

Features

- Shielded construction
- Metal alloy powder core
- High saturation current
- Low buzz noise
- Inductance range: 0.10 to 22 µH
- RoHS compliant* and halogen free**

SRP7028C Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

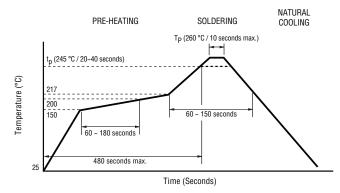
	Inductance @ 100 kHz / 1 V		Q (Min.)	SRF	DCR	DCR	Irms	Isat	
Bourns		Tol.	@100 kHz	(MHz)	$(m\Omega)$	$(m\Omega)$	(A)	(A)	Terminal
Part Number	L (μH)	(%)	/1 V	Тур.	Тур.	Max.	Тур.	Тур.	Туре
SRP7028C-R10M	0.10	± 20	5	196	1.2	1.7	37.5	60.0	
SRP7028C-R15M	0.15	± 20	5	190	1.5	1.9	27.0	50.0	
SRP7028C-R24M	0.24	± 30	10	118	2.5	3.1	23.0	39.0	
SRP7028C-R25M	0.25	± 20	10	118	2.5	3.1	23.0	39.0	
SRP7028C-R33M	0.33	± 20	10	115	3.5	3.9	20.0	32.0	
SRP7028C-R47M	0.47	± 20	10	62	4.0	4.3	17.5	27.0	
SRP7028C-R68M	0.68	± 20	15	55	4.8	5.5	15.5	25.0	
SRP7028C-1R0M	1.00	± 20	15	45	8.3	10.0	11.0	22.0	
SRP7028C-1R5M	1.50	± 20	15	40	11.0	14.0	9.0	18.0	Lead Frame
SRP7028C-2R2M	2.20	± 20	15	32	15.0	18.0	8.0	14.0	Traine
SRP7028C-3R3M	3.30	± 20	15	25	27.0	30.0	6.0	13.5	
SRP7028C-4R7M	4.70	± 20	15	21	37.0	40.0	5.5	10.0	
SRP7028C-6R8M	6.80	± 20	15	16	54.0	60.0	4.5	8.3	
SRP7028C-8R2M	8.20	± 20	15	15	60.0	66.0	4.1	6.8	
SRP7028C-100M	10.00	± 20	15	14	63.0	68.0	3.5	6.0	
SRP7028C-150M	15.00	± 20	20	12	107.0	123.0	3.0	4.0	
SRP7028C-220M	22.00	± 20	20	10	155.0	180.0	2.2	3.6	

How to Order

SRP7028C - 100M

Model Value Code (see table) Please consult Bourns® Model SRP-A Series Visual Inspection Guide for detailed construction, processing and testing information.

Soldering Profile



REFLOW TIMES: 3 MAX.

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 (CI) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (CI) 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 (Component)

-40 °C to +125 °C

Rated Current

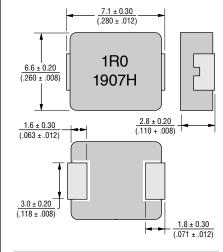
..... Inductance drops 30 % at Isat Temperature Rise ... 40 °C at rated Irms1 Moisture Sensitivity Level......1 ESD Classification (HBM).....N/A

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.

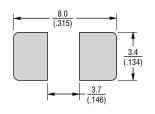
Materials

Core......Metal alloy powder WireEnameled copper Terminal Finish Sn/Ni Packaging..... 1000 pcs. per 13-inch reel

Product Dimensions



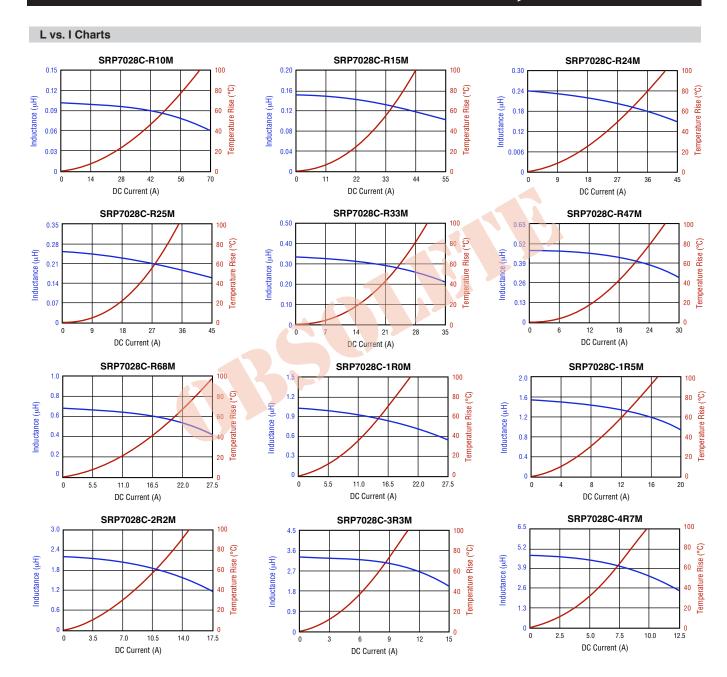
Recommended Layout



MM DIMENSIONS: (INCHES)

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BOURNS



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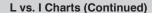
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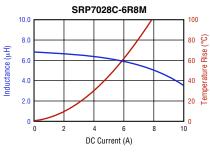
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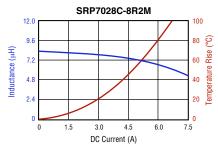
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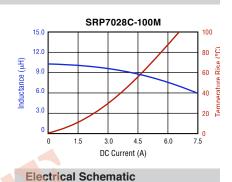
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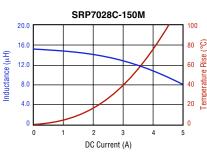
BOURNS







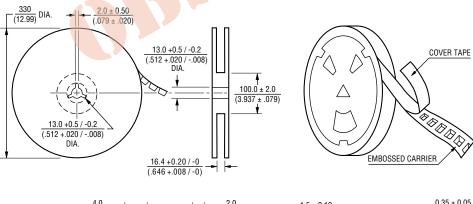


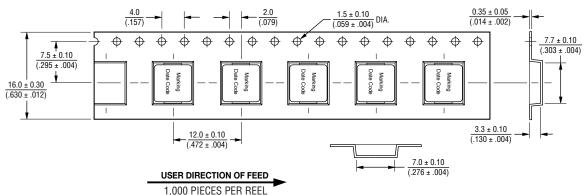






Packaging Specifications





REV. 05/22

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