

### Features

- Shielded construction
- Flat wire
- Unit height as low as 3.0 mm
- Inductance range: 0.1 to 10  $\mu$ H
- Rated current up to 32 A
- RoHS compliant\*



This series is currently available but not recommended for new designs. The newer **SRP7028A** series is recommended.

## SRP7030F 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-R10FM   | 0.10                               | 32        | 60        | 1.7                    |
| SRP7030-R15FM   | 0.15                               | 28        | 37        | 1.99                   |
| SRP7030-R20FM   | 0.20                               | 23        | 34        | 2.4                    |
| SRP7030-R22FM   | 0.22                               | 23        | 34        | 2.4                    |
| SRP7030-R33FM   | 0.33                               | 18        | 25        | 3.4                    |
| SRP7030-R47FM   | 0.47                               | 17        | 19        | 4.5                    |
| SRP7030-R56FM   | 0.56                               | 15        | 17        | 5                      |
| SRP7030-R68FM   | 0.68                               | 15        | 17        | 5                      |
| SRP7030-R82FM   | 0.82                               | 12        | 14        | 6.6                    |
| SRP7030-1R0FM   | 1.0                                | 11        | 13        | 7                      |
| SRP7030-1R1FM   | 1.1                                | 11        | 13        | 7                      |
| SRP7030-1R5FM   | 1.5                                | 10        | 12        | 10                     |
| SRP7030-2R2FM   | 2.2                                | 7         | 11        | 20                     |
| SRP7030-3R3FM   | 3.3                                | 7         | 10        | 24                     |
| SRP7030-4R7FM   | 4.7                                | 5         | 7         | 35                     |
| SRP7030-5R6FM   | 5.6                                | 5         | 6         | 45                     |
| SRP7030-6R8FM   | 6.8                                | 4.5       | 5.5       | 50                     |
| SRP7030-8R2FM   | 8.2                                | 4.5       | 5         | 54                     |
| SRP7030-100FM   | 10                                 | 3.5       | 5         | 60                     |

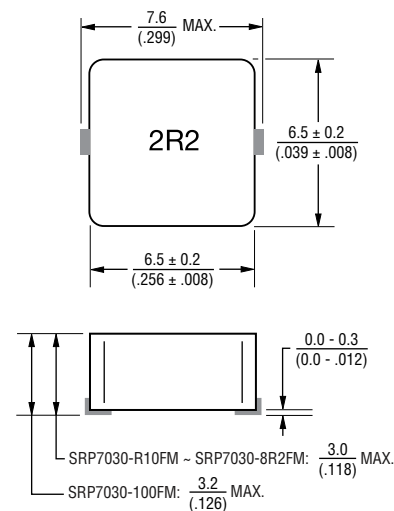
### General Specifications

Test Voltage ..... 0.25 V  
 Test Frequency ..... 100 KHz  
 Reflow Soldering .. 230 °C; 50 sec. max.  
 Operating Temperature  
 ..... -55 °C to +125 °C  
 (Temperature rise included)  
 Storage Temperature  
 ..... -55 °C to +125 °C  
 Resistance to Soldering Heat  
 ..... +260 °C for 10 sec.

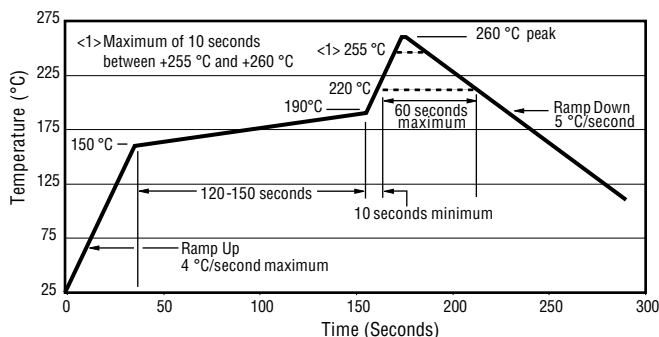
### Materials

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

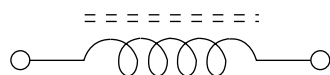
### Product Dimensions



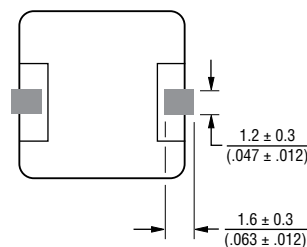
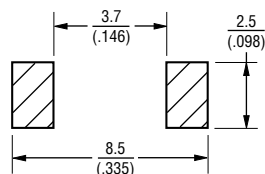
### Soldering Profile



### Electrical Schematic



### Recommended Layout



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

\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at [www.bourns.com/docs/legal/disclaimer.pdf](http://www.bourns.com/docs/legal/disclaimer.pdf).

