



Features

- Shielded construction
- Carbonyl powder core
- High saturation current
- Inductance range: 0.1 to 10 μ H
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

SRP5030TA 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.	Irms (A)	Isat (A)	Terminal Type
	L (μ H)	Tol. (%)							
SRP5030TA-R10Y	0.1	± 30	5	320	2.5	3	23	27	Lead Frame
SRP5030TA-R22M	0.22	± 20	5	155	3.7	4.4	15.5	21	
SRP5030TA-R33M	0.33	± 20	5	110	4.3	5	14	18	
SRP5030TA-R47M	0.47	± 20	10	100	6.4	7.4	12	16	
SRP5030TA-R68M	0.68	± 20	10	85	10	12	8.5	14	
SRP5030TA-1R0M	1.0	± 20	10	62	13	14	7	11	
SRP5030TA-1R2M	1.2	± 20	10	50	14	16	6.5	11	
SRP5030TA-1R5M	1.5	± 20	10	44	16	25	6	10	
SRP5030TA-2R2M	2.2	± 20	15	36	25	35	5.5	9	
SRP5030TA-3R3M	3.3	± 20	15	30	32	38	5	8	
SRP5030TA-3R6M	3.6	± 20	15	29	46	54	4.9	7	
SRP5030TA-4R7M	4.7	± 20	15	23	50	53	4.6	6	
SRP5030TA-5R6M	5.6	± 20	15	21	55	63	4.25	4.5	
SRP5030TA-6R8M	6.8	± 20	15	19	68	76.2	4	4.3	
SRP5030TA-100M	10	± 20	20	18	110	128	2.75	3.5	

General Specifications

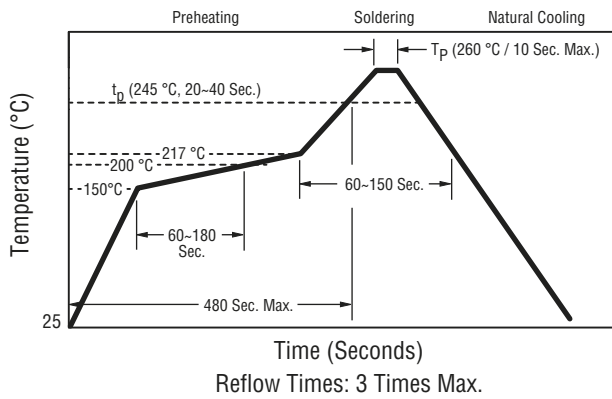
Operating Temperature-40 °C to +150 °C
 (Temperature rise included)
 Storage Temperature-40 °C to +125 °C
 Rated Current Inductance drops 20 % at Isat
 Temperature Rise40 °C at rated Irms
 Moisture Sensitivity Level..... 1
 ESD Classification (HBM)..... N/A

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

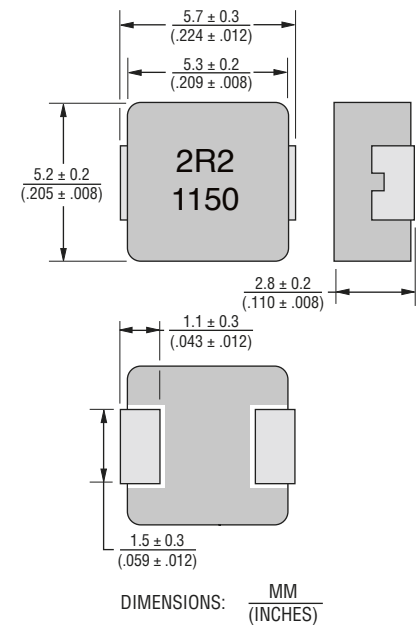
Core..... Carbonyl powder
 Wire Enameled copper
 Terminal Finish Sn
 Packaging..... 2000 pcs. per 13-inch reel

Soldering Profile



Product Dimensions

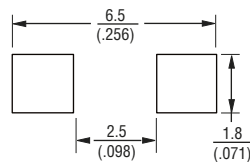
Lead Frame Terminal



How to Order

SRP5030TA - 100 M
 Model _____
 Value Code (see table) _____
 Tolerance Code _____

