

## 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

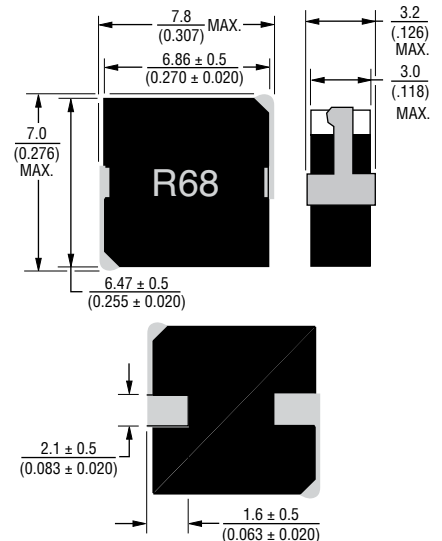
## General Specifications

Test Voltage ..... 0.25 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) ..... 3B

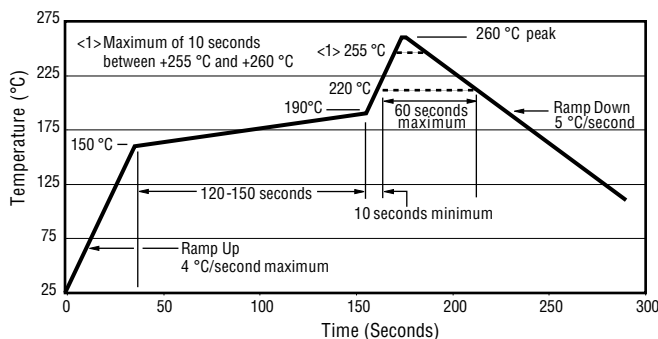
## Materials

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

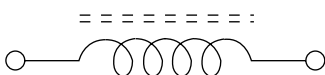
## Product Dimensions



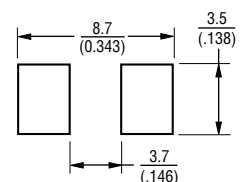
## Soldering Profile



## 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.

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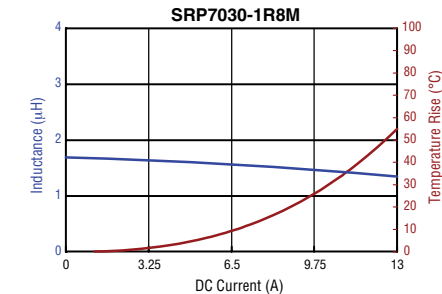
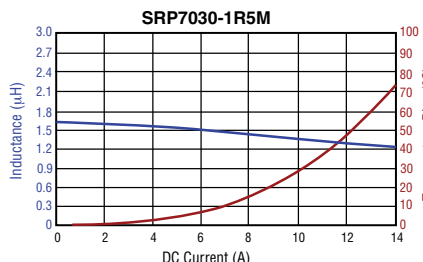
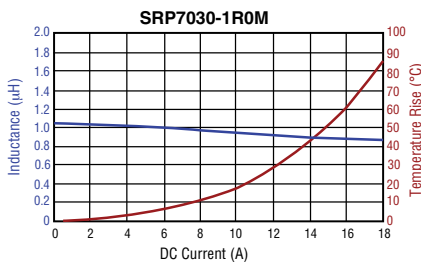
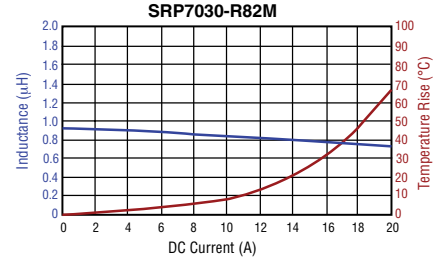
