




**THE DATASHEET OF
SRP1040-R50M**





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

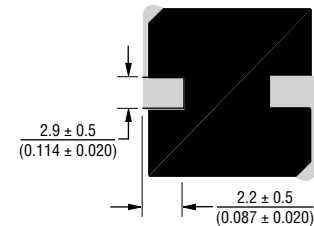
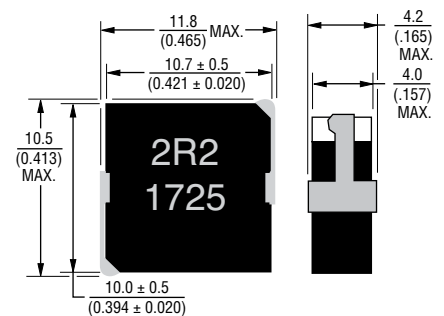
General Specifications

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.

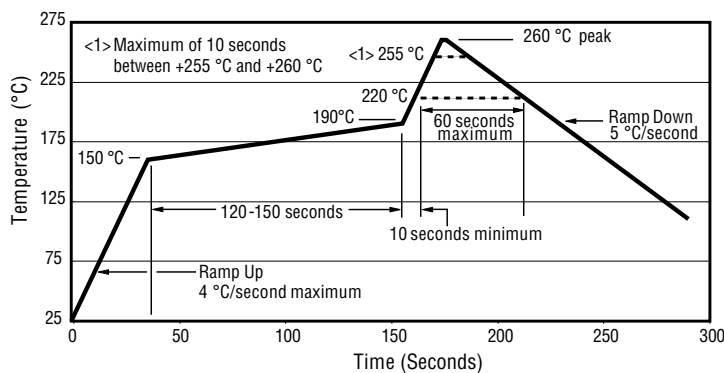
Materials

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

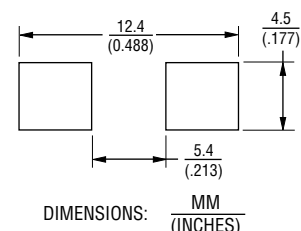
Product Dimensions



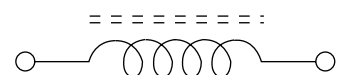
Soldering Profile



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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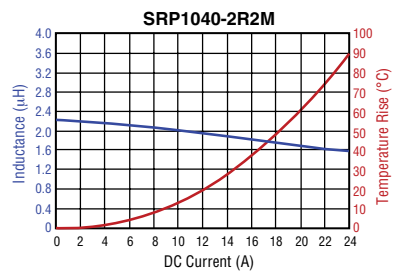
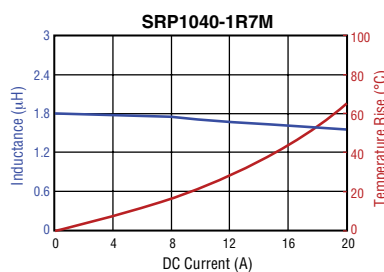
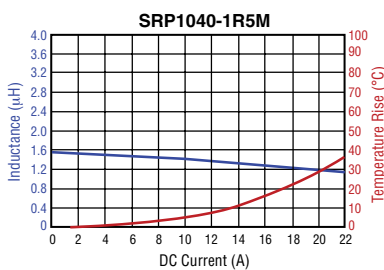
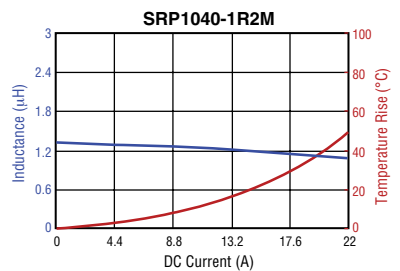
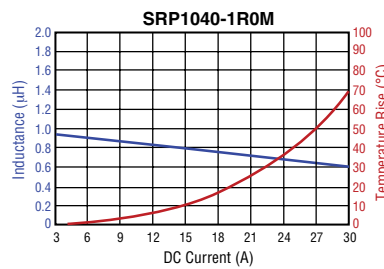
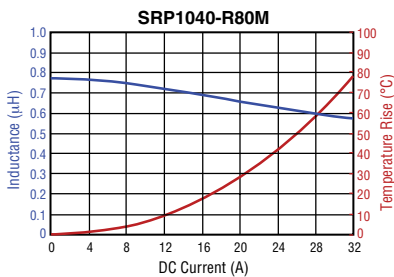
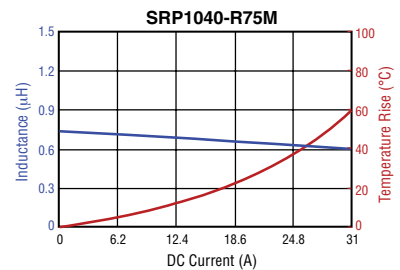
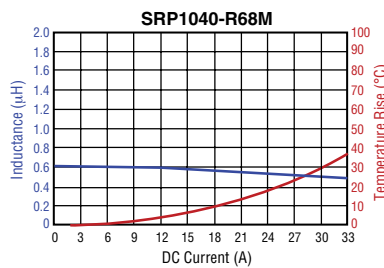
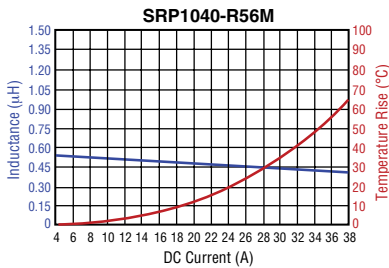
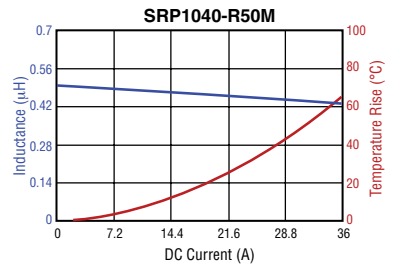
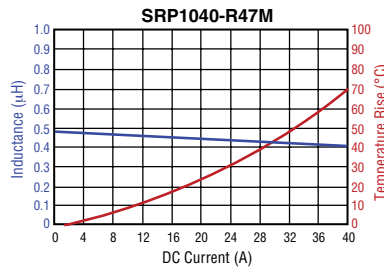
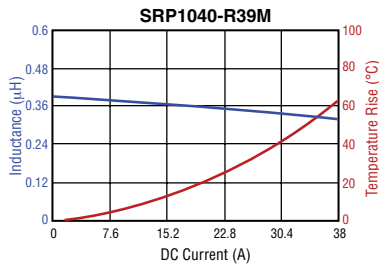
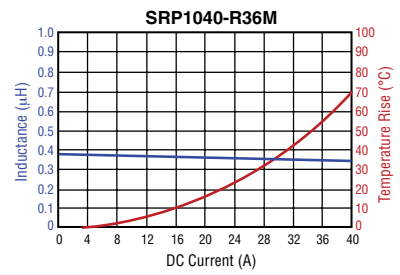
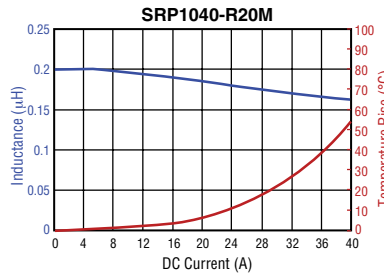
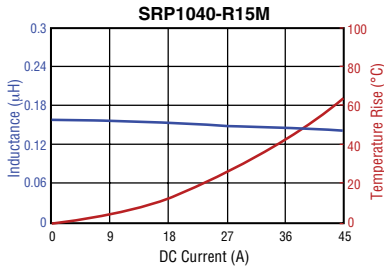
Users should verify actual device performance in their specific applications.

