



## 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\*

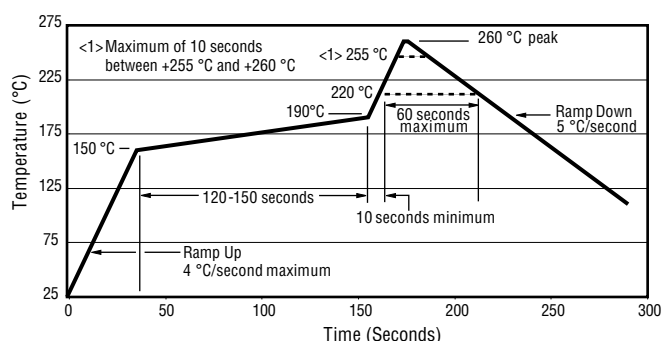
 This series is currently available, but not recommended for new designs. The newer [SRP7028A](#) series is recommended.

## SRP7030 Series - Shielded Power Inductors

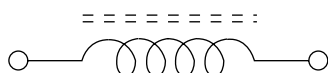
### Electrical Specifications

| Bourns Part No. | Inductance<br>L ( $\mu$ H) $\pm 20\%$ | I rms<br>(A) | I sat<br>(A) | DCR<br>(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                      |

### 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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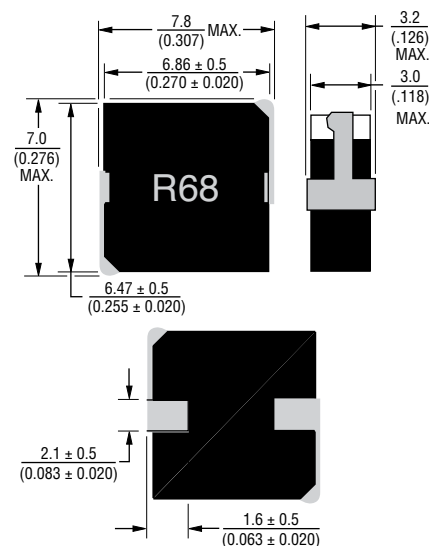
### General Specifications

