



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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### Features

- Shielded construction
- Unit height of 4.2 mm
- Inductance range: 0.15  $\mu$ H to 47  $\mu$ H
- Current up to 34 A
- RoHS compliant\*



\*\*Models SRP1040-220M, -330M & -470M are currently available but not recommended for new designs.

## SRP1040 Series - Shielded Power Inductors

### Electrical Specifications

Bourns Part No.	Inductance L ( $\mu$ H) $\pm 20$ %	I rms (A)	I sat (A)	DCR (m $\Omega$ ) 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	12	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
SRP1040-220M**	22	3.5	6.0	62
SRP1040-330M**	33	3.0	5.0	87
SRP1040-470M**	47	2.0	3.0	160

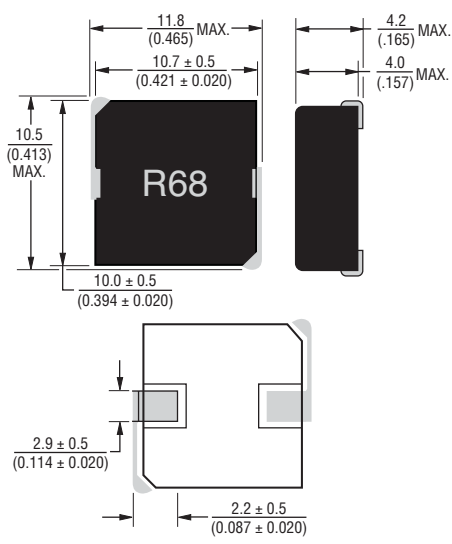
### General Specifications

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.

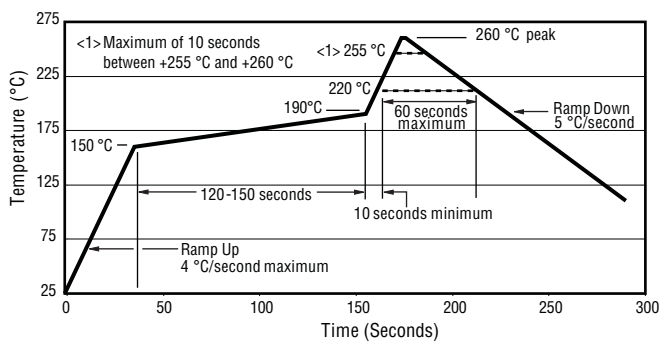
### Materials

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

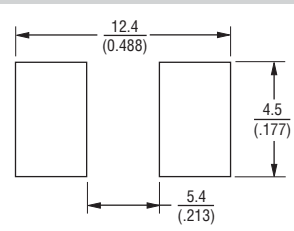
### Product Dimensions



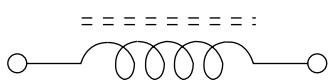
### Soldering Profile



### Recommended Layout



### Electrical Schematic



\*RoHS Directive 2002/95/EC Jan 27, 2003 including Annex. Specifications are subject to change without notice. Customers should verify actual device performance in their specific applications.

