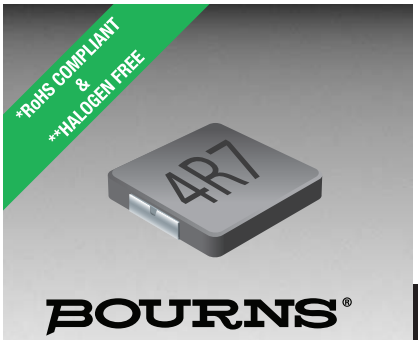


Features

- Shielded construction
- Carbonyl powder core
- High saturation current
- Low profile - 1.0 mm
- Inductance range: 0.10 to 10 µH
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

SRP4012TA 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)	Isat (A)	Terminal Type
SRP4012TA-R10Y	0.10	±30	5	400	4.3	5.5	11.5	25	Lead Frame
SRP4012TA-R22M	0.22	±20	5	200	6.6	8	8.5	20	
SRP4012TA-R36M	0.36	±20	10	143	15.5	18	6.5	8.5	
SRP4012TA-R47M	0.47	±20	10	120	18	20	6.0	6.5	
SRP4012TA-R60M	0.60	±20	10	117	22.5	26	5.3	6	
SRP4012TA-1R0M	1.0	±20	10	80	41	47	4.0	6	
SRP4012TA-1R2M	1.2	±20	10	70	48	56	3.5	5	
SRP4012TA-1R5M	1.5	±20	10	62	55	63.3	3.0	4	
SRP4012TA-2R2M	2.2	±20	10	58	69.2	80	2.8	3.5	
SRP4012TA-3R3M	3.3	±20	10	41	84	97	2.3	3	
SRP4012TA-4R7M	4.7	±20	10	35	128	145	2.0	2.5	
SRP4012TA-5R6M	5.6	±20	10	30	180	208	1.7	2.3	
SRP4012TA-6R8M	6.8	±20	10	28	300	360	1.5	1.7	
SRP4012TA-8R2M	8.2	±20	10	25	313	376	1.4	1.6	
SRP4012TA-100M	10.0	±20	10	23	410	463	1.3	1.4	

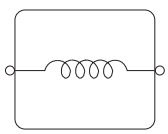
How to Order

SRP4012TA - 100M

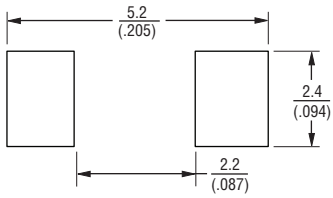
Model

Value Code (see table)

Electrical Schematic



Recommended Layout



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 Isat
Temperature Rise .....40 °C at rated Irms
Moisture Sensitivity Level.....1
ESD Classification (HBM).....N/A

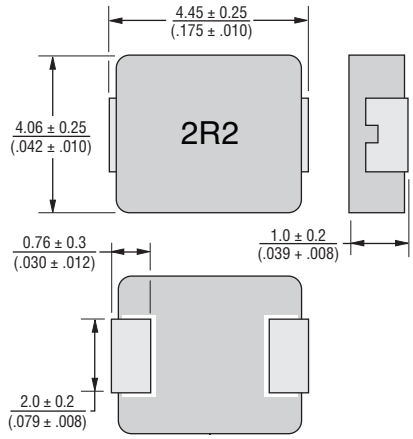
[1] Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Materials

Core.....Carbonyl powder
Wire .....Enameled copper
Terminal Finish .....Sn
Packaging..... 4000 pcs. per 13-inch reel

Product Dimensions

Lead Frame Terminal



DIMENSIONS: MM (INCHES)

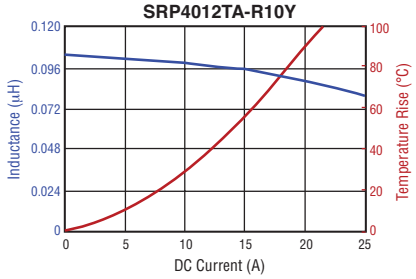
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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

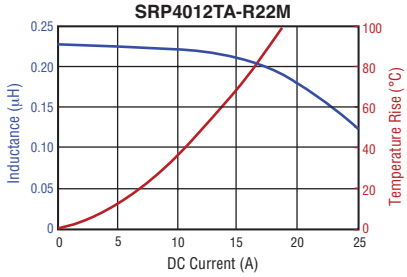
**Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

L vs. I Charts

SRP4012TA-R10Y



SRP4012TA-R22M



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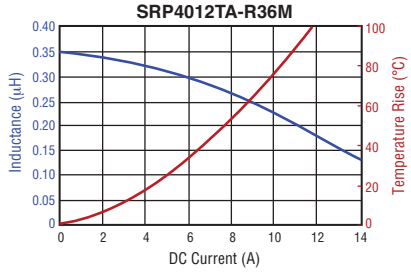

