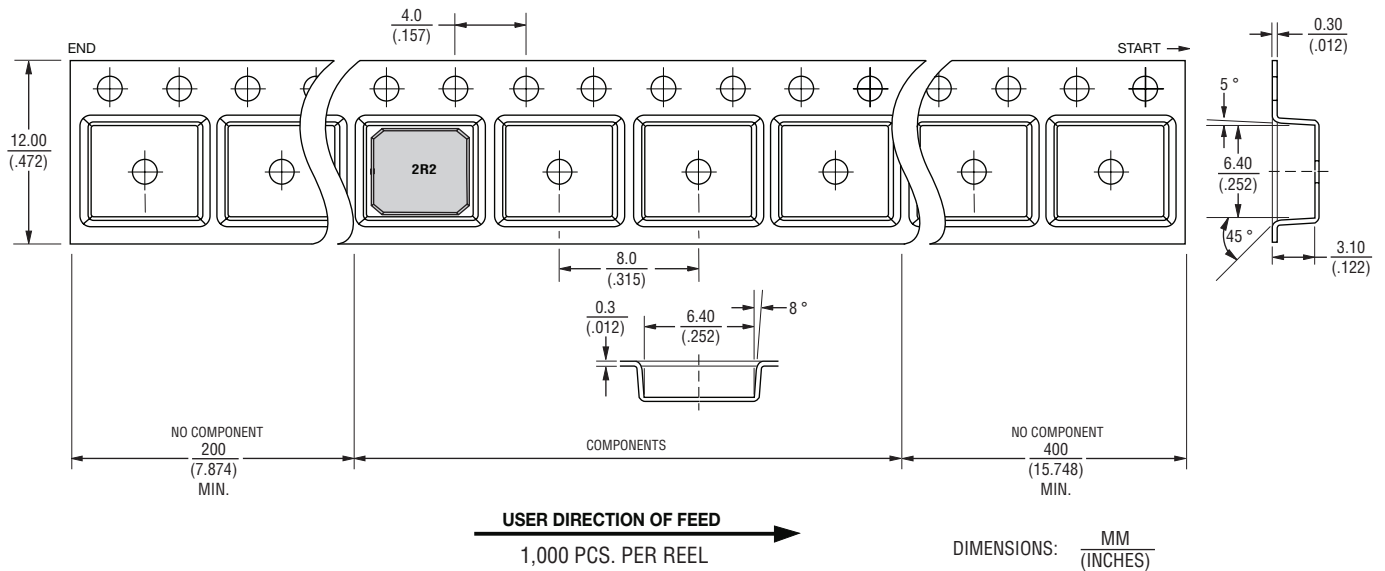
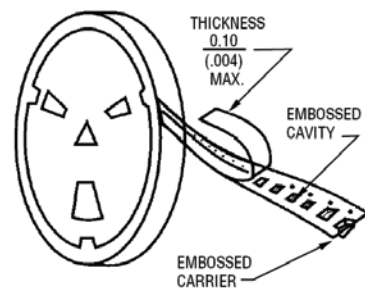
Technical drawing of a wheel assembly, showing front and side views with dimensions.

Front View Dimensions:

- Top hub hole diameter: 2.5 ± 0.5 ($.098 \pm .020$)
- Hub hole diameter: 13.5 ± 0.5 ($.531 \pm .020$) DIA.
- Bottom rectangular feature: 2.3 ± 0.5 ($.091 \pm .020$)

Side View Dimensions:

- Hub thickness: 13.0 ± 0.5 ($.512 \pm .020$)
- Overall wheel width: 330.0 ± 1.0 ($12.992 \pm .039$)
- Hub offset from centerline: 100 ± 1.0 ($3.937 \pm .039$)



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