



### Features

- Shielded construction
- Unit height of 3.7 mm
- Inductance range: 0.1  $\mu$ H to 6.8  $\mu$ H
- Current up to 43 A
- Lead free
- RoHS compliant\*

### Applications

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

## SRP1235 Series - Shielded Power Inductors

### Electrical Specifications

Bourns Part No.	Inductance L ( $\mu$ H)	I rms (A)	I sat (A)	DCR (m $\Omega$ ) max.	SRF (MHz) typ.
SRP1235-R10M	0.10	43.0	56	0.96	105
SRP1235-R15M	0.15	41.0	50	1.2	100
SRP1235-R22M	0.22	38.5	50	1.3	94
SRP1235-R33M	0.33	36.5	50	1.5	90
SRP1235-R47M	0.47	32.0	44	2.0	85
SRP1235-R60M	0.60	29.0	42	2.5	73
SRP1235-R67M	0.67	28.0	32	2.5	72
SRP1235-R68M	0.68	28.0	40	2.5	72
SRP1235-R82M	0.82	25.0	38	3.0	65
SRP1235-1R0M	1.00	24.0	36	3.5	60
SRP1235-1R2M	1.20	21.0	29	4.5	37
SRP1235-1R5M	1.50	19.0	28	5.5	37
SRP1235-1R8M	1.80	16.5	24	7	32
SRP1235-2R2M	2.20	16.0	20	8	27
SRP1235-3R3M	3.30	12.0	18	12	20
SRP1235-4R7M	4.70	10.0	16	15	16
SRP1235-5R6M	5.60	10.0	14	18	15
SRP1235-6R8M	6.80	9.0	13	22	14

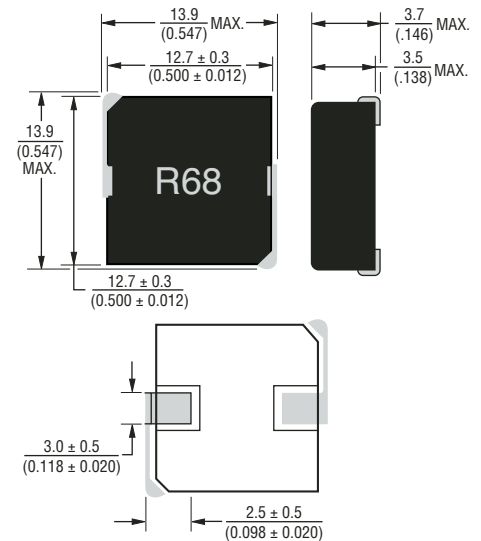
### General Specifications

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.

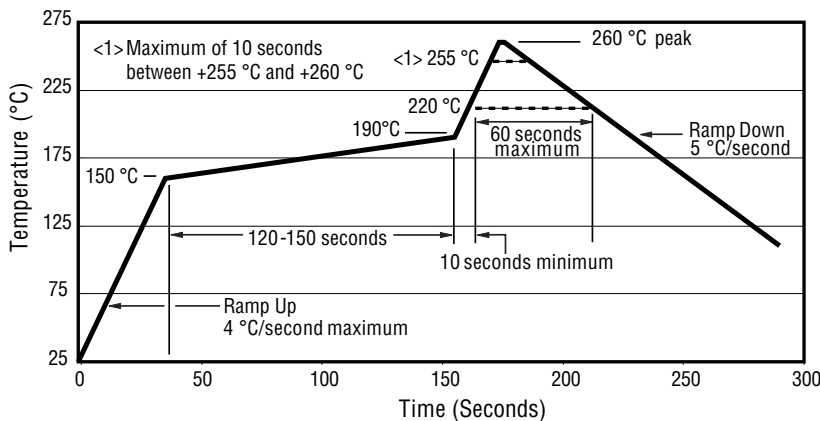
### Materials

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 .....600 pcs. per 13-inch reel

