

### 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This series is obsolete and not recommended for new designs.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

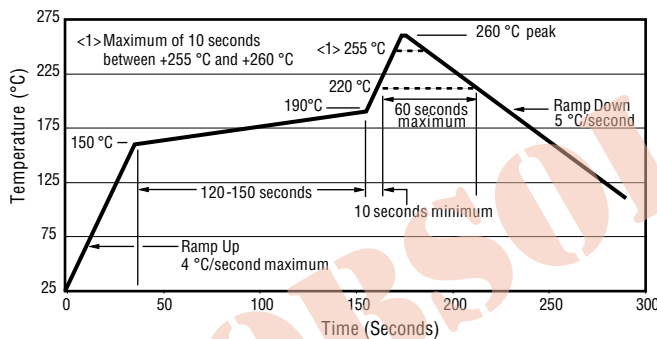
### General Specifications

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.

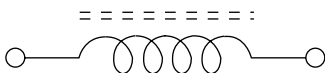
### Materials

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

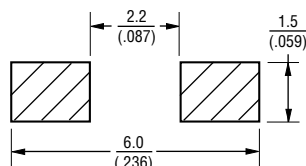
### Soldering Profile



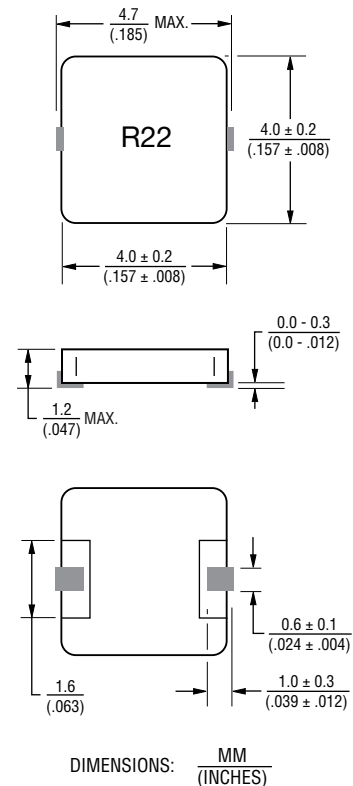
### Electrical Schematic



### Recommended Layout



### Product Dimensions



**WARNING Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

\* 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.

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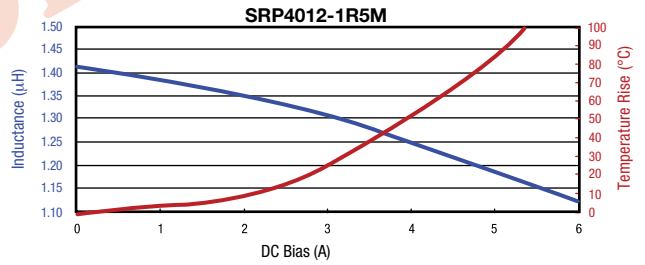
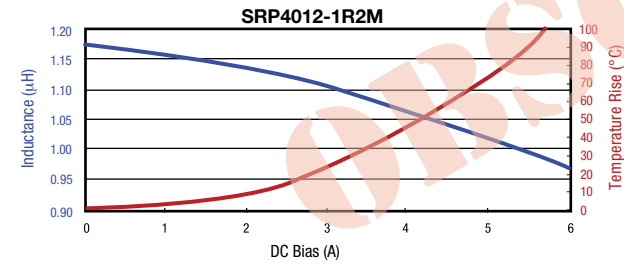
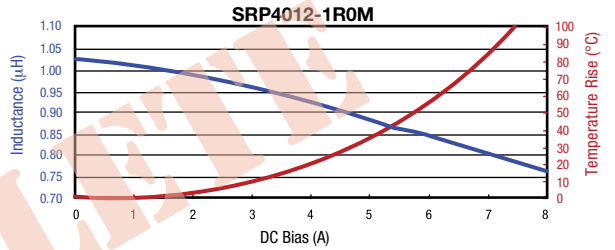
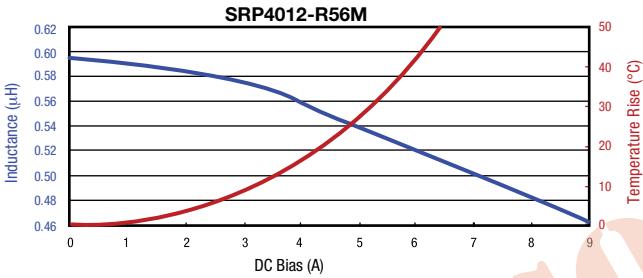
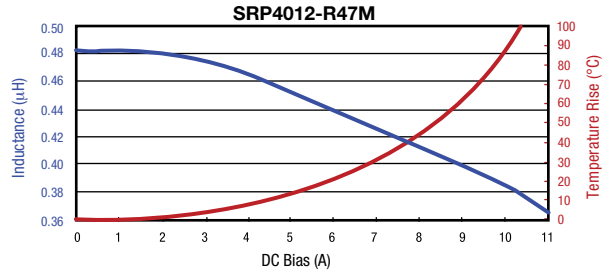
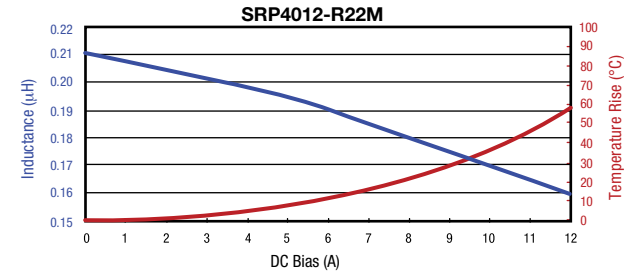
Users should verify actual device performance in their specific applications.

