



BOURNS®

Features

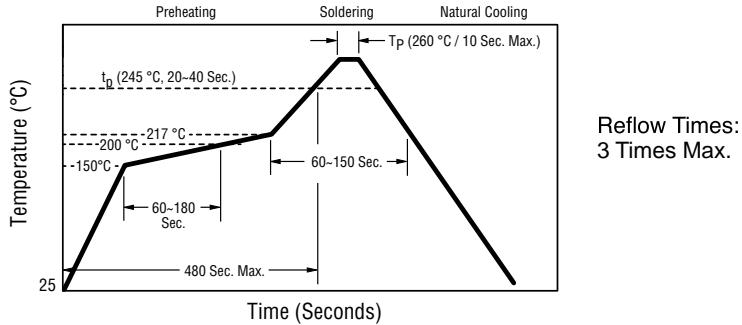
- Shielded construction
- Carbonyl powder core
- High saturation current
- Inductance range: 0.33 to 68 μ H
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRP7050TA Series - Shielded Power Inductors

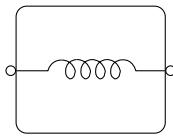
Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 KHz / 1 V		Q (Min.) @100 KHz / 1 V	SRF (MHz) Typ.	DCR (mΩ) Typ.	DCR (mΩ) Max.	Irms (A)	Isat (A)	Terminal Type
	L (μ H)	Tol. (%)							
SRP7050TA-R33M	0.33	± 20	10	100	2.5	3	25	32	Lead Frame
SRP7050TA-R40M	0.40	± 20	10	100	3.1	3.7	23	31	
SRP7050TA-R47M	0.47	± 20	10	95	3.5	3.9	22	30	
SRP7050TA-R56M	0.56	± 20	10	80	3.6	4.2	20	27	
SRP7050TA-R60M	0.60	± 20	10	80	3.8	4.3	19	25	
SRP7050TA-R68M	0.68	± 20	10	75	4	4.5	18	24	
SRP7050TA-R82M	0.82	± 20	10	70	4.6	4.9	16.5	22	
SRP7050TA-1R0M	1.0	± 20	10	50	6.1	6.5	15	20	
SRP7050TA-1R2M	1.2	± 20	15	45	6.7	7.5	14	18	
SRP7050TA-1R5M	1.5	± 20	15	43	8.6	9	12	16.5	
SRP7050TA-1R8M	1.8	± 20	15	38	9.5	11	12	15	
SRP7050TA-2R2M	2.2	± 20	15	30	11.2	12	10	14	
SRP7050TA-3R3M	3.3	± 20	15	26	19	20.9	8	12	
SRP7050TA-4R7M	4.7	± 20	15	22	28	30.8	6.5	10	
SRP7050TA-5R6M	5.6	± 20	15	20	43.5	49	6	9	
SRP7050TA-6R8M	6.8	± 20	15	18	46	51.5	5.5	8.5	
SRP7050TA-8R2M	8.2	± 20	15	16	56	63	5	8	
SRP7050TA-100M	10	± 20	15	15	60	69	4	7.5	
SRP7050TA-150M	15	± 20	15	12	81	92	3.5	6	
SRP7050TA-220M	22	± 20	15	9	140	170	2.5	5.5	
SRP7050TA-330M	33	± 20	15	8	173	200	2	3.5	
SRP7050TA-470M	47	± 20	15	8	290	330	1.9	2.7	
SRP7050TA-560M	56	± 20	15	7	342	396	1.6	2.1	
SRP7050TA-680M	68	± 20	15	6	386	445	1.2	2	

Soldering Profile



Schematic



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.

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.

