



Features

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

Applications

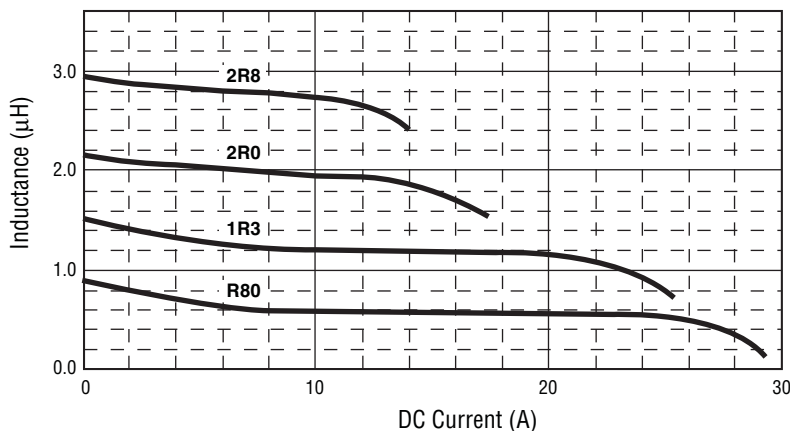
- Input/output of DC/DC converters
- Power supplies for:
 - Portable communications equipment
 - Camcorders
 - LCD TVs
 - Car audio systems

SRP1206 Series - Shielded Power Inductors

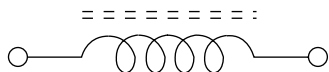
Electrical Specifications

Bourns Part No.	Initial Inductance L0 (μ H)	Inductance at Flat Point L1 (μ H)	Flat Point ref. (A)	I rms (A)	I sat (A)	DCR (m Ω) 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



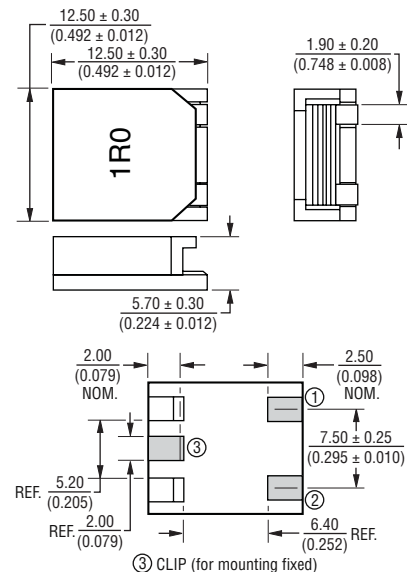
General Specifications

Test Voltage.....1 V
 Test Frequency100 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.

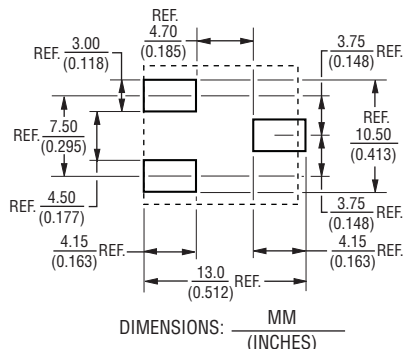
Materials

Core.....Ferrite ER
 Wire.....Enameled copper
 TerminalCu/Sn
 Rated Current.....Ind. drops 20 % at I sat
 Temperature Rise.....40 °C at rated I rms
 Packaging600 pcs. per 13-inch reel

Product Dimensions



Recommended Layout

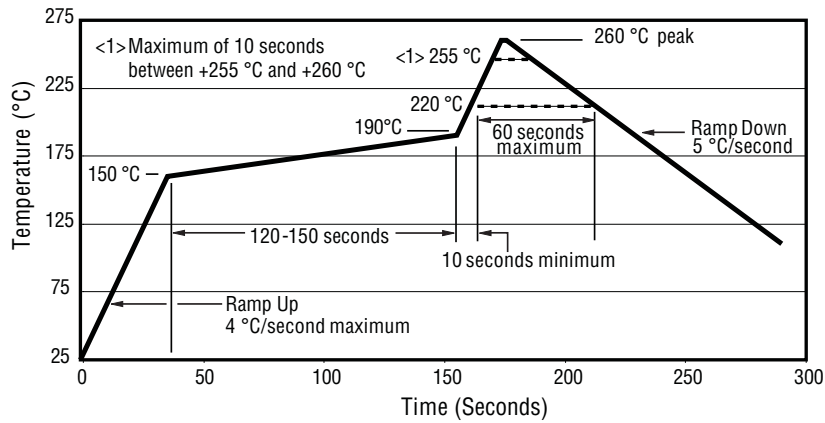


*RoHS Directive 2002/95/EC Jan 27, 2003 including Annex. Specifications are subject to change without notice. Customers should verify actual device performance in their specific applications.

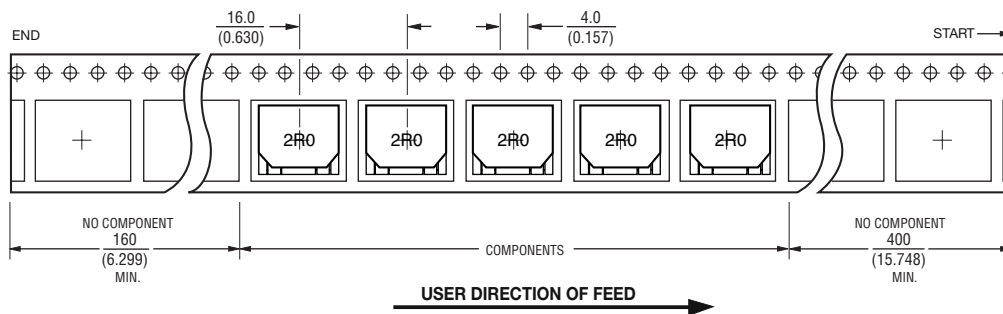
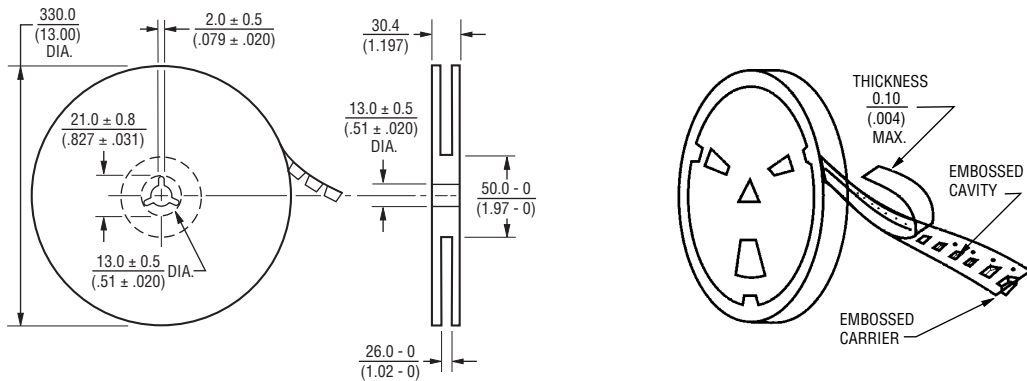
SRP1206 Series - Shielded Power Inductors

BOURNS®

Soldering Profile



Packaging Specifications



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

REV. 05/11

Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications.