Features

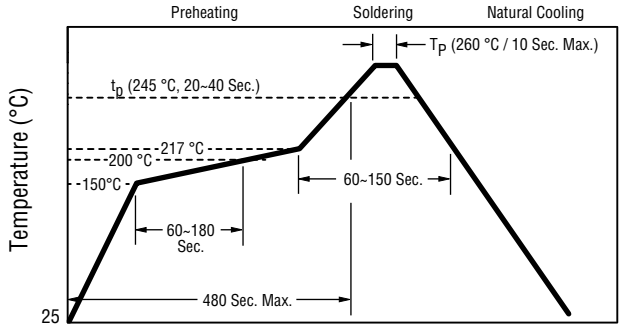
- Shielded construction
- Metal alloy powder core
- High saturation current
- Low buzz noise
- Inductance range: 0.47 to 47 µH
- RoHS compliant* and halogen free**

SRP1770C 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) Typ.	Isat (A) Typ.	Terminal Type
SRP1770C-R47M	0.47	± 20	10	28	0.75	0.83	60.0	115	Lead Frame
SRP1770C-1R0M	1.0	± 20	20	24	1.30	1.50	48.0	68	
SRP1770C-1R5M	1.5	± 20	20	22	1.80	2.10	42.0	55	
SRP1770C-2R2M	2.2	± 20	20	21	2.50	2.80	40.0	45	
SRP1770C-3R3M	3.3	± 20	20	19	3.50	3.90	28.0	40	
SRP1770C-4R7M	4.7	± 20	20	17	4.80	5.50	26.0	37	
SRP1770C-5R6M	5.6	± 20	20	15	5.90	6.80	24.0	35	
SRP1770C-6R8M	6.8	± 20	20	14	8.40	9.20	22.0	30	
SRP1770C-8R2M	8.2	± 20	20	13	9.60	10.80	18.0	28	
SRP1770C-100M	10.0	± 20	20	12	11.60	13.00	17.0	25	
SRP1770C-150M	15.0	± 20	20	10	16.50	19.50	14.0	23	
SRP1770C-220M	22.0	± 20	20	8	24.00	27.60	12.0	19	
SRP1770C-330M	33.0	± 20	20	6	36.00	42.00	10.7	15	
SRP1770C-470M	47.0	± 20	20	7	46.00	53.00	8.7	13	

Soldering Profile



Reflow Times: 3 Times Max.

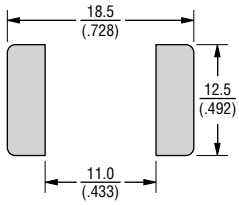
How to Order

SRP1770C - 220M

Model

Value Code (see table)

Recommended Layout



DIMENSIONS: MM / (INCHES)

General Specifications

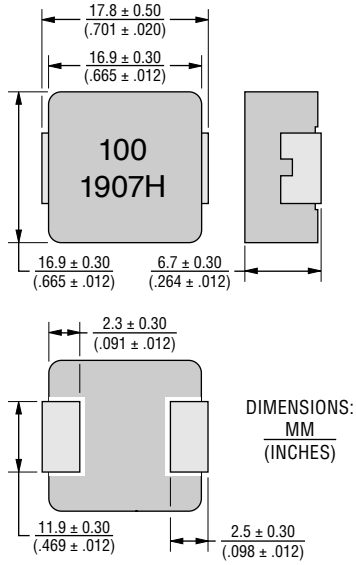
Operating Temperature
.....-40 °C to +125 °C
(Temperature rise included)
Storage Temperature (Component)
.....-40 °C to +125 °C
Rated Current
..... Inductance drops 30 % at Isat
Temperature Rise .....40 °C at rated Irms
Moisture Sensitivity Level.....1
ESD Classification (HBM).....N/A

[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.

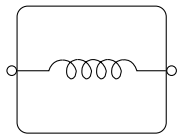
Materials

Core.....Metal alloy powder
Wire .....Enameled copper
Terminal Finish ..... Sn/Ni
Packaging..... 200 pcs. per 13-inch reel

Product Dimensions



Schematic

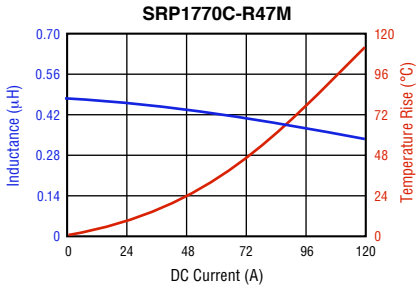


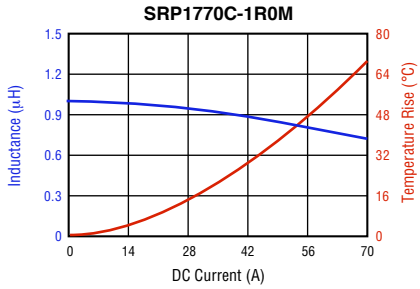
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

