

Features

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

Applications

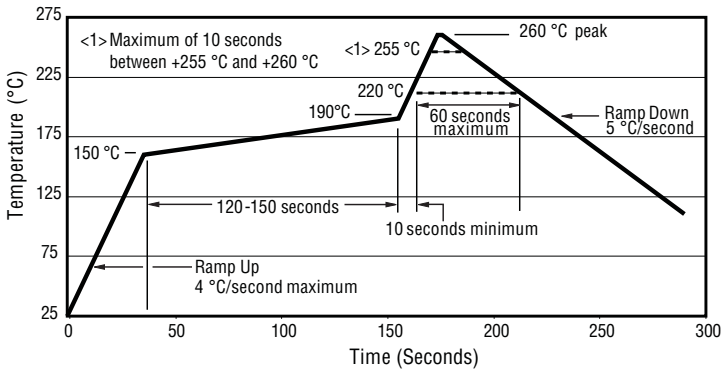
- Input/output of DC/DC converters
- Power supplies for:
  - Portable communications equipment
  - Camcorders
  - LCD TVs
  - Car audio systems

SRP1040 Series - Shielded Power Inductors

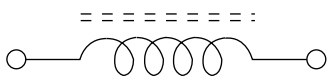
Electrical Specifications

Bourns Part No.	Inductance L (μH) ±20 %	I rms (A)	I sat (A)	DCR (mΩ) 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

Soldering Profile



Electrical Schematic



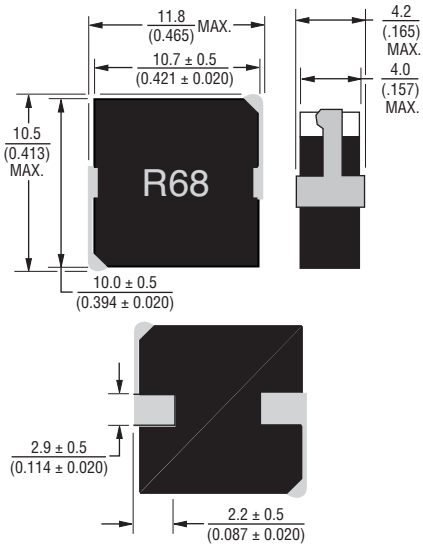
General Specifications

Test Voltage.....0.25 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.

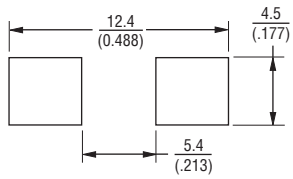
Materials

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



Recommended Layout



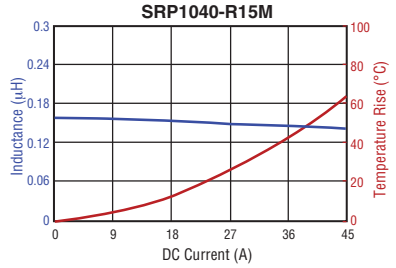
DIMENSIONS: MM / (INCHES)

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

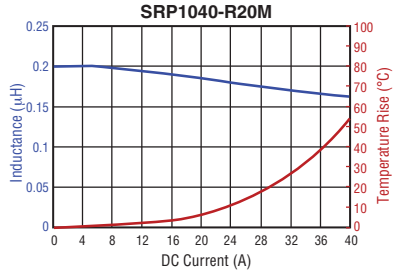
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L vs. I Charts

