




**THE DATASHEET OF  
SRP7030-6R8M**





### Features

- Shielded construction
- Unit height of 3.2 mm
- Inductance range: 0.1 to 10  $\mu$ H
- Current up to 32.5 A
- RoHS compliant\*

 This series is currently available, but not recommended for new designs. The newer [SRP7028A](#) series is recommended.

## SRP7030 Series - Shielded Power Inductors

### Electrical Specifications

Bourns Part No.	Inductance L ( $\mu$ H) $\pm 20\%$	I rms (A)	I sat (A)	DCR (m $\Omega$ ) Max.
SRP7030-R10M	0.10	32.5	42	1.7
SRP7030-R15M	0.15	26.0	38	2.5
SRP7030-R20M	0.20	24.0	36	3.0
SRP7030-R22M	0.22	23.0	36	2.8
SRP7030-R33M	0.33	20.0	30	3.9
SRP7030-R47M	0.47	17.5	26	4.2
SRP7030-R68M	0.68	15.5	23	5.5
SRP7030-R72M	0.72	15.5	23	5.5
SRP7030-R82M	0.82	13.0	20	8.0
SRP7030-1R0M	1.0	11.0	15	10.0
SRP7030-1R5M	1.5	9.0	14	15.0
SRP7030-1R8M	1.8	8.5	13	17.0
SRP7030-2R2M	2.2	8.0	12	20.0
SRP7030-3R3M	3.3	6.0	10	30.0
SRP7030-4R7M	4.7	5.5	6.5	40.0
SRP7030-6R8M	6.8	4.5	6.0	60.0
SRP7030-8R2M	8.2	4.0	5.5	68.0
SRP7030-100M	10.0	3.0	4.5	85.0

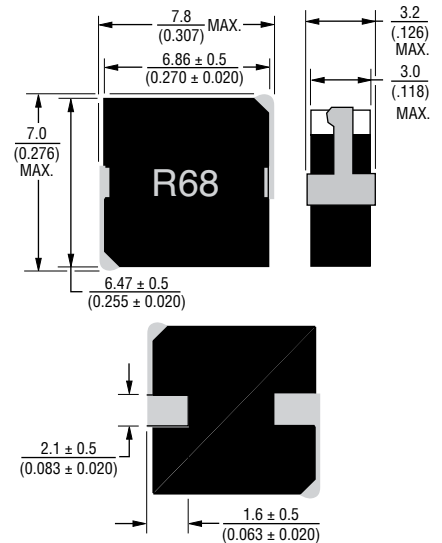
### General Specifications

Test Voltage ..... 1 V  
 Test Frequency ..... 100 KHz  
 Reflow Soldering .. 230 °C; 50 sec. max.  
 Operating Temperature ..... -40 °C to +125 °C  
 (Temperature rise included)  
 Storage Temperature (On Board) ..... -40 °C to +125 °C  
 Resistance to Soldering Heat ..... +260 °C for 10 sec.  
 Moisture Sensitivity Level ..... 1  
 ESD Classification (HBM) ..... N/A

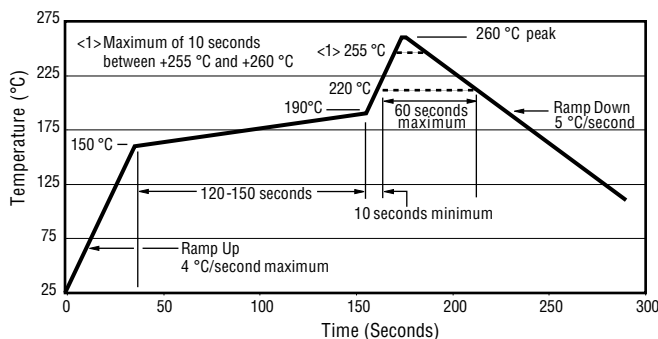
### Materials

Core ..... Iron  
 Wire ..... Enameled copper  
 Terminal ..... Cu/Sn  
 Rated Current .... Ind. drops 20 % at Isat  
 Temperature Rise .... 40 °C at rated Irms  
 Packaging ..... 1000 pcs. per 13-inch reel

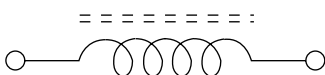
### Product Dimensions



### Soldering Profile



### Electrical Schematic



**WARNING Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

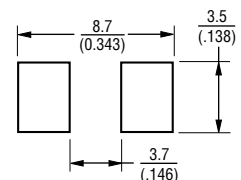
\*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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### Recommended Layout

