



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!



## Contact us

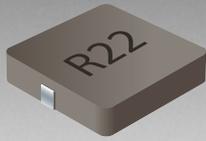
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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



\*RoHS COMPLIANT



**BOURNS®**

**Features**

- Shielded construction
- Flat wire
- Unit height of 1.2 mm
- Inductance range: 0.22 to 1.5  $\mu$ H
- Rated current up to 9 A
- RoHS compliant\* and halogen free\*\*



This series is currently available but not recommended for new designs. The newer **Model SRP4012TA** series is recommended.

**SRP4012 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.
SRP4012-R22M	0.22	9	10	9.3
SRP4012-R47M	0.47	6.5	9	20
SRP4012-R56M	0.56	5.5	8	25
SRP4012-1R0M	1.0	4.8	6.3	33.6
SRP4012-1R2M	1.2	3	6	45
SRP4012-1R5M	1.5	3	5.5	50

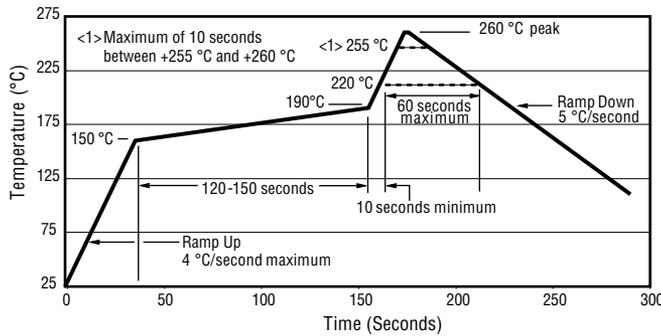
**General Specifications**

Test Voltage .....0.25 V  
 Test Frequency ..... 100 KHz  
 Reflow Soldering .. 230 °C; 50 sec. max.  
 Operating Temperature  
 .....-55 °C to +125 °C  
 (Temperature rise included)  
 Storage Temperature  
 .....-55 °C to +125 °C  
 Resistance to Soldering Heat  
 .....+260 °C for 10 sec.

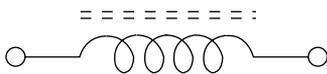
**Materials**

Core .....Iron  
 Wire .....Enameled copper  
 Terminal ..... Cu/Sn  
 Rated Current .... Ind. drops 20 % at Isat  
 Temperature Rise .....40 °C at rated I rms  
 Packaging ..... 2000 pcs. per 13-inch reel

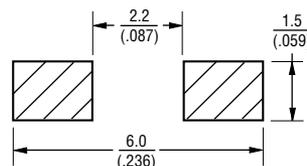
**Soldering Profile**



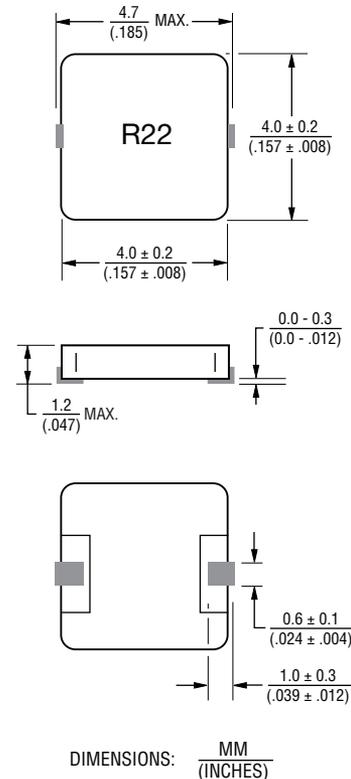
**Electrical Schematic**



**Recommended Layout**



**Product Dimensions**



**BOURNS®**

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 www.bourns.com

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

\* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.  
 \*\*Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less. Specifications are subject to change without notice.  
 The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

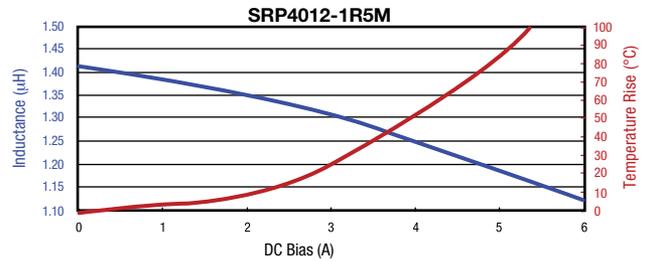
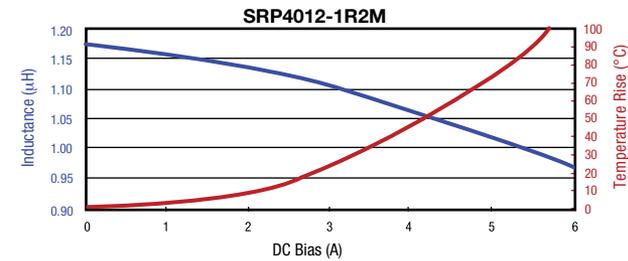
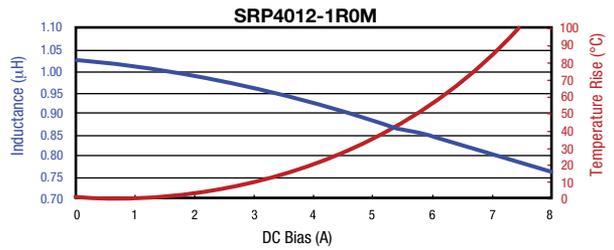
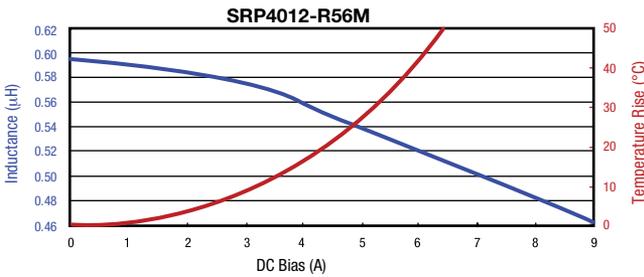
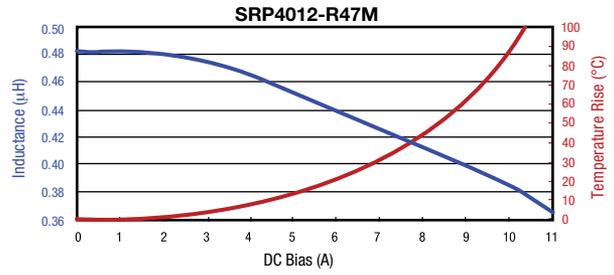
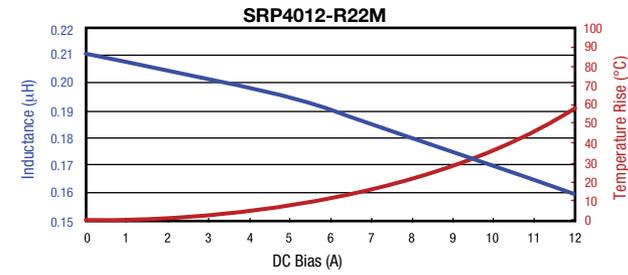
## Applications

