



Features

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



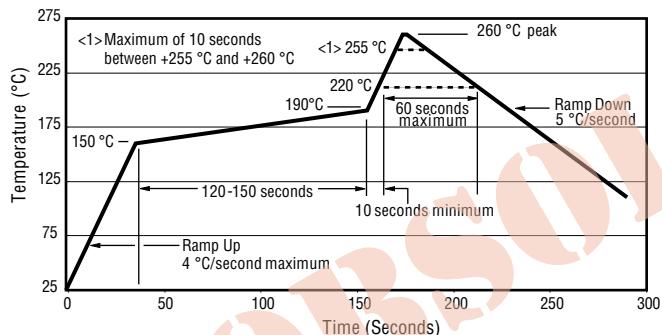
This series is obsolete and not recommended for new designs. The newer [Model SRP4012TA](#) series is recommended.

SRP4012 Series - Shielded Power Inductors

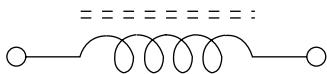
Electrical Specifications

Bourns Part No.	Inductance L (μ H) $\pm 20\%$	I rms (A)	I sat (A)	DCR (m Ω) 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

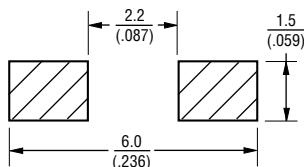
Soldering Profile



Electrical Schematic



Recommended Layout



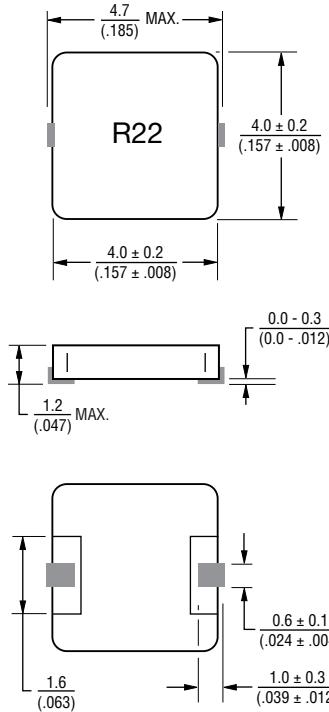
General Specifications

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



DIMENSIONS: MM
(INCHES)



WARNING Cancer and Reproductive Harm - 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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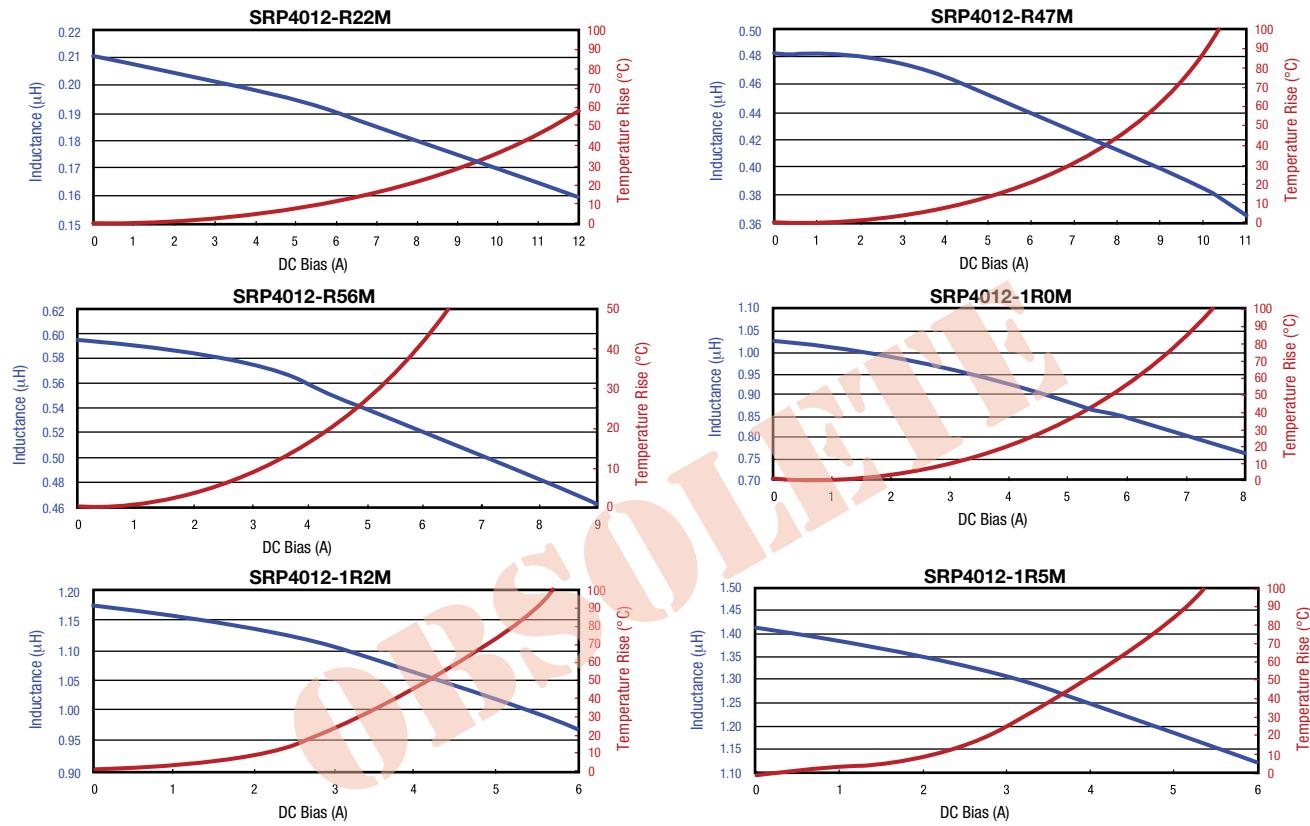
Users should verify actual device performance in their specific applications.

