



**THE DATASHEET OF
SRP7030-1R0M**





Features

- Shielded construction
- Unit height of 3.2 mm
- Inductance range: 0.1 to 10 μ 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 (μ H) $\pm 20\%$ | I rms (A) | I sat (A) | DCR (m Ω) 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 |

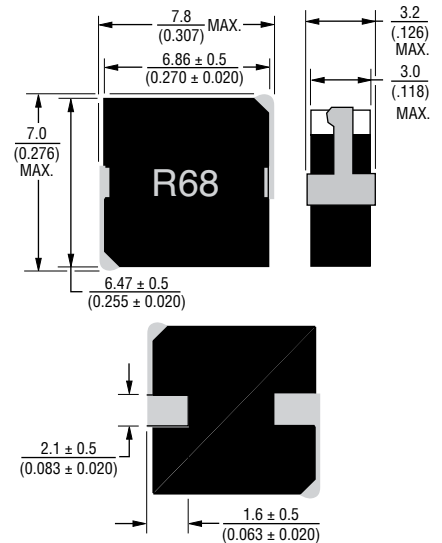
General Specifications

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

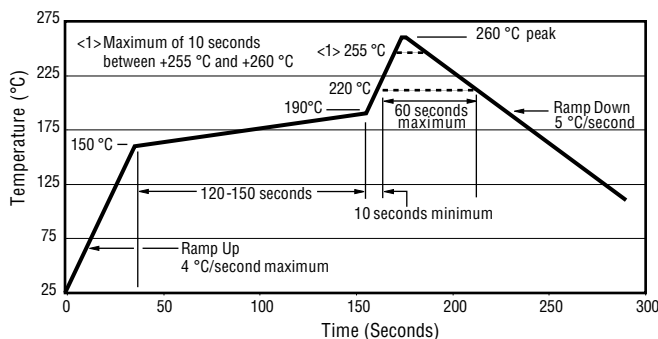
Materials

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

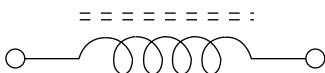
Product Dimensions



Soldering Profile



Electrical Schematic



WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

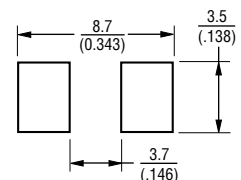
*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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Recommended Layout

