



### Features

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

### Applications

- Input/output of DC/DC converters
- Power supplies for:
  - Portable communications equipment
  - Camcorders
  - LCD TVs
  - Car audio systems

## 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                   |

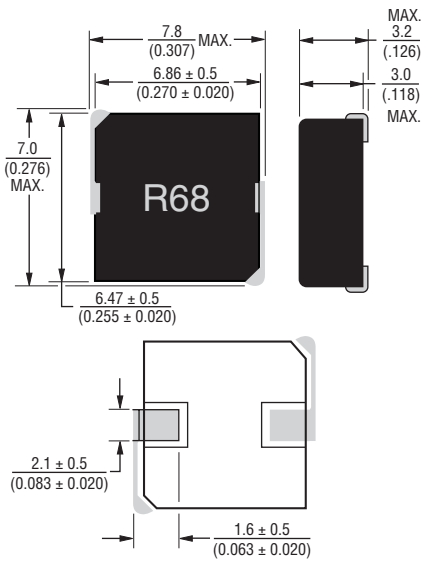
### General Specifications

Test Voltage.....0.25 V  
 Test Frequency .....100 KHz  
 Reflow Soldering.....230 °C; 50 sec max.  
 Operating Temperature...-55 °C to +150 °C  
 (Temperature rise included)  
 Storage Temperature...-55 °C to +150 °C  
 Resistance to Soldering Heat  
 .....+260 °C for 10 sec.