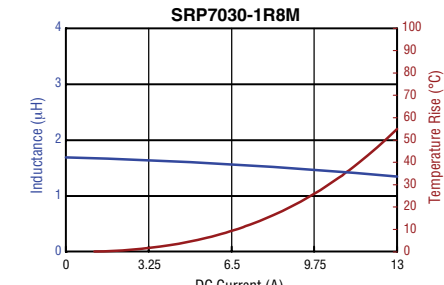
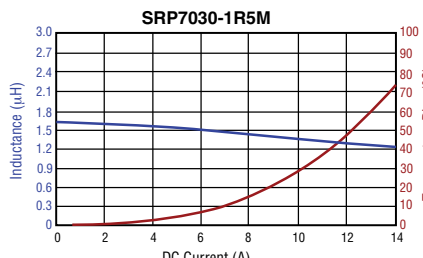
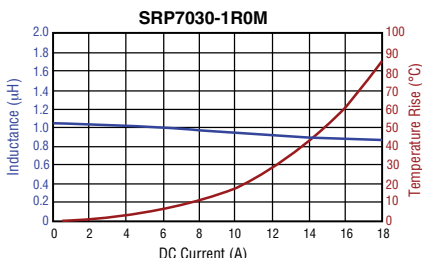
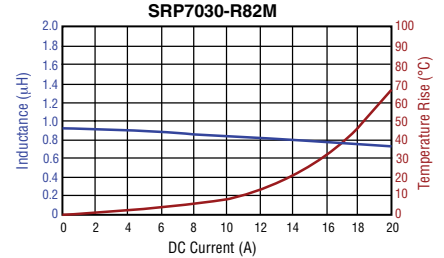
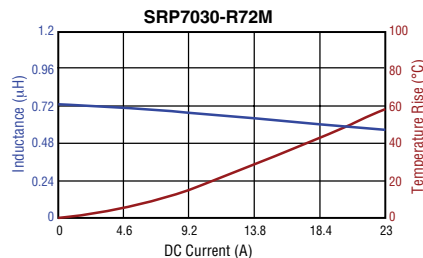
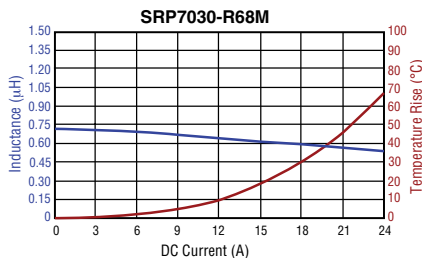
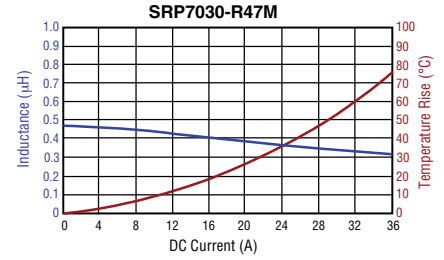
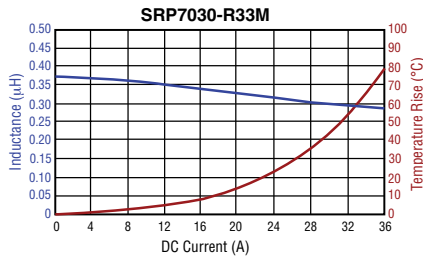
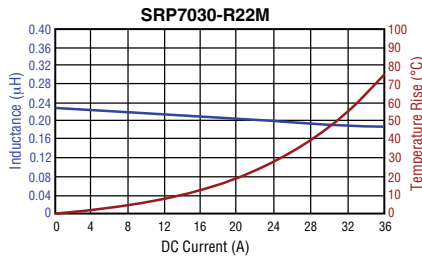
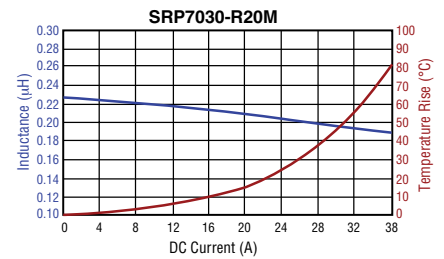
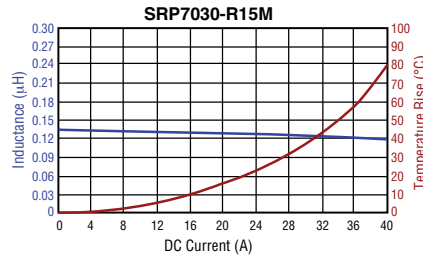
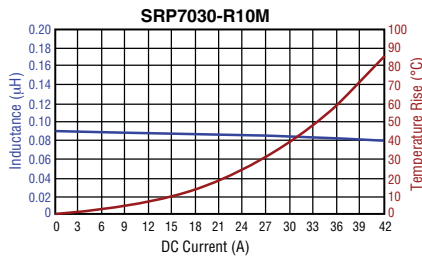


DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

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## L vs. I Charts

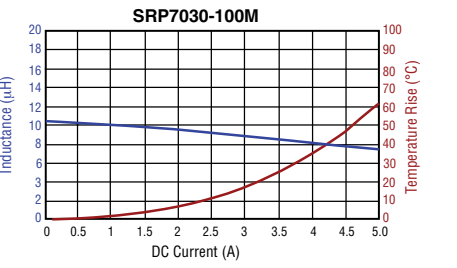
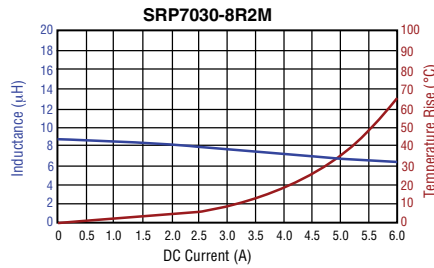
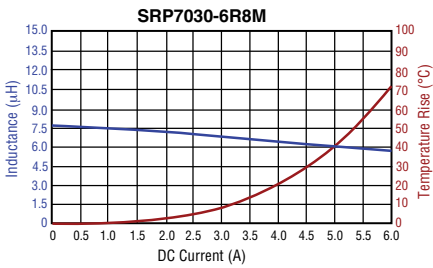
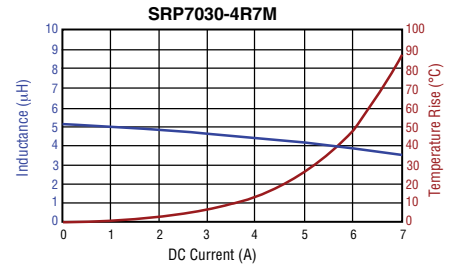
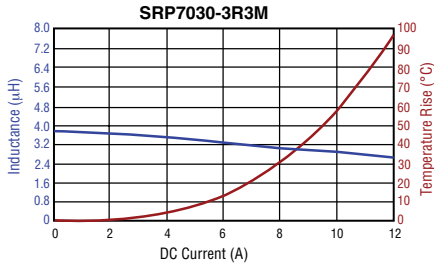
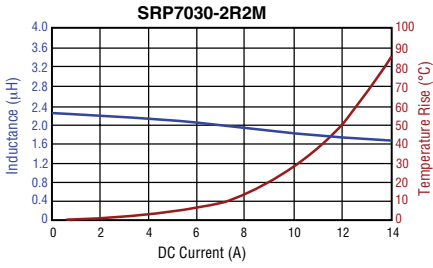


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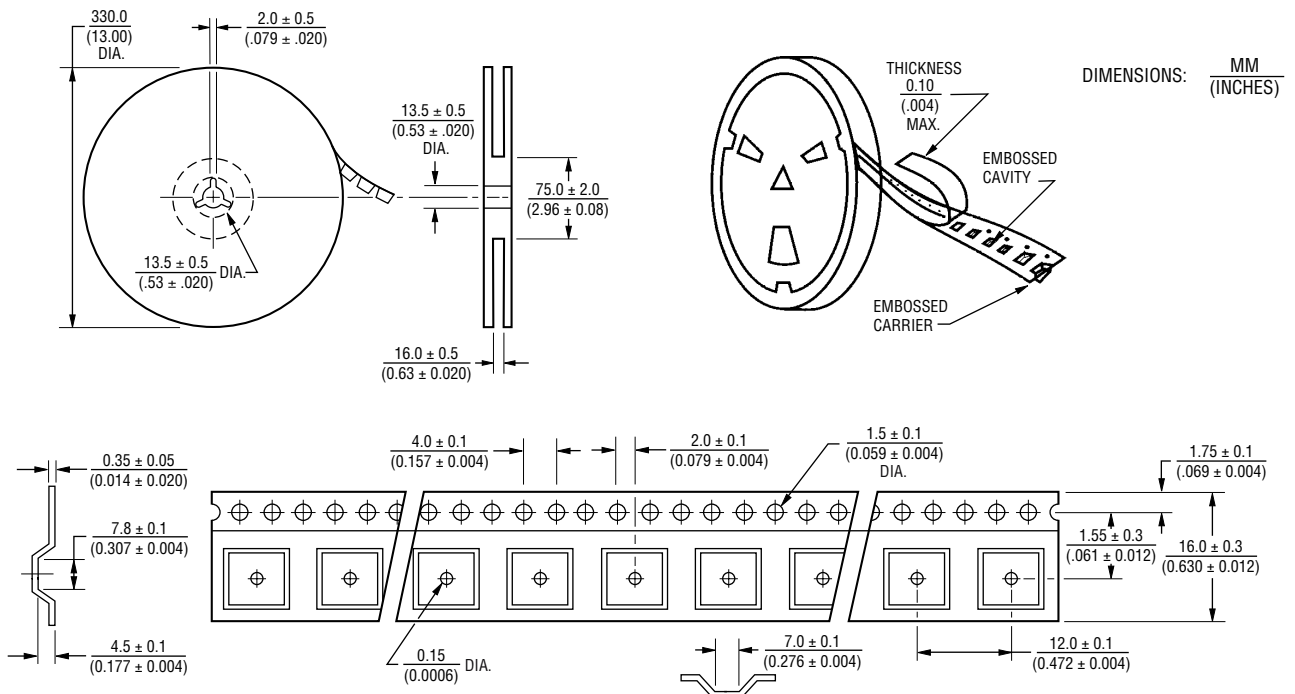
# SRP7030 Series - Shielded Power Inductors

**BOURNS®**

## L vs. I Charts



## Packaging Specifications



REV. 06/19

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