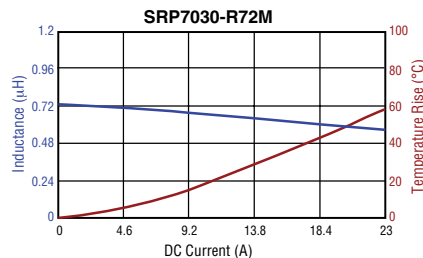
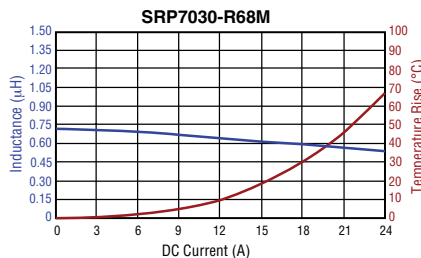
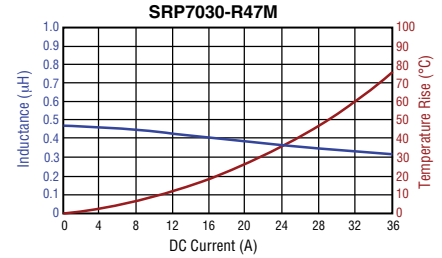
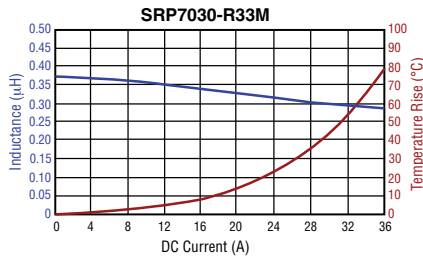
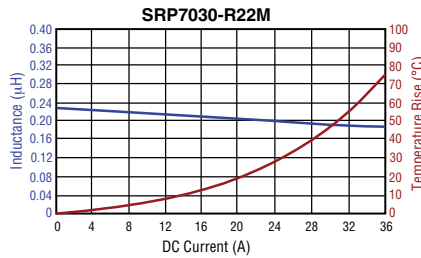
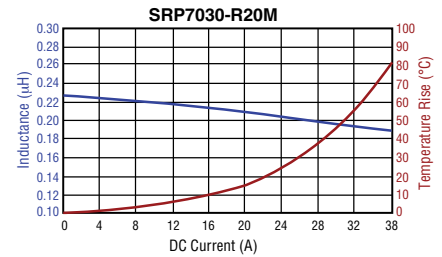
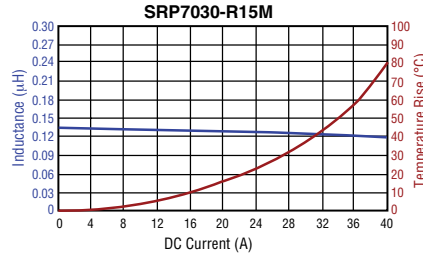
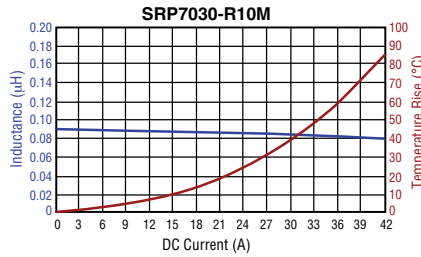
## Applications

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

# SRP7030 Series - Shielded Power Inductors

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### L vs. I Charts

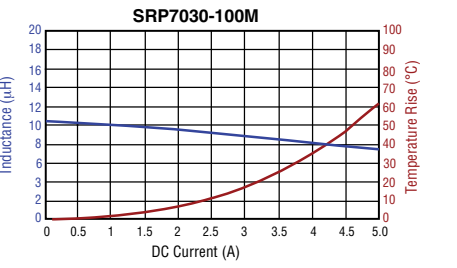
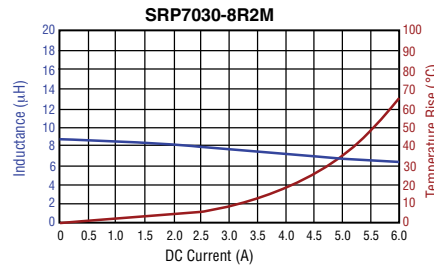
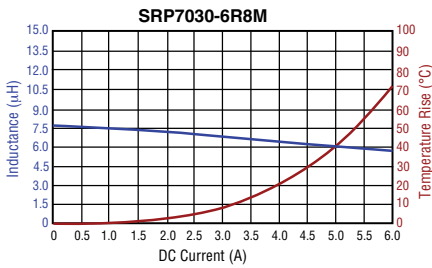
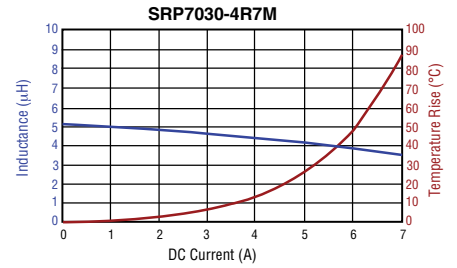
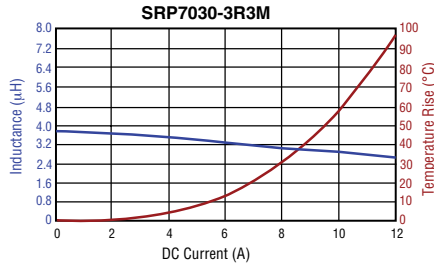
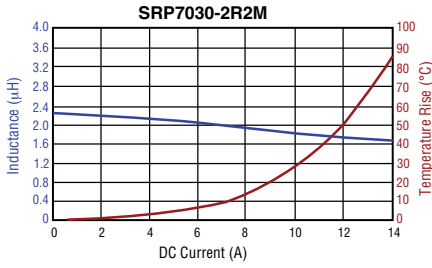