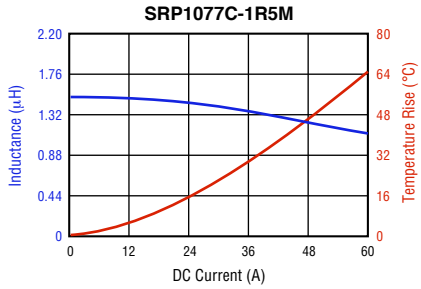
* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

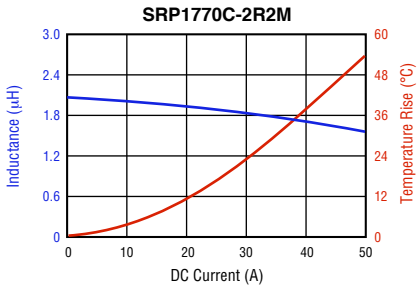
** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

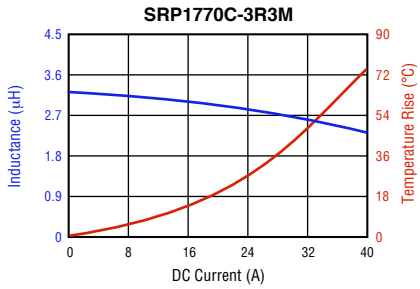
L vs. I Charts

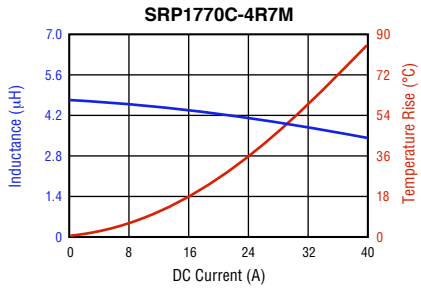


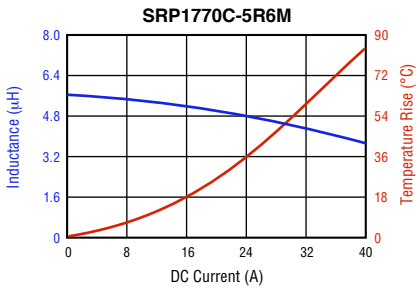


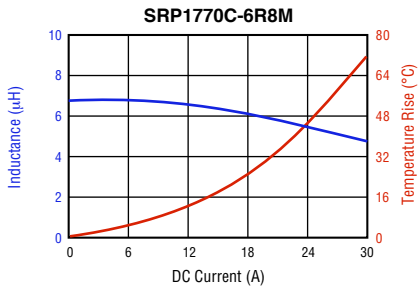


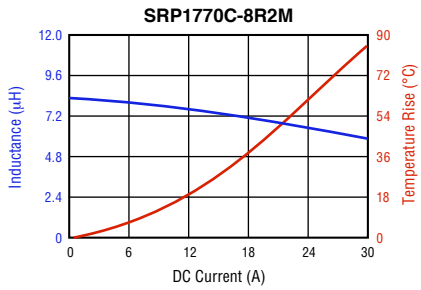


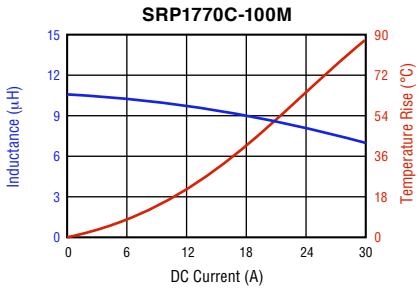