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

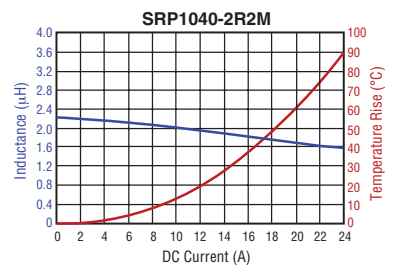
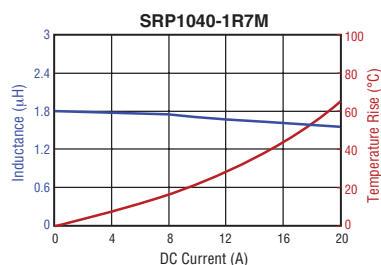
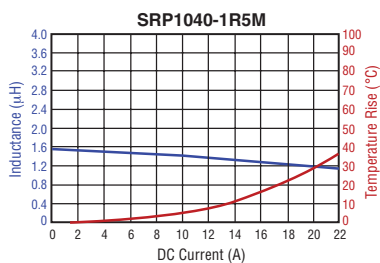
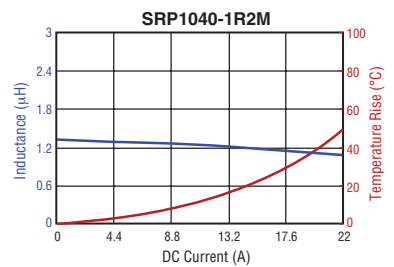
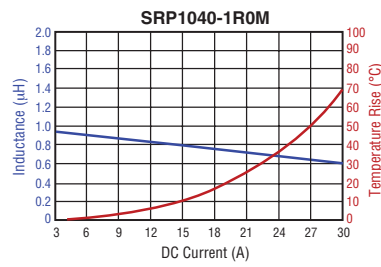
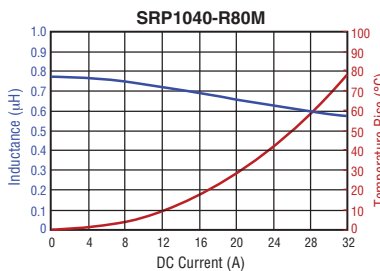
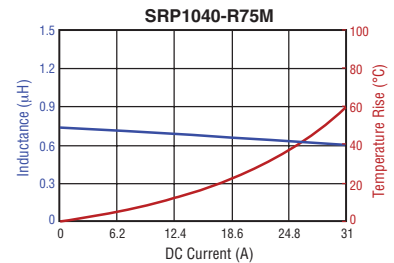
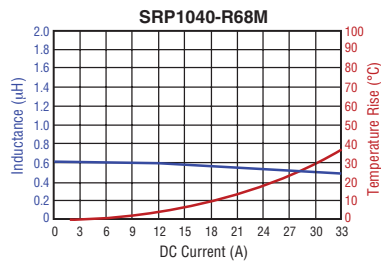
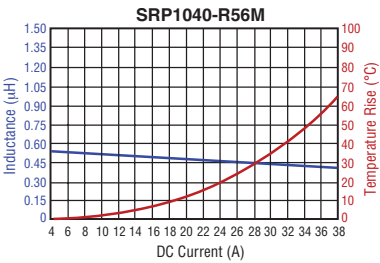
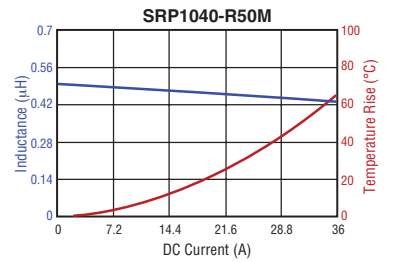
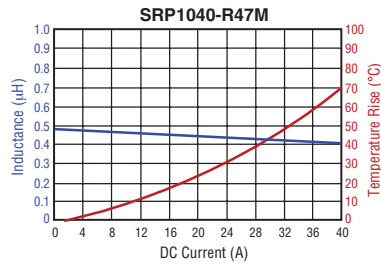
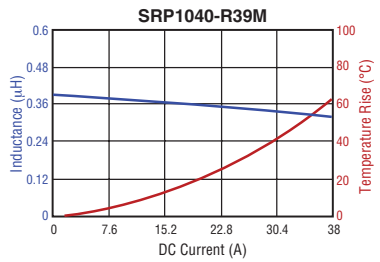
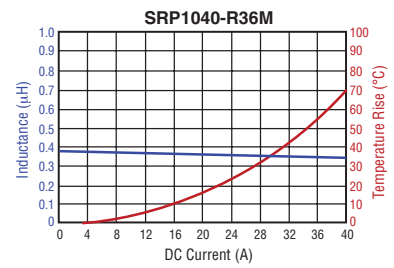
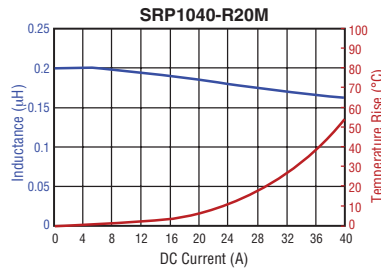
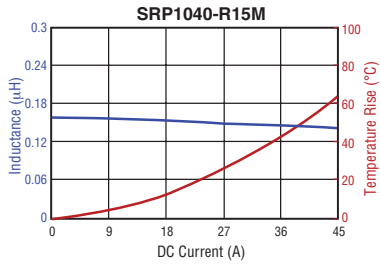
## Applications