How to Order

SRP7050TA - 100 M

Model _____

Value Code (see table) _____

Tolerance Code _____

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 Isat

Temperature Rise

40 °C at rated Irms

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..... Enamelled copper

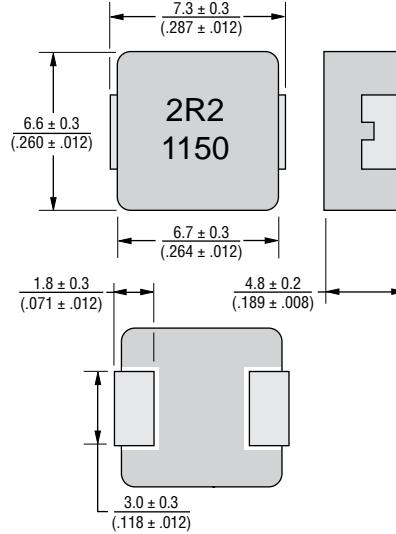
Terminal Finish

Sn

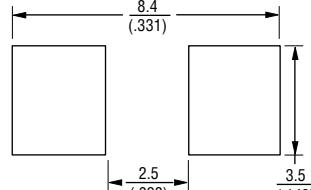
Packaging..... 800 pcs. per 13-inch reel

Product Dimensions

Lead Frame Terminal



Recommended Layout

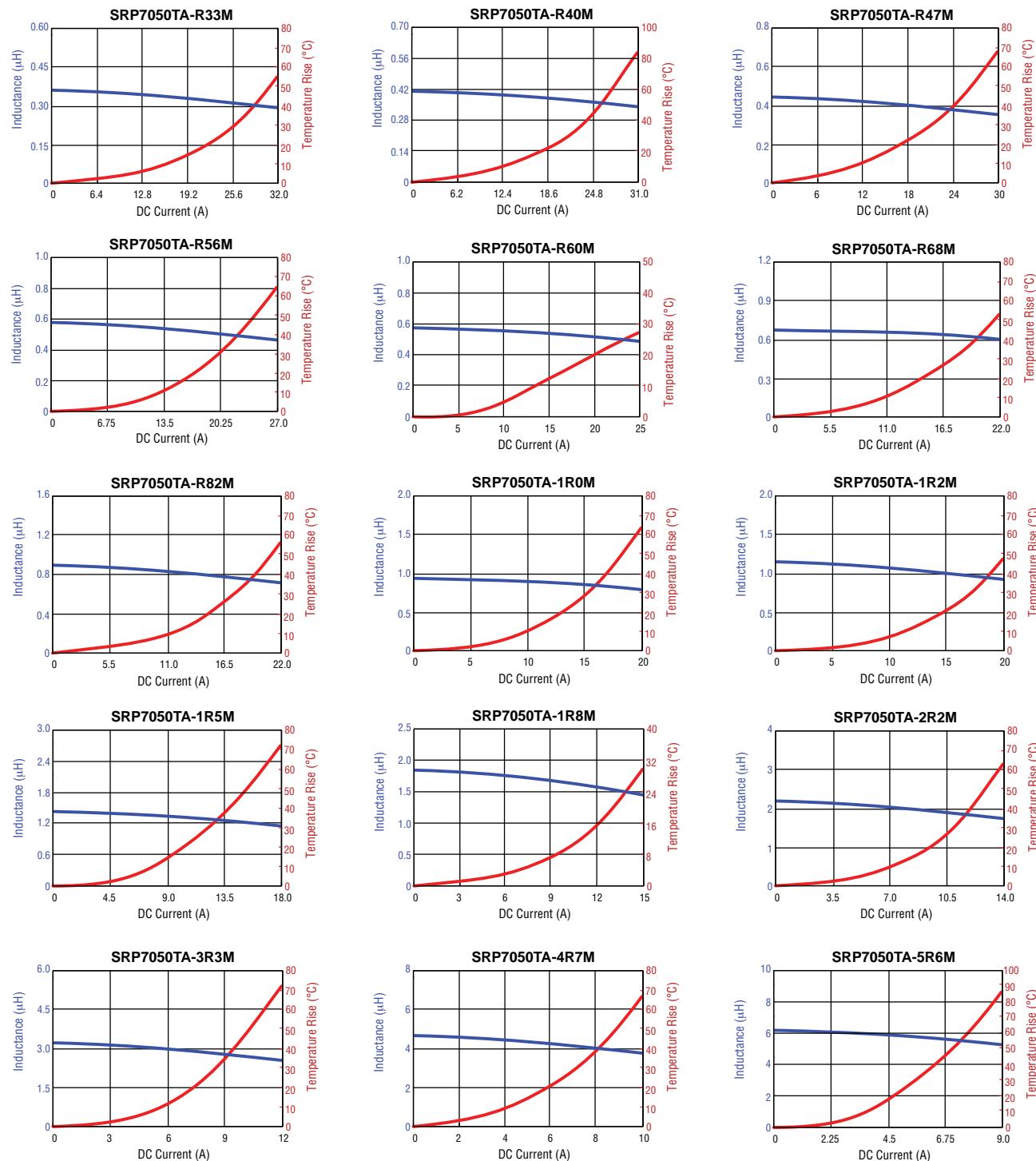


DIMENSIONS: MM
(INCHES)

SRP7050TA Series - Shielded Power Inductors

BOURNS®

L vs. I Charts



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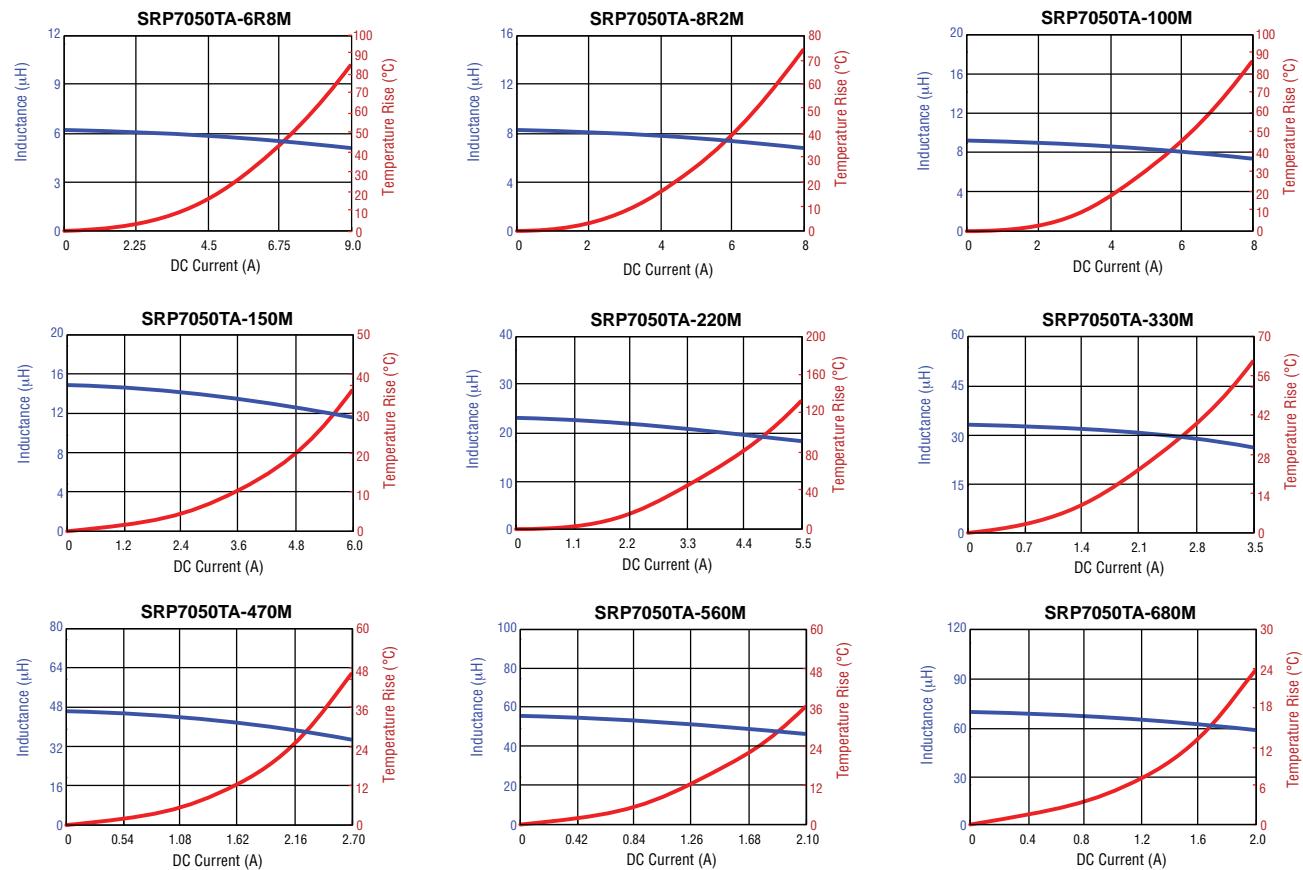
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BOURNS®

