



Features

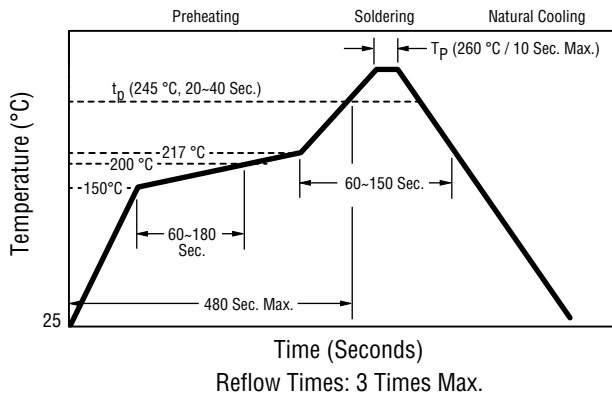
- Shielded construction
- Carbonyl powder core
- High saturation current
- Inductance range: 0.15 to 22 μ H
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

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 Ω) Typ.	DCR (m Ω) Max.	I _{rms} (A)	I _{sat} (A)	Terminal Type
	L (μ 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	

Soldering Profile

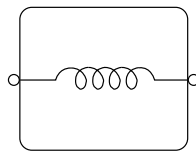


How to Order

SRP5015TA - 100 M

Model _____
 Value Code (see table) _____
 Tolerance Code _____

Schematic



General Specifications

Operating Temperature-55 °C to +150 °C
 (Temperature rise included)
 Storage Temperature-55 °C to +150 °C
 Rated Current Inductance drops 20 % at I_{sat}
 Temperature Rise40 °C at rated I_{rms}
 Moisture Sensitivity Level 1
 ESD Classification (HBM)..... N/A

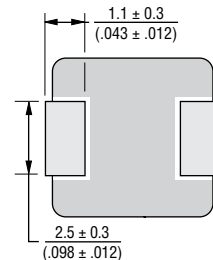
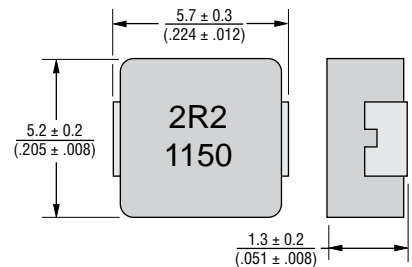
Note 1: Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Materials

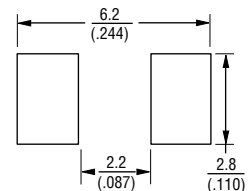
Core Carbonyl powder
 Wire Enameled copper
 Terminal Finish Sn
 Packaging 3500 pcs. per 13-inch reel