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

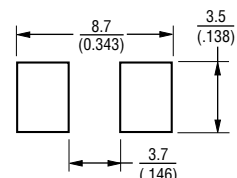
### Materials

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



### Recommended Layout

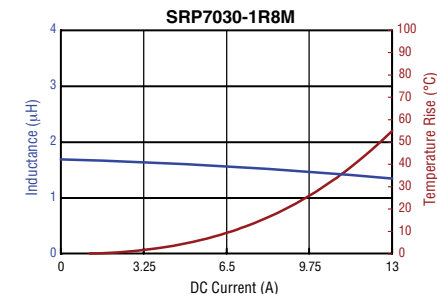
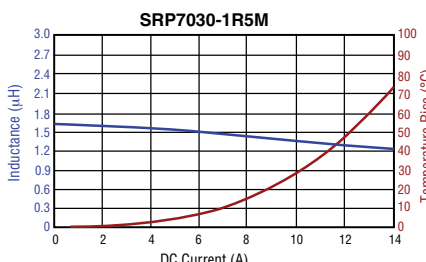
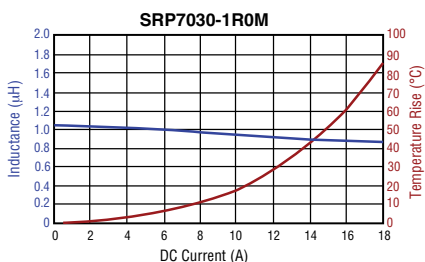
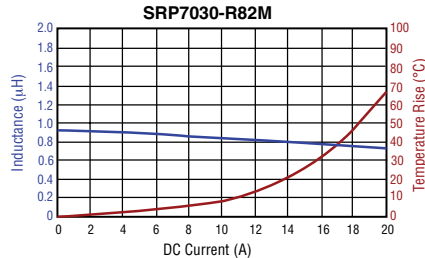
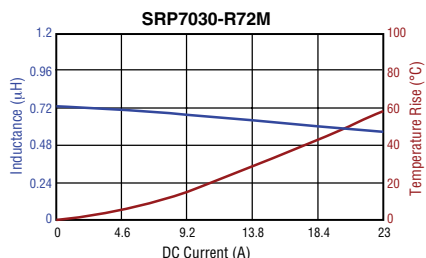
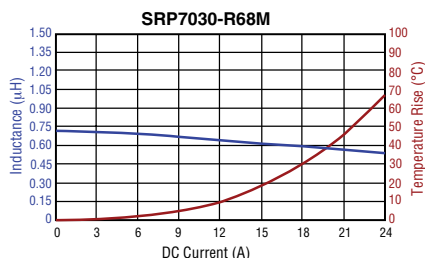
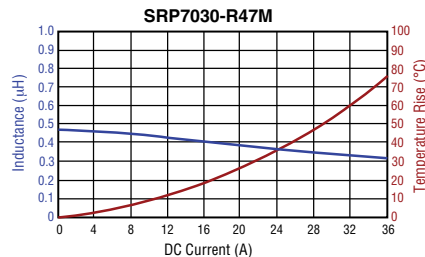
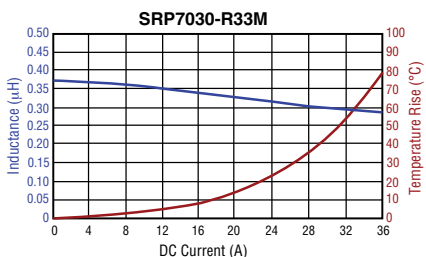
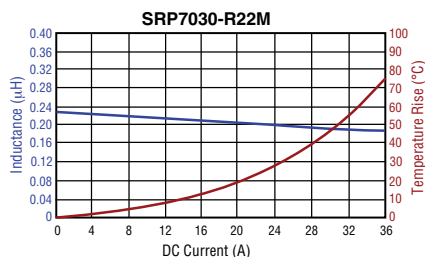
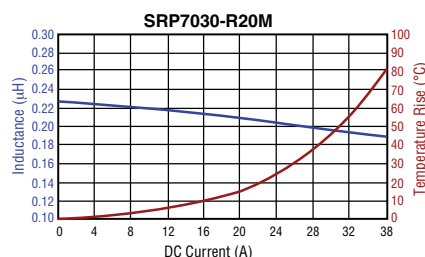
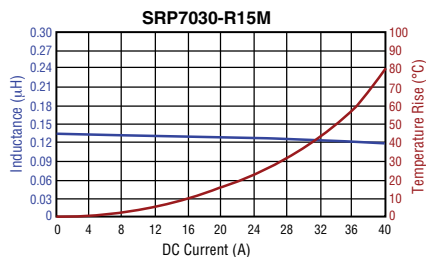
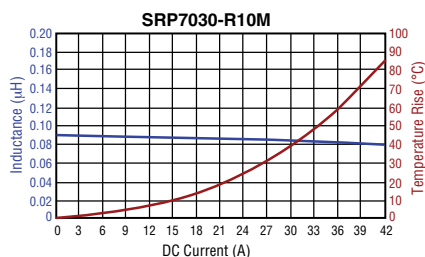


DIMENSIONS:  $\frac{\text{MM}}{(\text{INCHES})}$

# SRP7030 Series - Shielded Power Inductors

**BOURNS®**

## L vs. I Charts



Specifications are subject to change without notice.

