



Features

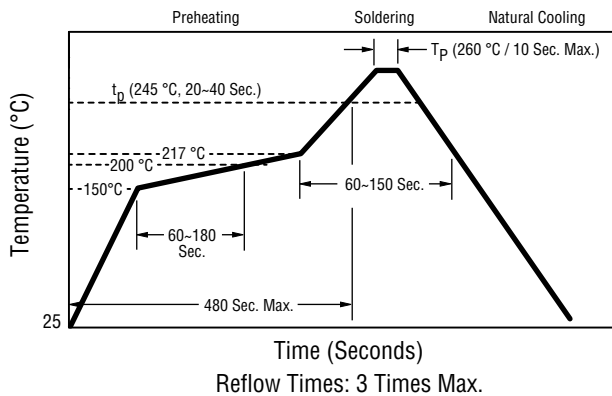
- Shielded construction
- Carbonyl powder core
- High saturation current
- Inductance range: 0.15 to 22 μ H
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

SRP5015TA Series – Shielded Power Inductors

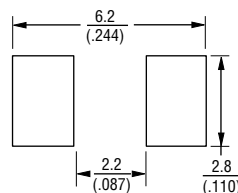
Electrical Specifications @ 25 °C

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



Recommended Layout



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

Additional Information

Click these links for more information:



General Specifications

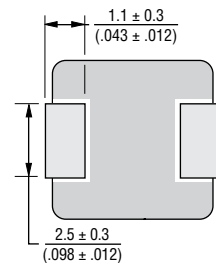
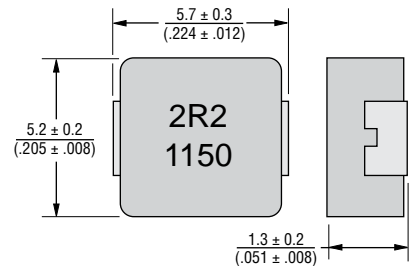
Operating Temperature -55 °C to +150 °C
(Temperature rise included)
Storage Temperature -55 °C to +150 °C
Rated Current Inductance drops 20 % at I_{sat}
Temperature Rise 40 °C at rated I_{rms}
Moisture Sensitivity Level 1
ESD Classification (HBM) N/A
Note 1: Circuit design, component, PCB trace size 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