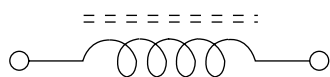
### Product Dimensions



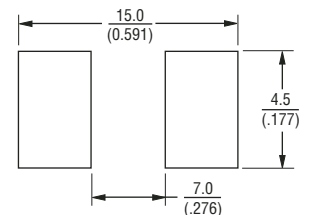
### Soldering Profile



### Electrical Schematic



### Recommended Layout



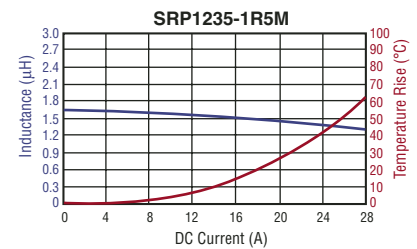
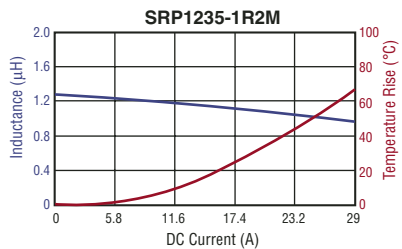
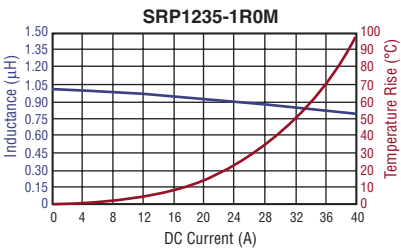
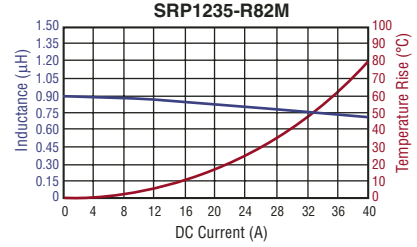
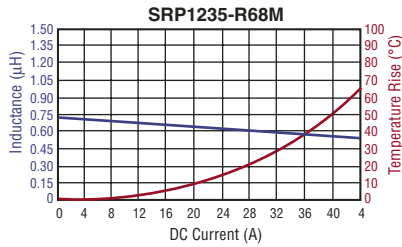
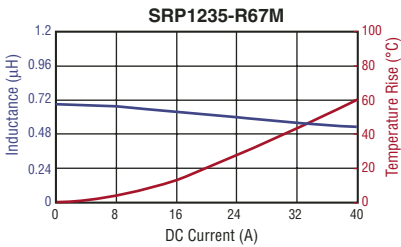
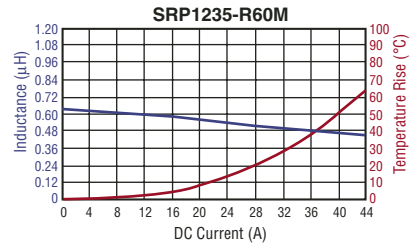
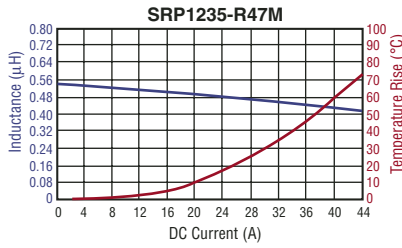
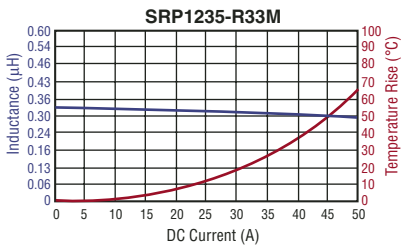
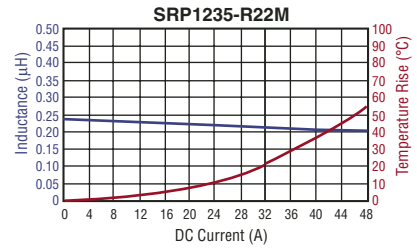
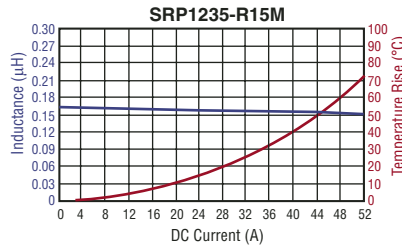
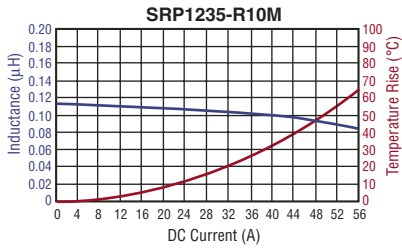
DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

\*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.