- DC/DC converters
- Power supplies for:
  - Portable communications equipment
  - Laptop computers
  - Camcorders, HDTV, car audio systems
  - Video game consoles

# SRP4012 Series - Shielded Power Inductors

**BOURNS®**

### L vs. I Charts



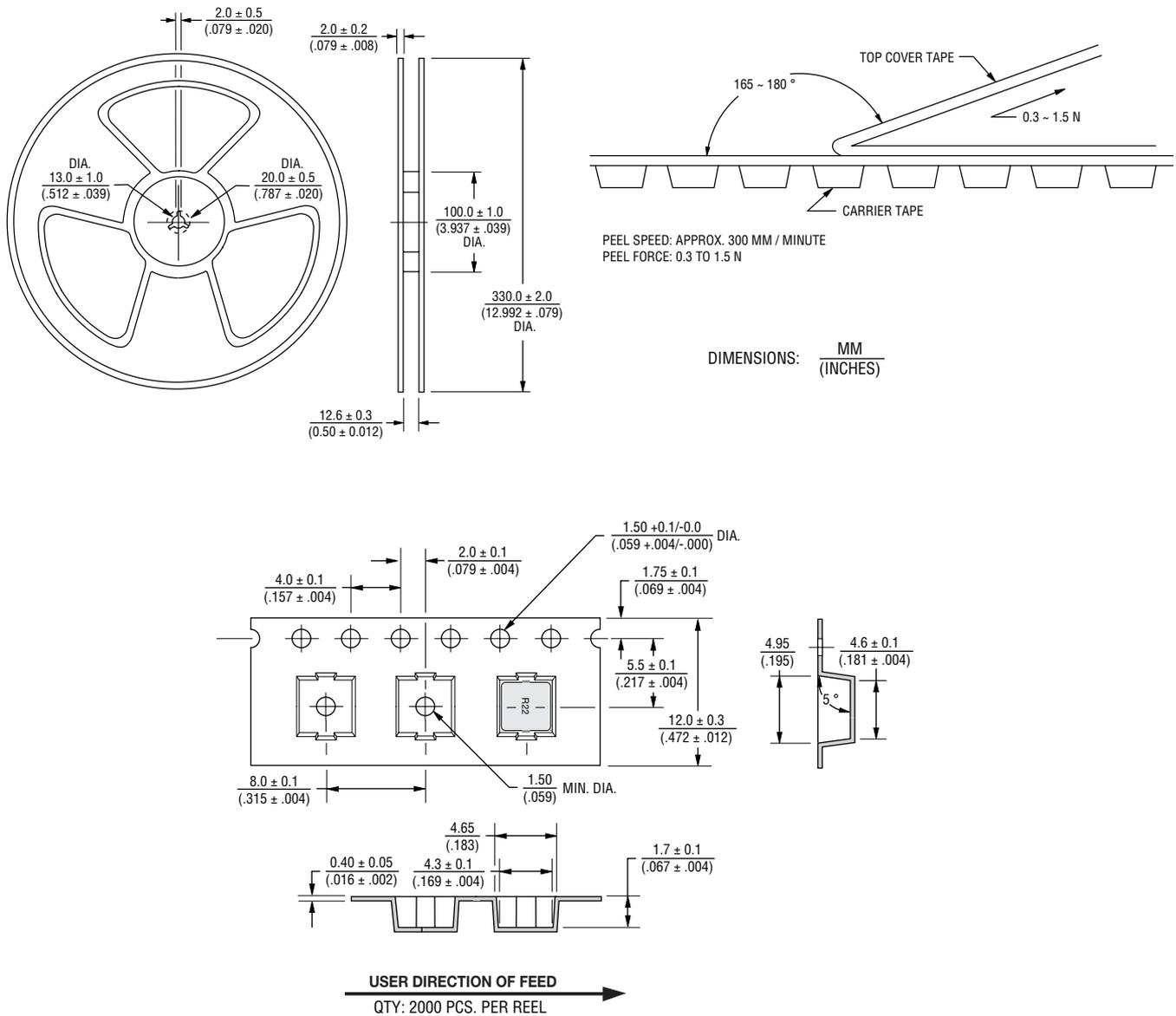
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# SRP4012 Series - Shielded Power Inductors

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## Packaging Specifications



REV. 01/17

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