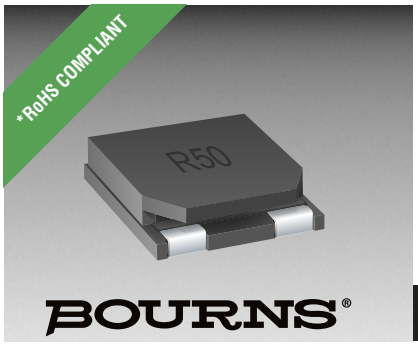


Features

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

Applications

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

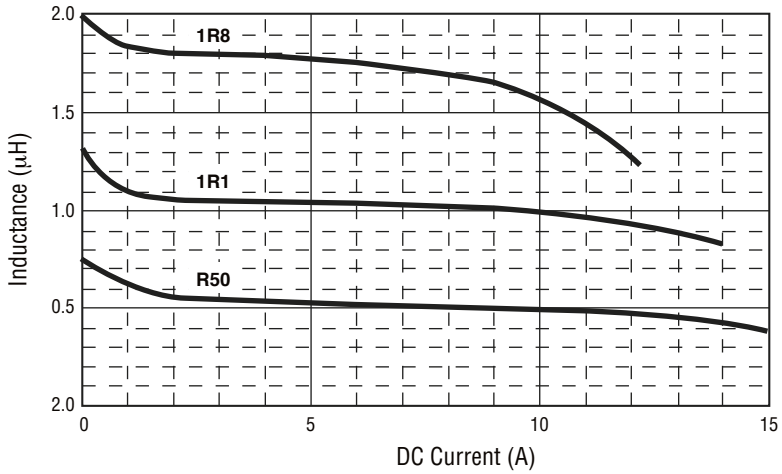
BOURNS®

SRP1204 Series - Shielded Power Inductors

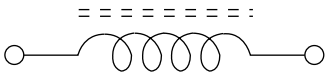
Electrical Specifications

Bourns Part No.	Initial Inductance L0 (μH)	Inductance at Flat Point L1 (μH)	Flat Point Ref. (A)	I rms (A)	I sat (A)	DCR (mΩ) Max.
SRP1204-R50M	0.75 ±20 %	0.55 ±20 %	2.0	13.0	14.0	3.0
SRP1204-1R1M	1.30 ±20 %	1.10 ±20 %	2.0	12.0	13.0	4.5
SRP1204-1R8M	2.00 ±20 %	1.80 ±20 %	2.0	10.0	11.0	6.0

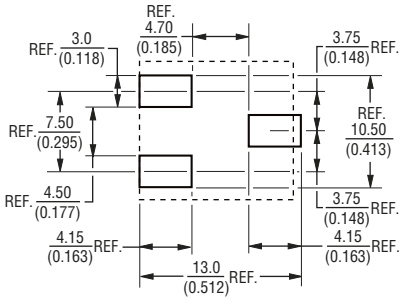
L vs I Charts



Electrical Schematic



Recommended Layout



General Specifications

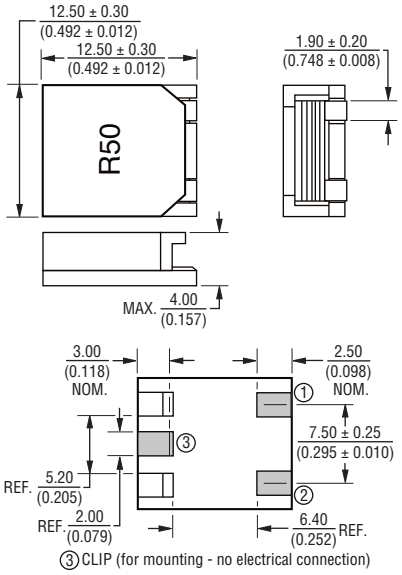
Test Voltage.....1 V
Test Frequency..... 100 KHz
Reflow Soldering .. 230 °C; 50 sec. max.
Operating Temperature
.....-40 °C to +125 °C
(Temperature rise included)
Storage Temperature
.....-40 °C to +125 °C
Resistance to Soldering Heat
.....+245 °C for 10 sec.
Moisture Sensitivity Level.....1
ESD Classification (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 .....Enameled copper
Terminal.....Cu/Ni/Sn
Rated Current.....Ind. drops 20 % at Isat
Temperature Rise .....40 °C at rated Irms
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.