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

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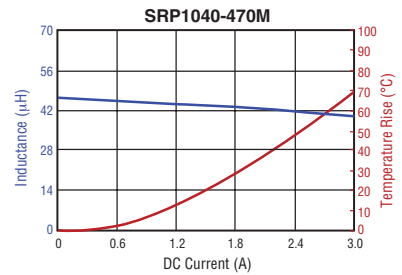
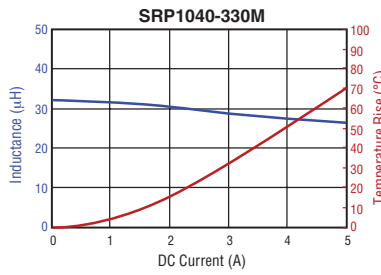
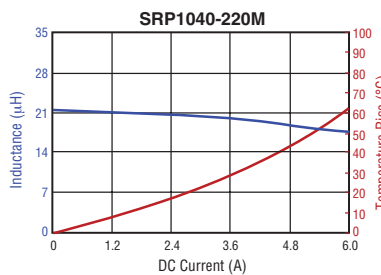
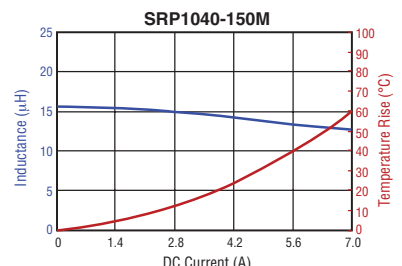
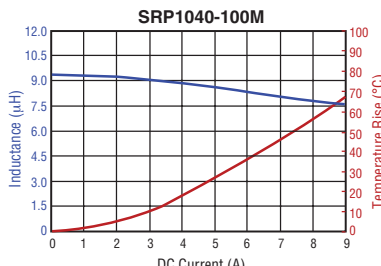
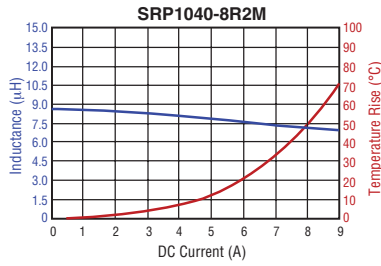
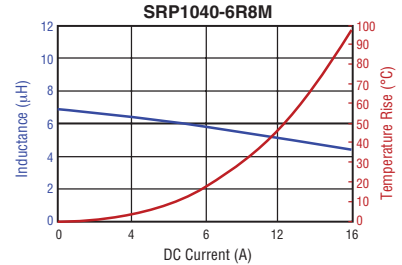
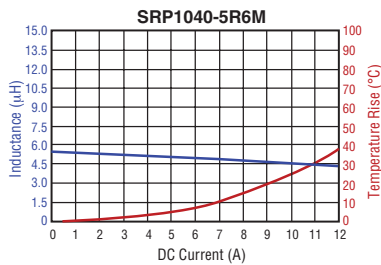
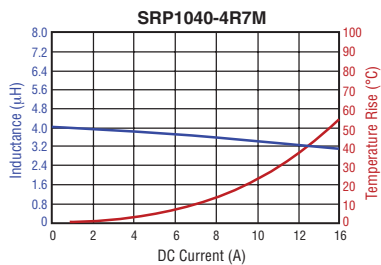
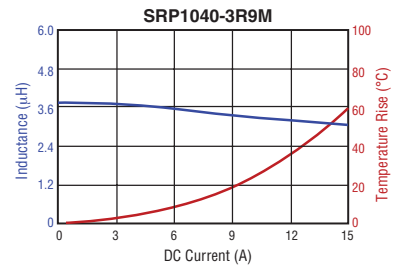
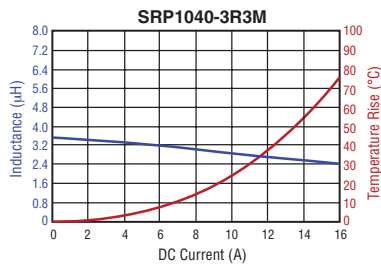
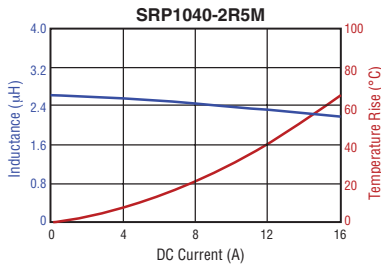
### L vs. I Charts