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



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

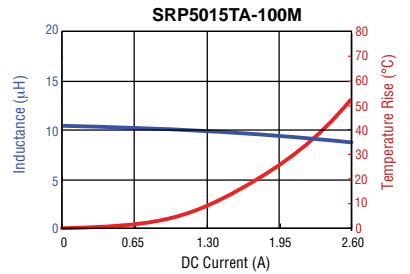
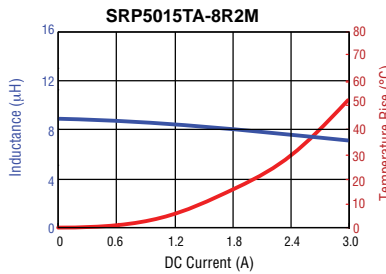
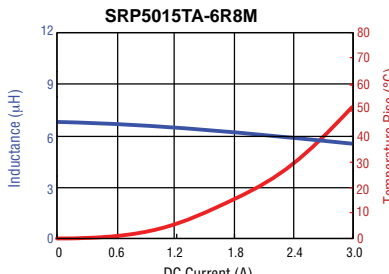
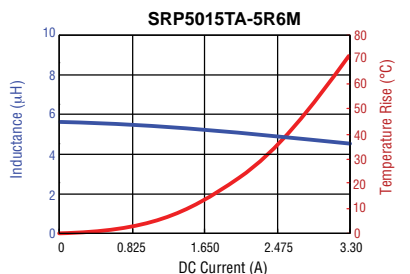
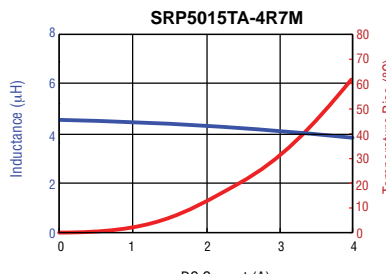
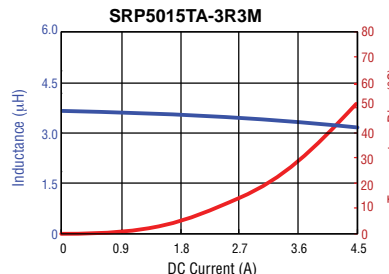
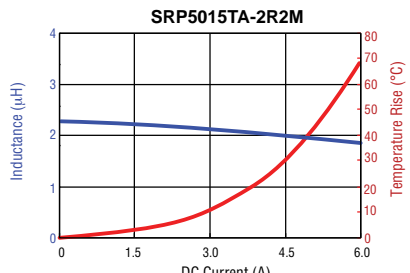
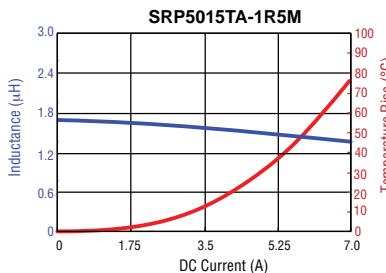
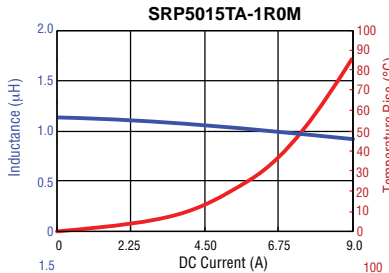
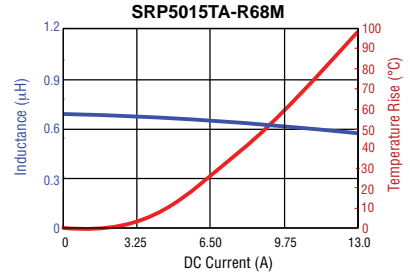
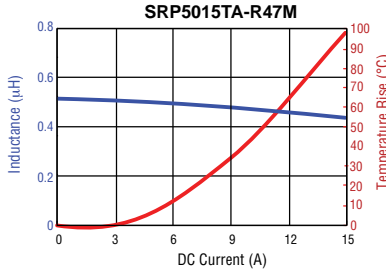
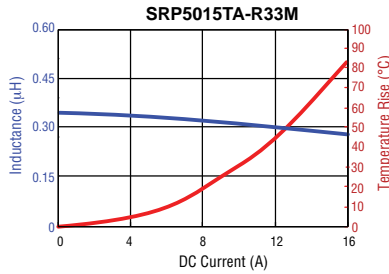
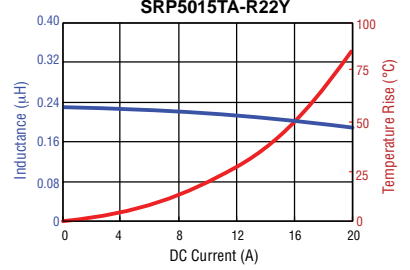
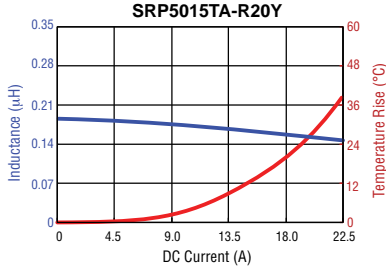
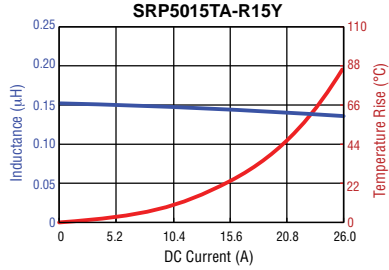
* RoHS Directive 2015/863, Mar 31, 2015 and Annex.
** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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SRP5015TA Series – Shielded Power Inductors