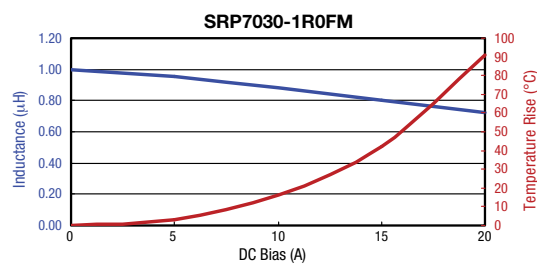
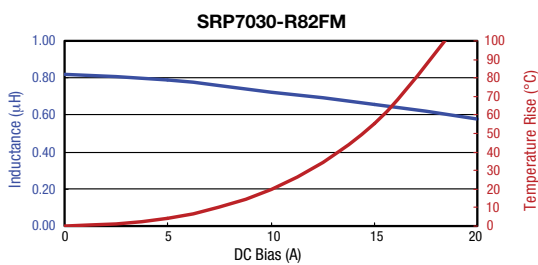
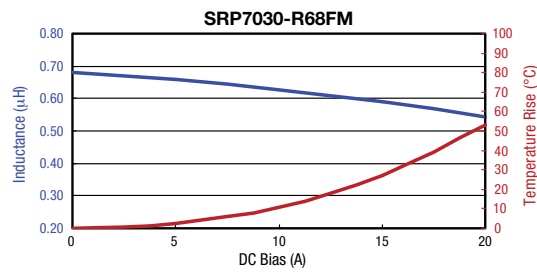
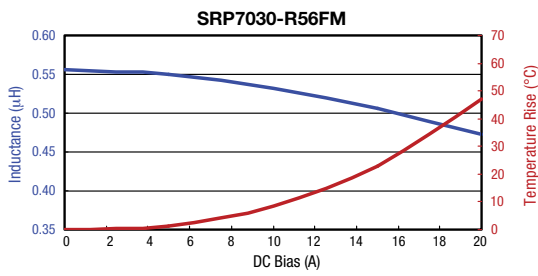
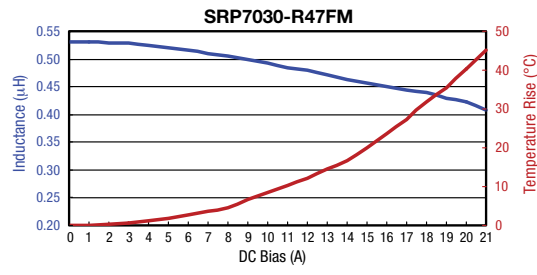
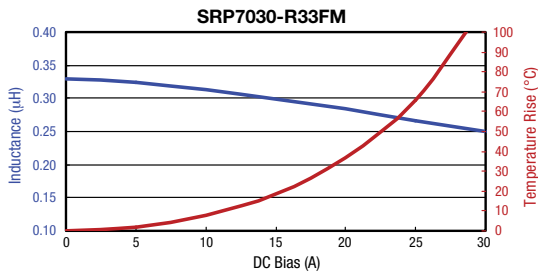
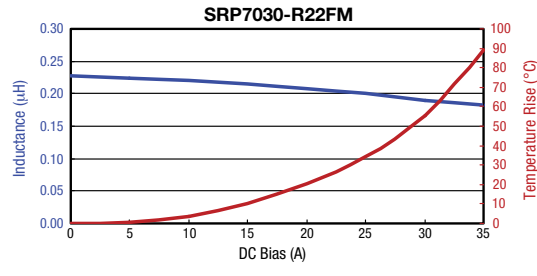
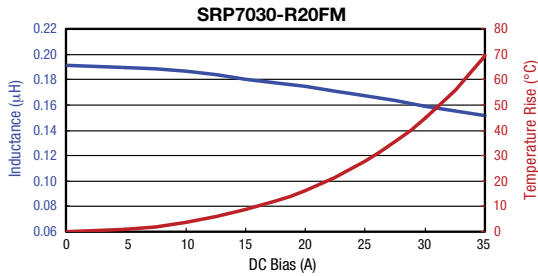
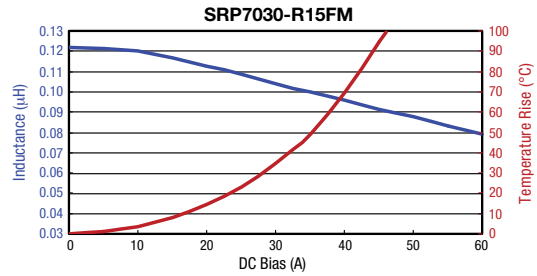
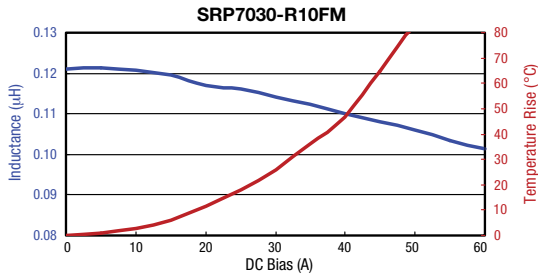
## Applications