Product Dimensions

Lead Frame Terminal



Recommended Layout



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



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

* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

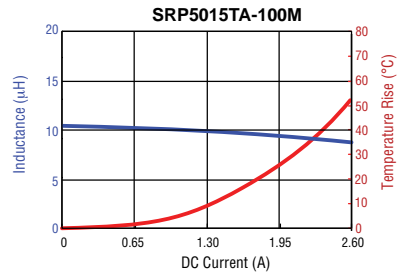
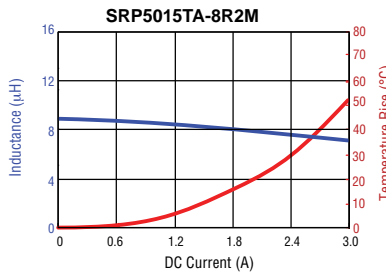
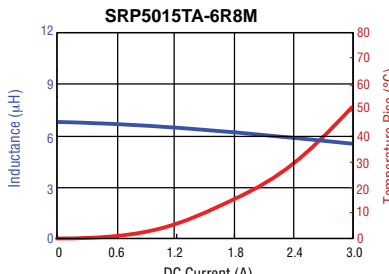
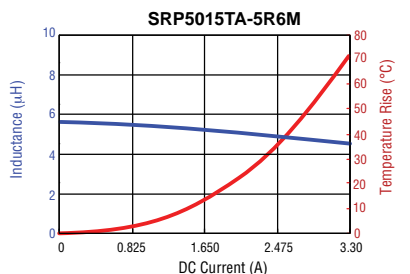
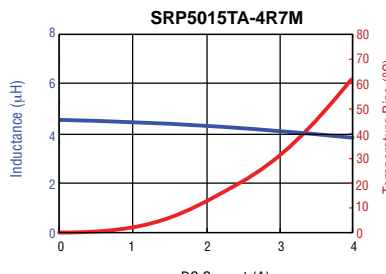
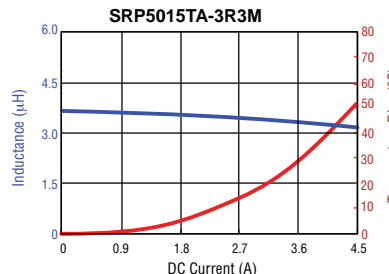
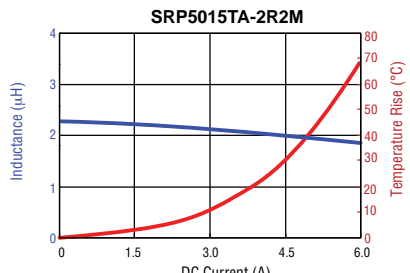
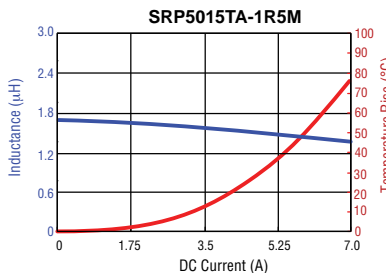
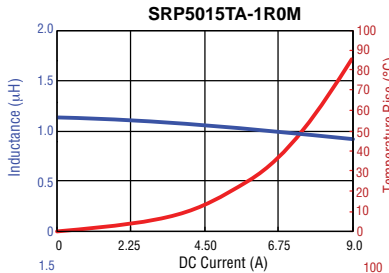
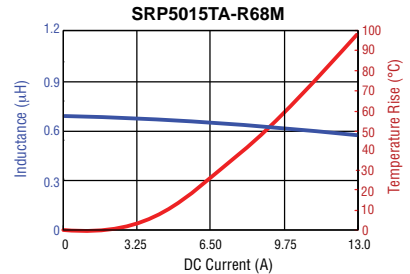
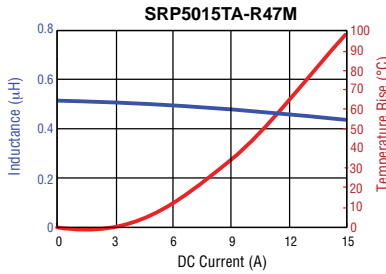
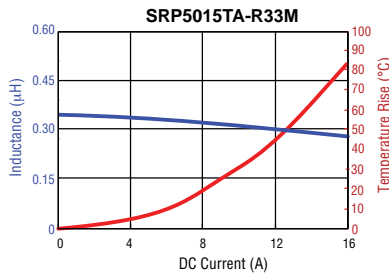
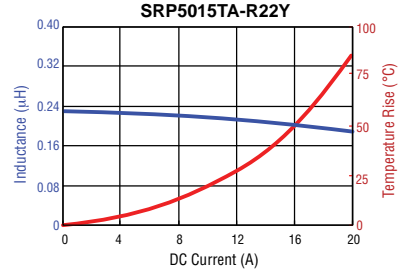
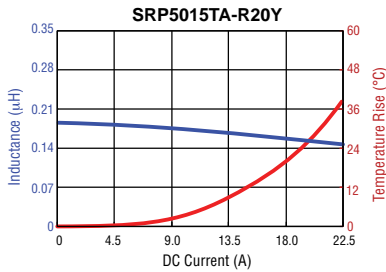
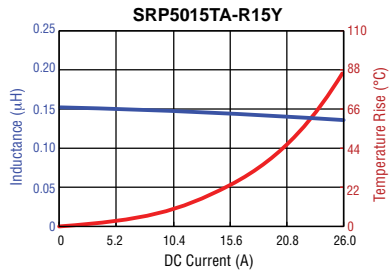
** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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SRP5015TA Series - Shielded Power Inductors