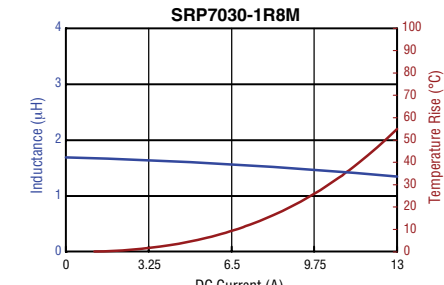
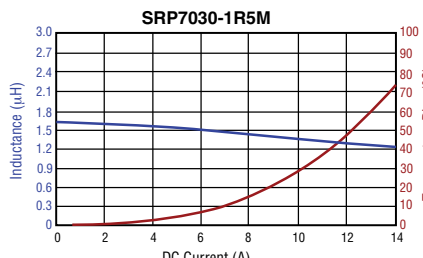
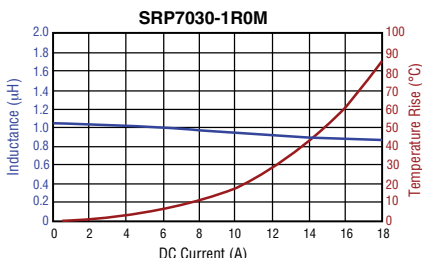
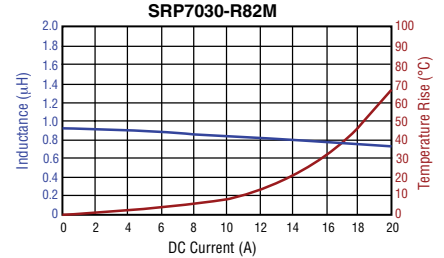
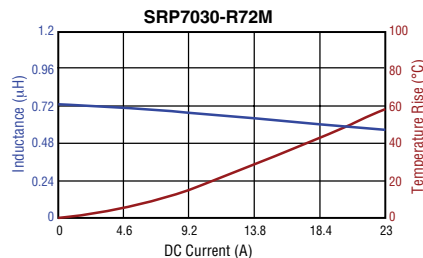
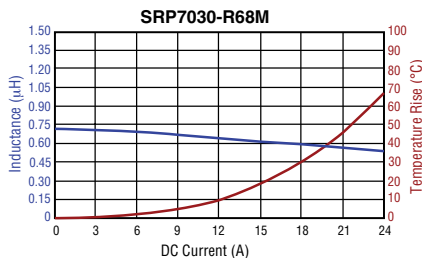
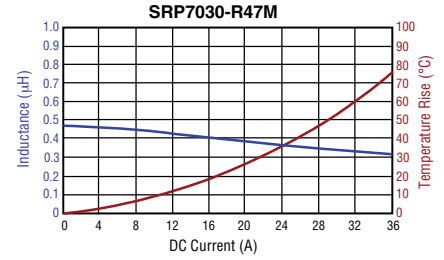
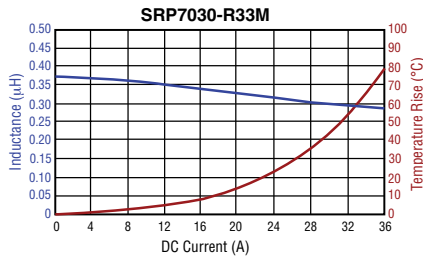
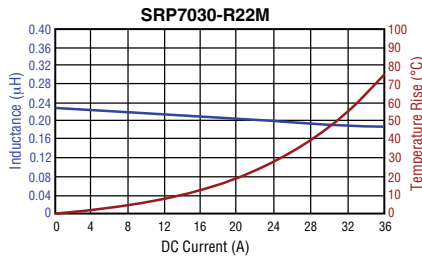
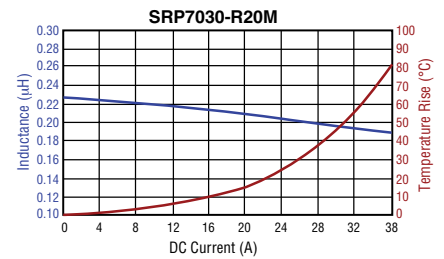
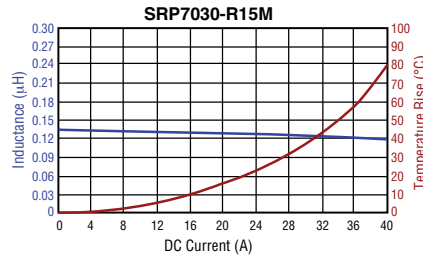
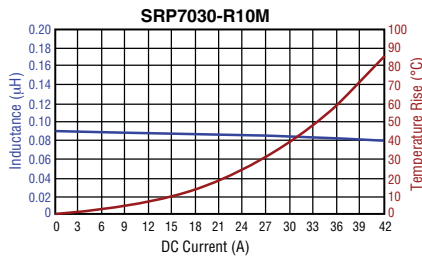


DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

SRP7030 Series - Shielded Power Inductors

BOURNS®

L vs. I Charts

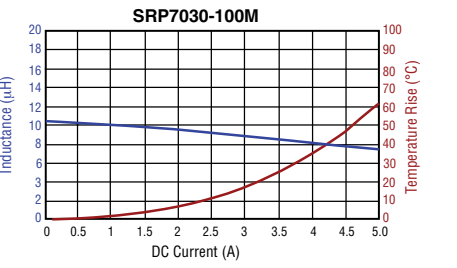
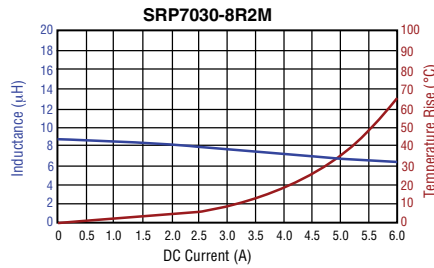
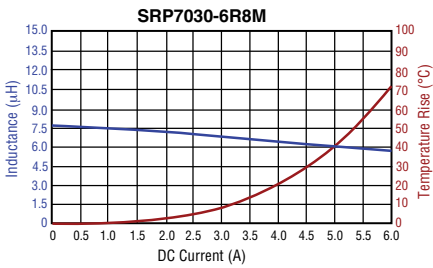
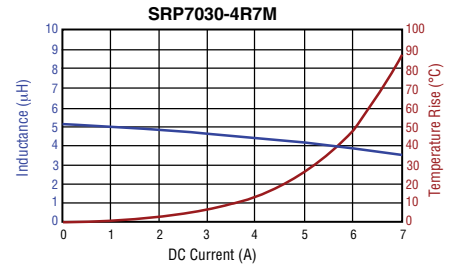
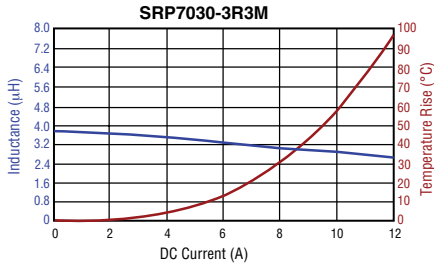
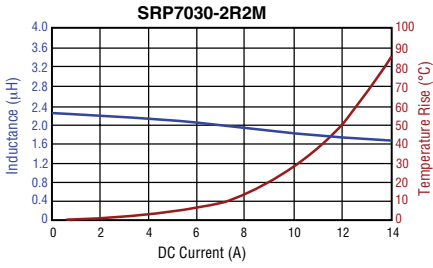