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SRP4012 Series - Shielded Power Inductors

BOURNS®

L vs. I Charts



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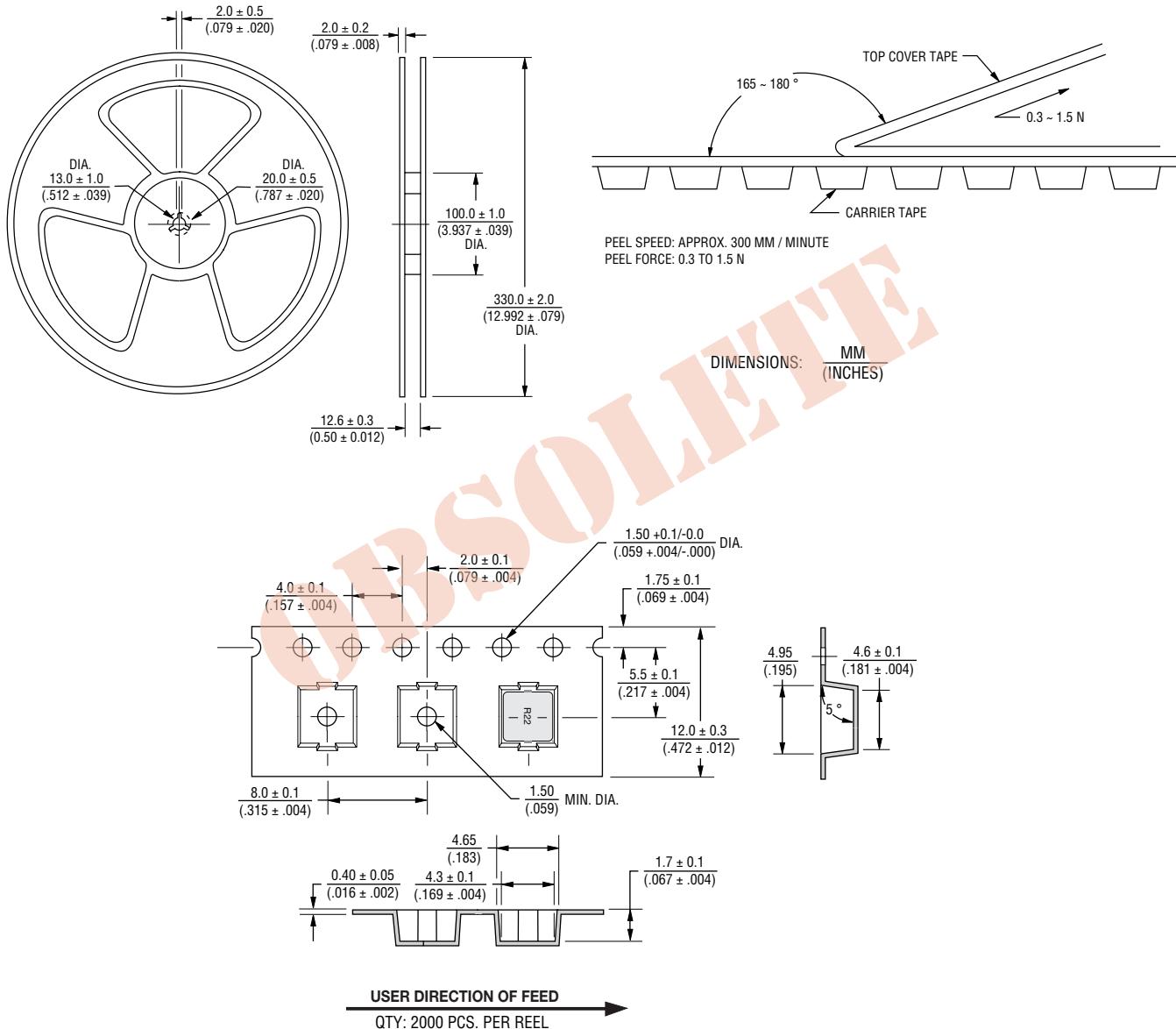
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SRP4012 Series - Shielded Power Inductors

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Packaging Specifications



REV. 05/19

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