Features

- Shielded construction
- Carbonyl powder core
- High saturation current
- Inductance range: 1 to 100 µH
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRP1770TA Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 KHz / 1 V L (µH)	Tol. (%)	Q (Min.) @100 KHz / 1 V	SRF (MHz) Typ.	DCR (mΩ) Typ.	DCR (mΩ) Max.	Irms (A)	Isat1 (A)	Isat2 (A)	Terminal Type
SRP1770TA-1R0M	1	± 20	20	35	1.6	2	52	60	70	Lead Frame
SRP1770TA-1R5M	1.5	± 20	20	30	2	2.5	47	52	65	
SRP1770TA-2R2M	2.2	± 20	20	22	2.4	2.7	43.5	47	62	
SRP1770TA-3R3M	3.3	± 20	20	17	3.5	3.9	28	45	54	
SRP1770TA-4R7M	4.7	± 20	20	15	4.8	5.5	25	41	50	
SRP1770TA-5R6M	5.6	± 20	20	12	5.8	7.05	21	40	45	
SRP1770TA-6R8M	6.8	± 20	20	11	8.4	9.2	19	32	39	
SRP1770TA-8R2M	8.2	± 20	20	10	9.6	10.8	18	25	31	
SRP1770TA-100M	10	± 20	20	8	11.8	13	16.5	24	29	
SRP1770TA-150M	15	± 20	20	7	17.8	20.5	12.5	23	27	
SRP1770TA-220M	22	± 20	20	5	25.1	26.5	12	18	23	
SRP1770TA-330M	33	± 20	20	4	38	44	10.7	15	20	
SRP1770TA-390M	39	± 20	20	4	40	48	9.2	11	18	
SRP1770TA-470M	47	± 20	20	3	48	55	8.7	9.5	16	
SRP1770TA-560M	56	± 20	20	3	54	62	7.8	9	15	
SRP1770TA-680M	68	± 20	20	2	68	80	7	8	13	
SRP1770TA-101M	100	± 20	20	2	102	118	5.3	6.5	12	

General Specifications

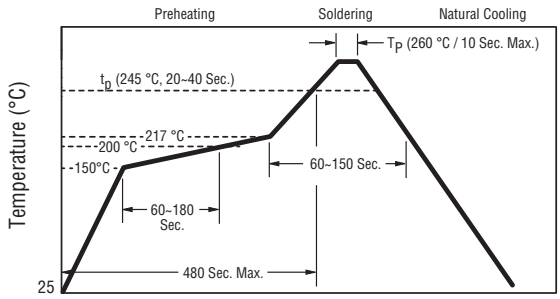
Operating Temperature
.....-40 °C to +150 °C
(Temperature rise included)
Storage Temperature
.....-40 °C to +125 °C
Rated Current
..... Inductance drops 20 % at Isat1, 30 % at Isat2
Temperature Rise .....40 °C at rated Irms
Moisture Sensitivity Level.....1
ESD Classification (HBM).....N/A

[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..... 200 pcs. per 13-inch reel

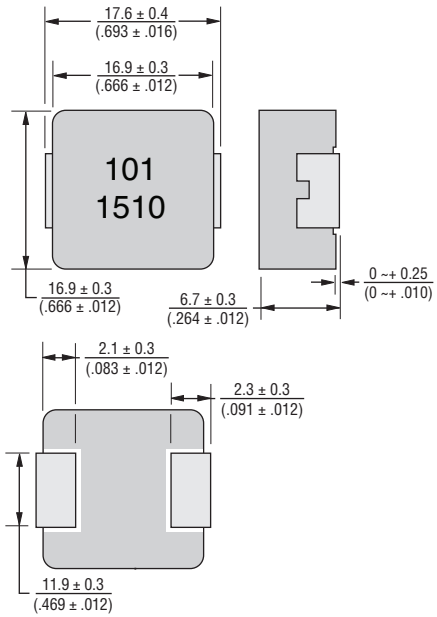
Soldering Profile



Reflow Times: 3 Times Max.