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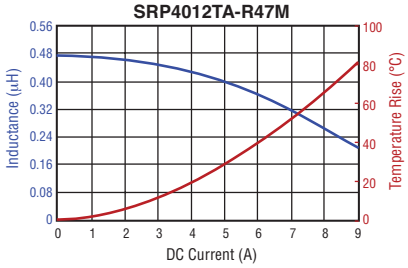
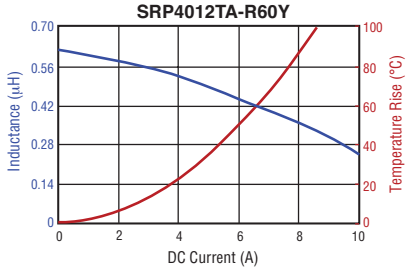
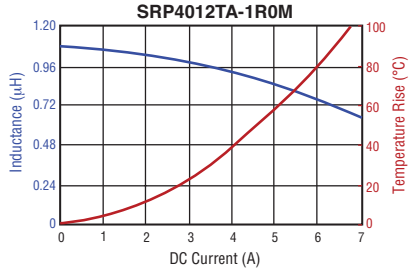


SRP4012TA-R60Y



SRP4012TA-1R0M



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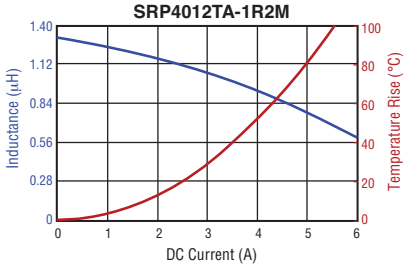
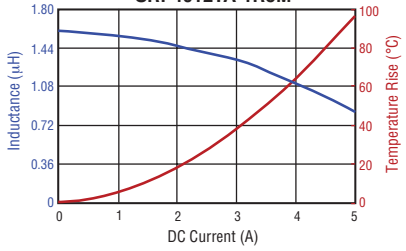
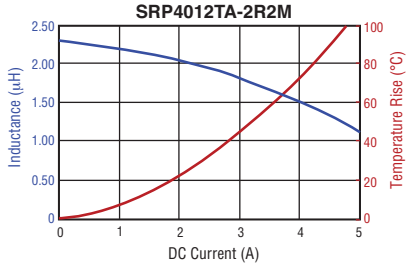


SRP4012TA-1R5M



SRP4012TA-2R2M



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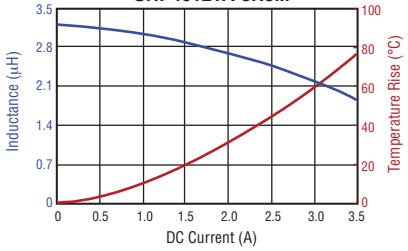
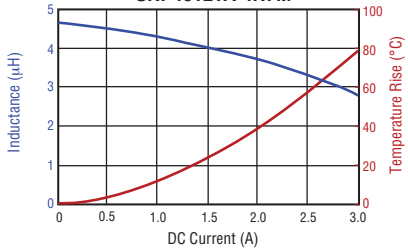
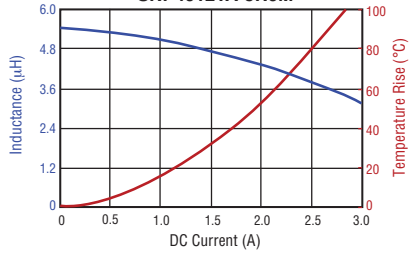


