

Features

- Shielded construction
- Carbonyl powder core
- High saturation current
- Inductance range: 0.10 to 33 µH
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRP7028A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

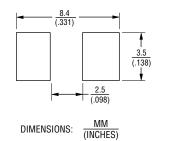
	Inductance @ 100 KHz / 1 V		Q (Min.)	SRF	DCR	DCR			
Bourns Part Number	L (μH)	Tol. (%)	@100 KHz/1 V	(MHz) Typ.	(mΩ) Typ.	(mΩ) Max.	Irms (A)	Isat (A)	Terminal Type
SRP7028A-R10M	0.10	± 20	5	300	1.2	1.7	32.5	60	Lead Frame
SRP7028A-R15Y	0.15	± 30	5	220	1.5	1.9	27	45	
SRP7028A-R22Y	0.22	± 30	5	150	2.1	2.8	23	40	
SRP7028A-R33M	0.33	± 20	10	140	3.5	3.9	20	32	
SRP7028A-R47M	0.47	± 20	10	80	4	4.2	17.5	26	
SRP7028A-R56M	0.56	± 20	15	70	4.7	5.0	16.5	25.5	
SRP7028A-R68M	0.68	± 20	15	67	4.8	5.5	15.5	25	
SRP7028A-R75M	0.75	± 20	15	65	5.5	6.6	14.5	24.5	
SRP7028A-R82M	0.82	± 20	15	61	6.7	8.0	13	24	
SRP7028A-1R0M	1.0	± 20	20	58	8.3	10.0	11	22	
SRP7028A-1R5M	1.5	± 20	20	38	13	15.0	9	18	
SRP7028A-1R8M	1.8	± 20	20	36	14	17.0	8.5	16	
SRP7028A-2R2M	2.2	± 20	20	32	18	20.0	8	14	
SRP7028A-2R5M	2.5	± 20	20	30	20	22.0	7	13	
SRP7028A-3R3M	3.3	± 20	20	25	28	30.0	6	12	
SRP7028A-4R7M	4.7	± 20	20	21	37	40.0	5.5	10	
SRP7028A-5R6M	5.6	± 20	20	19	43	48.0	5	9	
SRP7028A-6R8M	6.8	± 20	20	18	54	60.0	4.5	8	
SRP7028A-8R2M	8.2	± 20	20	17	64	68.0	4	7.5	
SRP7028A-100M	10	± 20	20	14	75	85.0	3.5	6	
SRP7028A-150M	15	± 20	20	12	107	123.0	3.0	4	
SRP7028A-220M	22	± 20	20	10	165	190.0	2.0	3.5	
SRP7028A-330M	33	± 20	20	8	200	240.0	2.0	2.5	

How to Order

SRP7028A - 100M

Model
Value Code (see table)

Recommended Layout





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. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

General Specifications

.....55 °C to +150 °C (Temperature rise included)

Storage Temperature .. -55 °C to +150 °C Rated Current

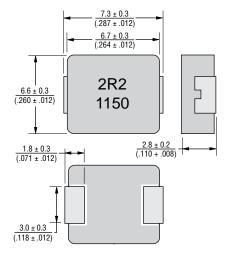
1 Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Materials

Please consult <u>Bourns® Model SRP-A</u>
<u>Series Visual Inspection Guide</u> for detailed construction, processing and testing information.

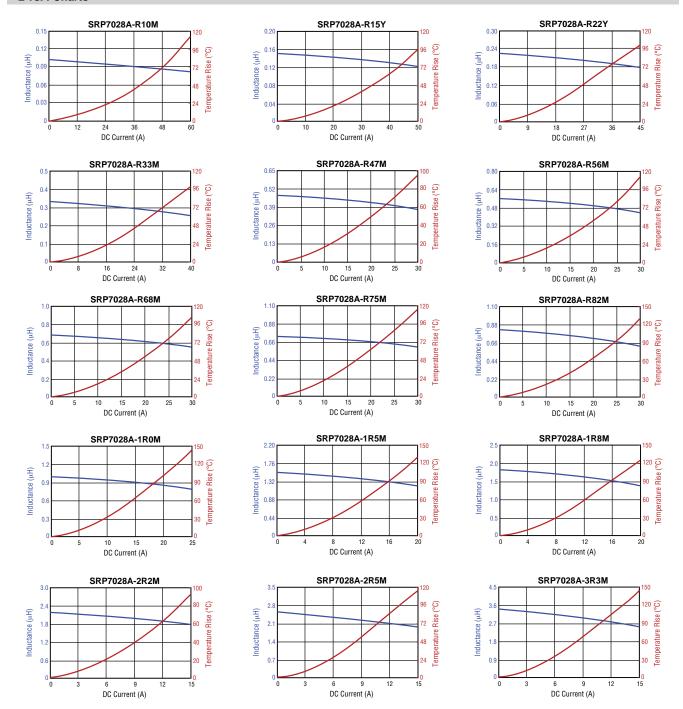
Product Dimensions

Lead Frame Terminal



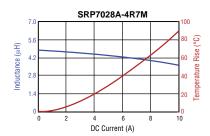
DIMENSIONS: $\frac{MM}{(INCHES)}$

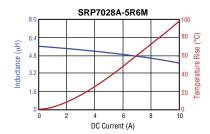
L vs. I Charts

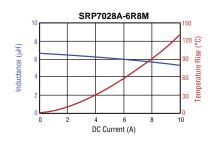


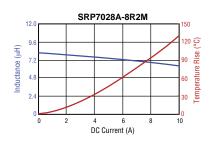
SRP7028A Series - Shielded Power Inductors

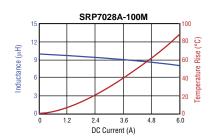
L vs. I Charts (Continued)

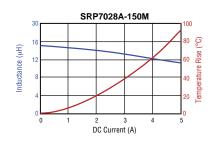


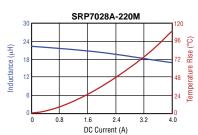


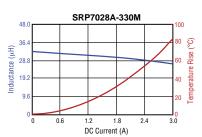




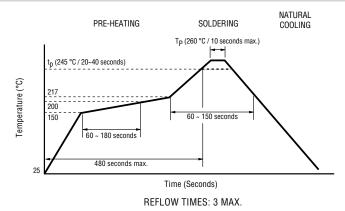








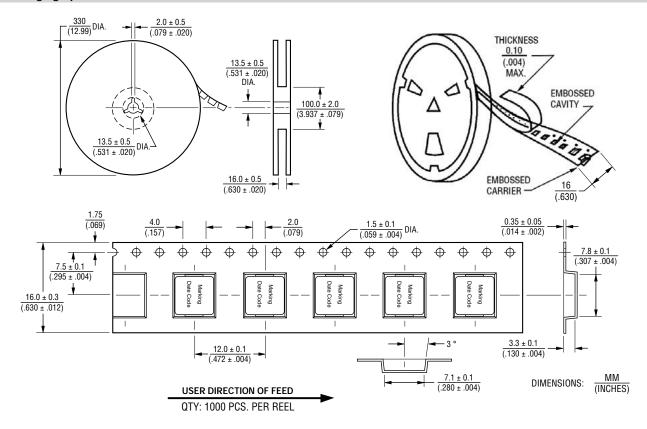
Soldering Profile



Electrical Schematic



Packaging Specifications



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 SRP7028A-2R2M

 SRP7028A-R33M
 SRP7028A-100M
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