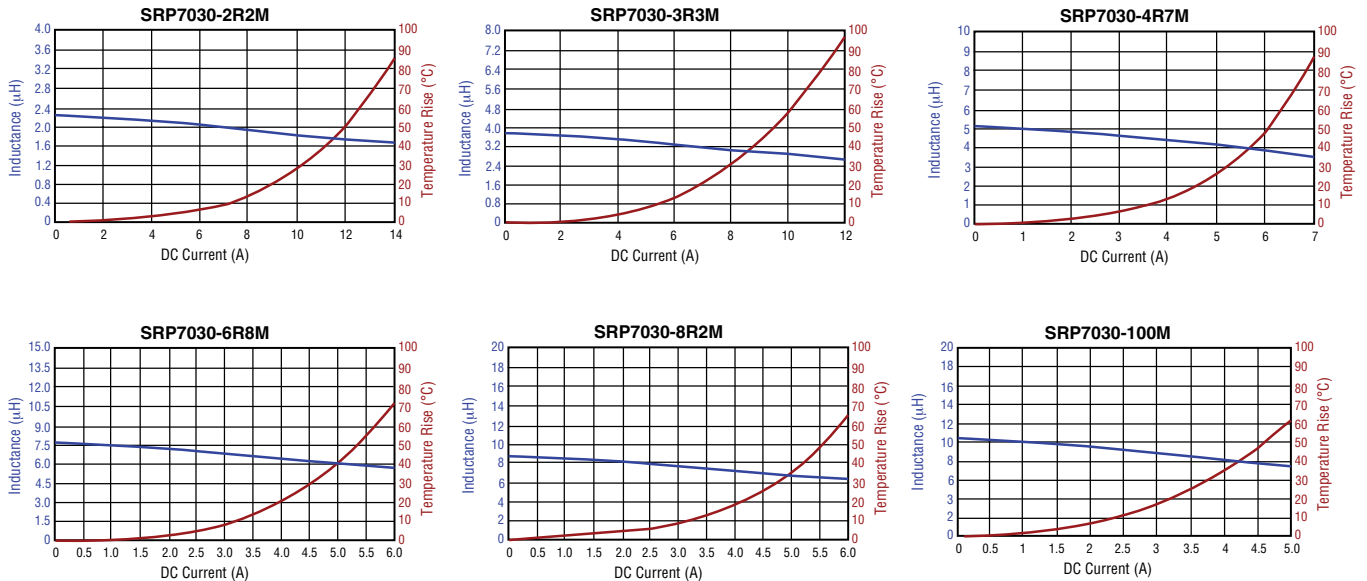
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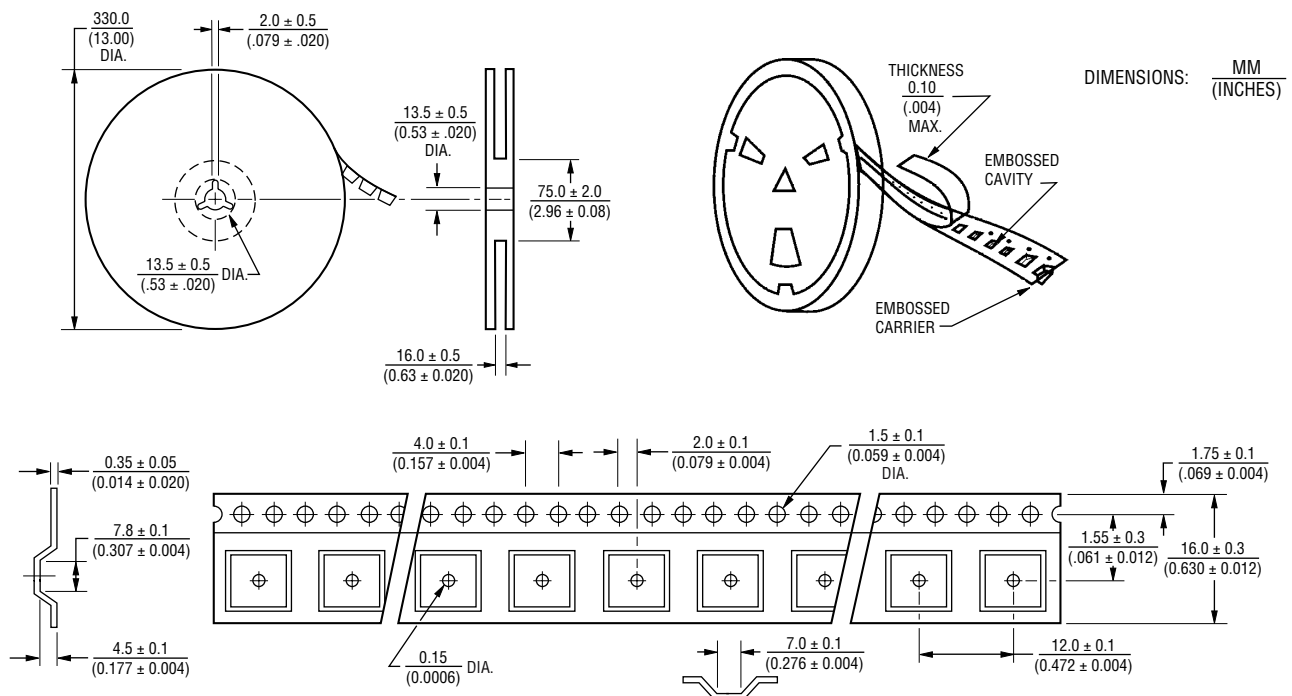
# SRP7030 Series - Shielded Power Inductors

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## L vs. I Charts



## Packaging Specifications



REV. 06/19

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