



### Features

- Shielded construction
- Iron powder core
- High saturation current
- Inductance range: 0.33 to 15  $\mu$ H
- Rated current up to 14 A
- RoHS compliant\* and halogen free\*\*

### Applications

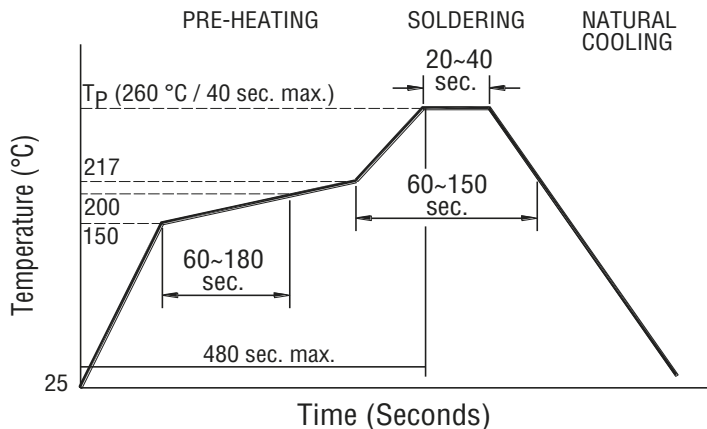
- DC/DC converters
- Power supplies for:
  - Portable communications equipment
  - Laptop computers
  - Camcorders, HDTV
  - Video game consoles

## SRP5030T Series - Shielded Power Inductors

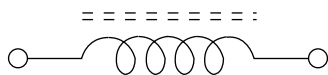
### Electrical Specifications

Bourns Part No.	Inductance L ( $\mu$ H) $\pm 20\%$	DCR (m $\Omega$ ) Max.	I rms (A)	I sat (A)
SRP5030T-R33M	0.33	5	14	18
SRP5030T-R47M	0.47	7.4	12	16
SRP5030T-R68M	0.68	12	8.5	14
SRP5030T-1R0M	1.0	14	7	11
SRP5030T-1R2M	1.2	16	6.5	11
SRP5030T-1R5M	1.5	25	6	10
SRP5030T-2R2M	2.2	35	5.5	9
SRP5030T-3R3M	3.3	38	5	8
SRP5030T-4R7M	4.7	53	4.6	6
SRP5030T-5R6M	5.6	63	4.25	4.5
SRP5030T-6R8M	6.8	76.2	4	4.3
SRP5030T-100M	10	128	2.75	3.5
SRP5030T-150M	15	190	2.1	2.6

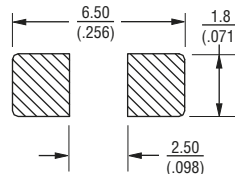
### Soldering Profile



### Electrical Schematic



### Recommended Layout



### General Specifications

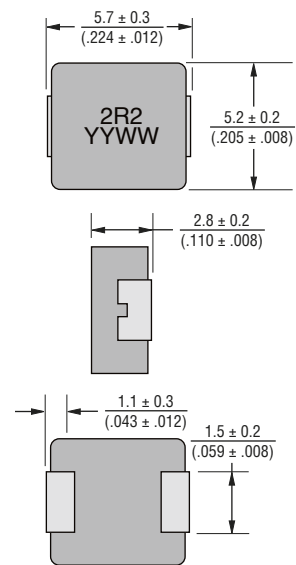
Test Voltage ..... 1.0 V  
 Test Frequency ..... 100 KHz  
 Operating Temperature ..... -40 °C to +125 °C  
 (Temperature rise included)  
 Storage Temperature ..... -40 °C to +125 °C  
 Resistance to Soldering Heat ..... +260 °C, 40 sec. max.  
 Moisture Sensitivity Level ..... 1  
 ESD Classification (HBM) ..... N/A

<sup>1</sup> 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 ..... Iron powder  
 Wire ..... Enameled copper  
 Terminal ..... Sn  
 Rated Current ..... Ind. drops 20 % typ. at I<sub>sat</sub>  
 Temperature Rise ..... 40 °C typ. at rated I<sub>rms</sub>  
 Packaging ..... 2000 pcs. per 13-inch reel

