



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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### 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\*\*

### Applications

- Automotive systems:
  - Driver assistant
  - Information
  - Entertainment
  - Lighting
- DC/DC converters
- Power supplies

## 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	$\pm 30$	5	220	3.6	4.1	16	25	Lead Frame
SRP5015TA-R20Y	0.20	$\pm 30$	5	180	3.8	4.2	15	22.5	
SRP5015TA-R22Y	0.22	$\pm 30$	5	165	5	6.5	12	20	
SRP5015TA-R33M	0.33	$\pm 20$	5	120	8.5	9.8	9	16	
SRP5015TA-R47M	0.47	$\pm 20$	5	110	12	13.8	8	15	
SRP5015TA-R68M	0.68	$\pm 20$	5	85	14	16.2	7	13	
SRP5015TA-1R0M	1.0	$\pm 20$	10	75	22	25.3	6	9	
SRP5015TA-1R5M	1.5	$\pm 20$	10	57	39	45	4.5	7	
SRP5015TA-2R2M	2.2	$\pm 20$	10	48	45	52	4	6	
SRP5015TA-3R3M	3.3	$\pm 20$	10	35	78	90	3.2	4.5	
SRP5015TA-4R7M	4.7	$\pm 20$	10	29	103	118	2.7	4	
SRP5015TA-5R6M	5.6	$\pm 20$	10	27	126	152	2.4	3.2	
SRP5015TA-6R8M	6.8	$\pm 20$	10	24	142	171	2.3	3	
SRP5015TA-8R2M	8.2	$\pm 20$	10	22	175	210	2.1	2.6	
SRP5015TA-100M	10	$\pm 20$	10	21	210	235	2	2.3	
SRP5015TA-220M	22	$\pm 20$	10	13	405	466	1.2	1.7	

### General Specifications

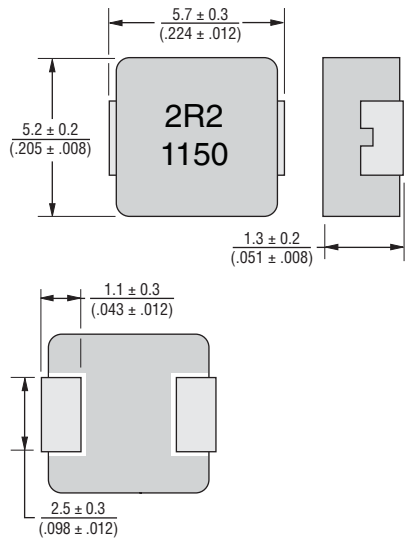
Operating Temperature .....-40 °C to +150 °C  
 (Temperature rise included)  
 Storage Temperature .....-40 °C to +125 °C  
 Rated Current ..... Inductance drops 20 % at I<sub>sat</sub>  
 Temperature Rise .....40 °C at rated I<sub>rms</sub>

### Materials

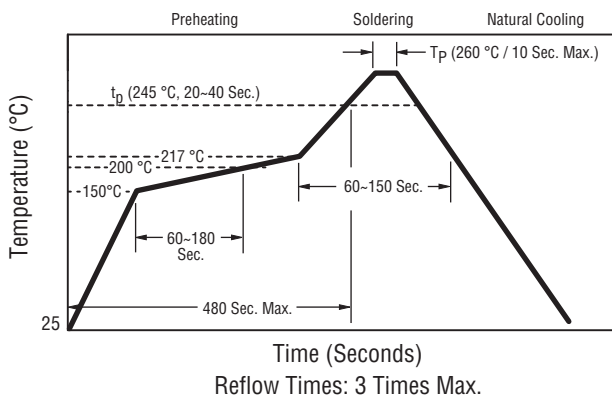
Core.....Carbonyl powder  
 Wire.....Enameled copper  
 Terminal Finish.....Sn  
 Packaging..... 3500 pcs. per 13-inch reel

