

## **Features**

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

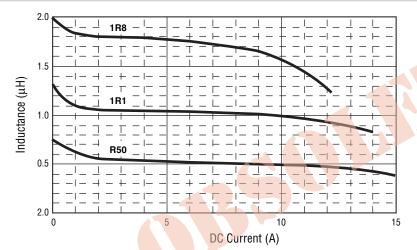


# **SRP1204 Series - Shielded Power Inductors**

#### **Electrical Specifications**

Bourns Part No.	Initial Inductance L0 (μΗ)	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

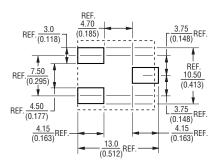
#### L vs I Charts



#### **Electrical Schematic**



## **Recommended Layout**

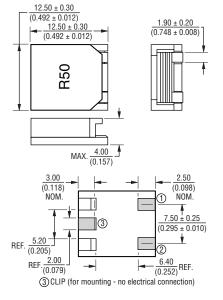


1 Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

#### **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:  $\frac{MM}{(INCHES)}$ 



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

\*RoHS Directive 2015/863, Mar 31, 2015 and Annex. Specifications are subject to change without notice.

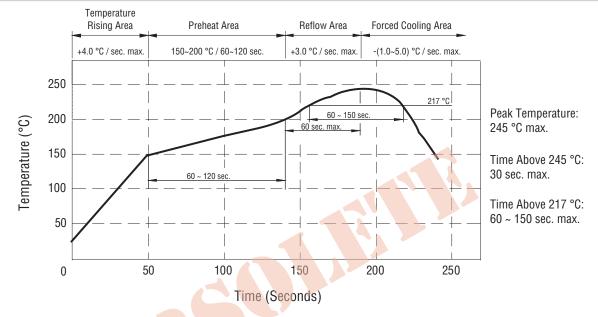
## **Applications**

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

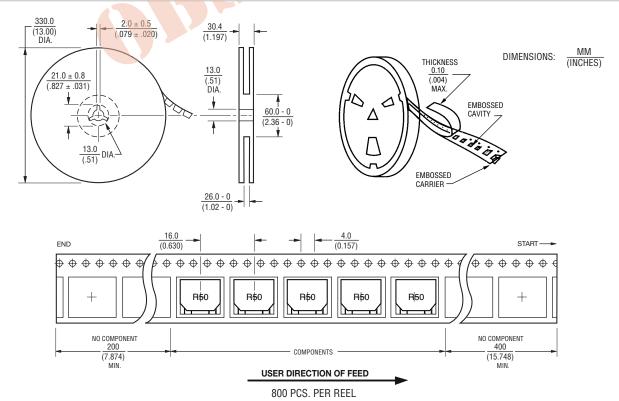
# **SRP1204 Series - Shielded Power Inductors**

# BOURNS

#### **Soldering Profile**



### **Packaging Specifications**



REV. 03/20

Specifications are subject to change without notice.

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