L vs. I Charts (Continued)



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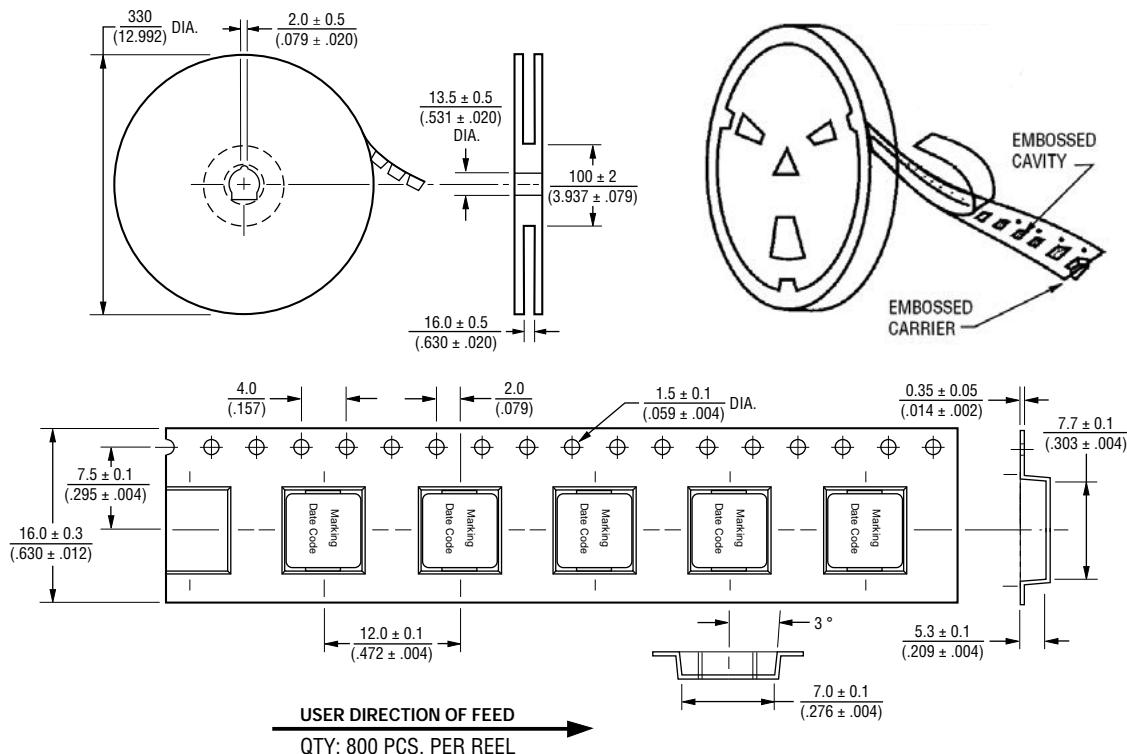
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SRP7050TA Series - Shielded Power Inductors

BOURNS®

Packaging Specifications



BOURNS®

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www.bourns.com

REV. 11/19

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