- DC/DC converters
- Power supplies for:
  - Portable communications equipment
  - Laptop computers
  - Camcorders, HDTV, car audio systems
  - Video game consoles

# SRP7030F Series - Shielded Power Inductors

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### L vs. I Charts

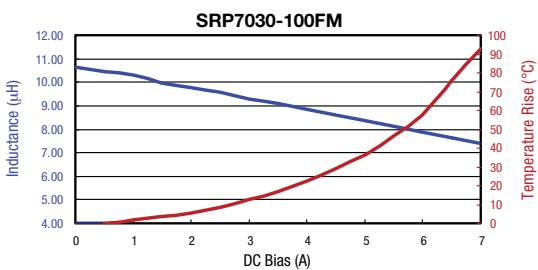
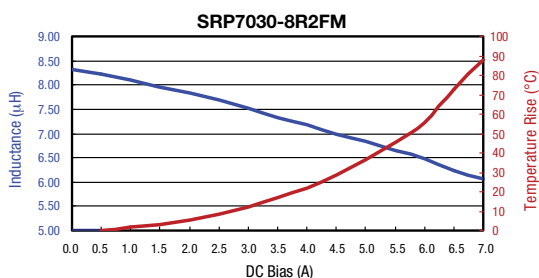
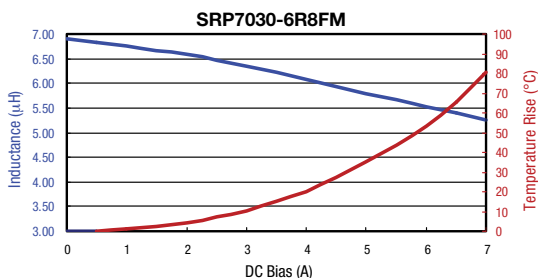
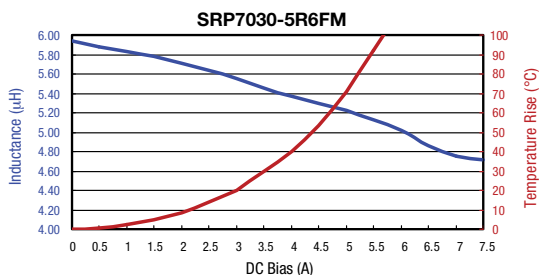
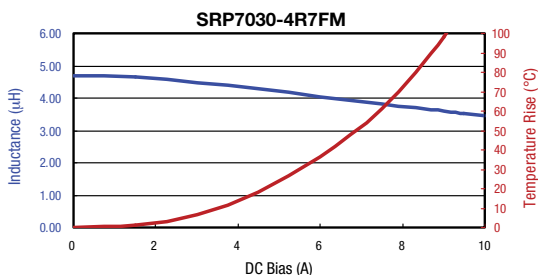
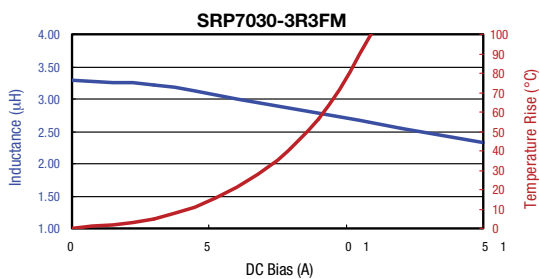
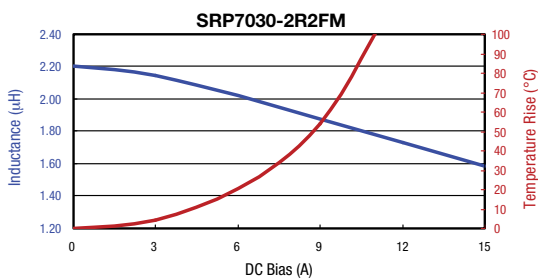
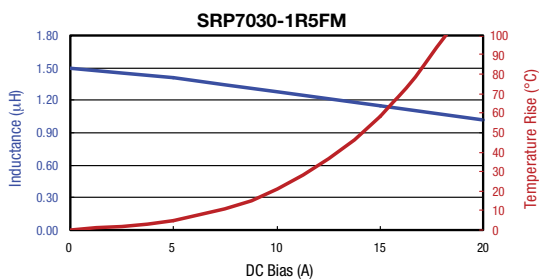
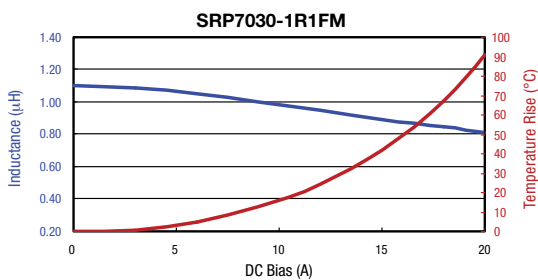


