

### **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 Part Number	L (μH)	Tol. (%)	@100 kHz /1 V	(MHz) Typ.	(mΩ) Typ.	(mΩ) Max.	(A) Typ.	(A) Typ.	Terminal Type
SRP7028C-R10M	0.10	± 20	5	196	1.2	1.7	37.5	60.0	турс
SRP7028C-R15M	0.15	± 20	5	190	1.5	1.9	27.0	50.0	Lead Frame
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	
SRP7028C-2R2M	2.20	± 20	15	32	15.0	18.0	8.0	14.0	
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	

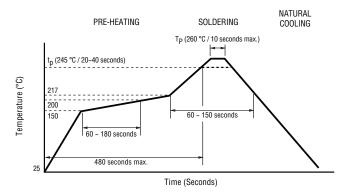
#### **How to Order**

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 (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**

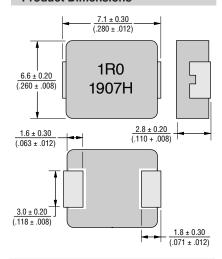
Operating Temperature

Rated Current

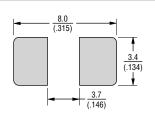
Note 1: Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

#### **Materials**

### **Product Dimensions**



### **Recommended Layout**

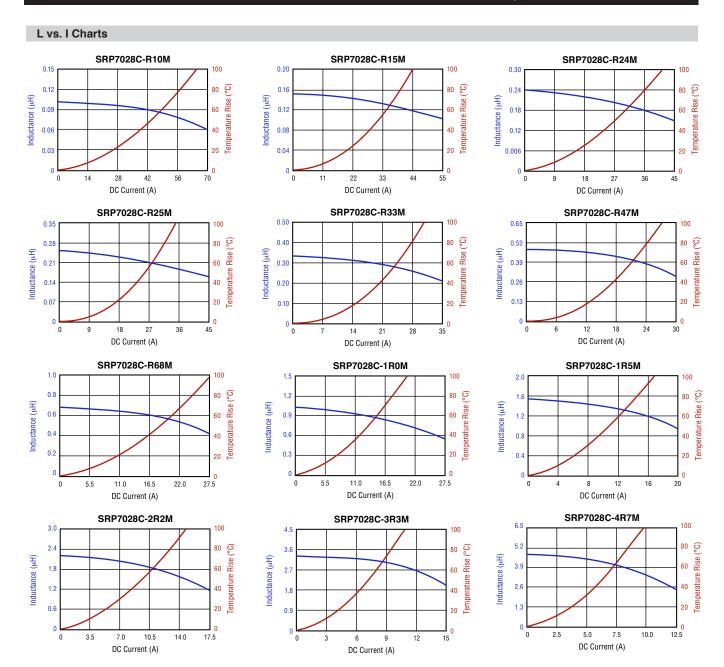


DIMENSIONS:

MM (INCHES)

# **SRP7028C Series - Shielded Power Inductors**

# BOURNS



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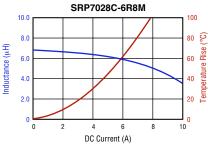
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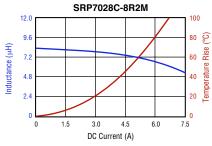
www.bourns.com

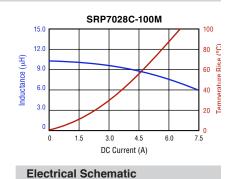
# **SRP7028C Series - Shielded Power Inductors**

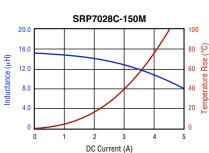
# BOURNS

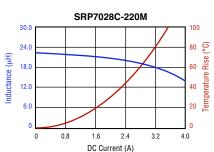
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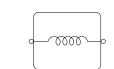




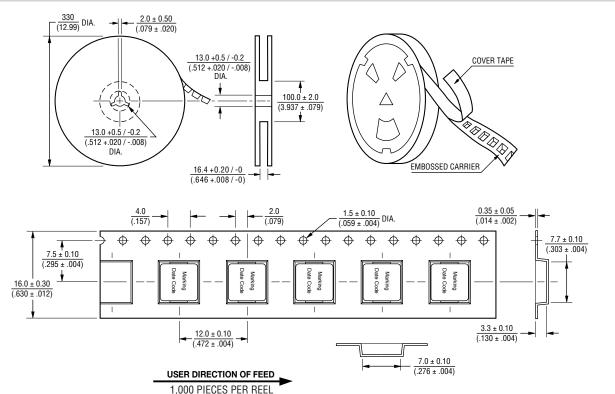








### **Packaging Specifications**



REV. 08/20

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Users should verify actual device performance in their specific applications.

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