### Product Dimensions



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



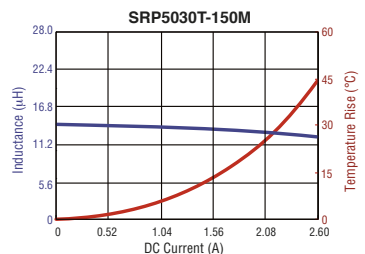
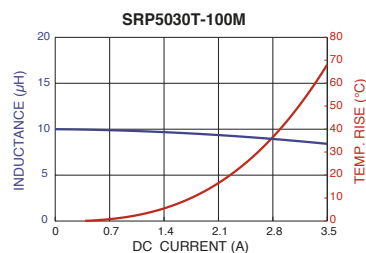
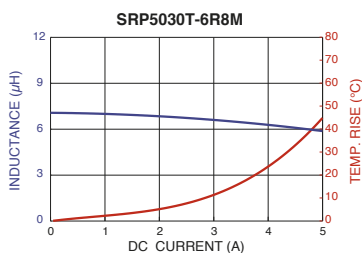
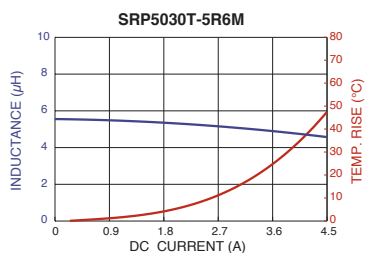
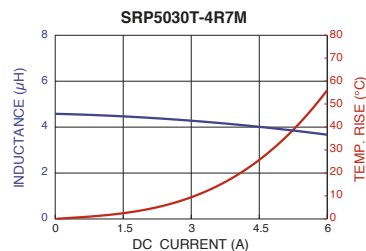
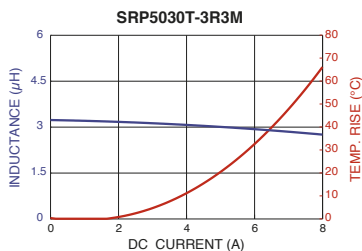
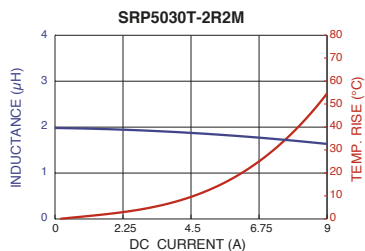
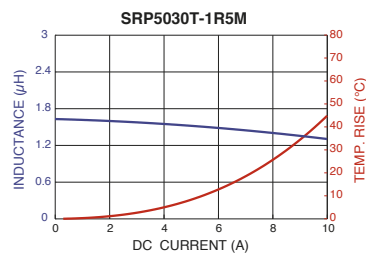
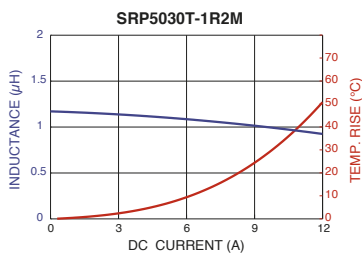
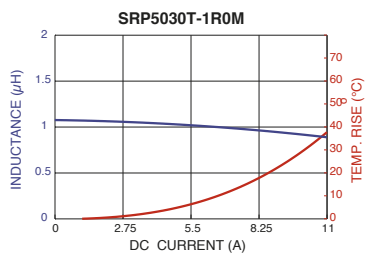
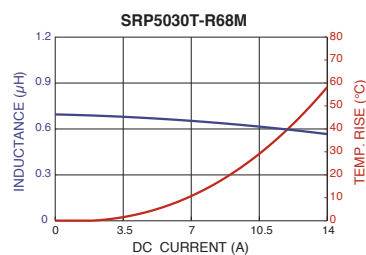
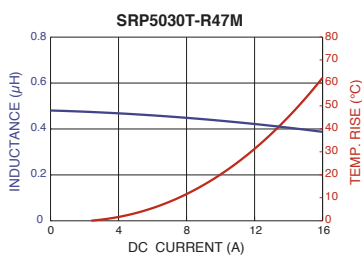
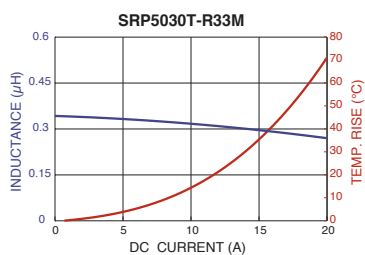
**WARNING Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

\* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.  
 \*\*Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less. 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](http://www.bourns.com/docs/legal/disclaimer.pdf)

# SRP5030T Series - Shielded Power Inductors

**BOURNS®**

## L vs. I Charts

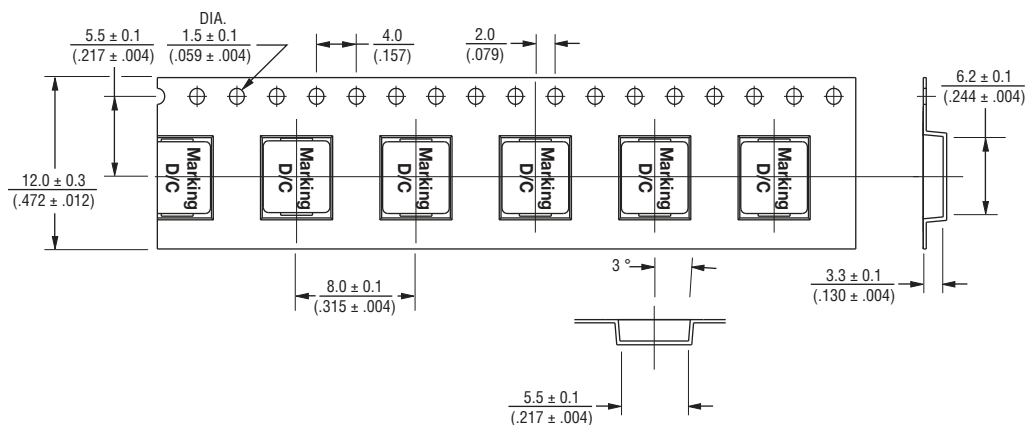
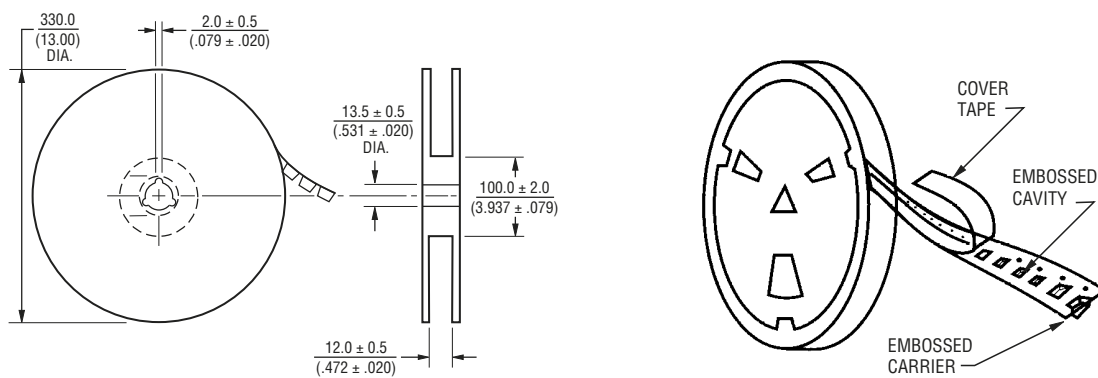


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# SRP5030T Series - Shielded Power Inductors

**BOURNS®**

## Packaging Specifications



USER DIRECTION OF FEED

2000 PIECES PER REEL

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

03/18

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Users should verify actual device performance in their specific applications.

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