



Features

- Shielded construction
- Unit height of 4.2 mm
- Inductance range: 0.15 to 15 μ H
- Current up to 34 A
- RoHS compliant*

This series is currently available, but not recommended for new designs. The newer [SRP1038A](#) series is recommended.

SRP1040 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. |
|-----------------|------------------------------------|-----------|-----------|------------------------|
| SRP1040-R15M | 0.15 | 34 | 40 | 1.3 |
| SRP1040-R20M | 0.20 | 32 | 40 | 1.0 |
| SRP1040-R36M | 0.36 | 28 | 40 | 1.4 |
| SRP1040-R39M | 0.39 | 24 | 32 | 1.4 |
| SRP1040-R47M | 0.47 | 26 | 38 | 1.6 |
| SRP1040-R50M | 0.50 | 23 | 32 | 1.9 |
| SRP1040-R56M | 0.56 | 25 | 36 | 1.9 |
| SRP1040-R68M | 0.68 | 23 | 32 | 2.4 |
| SRP1040-R75M | 0.75 | 22 | 28 | 2.5 |
| SRP1040-R80M | 0.80 | 21 | 30 | 3.0 |
| SRP1040-1R0M | 1.0 | 20 | 28 | 3.5 |
| SRP1040-1R2M | 1.2 | 18 | 24 | 4.7 |
| SRP1040-1R5M | 1.5 | 15 | 20 | 7.5 |
| SRP1040-1R7M | 1.7 | 15 | 18 | 7.5 |
| SRP1040-2R2M | 2.2 | 12 | 17 | 8.6 |
| SRP1040-2R5M | 2.5 | 11.5 | 14 | 8.7 |
| SRP1040-3R3M | 3.3 | 10 | 14 | 10 |
| SRP1040-3R9M | 3.9 | 9.0 | 15 | 12 |
| SRP1040-4R7M | 4.7 | 8.0 | 13 | 14 |
| SRP1040-5R6M | 5.6 | 7.0 | 12 | 16 |
| SRP1040-6R8M | 6.8 | 6.5 | 11 | 24 |
| SRP1040-8R2M | 8.2 | 5.0 | 8.0 | 33 |
| SRP1040-100M | 10 | 5.0 | 9.0 | 35 |
| SRP1040-150M | 15 | 5.0 | 7.0 | 57 |

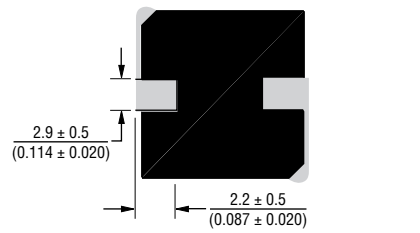
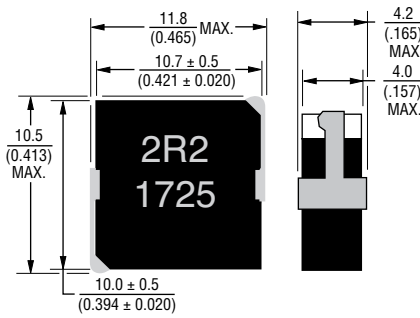
General Specifications

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.

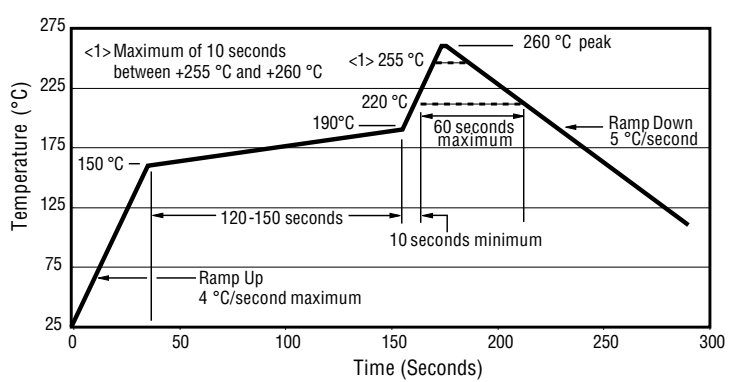
Materials

Core Iron
 Wire Enameled copper
 Terminal Cu/Sn
 Rated Current Ind. drops 20 % at Isat
 Temperature Rise 40 °C at rated Irms
 Packaging 900 pcs. per 13-inch reel