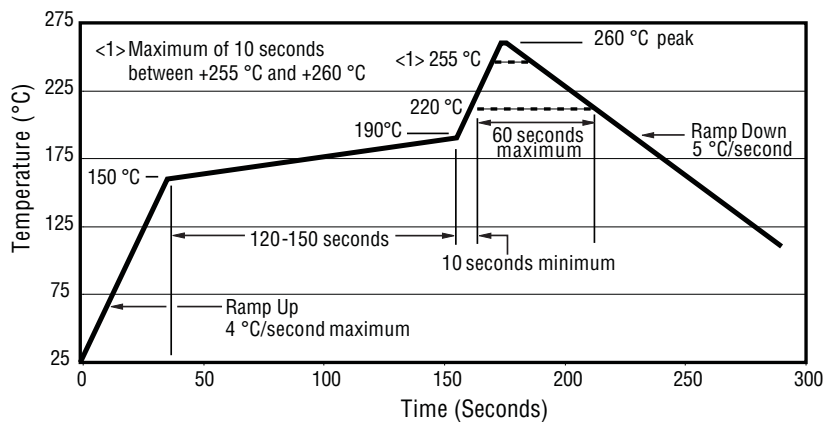
### Materials

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

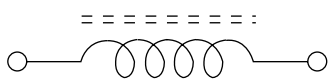
### Product Dimensions



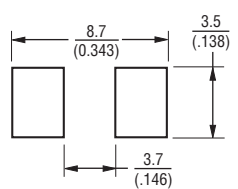
### Soldering Profile



### Electrical Schematic



### Recommended Layout



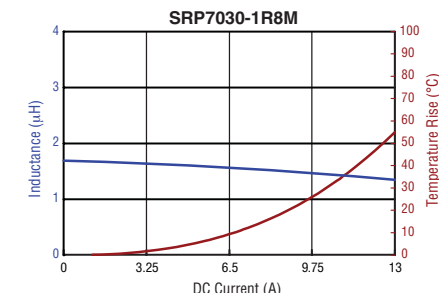
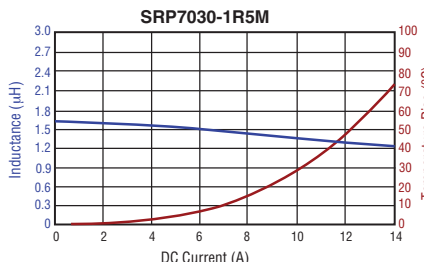
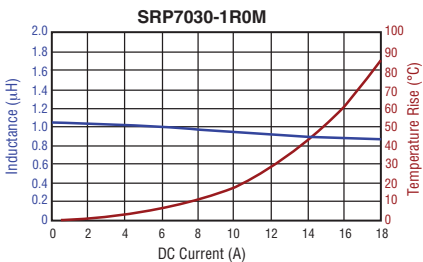
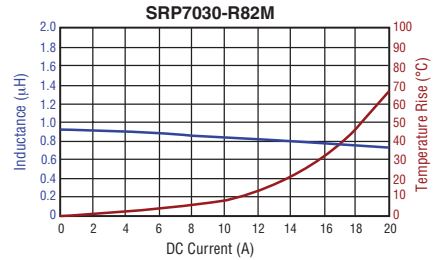
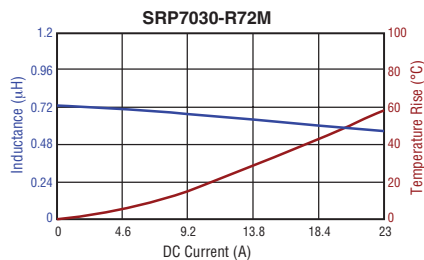
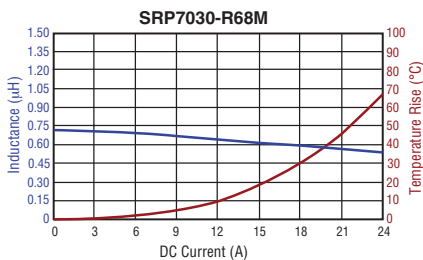
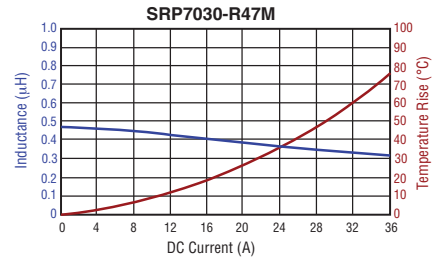
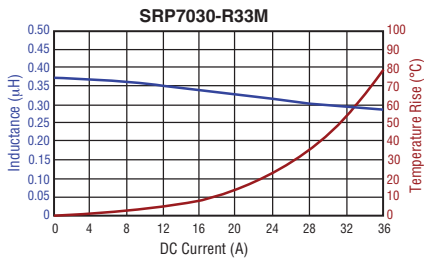
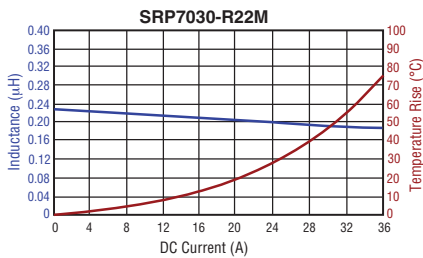
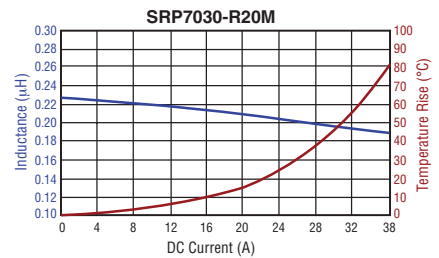
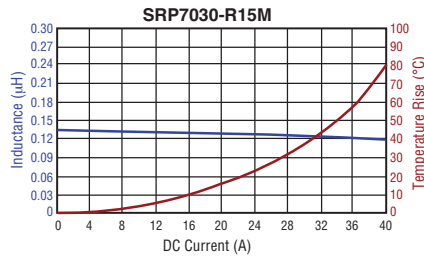
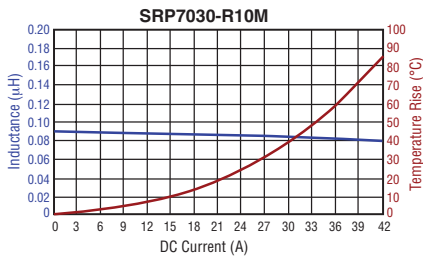
DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

\*RoHS Directive 2002/95/EC Jan 27 2003 including Annex  
 Specifications are subject to change without notice.  
 Customers should verify actual device performance in their specific applications.