Product Dimensions

Lead Frame Terminal



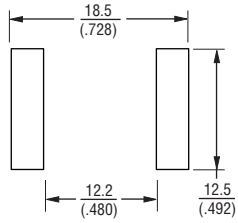
DIMENSIONS: MM / (INCHES)

How to Order

SRP1770TA - 220 M

Model
Value Code (see table)
Tolerance Code

Recommended Layout



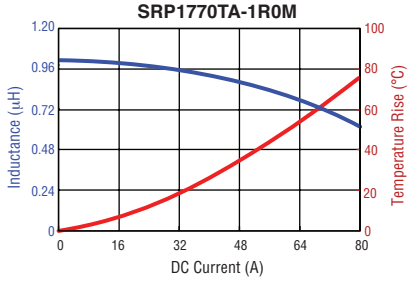
WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

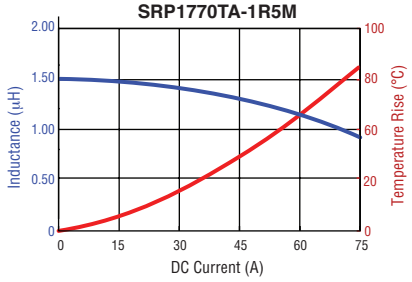
**Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

L vs. I Charts

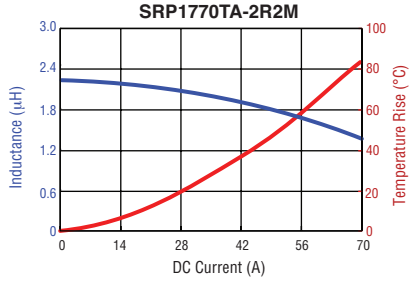
SRP1770TA-1R0M



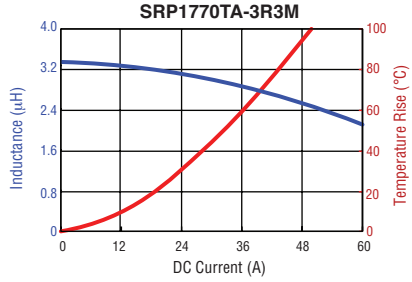
SRP1770TA-1R5M



SRP1770TA-2R2M



SRP1770TA-3R3M



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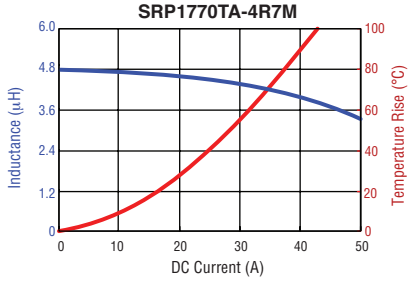

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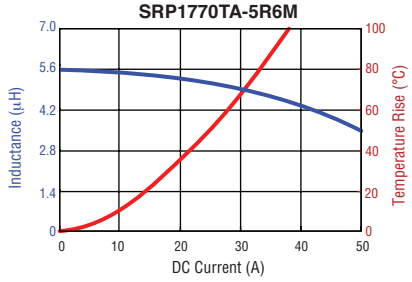

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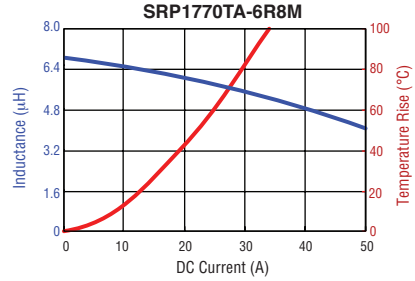