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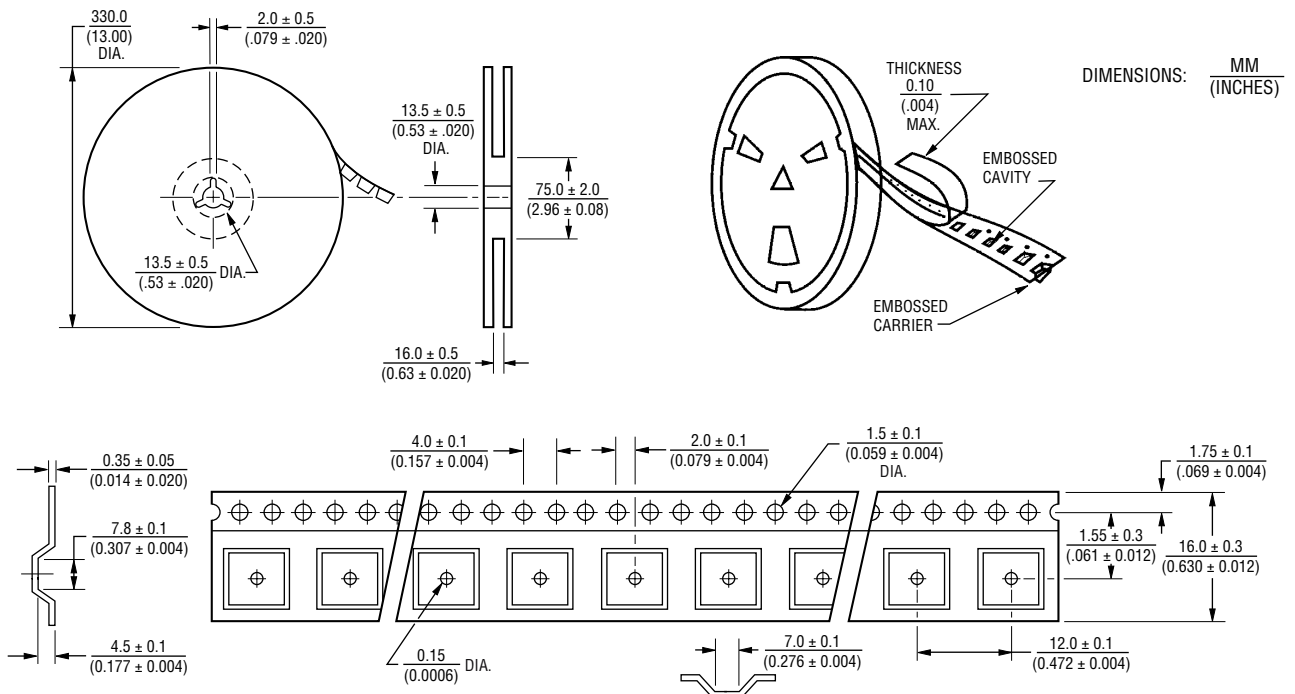
SRP7030 Series - Shielded Power Inductors

BOURNS®

L vs. I Charts



Packaging Specifications



REV. 06/19

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