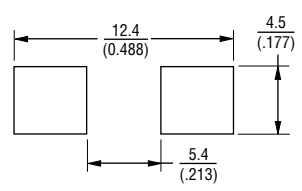
Product Dimensions



Soldering Profile



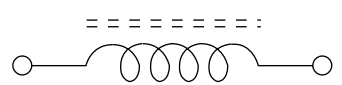
Recommended Layout



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.
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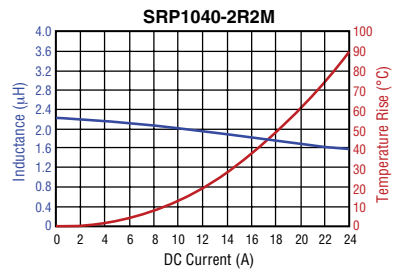
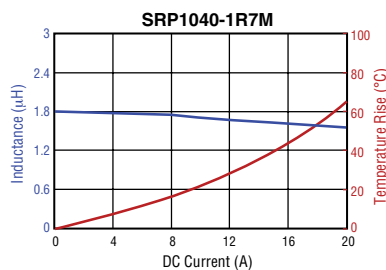
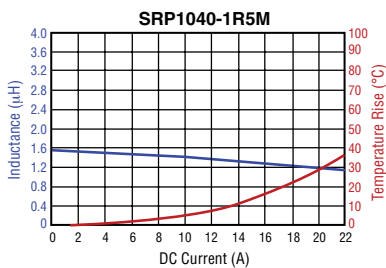
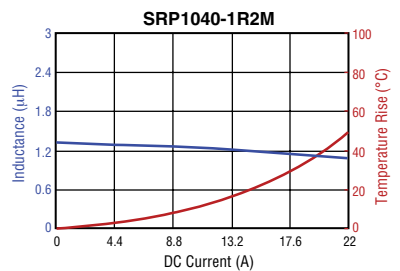
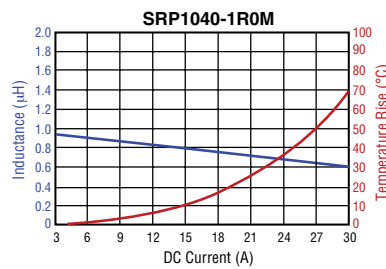
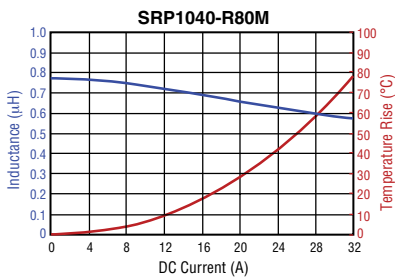
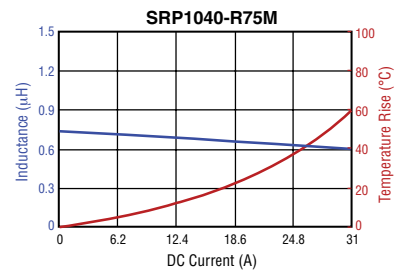
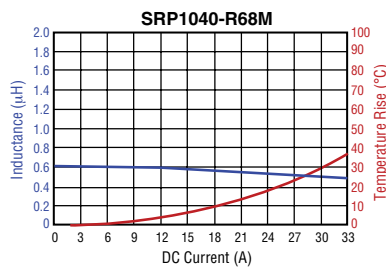
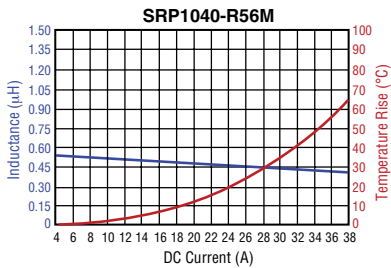
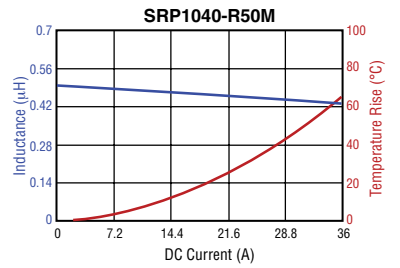
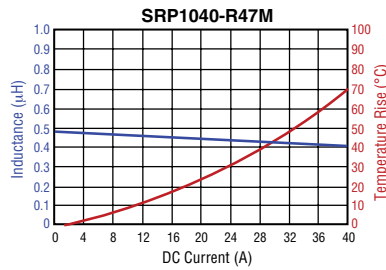
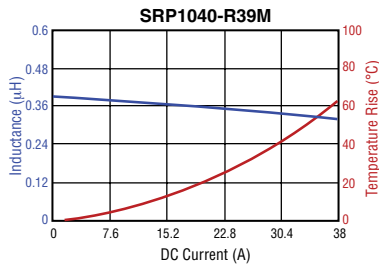
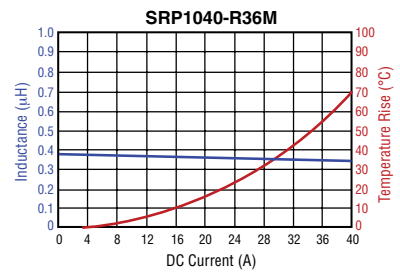
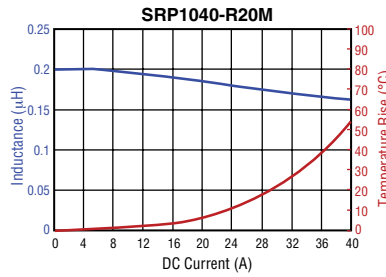
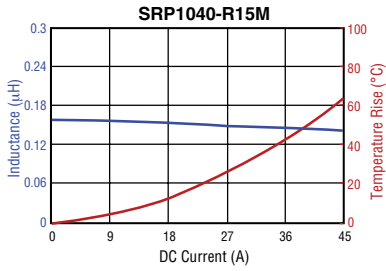
Electrical Schematic