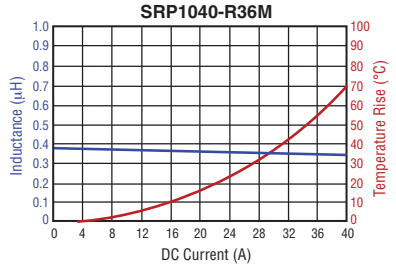
SRP1040-R15M



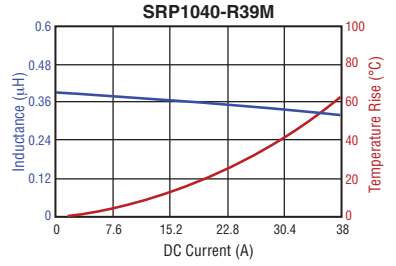
SRP1040-R20M



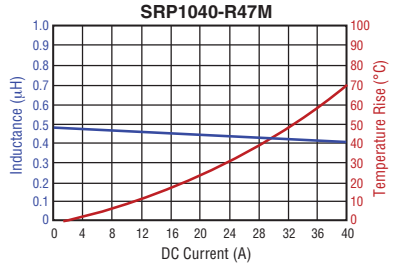
SRP1040-R36M



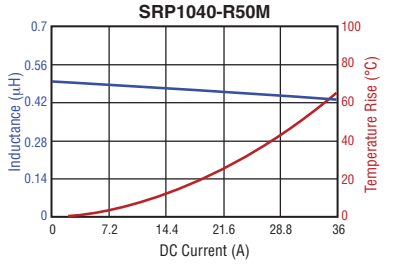
SRP1040-R39M



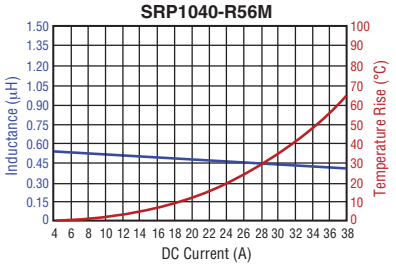
SRP1040-R47M



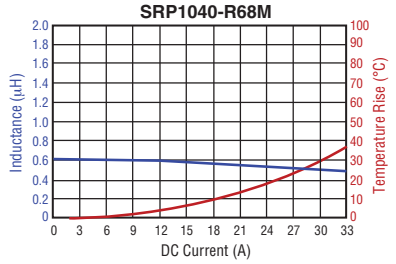
SRP1040-R50M



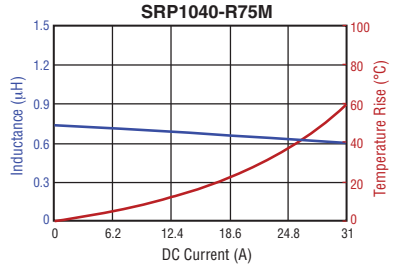
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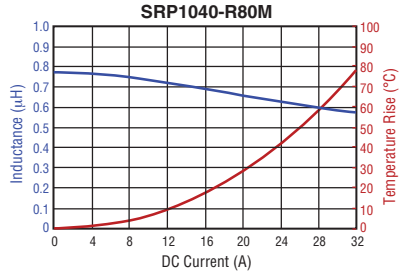
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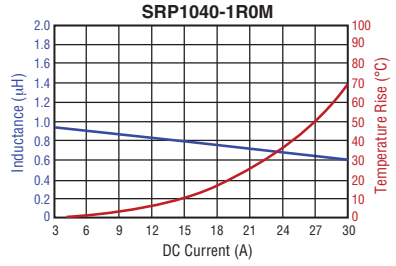
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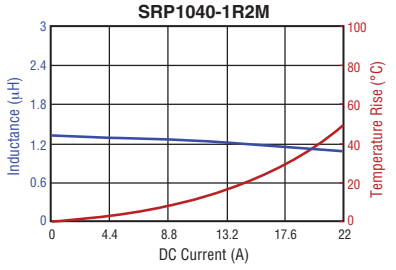
SRP1040-R80M



