



Features

- Shielded construction
- Carbonyl powder core
- High saturation current
- Inductance range: 0.1 to 22 μ H
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRP4020TA Series - Shielded Power Inductors

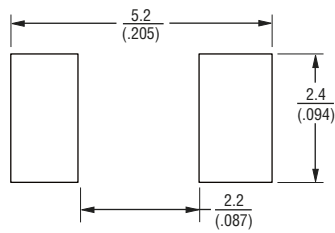
Electrical Specifications @ 25 °C

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. (%)							
SRP4020TA-R10Y	0.10	±30	5	300	3.2	4	12	35	Lead Frame
SRP4020TA-R22Y	0.22	±30	10	270	6.6	7.3	11	24	
SRP4020TA-R33M	0.33	±20	10	130	7.8	8.6	10	18	
SRP4020TA-R47M	0.47	±20	10	120	11.2	14	8.0	12	
SRP4020TA-R56M	0.56	±20	10	105	13.5	16	7.3	10	
SRP4020TA-R68M	0.68	±20	10	100	16	19	7.0	10	
SRP4020TA-1R0M	1.0	±20	10	65	22	27	5.0	8.5	
SRP4020TA-1R2M	1.2	±20	10	64	25	30	4.8	7.8	
SRP4020TA-1R5M	1.5	±20	10	62	34.8	42	4.5	7.0	
SRP4020TA-2R2M	2.2	±20	10	45	51	61	4.0	6.0	
SRP4020TA-3R3M	3.3	±20	10	40	69	76	3.5	4.0	
SRP4020TA-4R7M	4.7	±20	10	27	95	105	2.6	3.5	
SRP4020TA-5R6M	5.6	±20	10	25	112	125	2.2	3.0	
SRP4020TA-6R8M	6.8	±20	10	24	150	172	2.1	2.8	
SRP4020TA-8R2M	8.2	±20	10	21	158	180	2.0	2.5	
SRP4020TA-100M	10.0	±20	10	19	215	243	1.8	2.3	
SRP4020TA-150M	15.0	±20	10	17	325	374	1.5	1.9	
SRP4020TA-220M	22.0	±20	10	12	470	500	1.2	1.4	

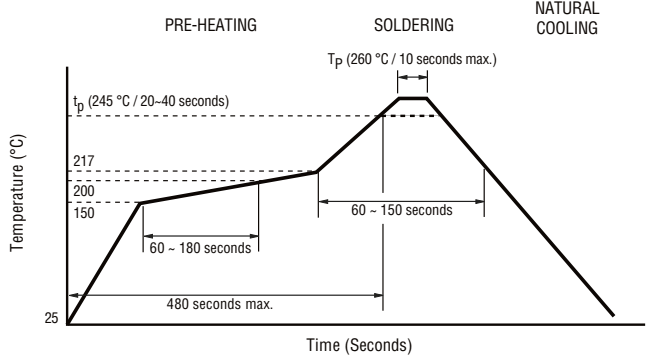
How to Order

Model SRP4020TA - 100M
 Value Code (see table) _____

Recommended Layout



Soldering Profile



REFLOW TIMES: 3 MAX.

General Specifications

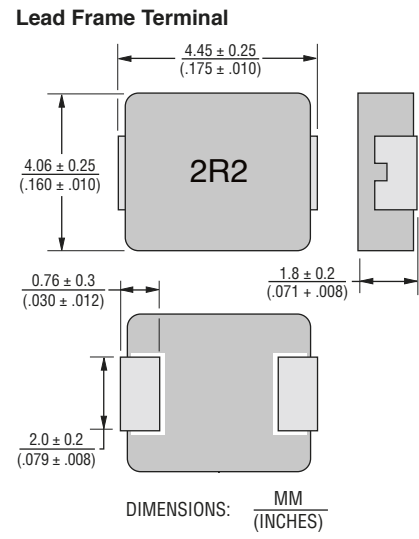
Test Voltage 1.0 V
 Test Frequency 100 KHz
 Operating Temperature -40 °C to +150 °C (Temperature rise included)
 Storage Temperature -40 °C to +125 °C
 Rated Current Inductance drops 20 % at I_{sat}
 Temperature Rise 40 °C at rated I_{rms}
 Resistance to Soldering Heat +260 °C, 40 sec. max.
 Moisture 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.