### Product Dimensions

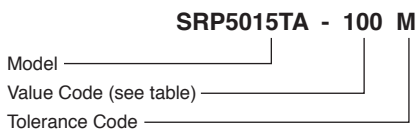
#### Lead Frame Terminal



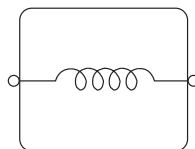
### Soldering Profile



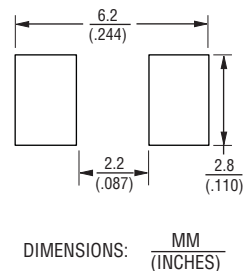
### How to Order



### Schematic



### Recommended Layout

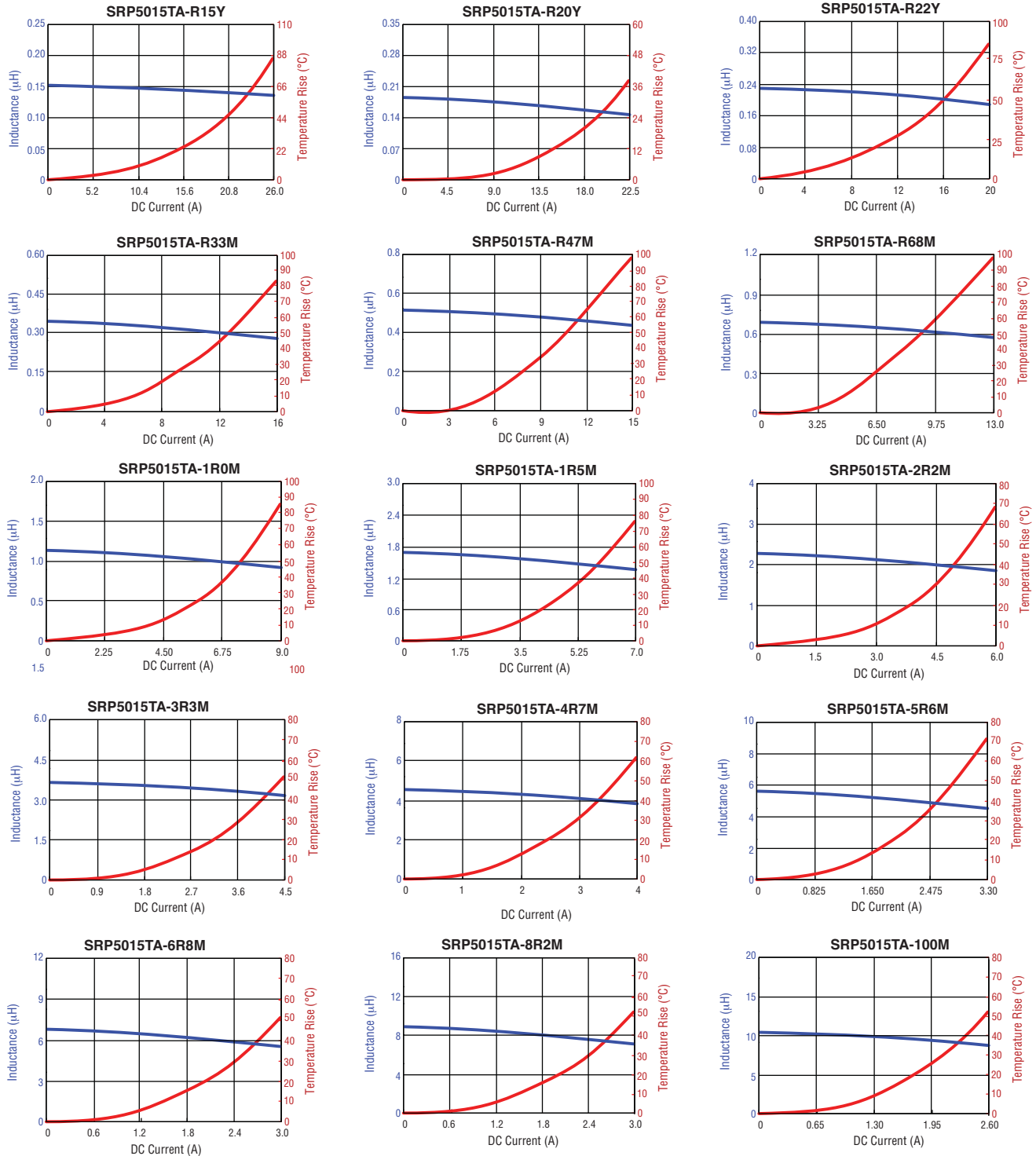


\* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.  
 \*\*Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less. Specifications are subject to change without notice. The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