# SRP1235 Series - Shielded Power Inductors

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## L vs. I Charts

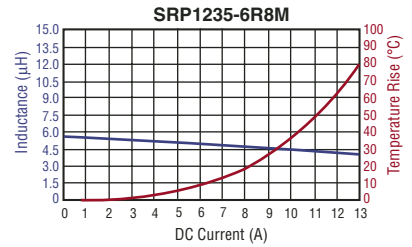
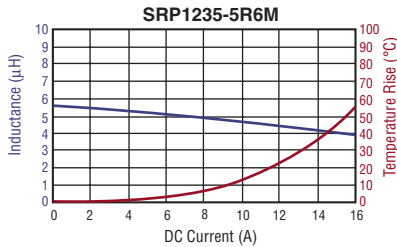
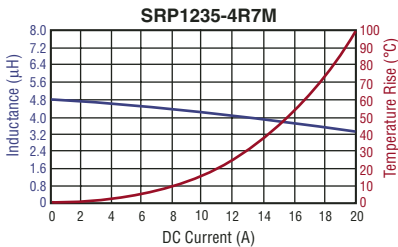
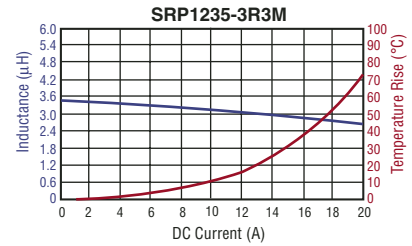
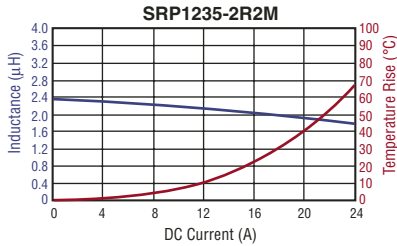
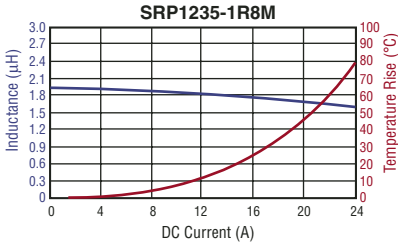


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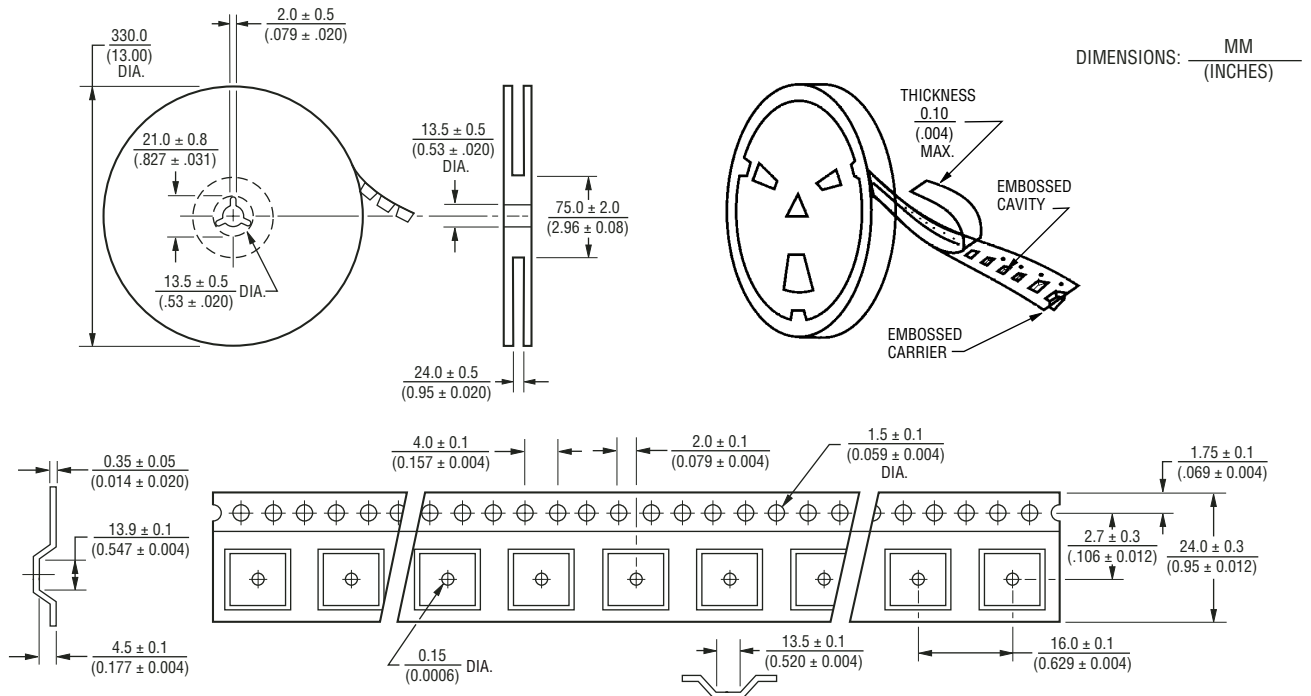
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## L vs. I Charts



## Packaging Specifications



REV. 10/08

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