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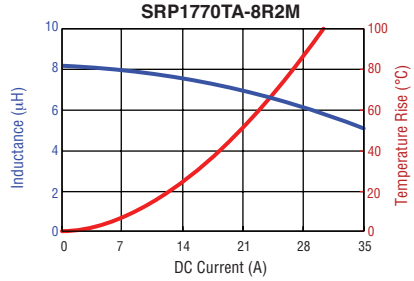
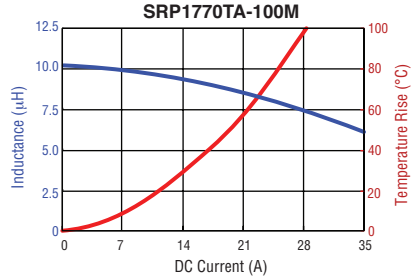


SRP1770TA-100M



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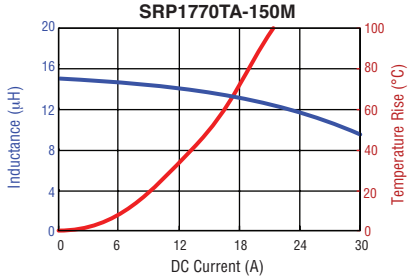

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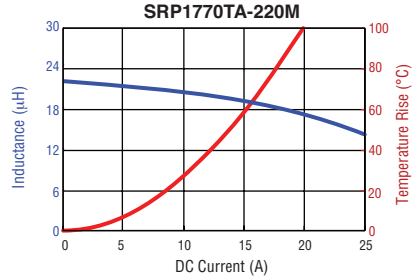
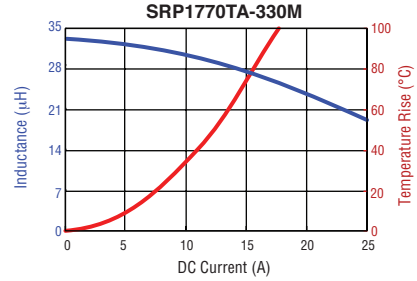


SRP1770TA-330M



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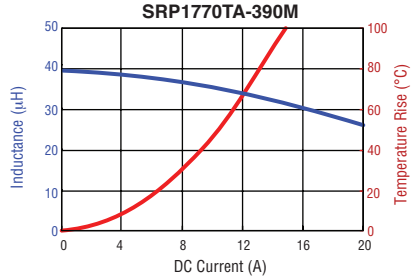

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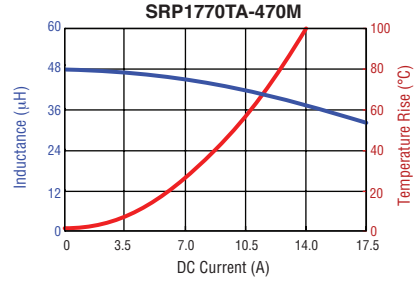

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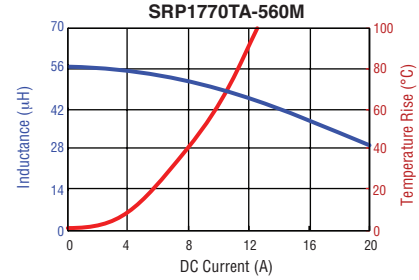
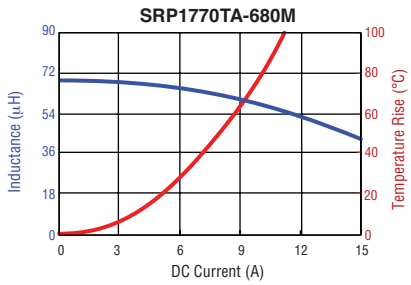
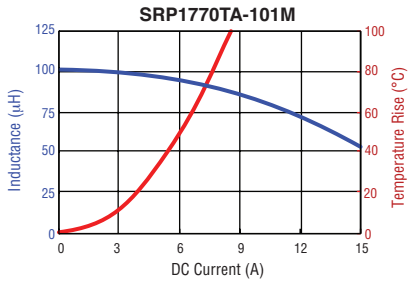
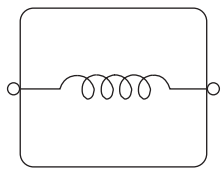