L vs. I Charts

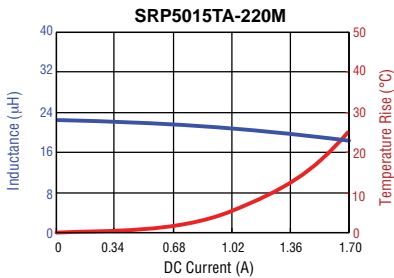


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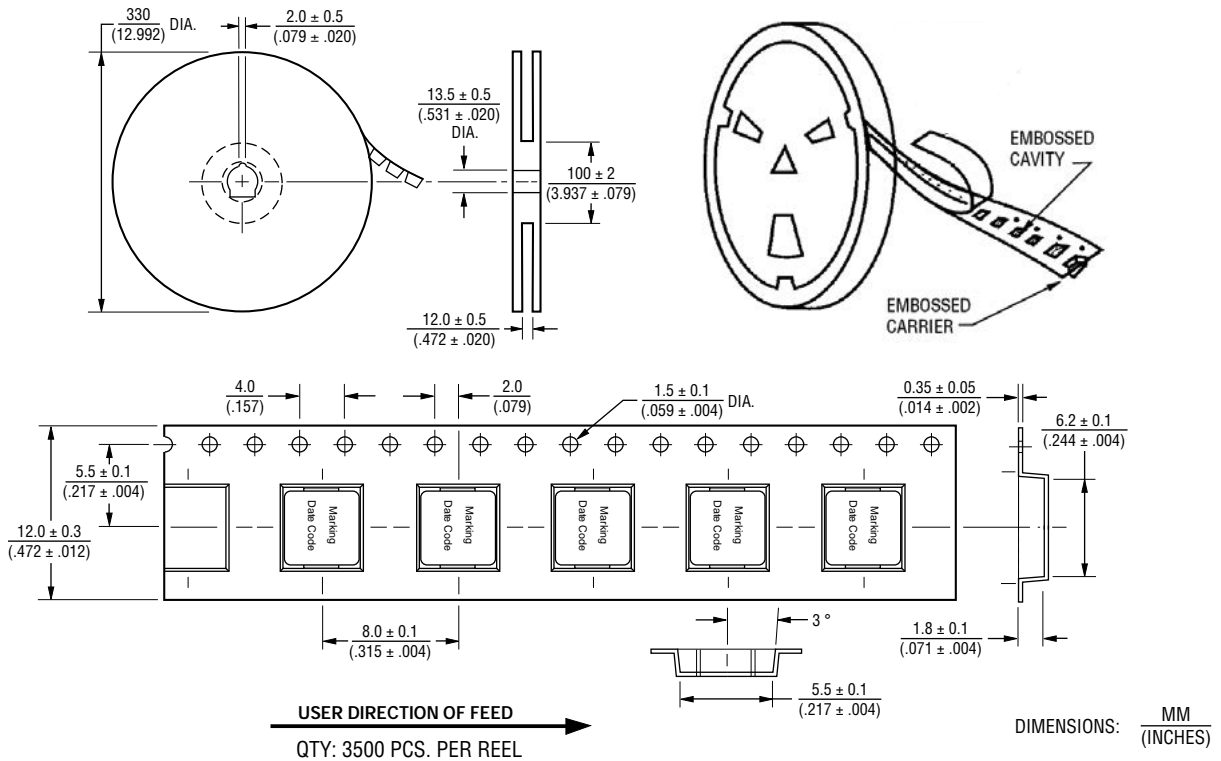
SRP5015TA Series - Shielded Power Inductors



L vs. I Charts (Continued)



Packaging Specifications



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