



## Features

- Shielded construction
- Carbonyl powder core
- High saturation current
- Inductance range: 0.15 to 22  $\mu$ H
- AEC-Q200 qualified
- RoHS compliant\* and halogen free\*\*

## SRP5015TA Series - Shielded Power Inductors

### Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 KHz / 1 V		Q (Min.) @ 100 KHz / 1 V	SRF (MHz) Typ.	DCR (m $\Omega$ ) Typ.	DCR (m $\Omega$ ) Max.	I <sub>rms</sub> (A)	I <sub>sat</sub> (A)	Terminal Type
	L ( $\mu$ H)	Tol. (%)							
SRP5015TA-R15Y	0.15	± 30	5	220	3.6	4.1	16	25	Lead Frame
SRP5015TA-R20Y	0.20	± 30	5	180	3.8	4.2	15	22.5	
SRP5015TA-R22Y	0.22	± 30	5	165	5	6.5	12	20	
SRP5015TA-R33M	0.33	± 20	5	120	8.5	9.8	9	16	
SRP5015TA-R47M	0.47	± 20	5	110	12	13.8	8	15	
SRP5015TA-R68M	0.68	± 20	5	85	14	16.2	7	13	
SRP5015TA-1R0M	1.0	± 20	10	75	22	25.3	6	9	
SRP5015TA-1R5M	1.5	± 20	10	57	39	45	4.5	7	
SRP5015TA-2R2M	2.2	± 20	10	48	45	52	4	6	
SRP5015TA-3R3M	3.3	± 20	10	35	78	90	3.2	4.5	
SRP5015TA-4R7M	4.7	± 20	10	29	103	118	2.7	4	
SRP5015TA-5R6M	5.6	± 20	10	27	126	152	2.4	3.2	
SRP5015TA-6R8M	6.8	± 20	10	24	142	171	2.3	3	
SRP5015TA-8R2M	8.2	± 20	10	22	175	210	2.1	2.6	
SRP5015TA-100M	10	± 20	10	21	210	235	2	2.3	
SRP5015TA-220M	22	± 20	10	13	405	466	1.2	1.7	

### General Specifications

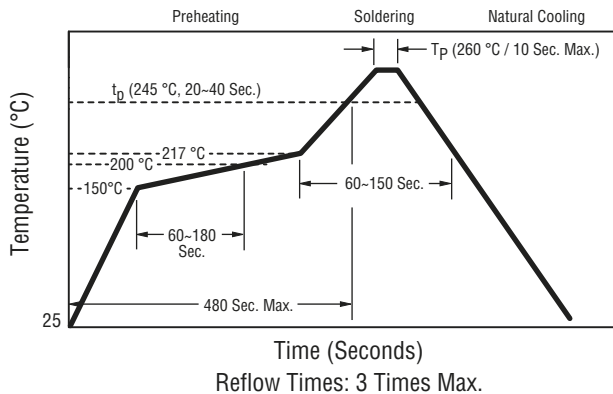
Operating Temperature .....-40 °C to +150 °C  
 (Temperature rise included)  
 Storage Temperature .....-40 °C to +125 °C  
 Rated Current ..... Inductance drops 20 % at I<sub>sat</sub>  
 Temperature Rise .....40 °C at rated I<sub>rms</sub>  
 Moisture Sensitivity Level..... 1  
 ESD Classification (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.

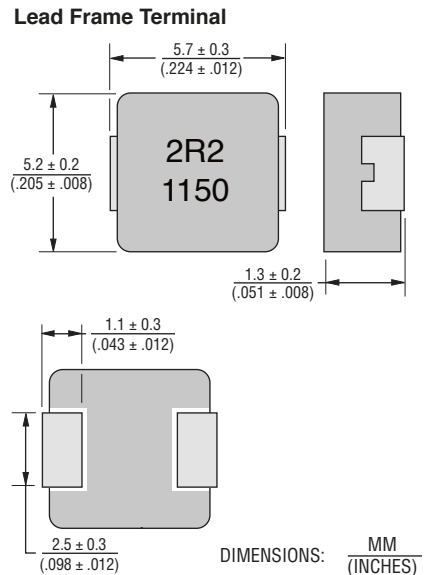
### Materials

Core..... Carbonyl powder  
 Wire..... Enameled copper  
 Terminal Finish..... Sn  
 Packaging..... 3500 pcs. per 13-inch reel

### Soldering Profile



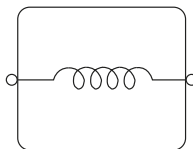
### Product Dimensions



### How to Order

SRP5015TA - 100 M  
 Model \_\_\_\_\_  
 Value Code (see table) \_\_\_\_\_  
 Tolerance Code \_\_\_\_\_