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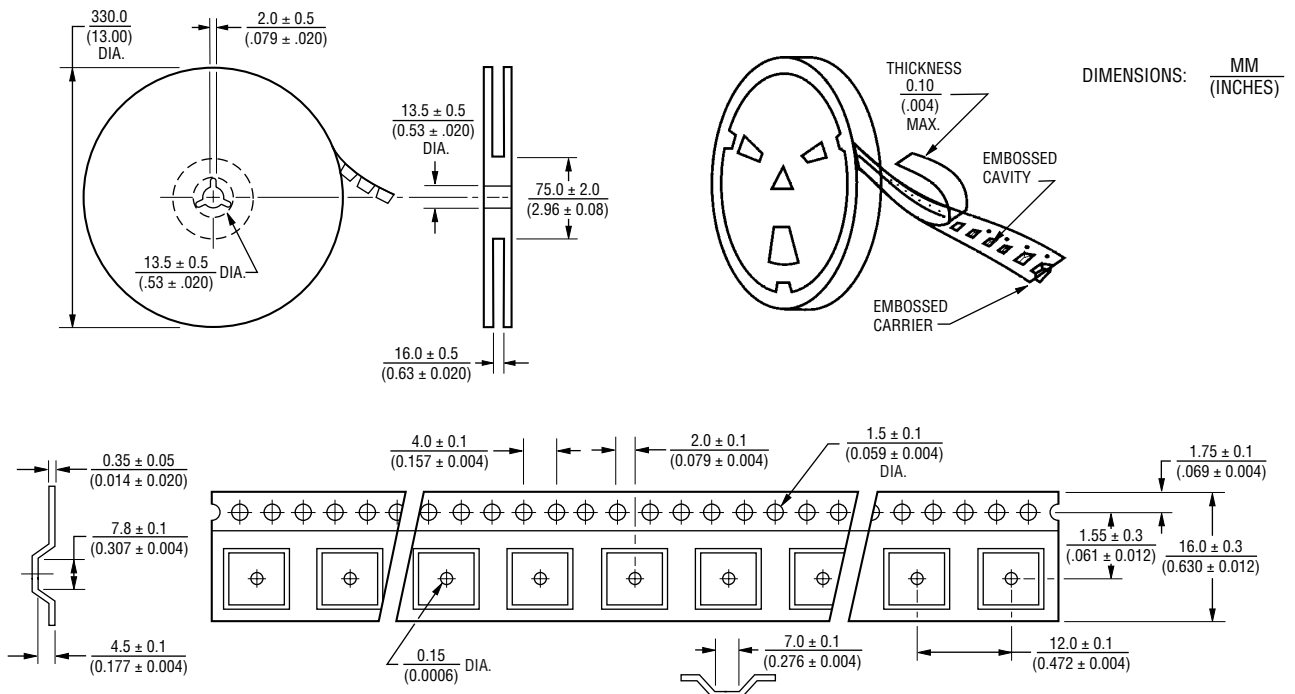
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## L vs. I Charts



## Packaging Specifications



REV. 06/17

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