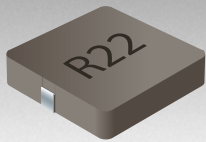


\*RoHS COMPLIANT



**BOURNS®**

**Features**

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

**Applications**

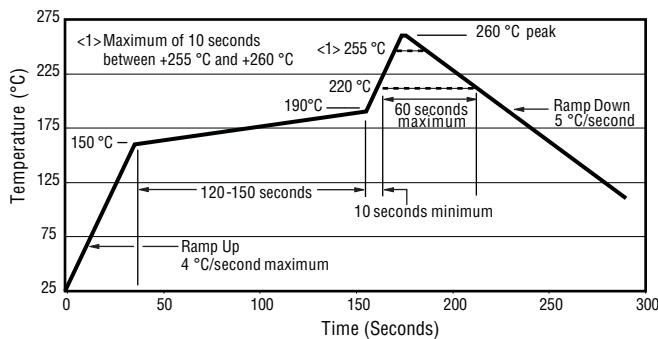
- DC/DC converters
- Power supplies for:
  - Portable communications equipment
  - Laptop computers
  - Camcorders, HDTV, car audio systems
  - Video game consoles

**SRP4012 Series - Shielded Power Inductors**

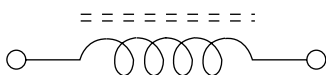
**Electrical Specifications**

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

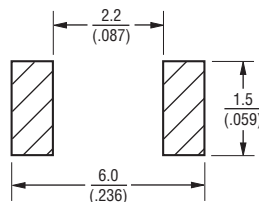
**Soldering Profile**



**Electrical Schematic**



**Recommended Layout**



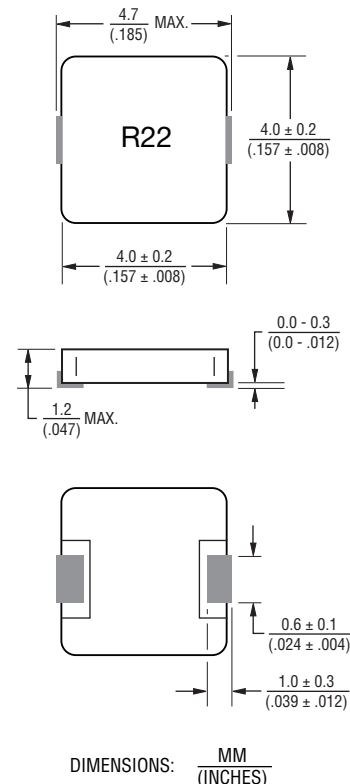
**General Specifications**

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 .....Enamelled copper  
 Terminal ..... Cu/Sn  
 Rated Current ..... Ind. drops 20 % at Isat  
 Temperature Rise .....40 °C at rated Irms  
 Packaging ..... 2000 pcs. per 13-inch reel

**Product Dimensions**



**BOURNS®**

Asia-Pacific: Tel: +886-2 2562-4117 • Fax: +886-2 2562-4116  
 Europe: Tel: +41-41 768 5555 • Fax: +41-41 768 5510  
 The Americas: Tel: +1-951 781-5500 • Fax: +1-951 781-5700  
 www.bourns.com

\* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.  
 \*\* Bourns follows the prevailing definition of "halogen free" in the industry. 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.  
 Customers should verify actual device performance in their specific applications.

