




**THE DATASHEET OF
SRP1250-1R5M**





Features

- Shielded construction
- Unit height of 5.9 mm
- Inductance range: 0.22 to 10 μ H
- Current up to 45 A
- RoHS compliant*

 This series is currently available, but not recommended for new designs. The newer [SRP1245A](#) series is recommended.

SRP1250 Series - Shielded Power Inductors

Electrical Specifications

| Bourns Part No. | Inductance L (μ H) ± 20 % | I rms (A) | I sat (A) | DCR (m Ω) Max. |
|-----------------|------------------------------------|-----------|-----------|------------------------|
| SRP1250-R22M | 0.22 | 45 | 80 | 1.0 |
| SRP1250-R36M | 0.36 | 41 | 75 | 1.1 |
| SRP1250-R47M | 0.47 | 38 | 65 | 1.3 |
| SRP1250-R50M | 0.50 | 36 | 55 | 1.5 |
| SRP1250-R56M | 0.56 | 36 | 55 | 1.5 |
| SRP1250-R68M | 0.68 | 34 | 54 | 1.7 |
| SRP1250-R82M | 0.82 | 31 | 53 | 2.3 |
| SRP1250-1R0M | 1.00 | 29 | 50 | 2.5 |
| SRP1250-1R2M | 1.20 | 27 | 49 | 3.3 |
| SRP1250-1R5M | 1.50 | 23 | 48 | 4.1 |
| SRP1250-1R8M | 1.80 | 21 | 40 | 4.7 |
| SRP1250-2R2M | 2.20 | 20 | 32 | 5.5 |
| SRP1250-2R7M | 2.70 | 17 | 32 | 7.3 |
| SRP1250-3R3M | 3.30 | 15 | 32 | 9.2 |
| SRP1250-4R7M | 4.70 | 12 | 27 | 15.0 |
| SRP1250-6R0M | 6.00 | 9.5 | 14 | 10.0 |
| SRP1250-6R8M | 6.80 | 11 | 21 | 18.5 |
| SRP1250-7R8M | 7.80 | 10 | 18 | 20.5 |
| SRP1250-9R0M | 9.00 | 10 | 18 | 22.5 |
| SRP1250-100M | 10.0 | 9 | 16 | 25.5 |

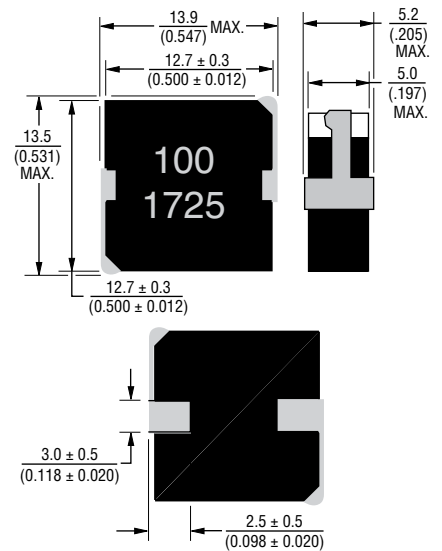
General Specifications

Test Voltage 1 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.

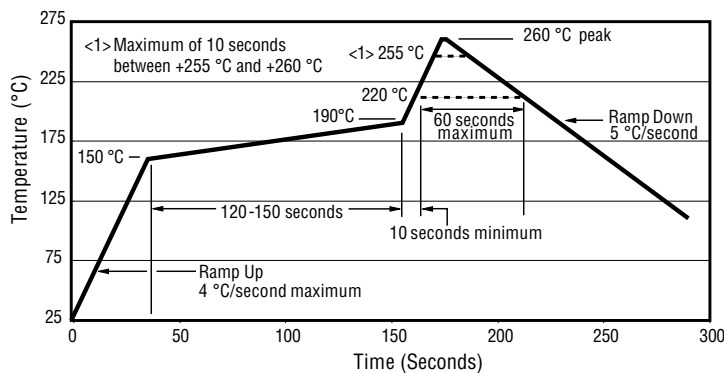
Materials

Core Iron
 Wire Enameled copper
 Terminal Cu/Sn
 Rated Current Ind. drops 20 % at Isat
 Temperature Rise 40 °C at rated I rms
 Packaging 500 pcs. per 13-inch reel