# SRP7030 Series - Shielded Power Inductors

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## L vs. I Charts

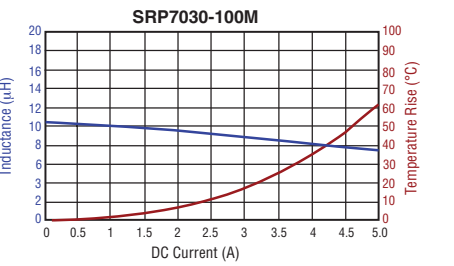
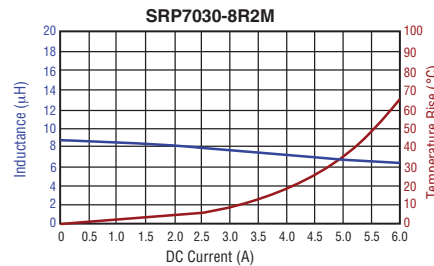
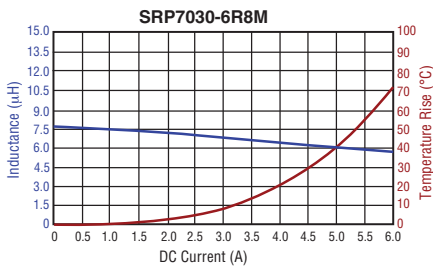
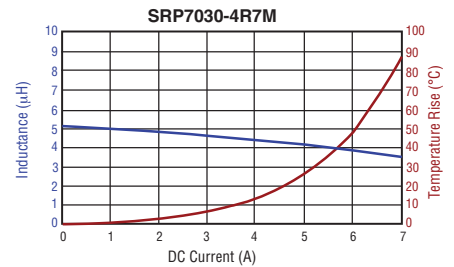
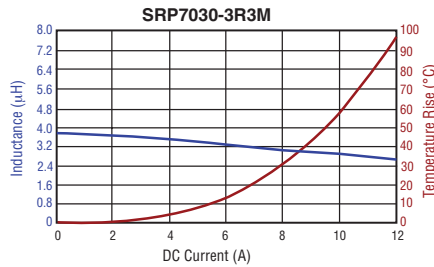
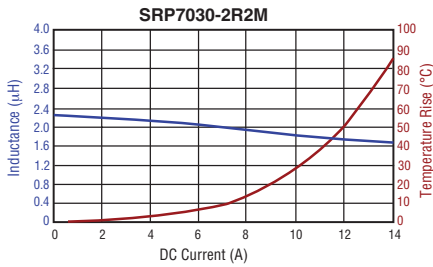


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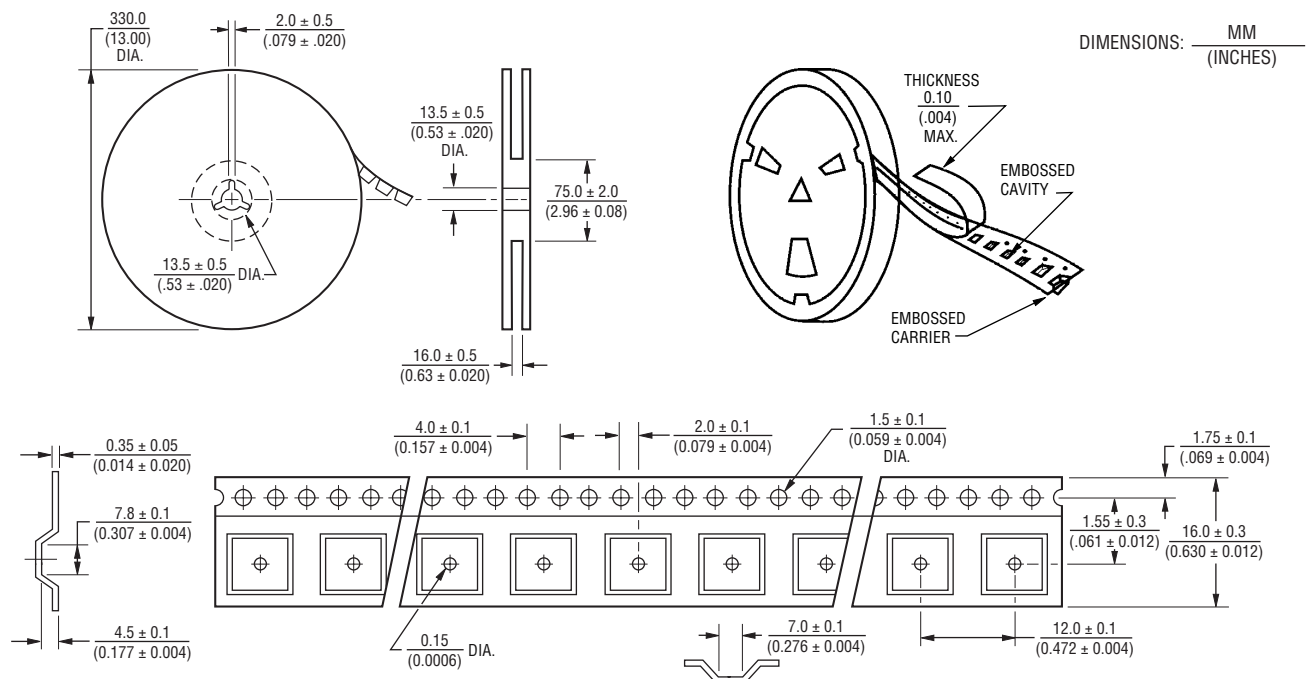
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## L vs. I Charts



## Packaging Specifications



REV. 05/10

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