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# SRP4012 Series - Shielded Power Inductors

**BOURNS®**

## L vs. I Charts



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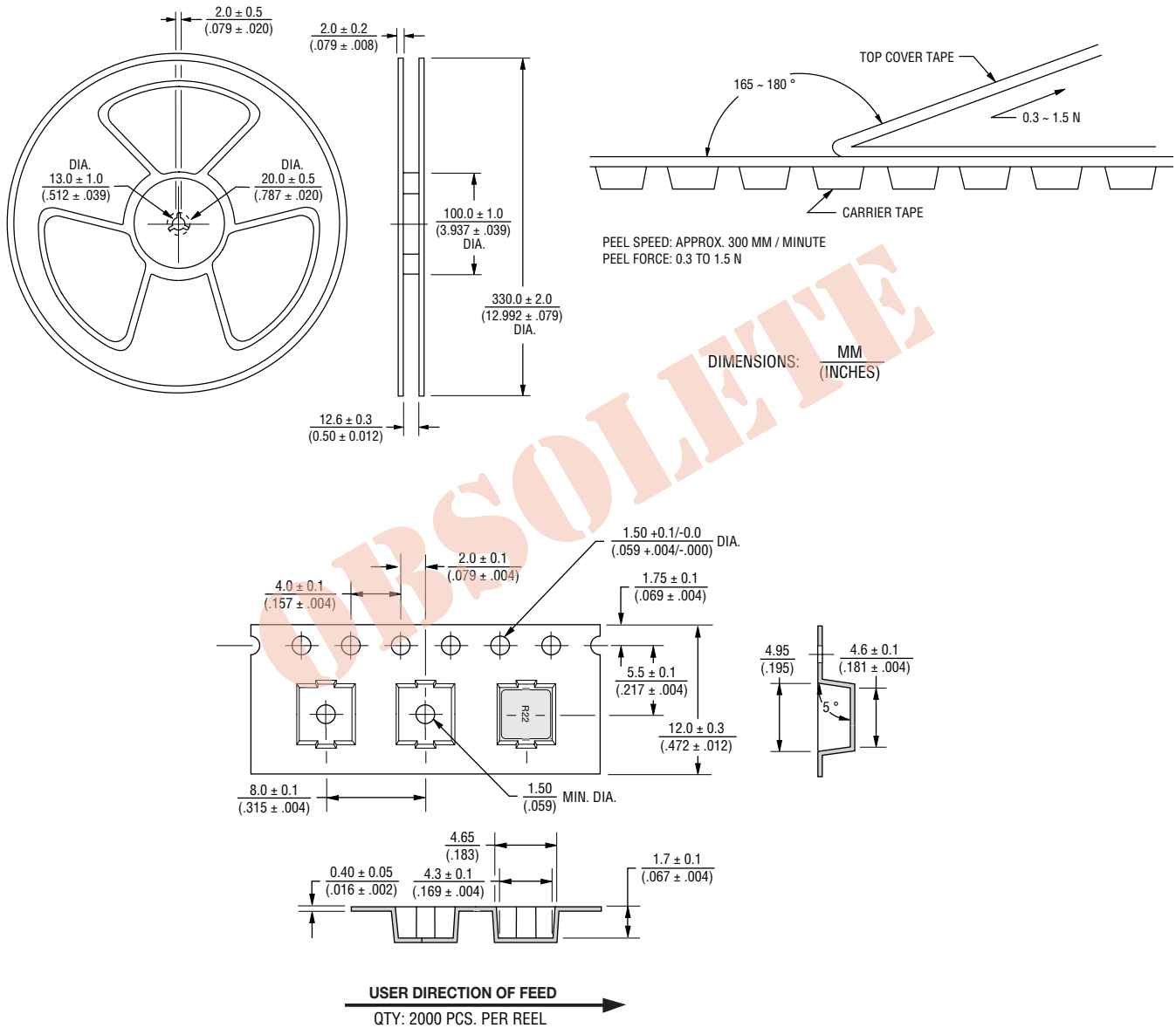
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# SRP4012 Series - Shielded Power Inductors

**BOURNS®**

## Packaging Specifications



REV. 05/19

Specifications are subject to change without notice.

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