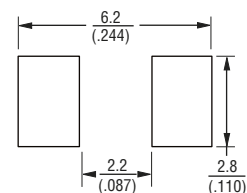
### Schematic



**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.  
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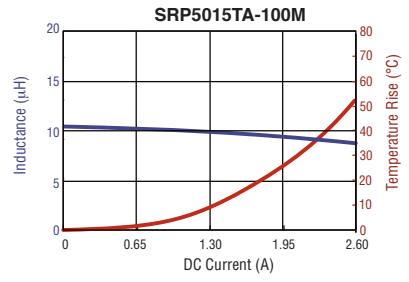
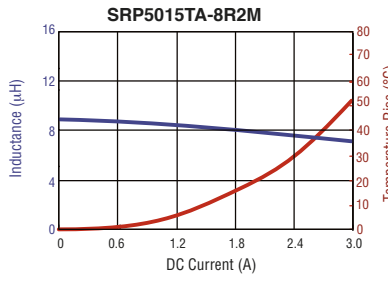
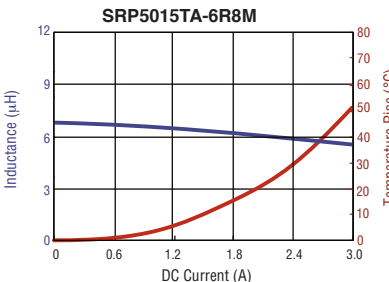
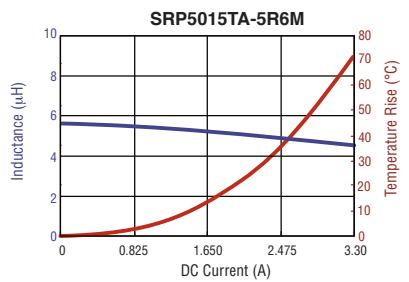
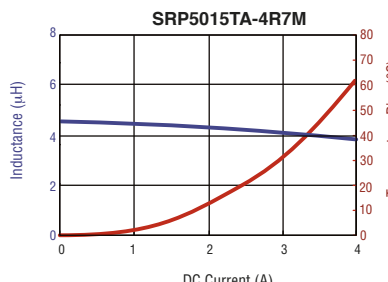
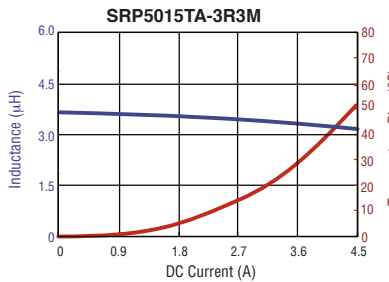
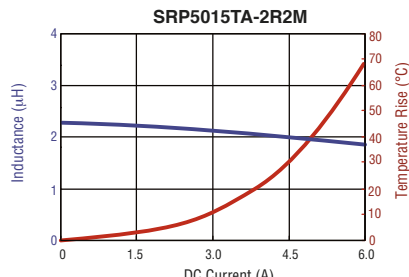
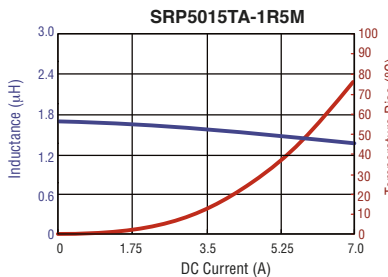
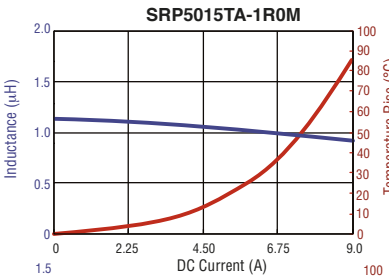
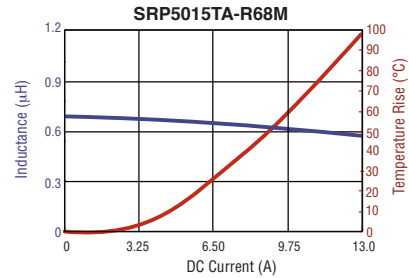
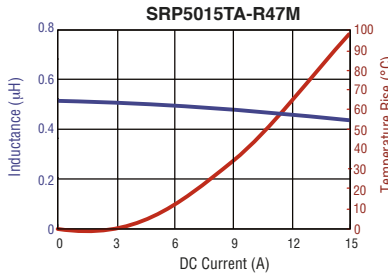
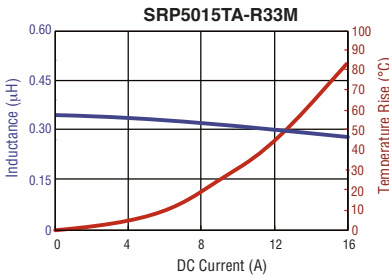
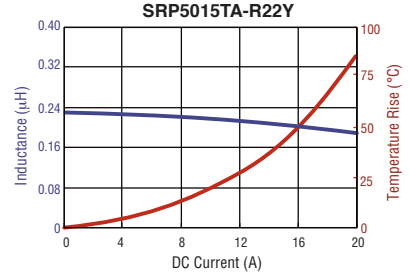
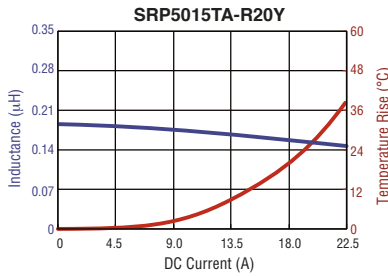
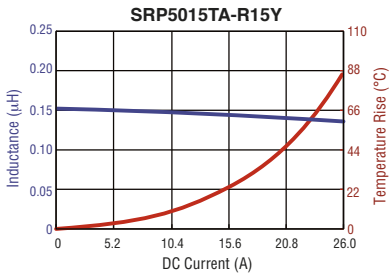
### Recommended Layout



