



**BOURNS®**

## Features

- Shielded construction
- Unit height of 5.7 mm
- Inductance range: 0.47 to 3.3  $\mu$ H
- Current up to 30 A
- RoHS compliant\*

## Applications

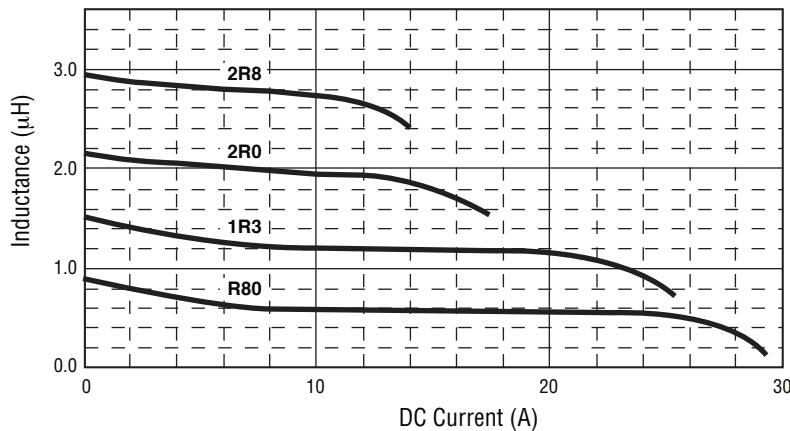
- Input/output of DC/DC converters
- Power supplies for:
  - Portable communications equipment
  - Camcorders
  - LCD TVs

## SRP1206 Series - Shielded Power Inductors

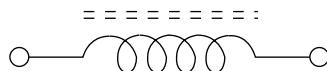
### Electrical Specifications

Bourns Part No.	Initial Inductance L0 ( $\mu$ H)	Inductance at Flat Point L1 ( $\mu$ H)	Flat Point Ref. (A)	I rms (A)	I sat (A)	DCR (m $\Omega$ ) Max.
SRP1206-R47Y	0.70 $\pm$ 25 %	0.47 $\pm$ 25 %	5.0	30.0	30.0	2.3
SRP1206-R60Y	0.90 $\pm$ 25 %	0.60 $\pm$ 25 %	5.0	28.0	26.0	2.3
SRP1206-R80Y	1.10 $\pm$ 25 %	0.80 $\pm$ 25 %	5.0	26.0	25.0	3.2
SRP1206-1R3Y	1.50 $\pm$ 25 %	1.30 $\pm$ 25 %	4.0	22.0	19.0	3.6
SRP1206-2R0Y	2.20 $\pm$ 25 %	2.00 $\pm$ 25 %	4.0	17.0	15.0	6.0
SRP1206-2R8Y	3.00 $\pm$ 25 %	2.80 $\pm$ 25 %	3.0	15.0	13.0	7.0
SRP1206-3R3Y	3.50 $\pm$ 25 %	3.30 $\pm$ 25 %	3.0	14.0	12.0	7.0

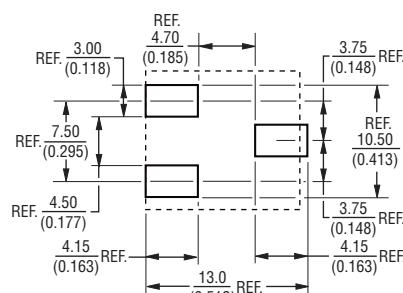
### L vs I Charts



### Electrical Schematic



### Recommended Layout



**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.

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### General Specifications

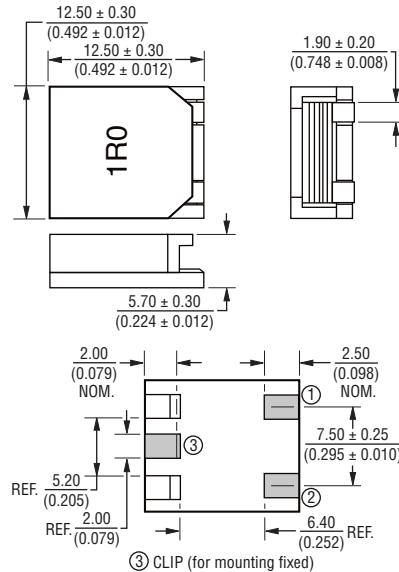
Test Voltage .....	1 V
Test Frequency .....	100 KHz
Reflow Soldering ..	230 °C; 50 sec. max.
Operating Temperature .....	-55 °C to +150 °C (Temperature rise included)
Storage Temperature .....	-55 °C to +150 °C
Resistance to Soldering Heat .....	+260 °C for 10 sec.
Moisture Sensitivity Level .....	1
ESD Classification (HBM).....	N/A