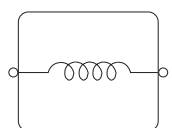
Materials

Core Carbonyl powder
 Wire Enameled copper
 Terminal Finish Sn
 Packaging 3000 pcs. per 13-inch reel

Product Dimensions



Electrical Schematic



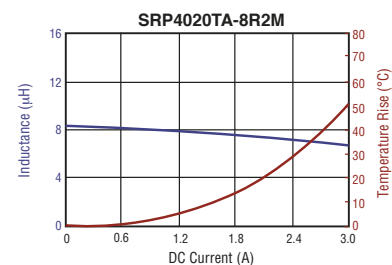
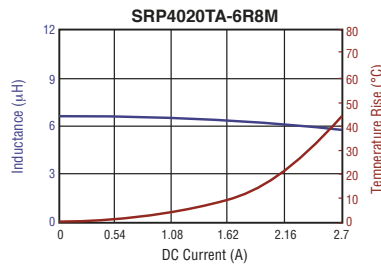
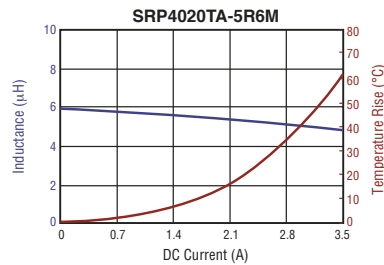
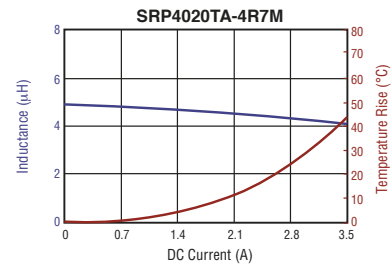
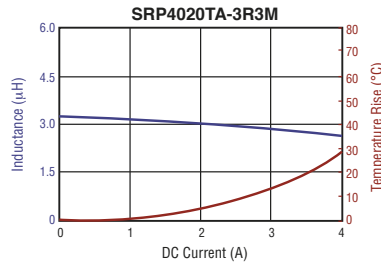
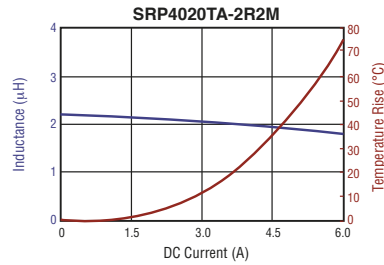
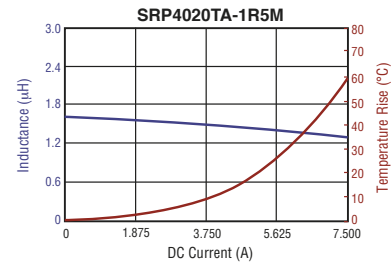
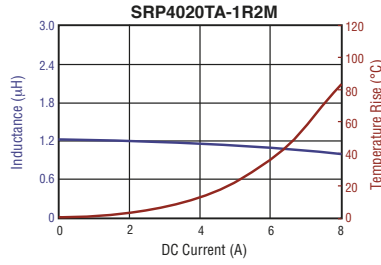
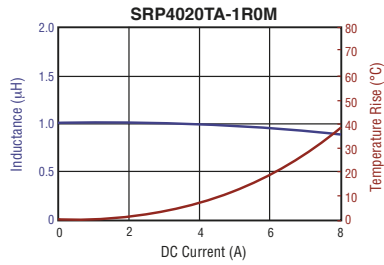
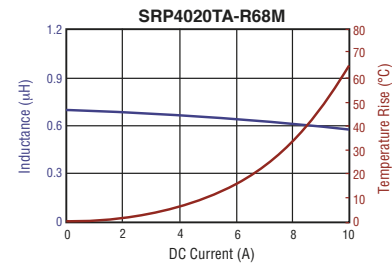
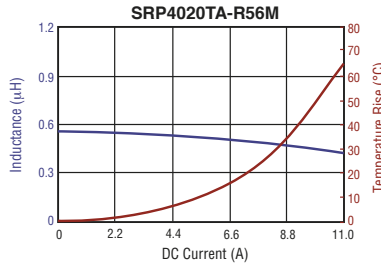
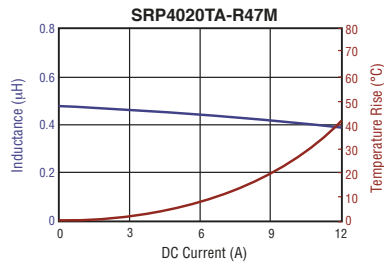
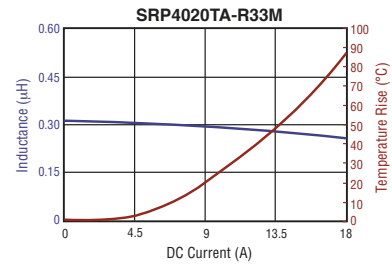
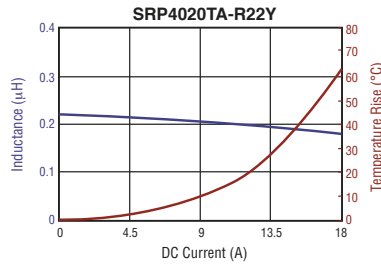
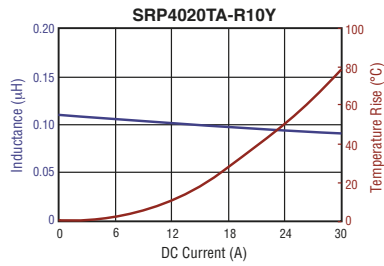
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