# SRP5015TA Series - Shielded Power Inductors

**BOURNS®**

## L vs. I Charts



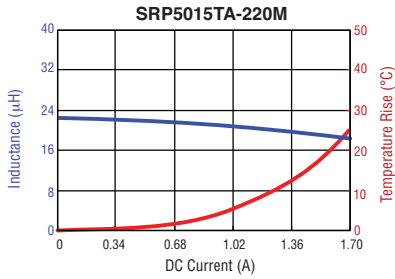
Specifications are subject to change without notice. The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.



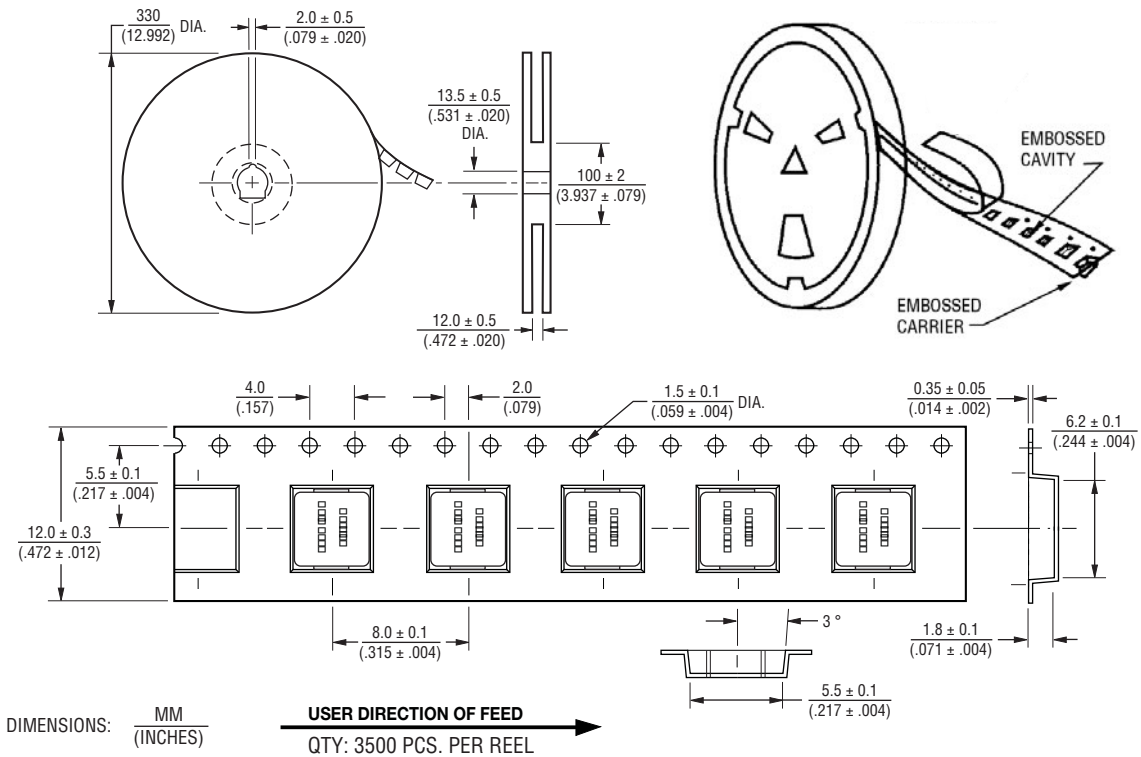
# SRP5015TA Series - Shielded Power Inductors

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## L vs. I Charts (Continued)



## Packaging Specifications



REV. 09/16

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