1 Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

### Materials

Core .....	Ferrite ER
Wire .....	Enamelled copper
Terminal .....	Cu/Sn
Rated Current....	Ind. drops 20 % at Isat
Temperature Rise .....	40 °C at rated Irms
Packaging.....	600 pcs. per 13-inch reel

### Product Dimensions

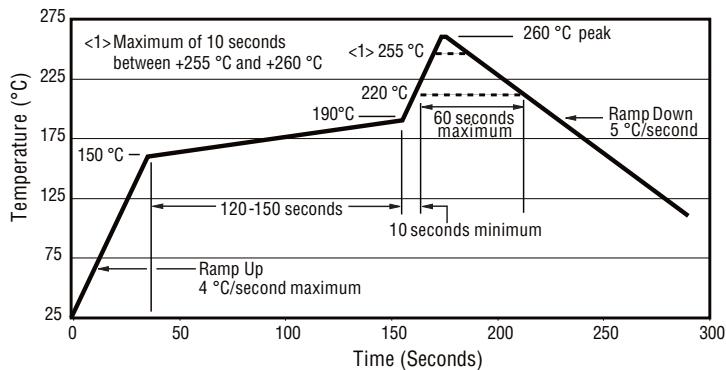


DIMENSIONS: **MM**  
**(INCHES)**

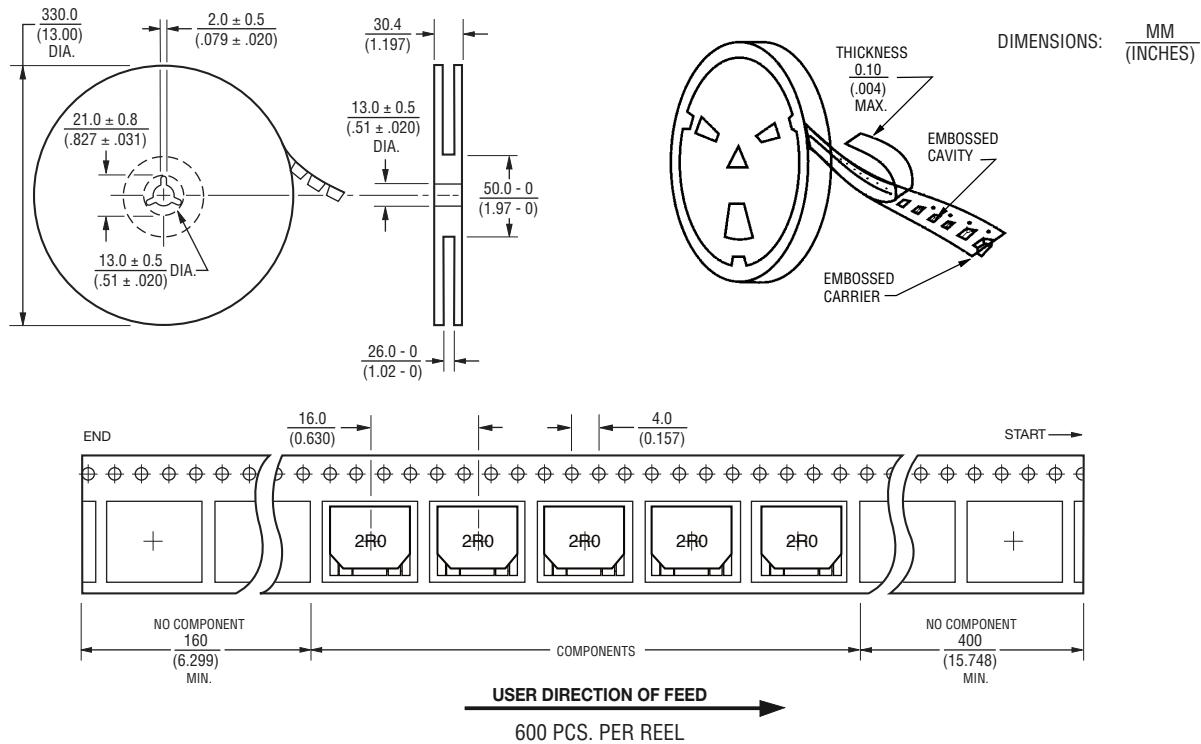
# SRP1206 Series - Shielded Power Inductors

**BOURNS®**

## Soldering Profile



## Packaging Specifications



REV. 03/18

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