

Features

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

Applications

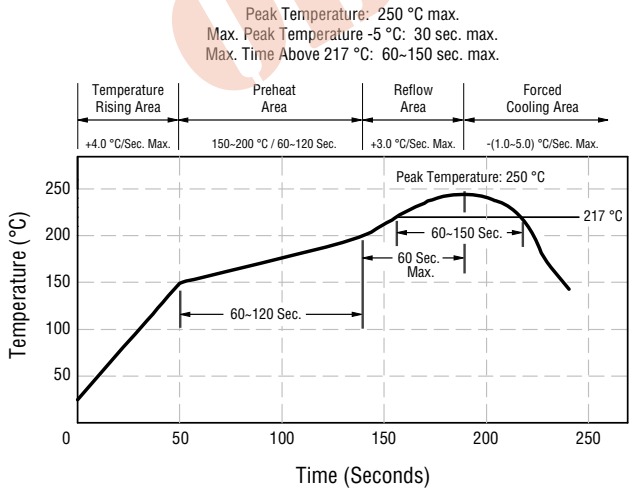
- DC/DC converters
- Notebook computers
- Digital video cameras
- HDDs
- Cellphones
- Televisions, LCD displays

SRN6028 Series - Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 100 KHz / 1 V L (µH)	Tol. %	Q (Ref.)	Test Freq. (MHz)	SRF (MHz) Typ.	DCR (Ω) Max.	Irms (A)	Isat (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



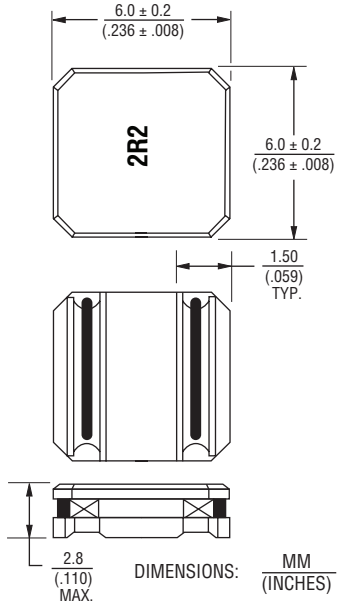
General Specifications

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 Irms
Rated Current ..... Inductance drops 30 % at Isat
Moisture Sensitivity Level.....1
ESD Classification (HBM)..... N/A

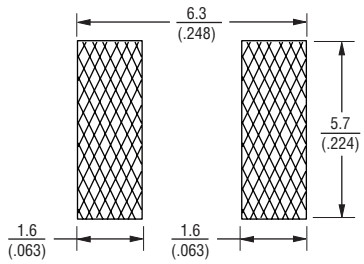
Materials

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



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.

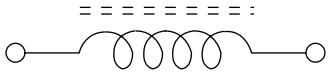
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Users should verify actual device performance in their specific applications.
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OBSOLETE

SRN6028 Series - Semi-shielded Power Inductors

BOURNS®

Electrical Schematic



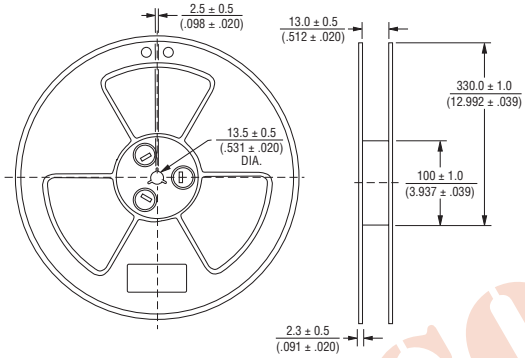
How to Order

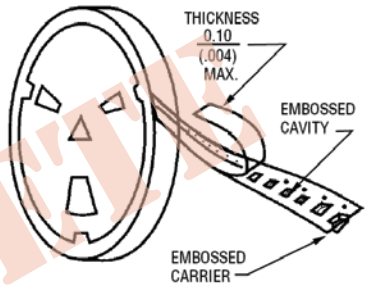
SRN6028 - 4R7M

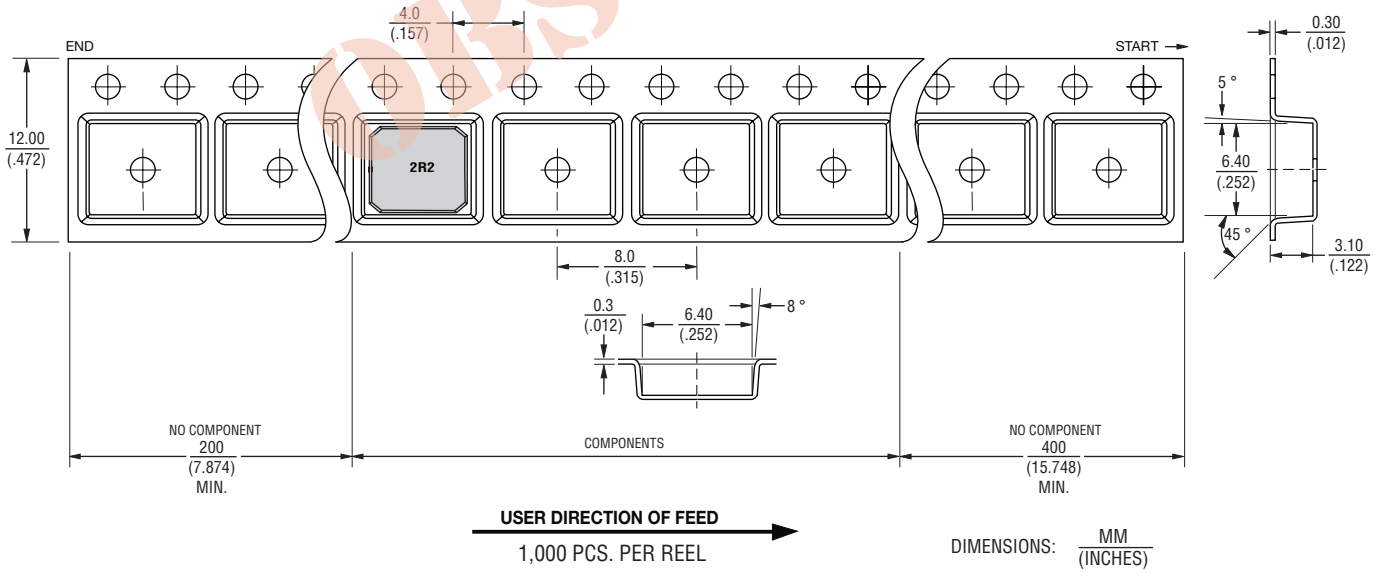
Model

Value Code (see table)

Packaging Specifications







USER DIRECTION OF FEED

1,000 PCS. PER REEL

DIMENSIONS: MM / (INCHES)

OBSOLETE

REV. 02/23

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