# SRP5015TA Series - Shielded Power Inductors

**BOURNS®**

## L vs. I Charts

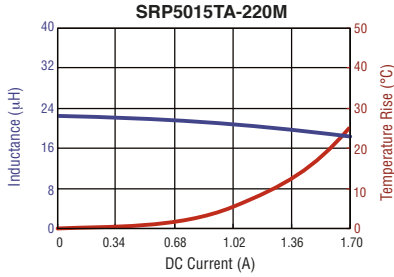


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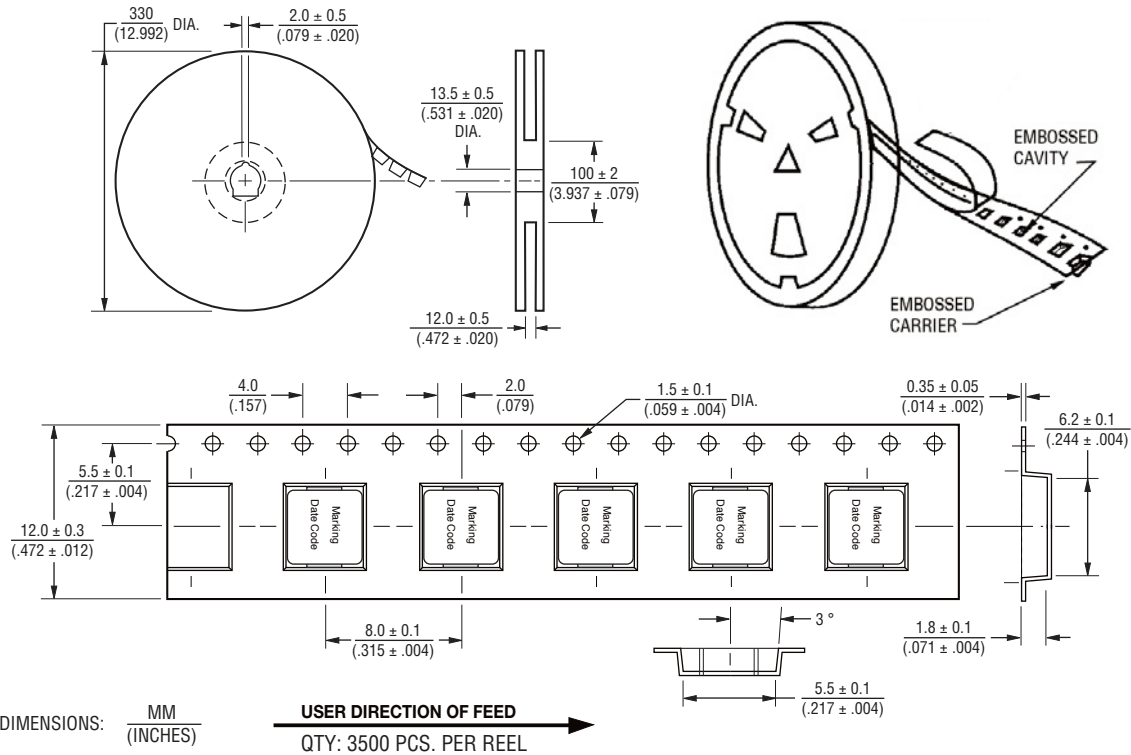
# SRP5015TA Series - Shielded Power Inductors

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## L vs. I Charts (Continued)



## Packaging Specifications



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