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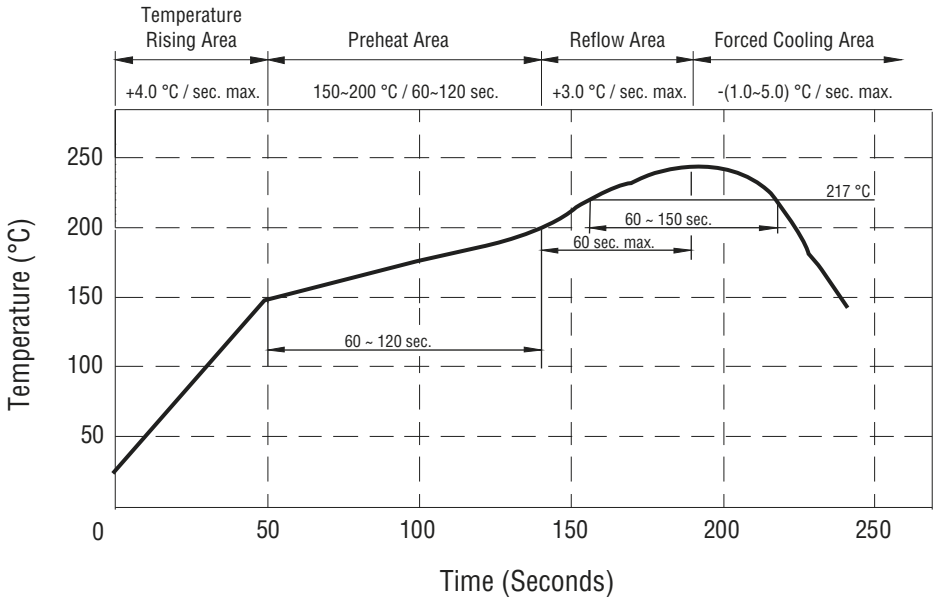
Soldering Profile

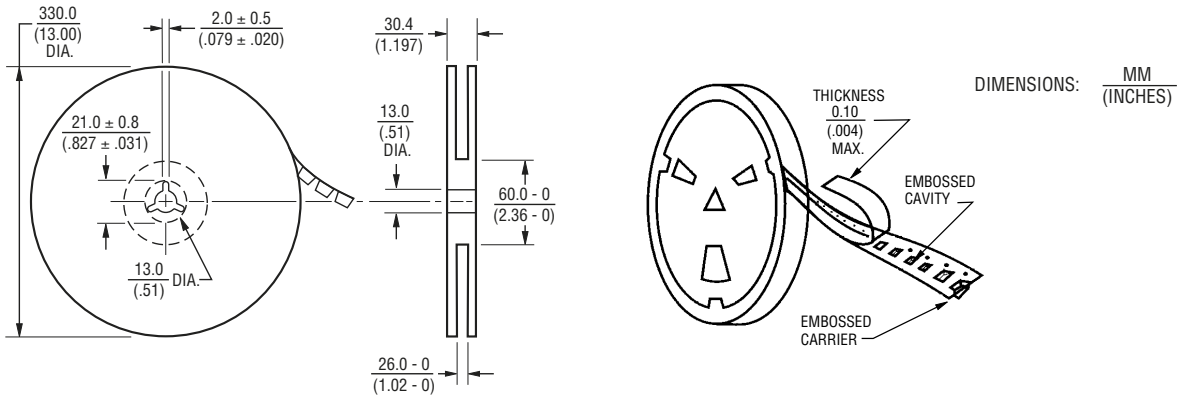


Peak Temperature: 245 °C max.

Time Above 245 °C: 30 sec. max.

Time Above 217 °C: 60 ~ 150 sec. max.

Packaging Specifications



800 PCS. PER REEL

REV. 03/18

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Web Page: http://www.bourns.com/legal/disclaimers-terms-and-policies

PDF: http://www.bourns.com/docs/Legal/disclaimer.pdf

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

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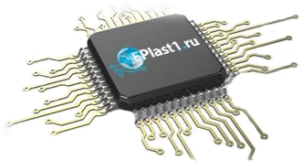
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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