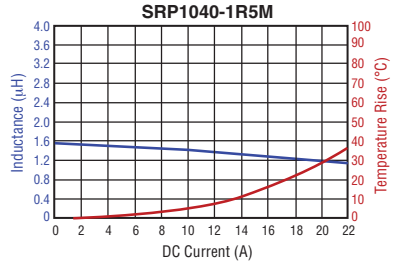
SRP1040-1R0M



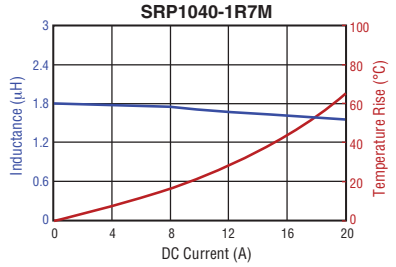
SRP1040-1R2M



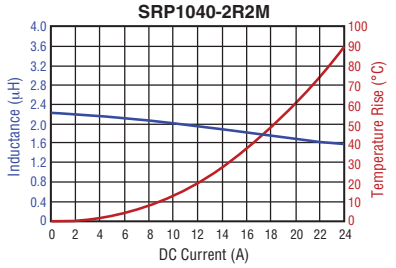
SRP1040-1R5M



SRP1040-1R7M

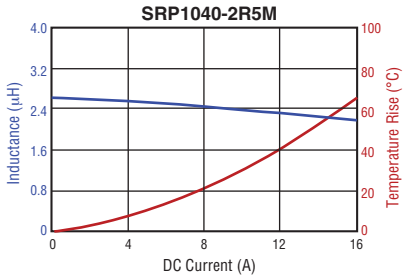


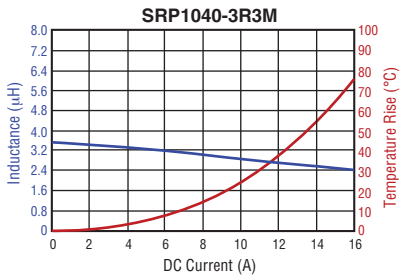
SRP1040-2R2M

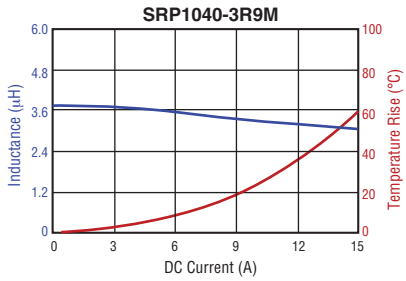


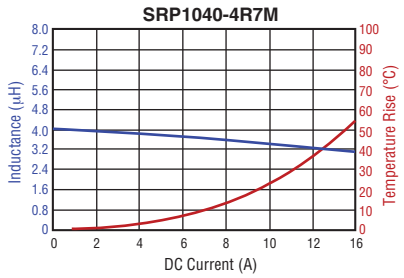
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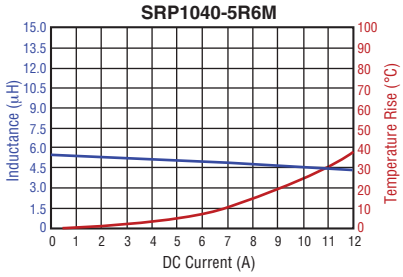
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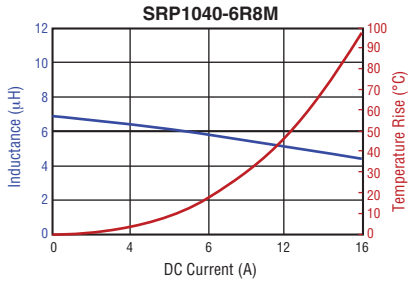


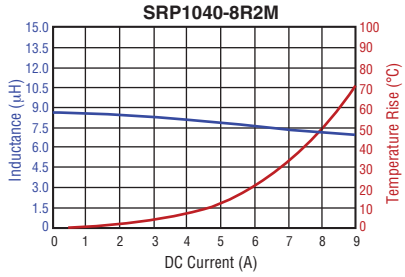


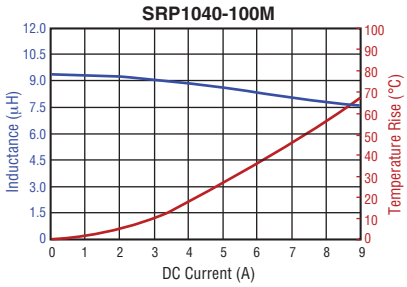


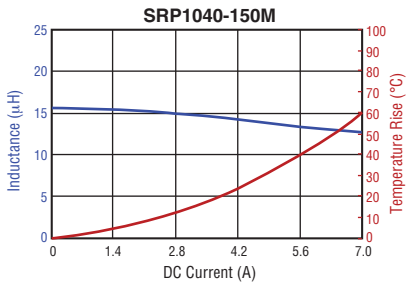






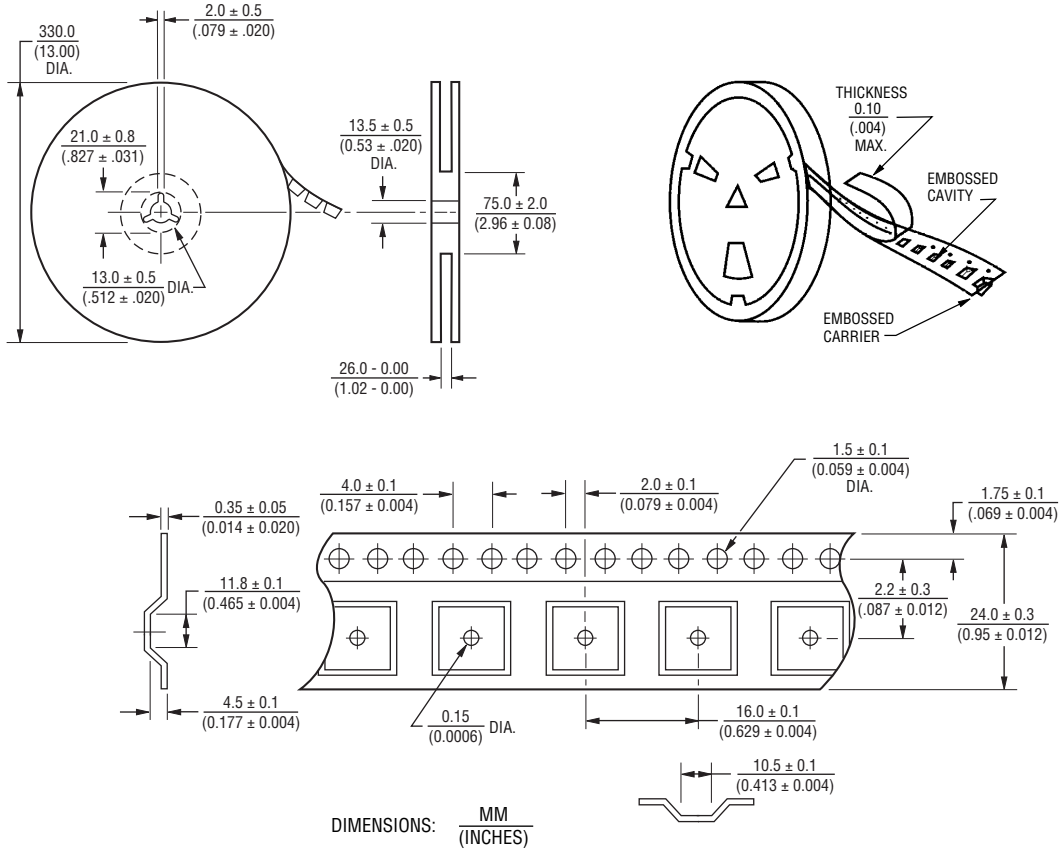






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Packaging Specifications



REV. 11/13

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