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L vs. I Charts



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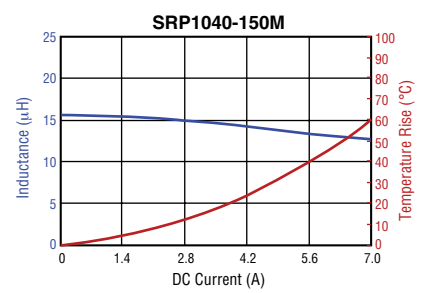
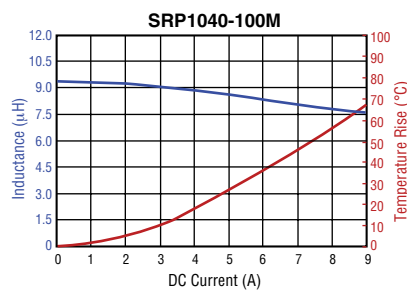
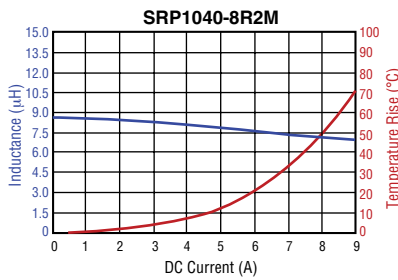
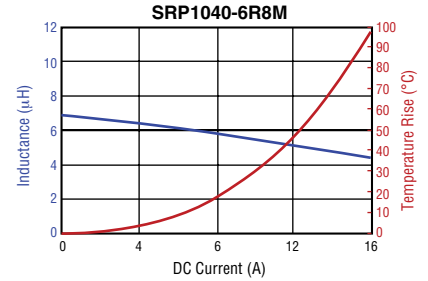
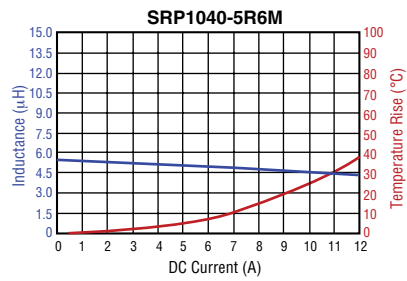
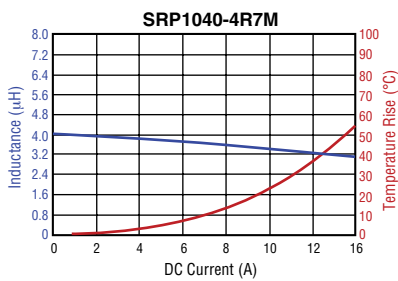
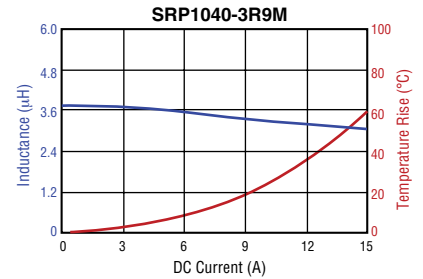
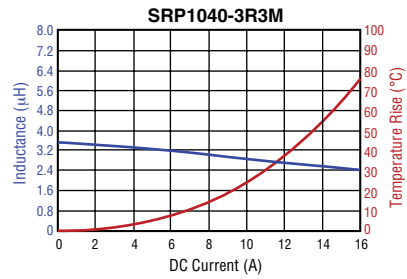
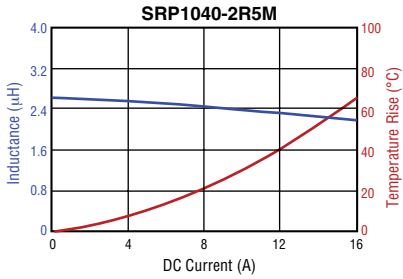
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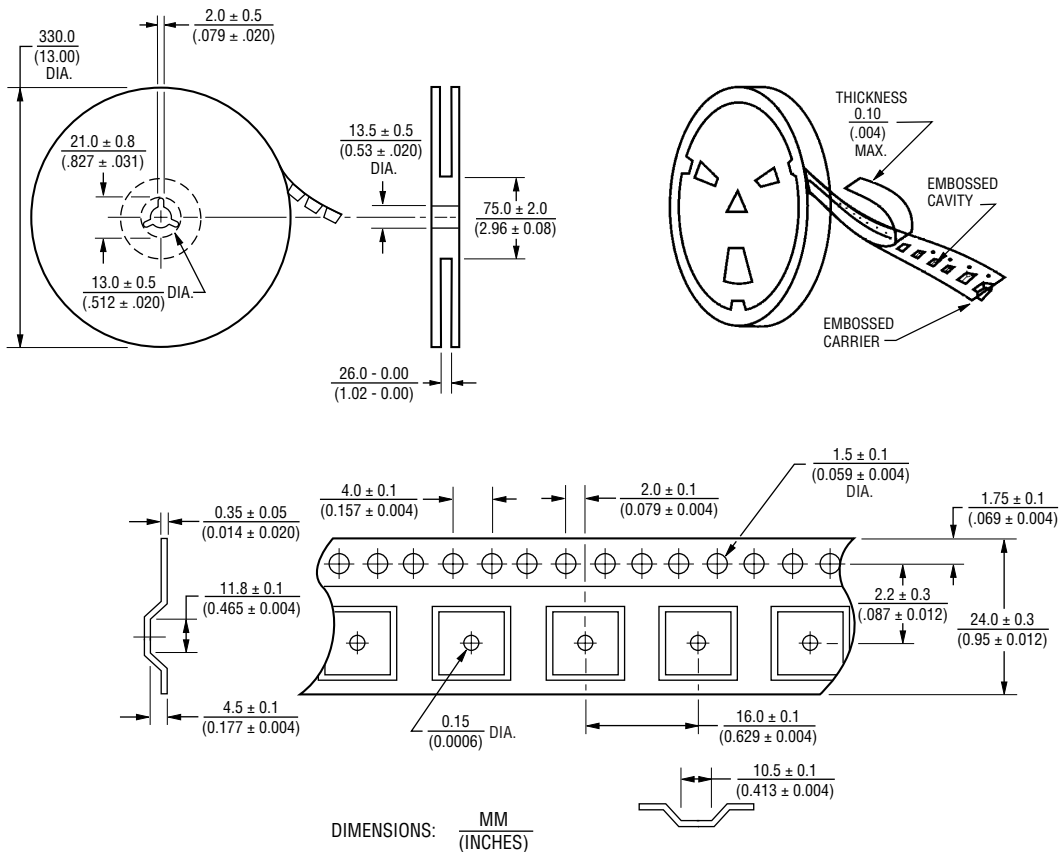
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Packaging Specifications



REV. 06/19

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