SRP1040 Series - Shielded Power Inductors

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L vs. I Charts



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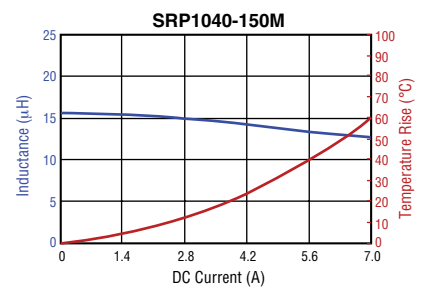
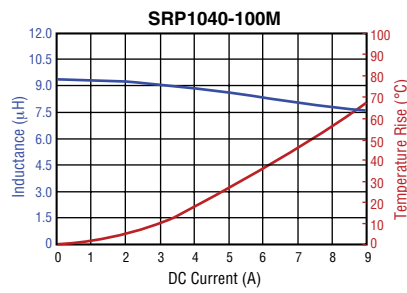
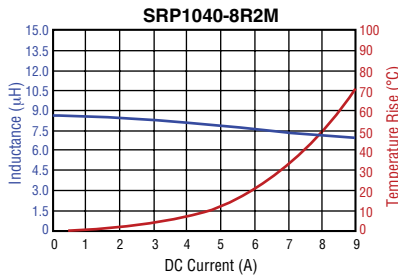
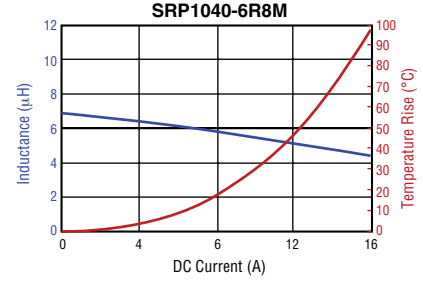
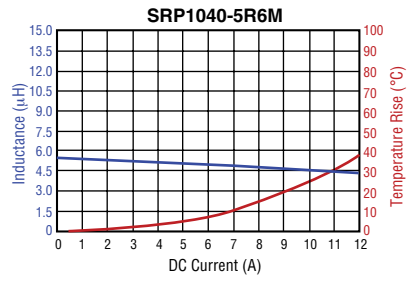
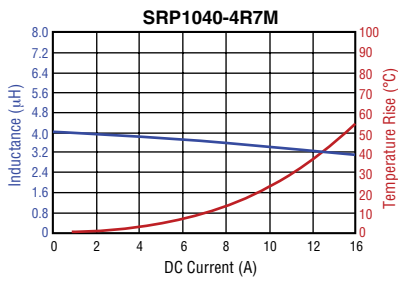
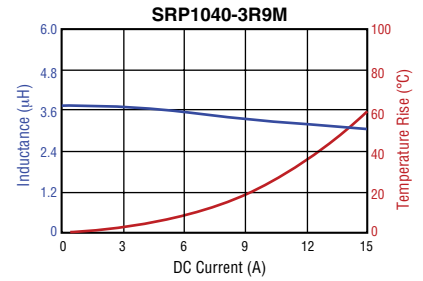
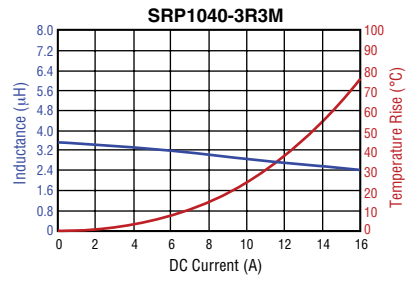
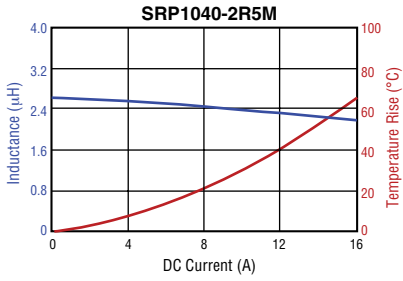
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L vs. I Charts