L vs. I Charts

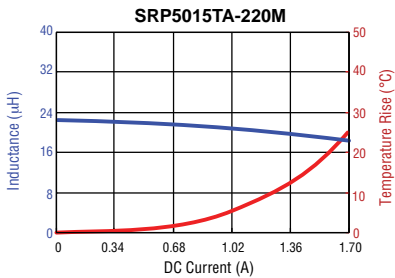


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SRP5015TA Series – Shielded Power Inductors

BOURNS®

L vs. I Charts (Continued)

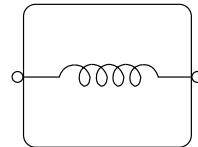


How to Order

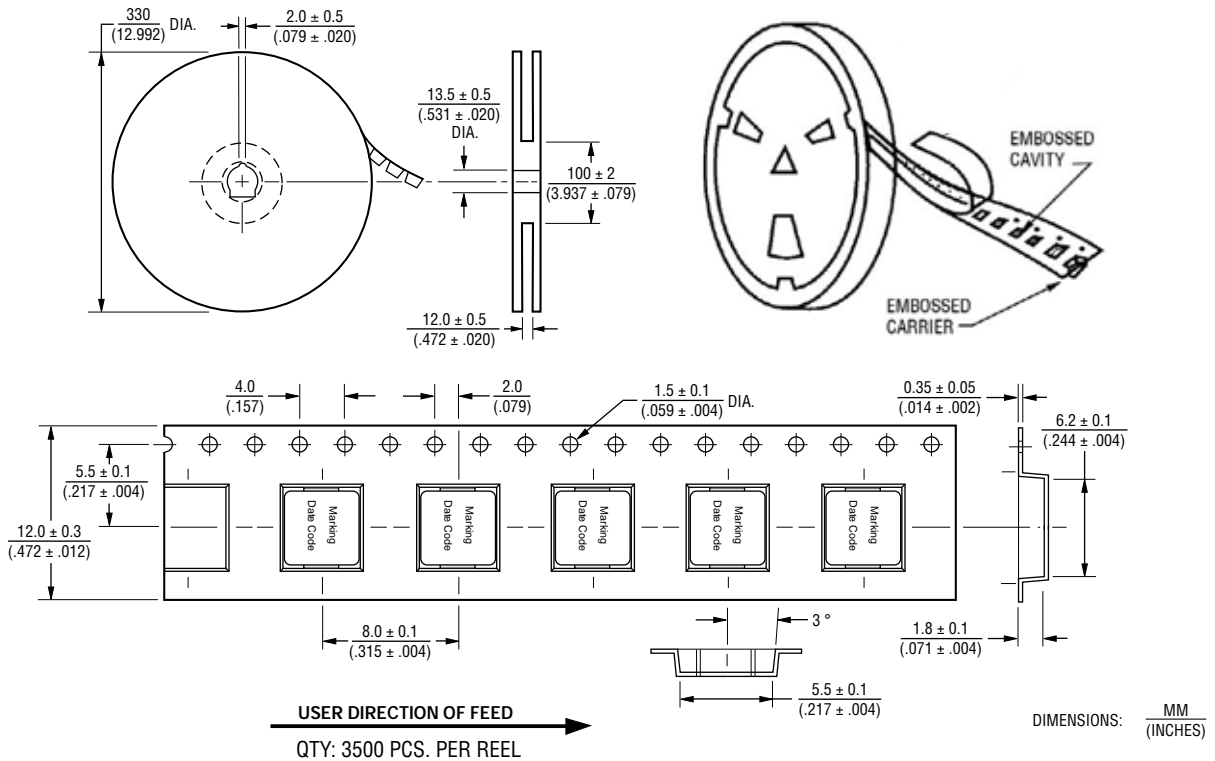
SRP5015TA - 100 M

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

Schematic



Packaging Specifications



BOURNS®

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www.bourns.com

REV. 06/24

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