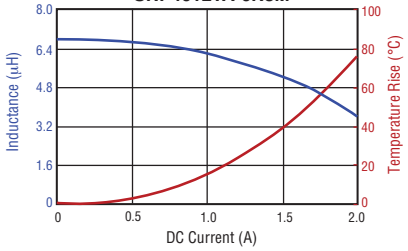
SRP4012TA-4R7M



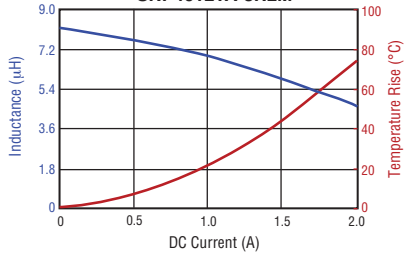
SRP4012TA-5R6M



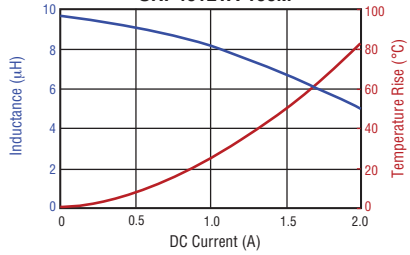
SRP4012TA-6R8M



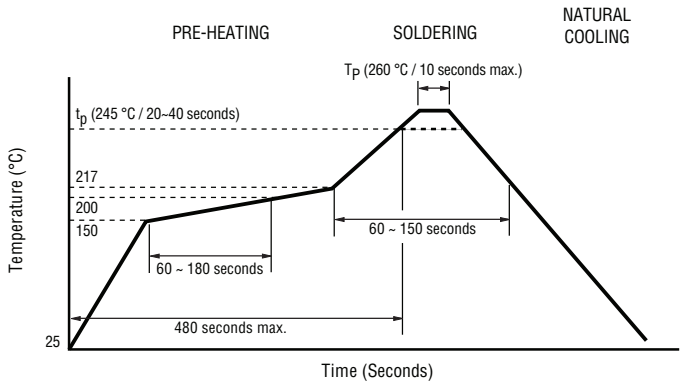
SRP4012TA-8R2M



SRP4012TA-100M

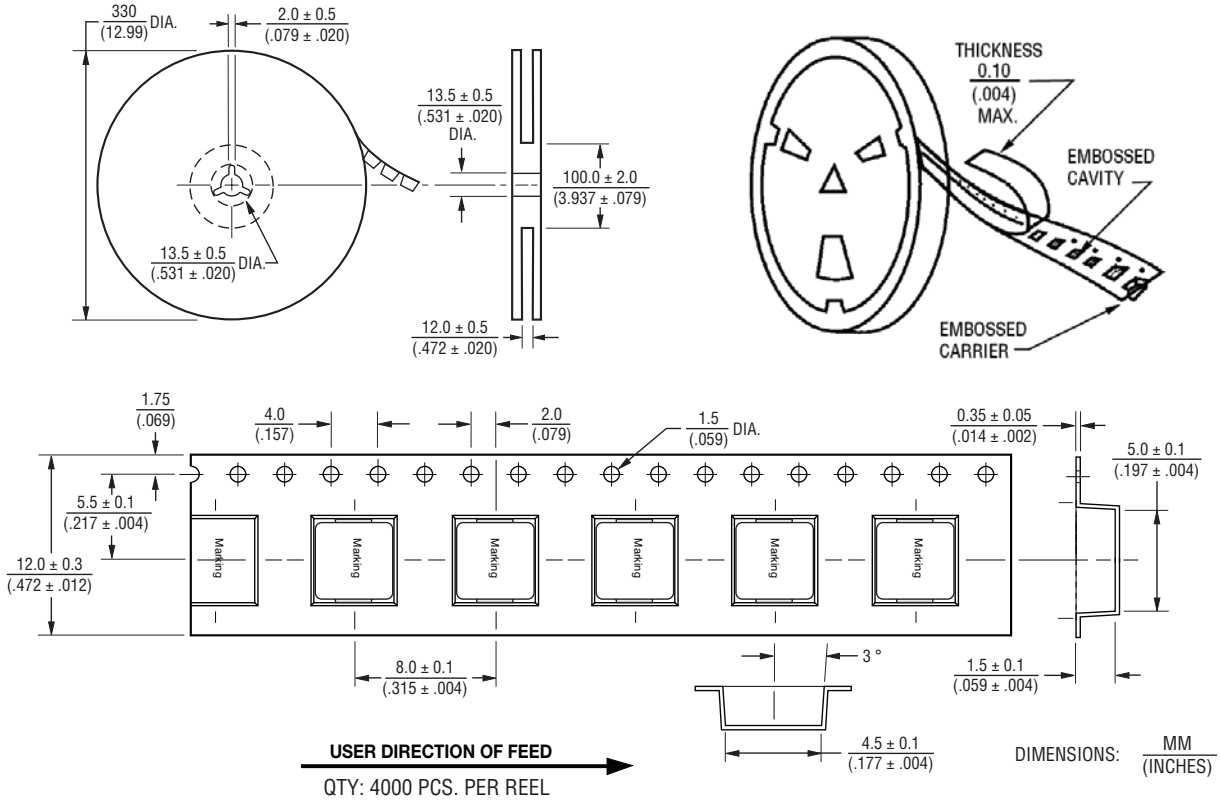


Soldering Profile



REFLOW TIMES: 3 MAX.

Packaging Specifications



REV. 12/18

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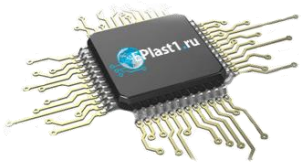
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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Факс: 8 (812) 320-02-42
Электронная почта: org@eplast1.ru
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