



Features

- Shielded construction
- Unit height of 4 mm
- Inductance range: 0.5 to 1.8 μ H
- Current up to 13 A
- RoHS compliant*

Applications

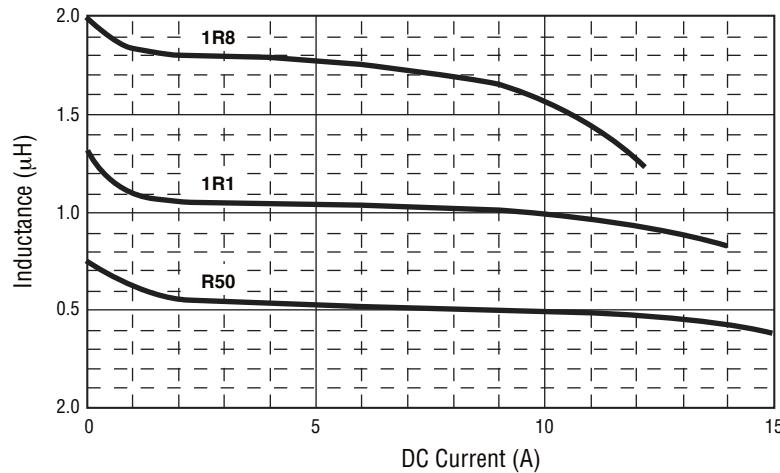
- Input/output of DC/DC converters
- Power supplies for:
 - Portable communications equipment
 - Camcorders
 - LCD TVs

SRP1204 Series - Shielded Power Inductors

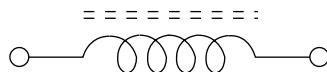
Electrical Specifications

Bourns Part No.	Initial Inductance L ₀ (μ H)	Inductance at Flat Point L ₁ (μ H)	Flat Point Ref. (A)	I _{rms} (A)	I _{sat} (A)	DCR (m Ω) Max.
SRP1204-R50M	0.75 \pm 20 %	0.55 \pm 20 %	2.0	13.0	14.0	3.0
SRP1204-1R1M	1.30 \pm 20 %	1.10 \pm 20 %	2.0	12.0	13.0	4.5
SRP1204-1R8M	2.00 \pm 20 %	1.80 \pm 20 %	2.0	10.0	11.0	6.0

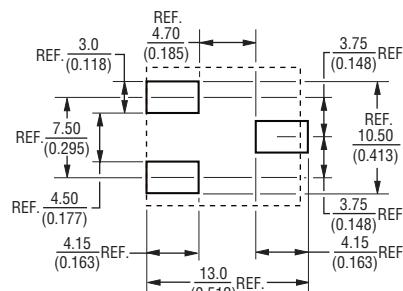
L vs I Charts



Electrical Schematic



Recommended Layout



General Specifications

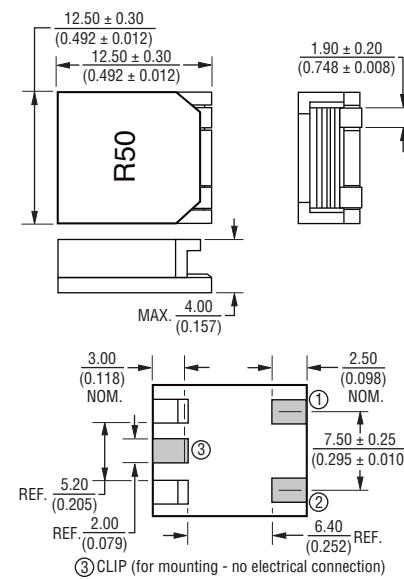
Test Voltage	1 V
Test Frequency	100 KHz
Reflow Soldering ..	230 °C; 50 sec. max.
Operating Temperature	-40 °C to +125 °C (Temperature rise included)
Storage Temperature	-40 °C to +125 °C
Resistance to Soldering Heat	+245 °C for 10 sec.
Moisture Sensitivity Level	1
ESD Classification (HBM).....	N/A

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/Ni/Sn
Rated Current.....	Ind. drops 20 % at Isat
Temperature Rise	40 °C at rated I _{rms}
Packaging.....	800 pcs. per 13-inch reel

Product Dimensions



DIMENSIONS: MM
(INCHES)