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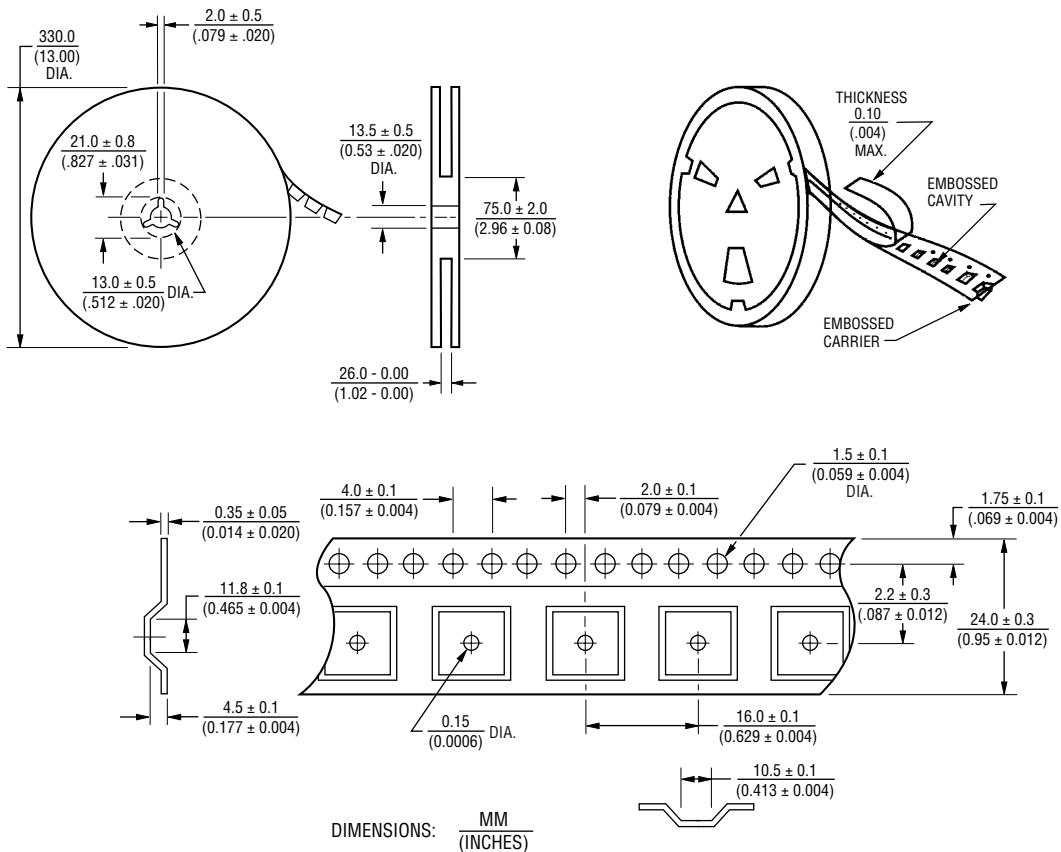
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Packaging Specifications



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