L vs. I Charts (Continued)

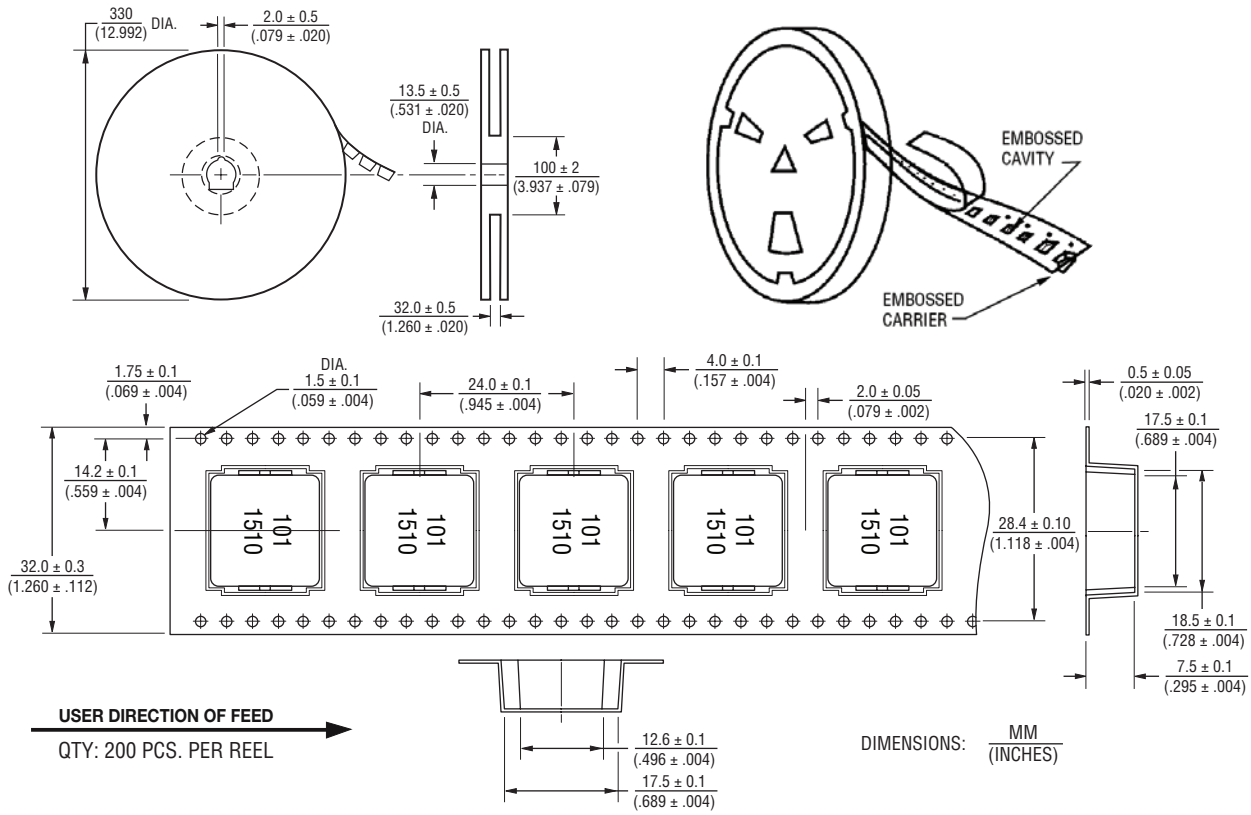




Schematic



Packaging Specifications



REV. 02/19

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- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
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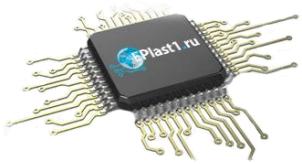
- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)
Факс: 8 (812) 320-02-42
Электронная почта: org@eplast1.ru
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.