Recommended Layout



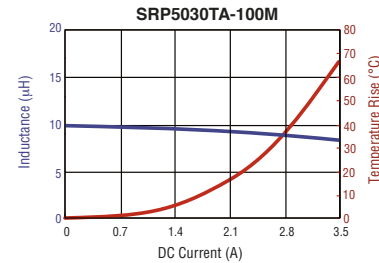
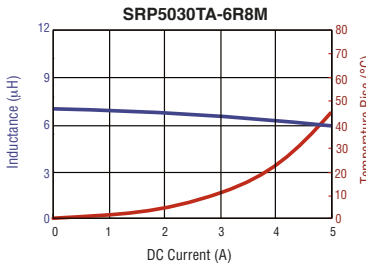
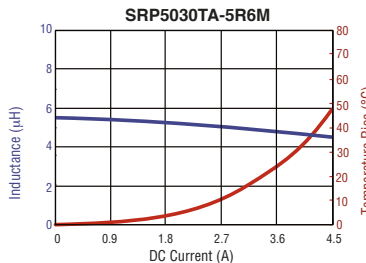
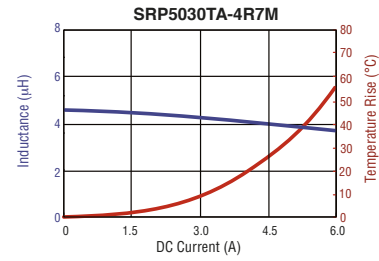
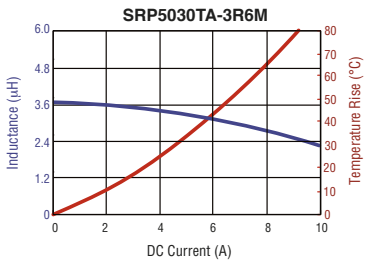
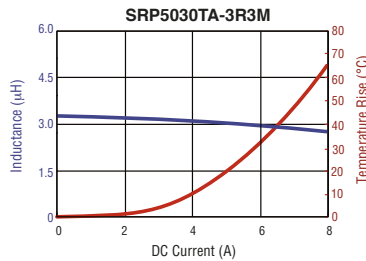
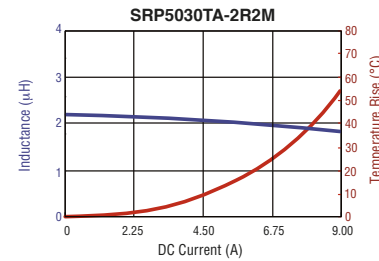
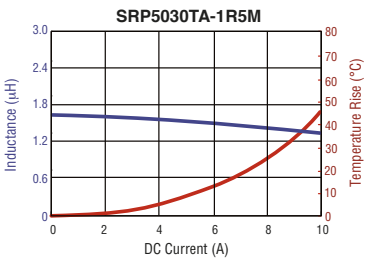
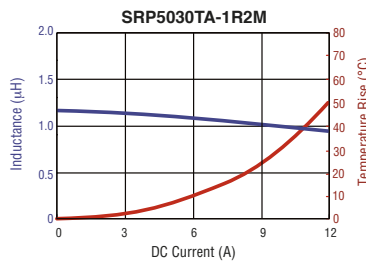
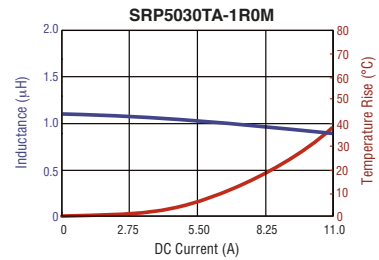
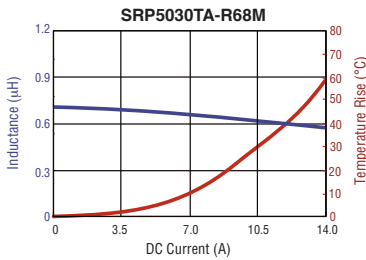
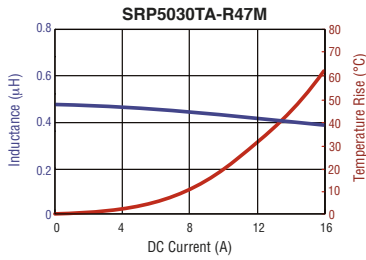
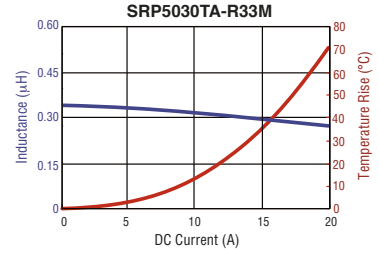
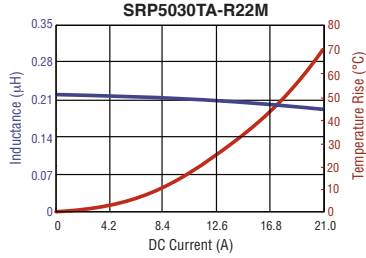
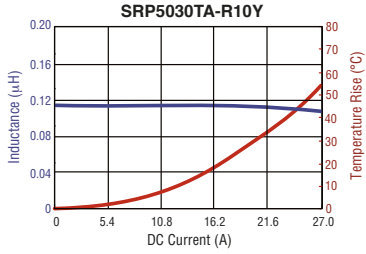
WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

* 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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SRP5030TA Series - Shielded Power Inductors

BOURNS®

L vs. I Charts



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