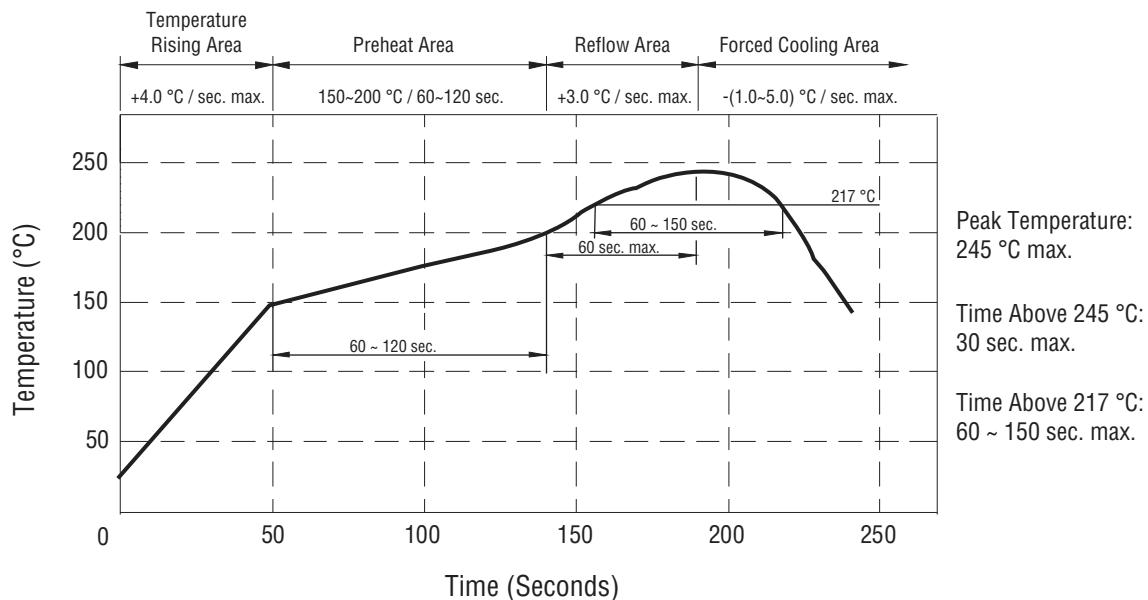
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf

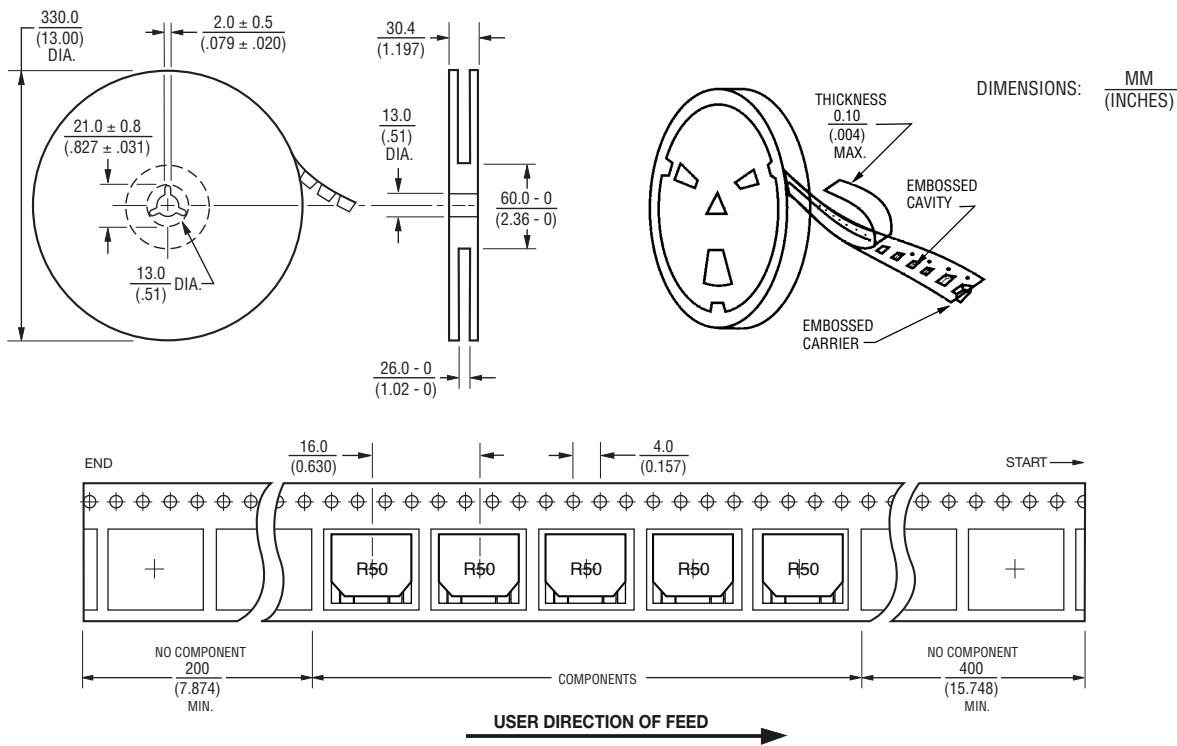
SRP1204 Series - Shielded Power Inductors

BOURNS®

Soldering Profile



Packaging Specifications



REV. 03/18

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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