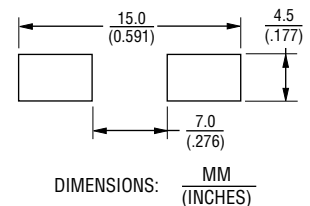
Product Dimensions



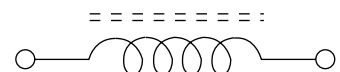
Soldering Profile



Recommended Layout



Electrical Schematic



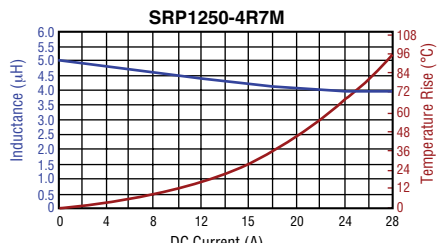
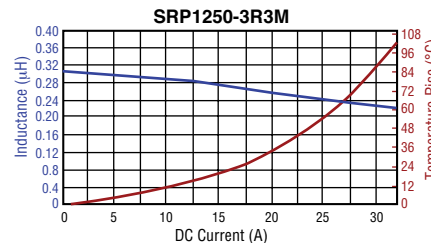
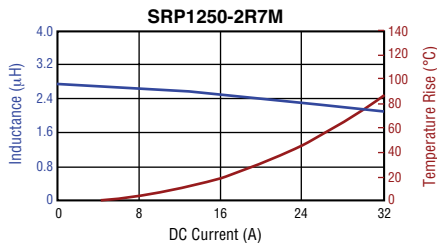
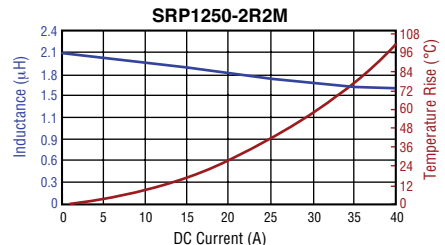
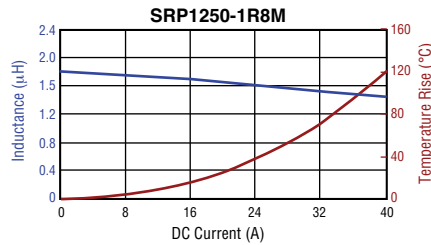
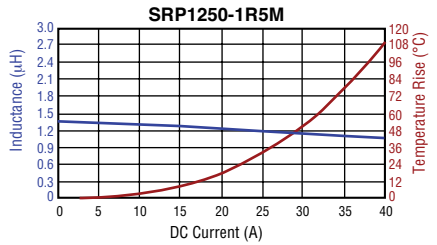
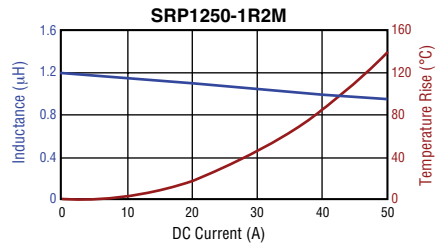
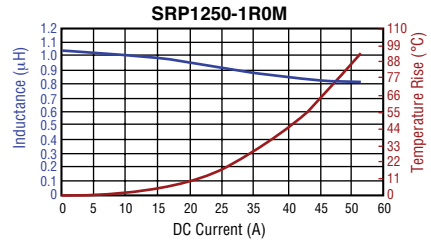
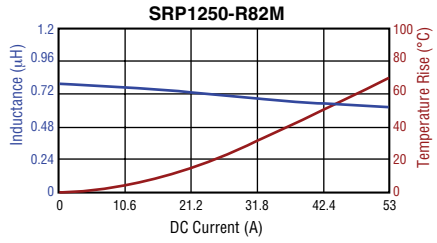
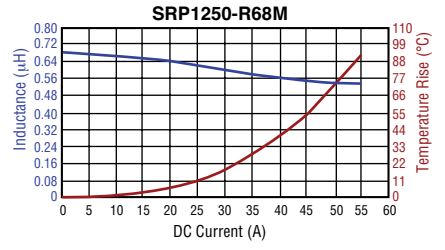
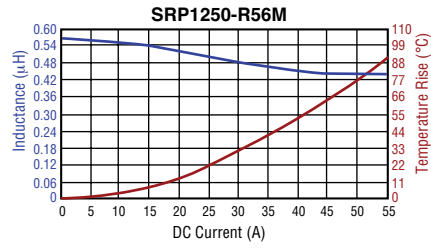
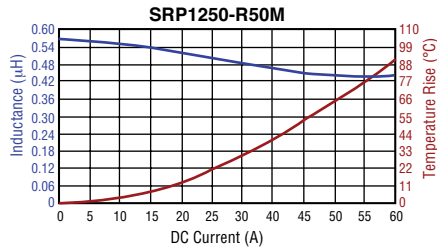
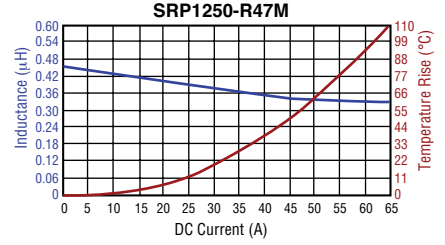
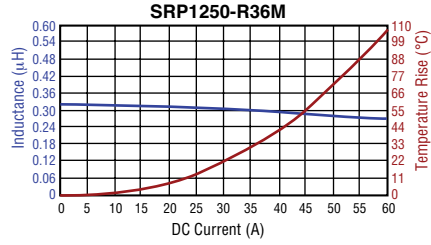
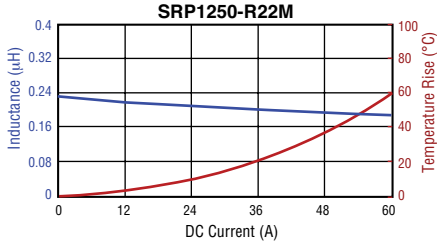
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.
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SRP1250 Series - Shielded Power Inductors

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L vs. I Charts

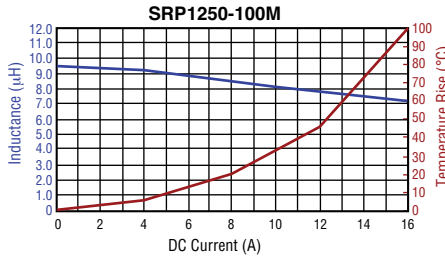
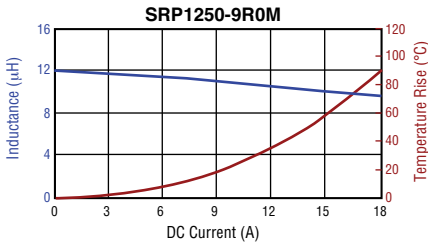
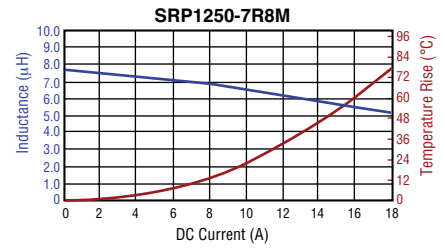
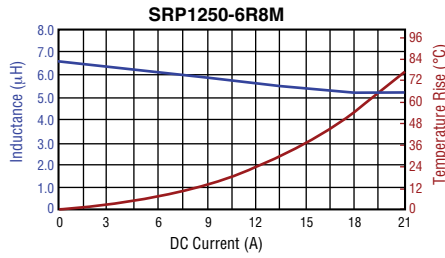
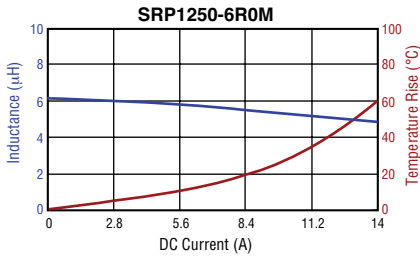


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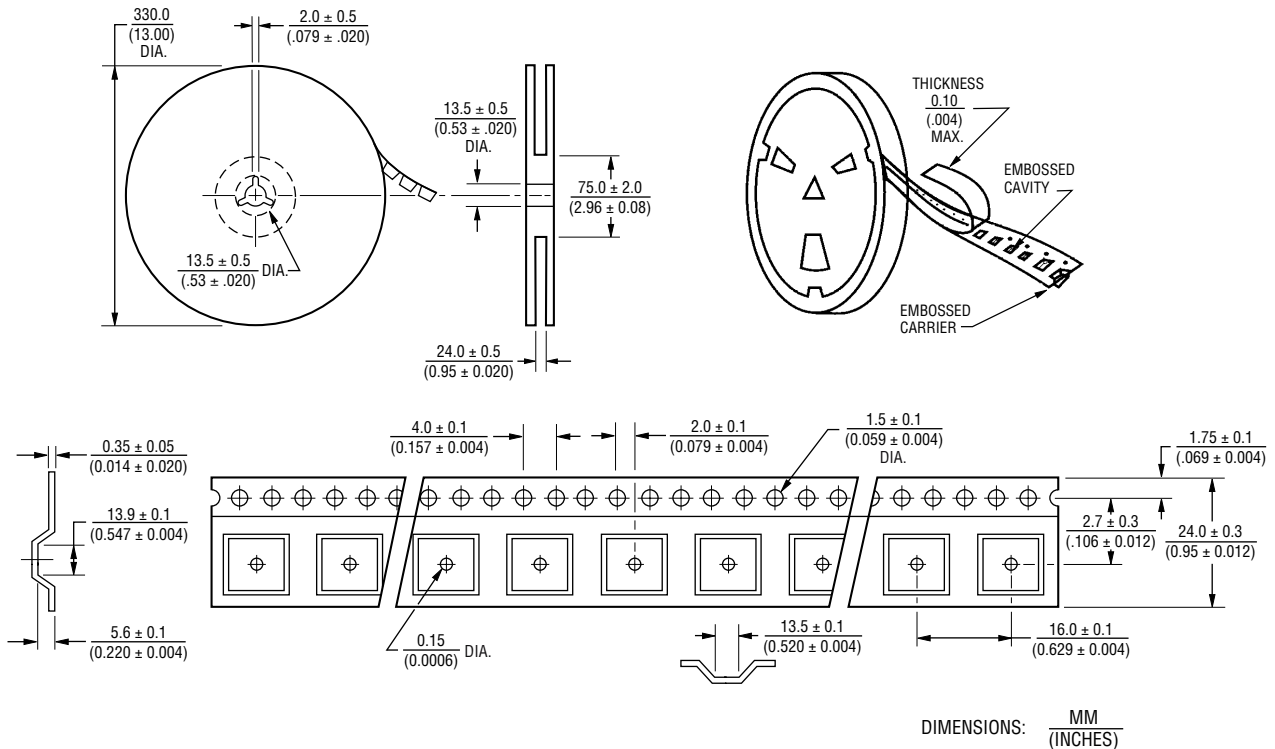
SRP1250 Series - Shielded Power Inductors

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L vs. I Charts



Packaging Specifications



REV. 06/19

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