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# SRP7030F Series - Shielded Power Inductors

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## L vs. I Charts

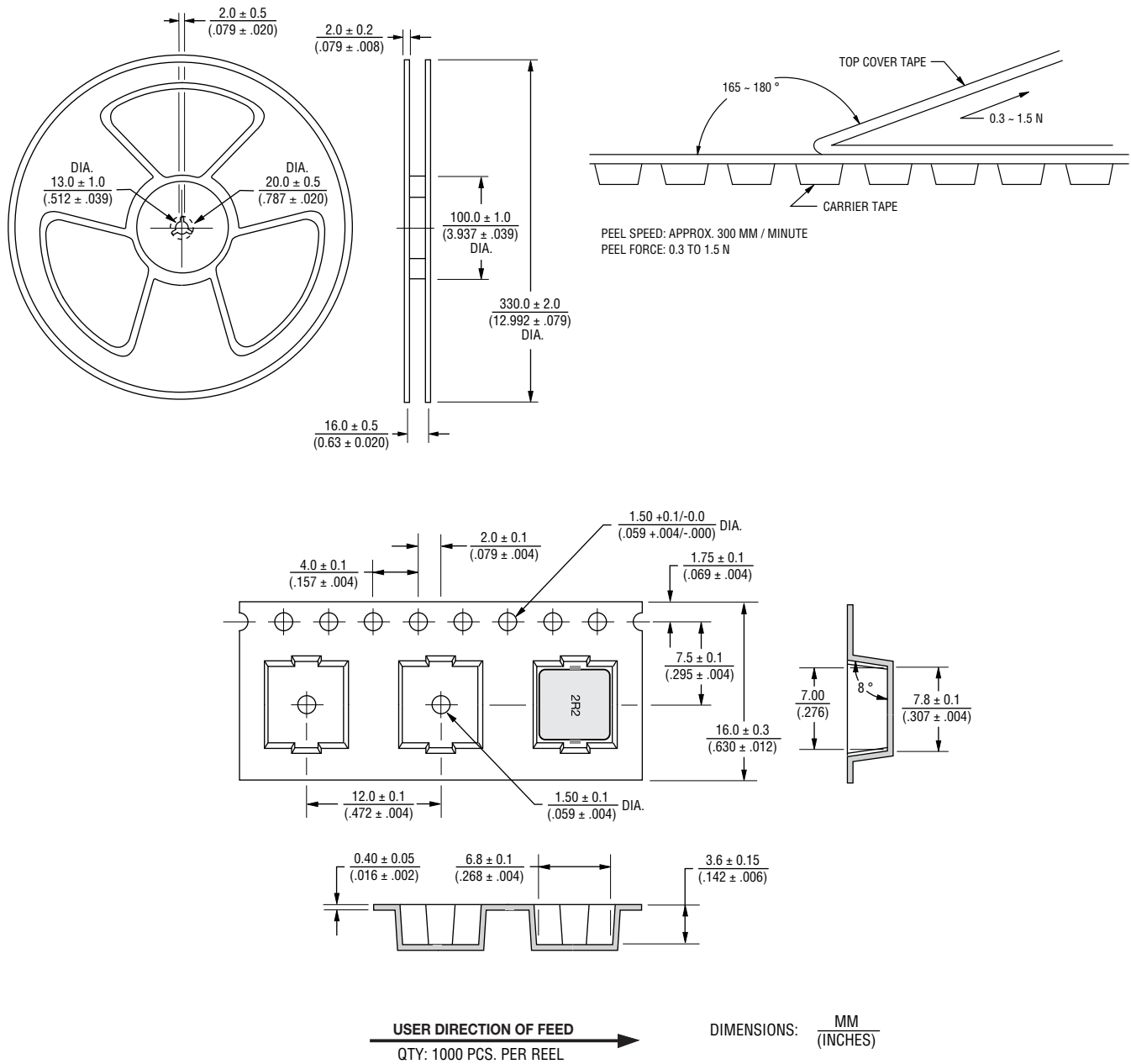


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## Packaging Specifications



REV. 02/17

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