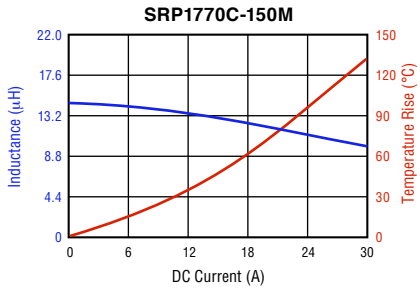


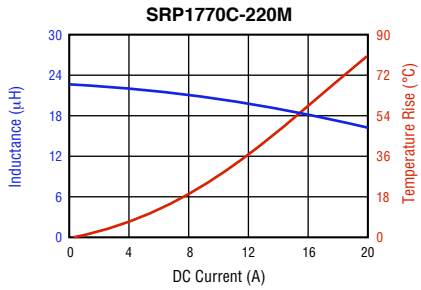




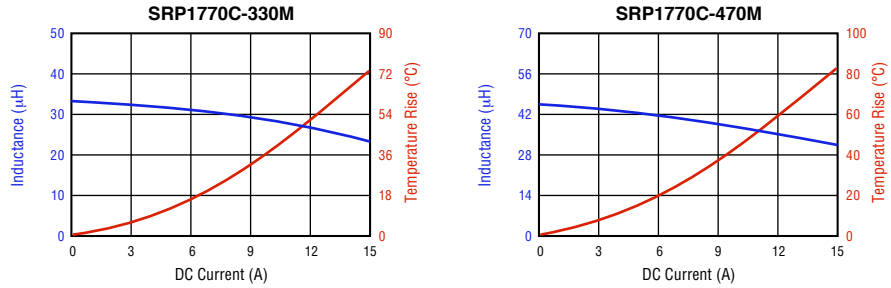




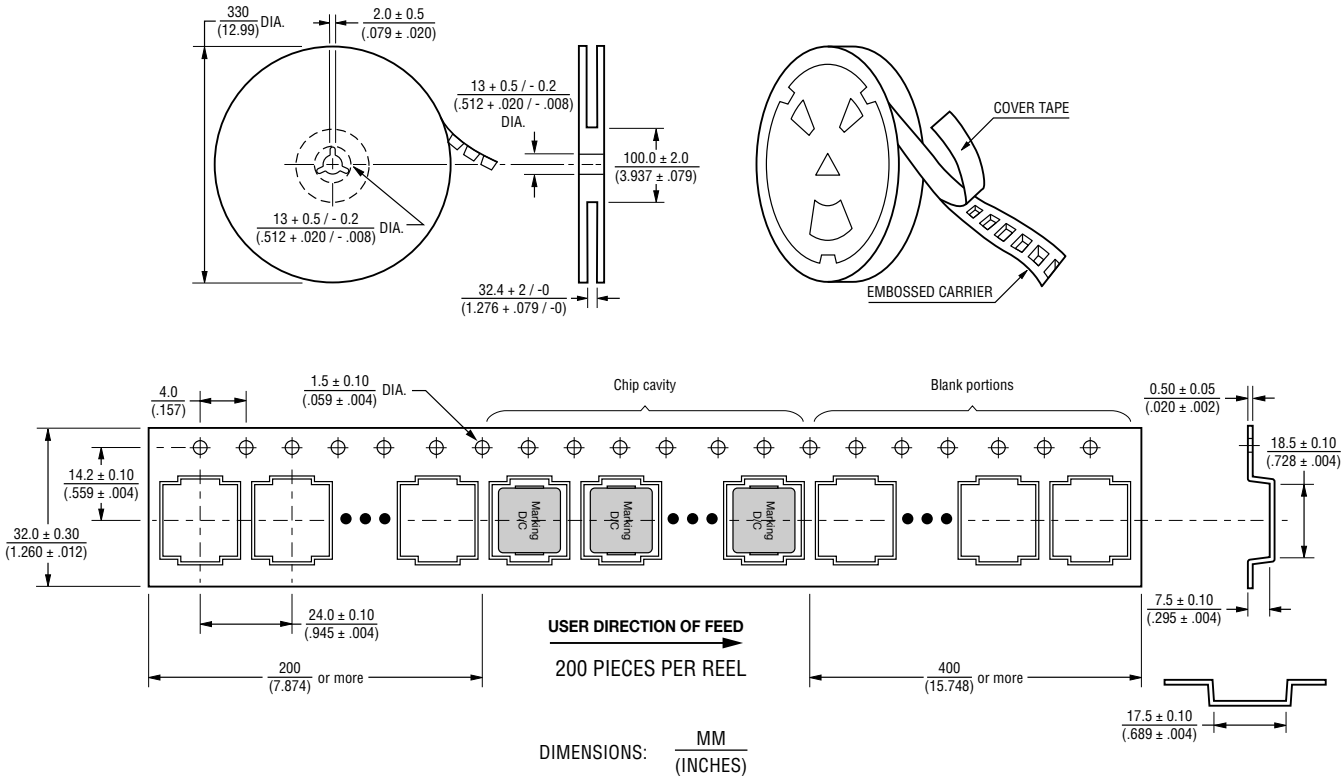




L vs. I Charts (Continued)



Packaging Specifications



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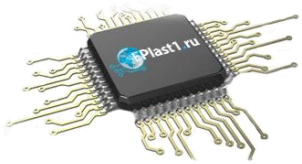
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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