# SRP1040 Series - Shielded Power Inductors

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## L vs. I Charts

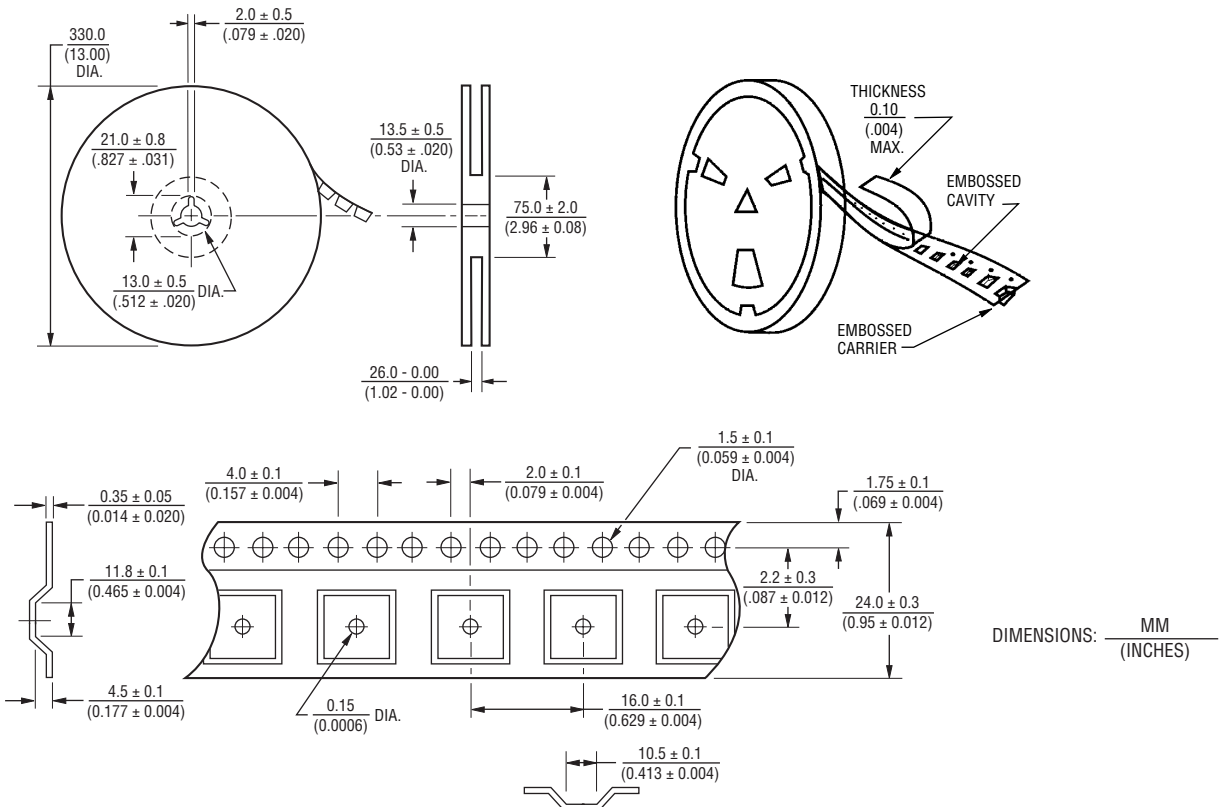


Specifications are subject to change without notice.  
Customers should verify actual device performance in their specific applications.

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## Packaging Specifications



REV. 05/11

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