* 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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SRP4020TA Series - Shielded Power Inductors



L vs. I Charts

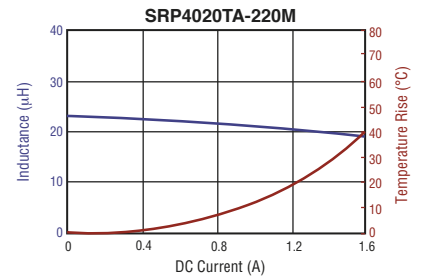
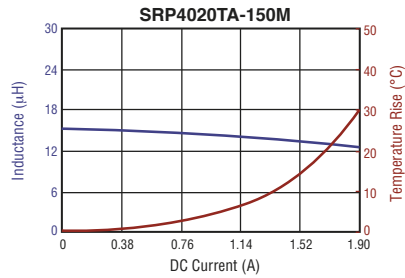
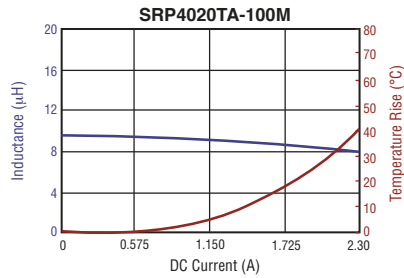


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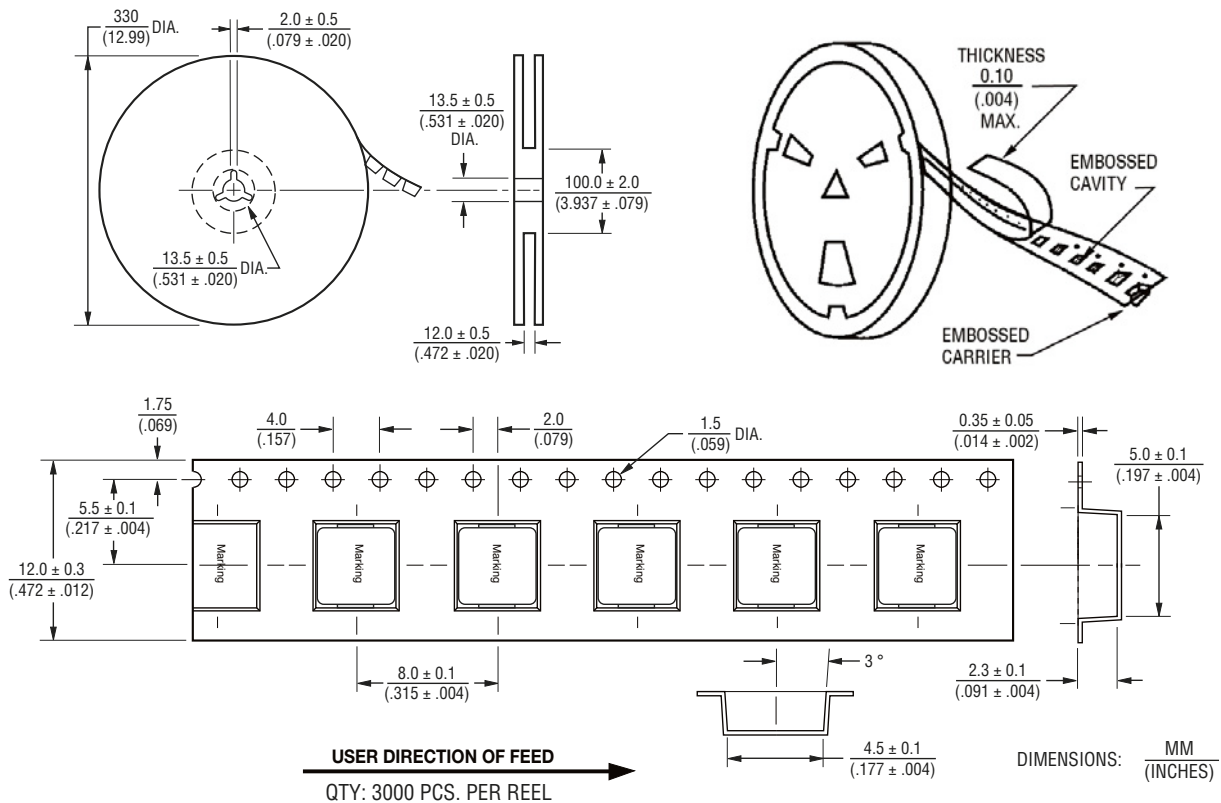
SRP4020TA Series - Shielded Power Inductors

BOURNS®

L vs. I Charts



Packaging Specifications



BOURNS®

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