

Features

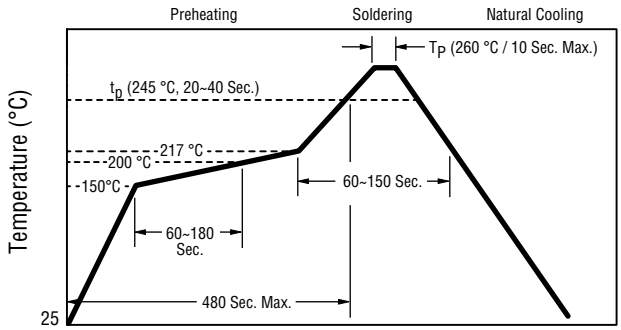
- Shielded construction
- Carbonyl powder core
- High saturation current
- Inductance range: 0.1 to 10 µH
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

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 (mΩ) Typ.	DCR (mΩ) Max.	Irms (A)	Isat (A)	Terminal Type
	L (µH)	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	

Soldering Profile



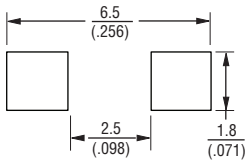
Reflow Times: 3 Times Max.

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 2015/863, Mar 31, 2015 and Annex.

** 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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Additional Information

Click these links for more information:

PRODUCT SELECTOR | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

General Specifications

Operating Temperature
.....-55 °C to +150 °C
(Temperature rise included)
Storage Temperature
.....-55 °C to +150 °C
Rated Current
..... Inductance drops 20 % at Isat
Temperature Rise .....40 °C at rated Irms
Moisture Sensitivity Level.....1
ESD Classification (HBM).....N/A

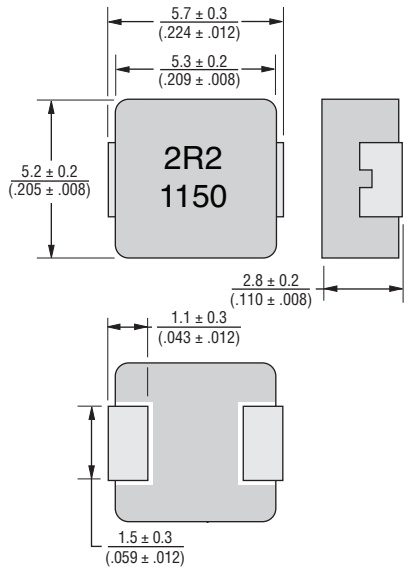
Note 1: Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Materials

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

Product Dimensions

Lead Frame Terminal

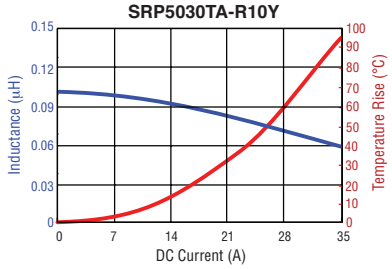


DIMENSIONS: MM (INCHES)

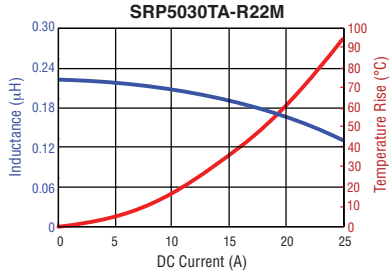
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L vs. I Charts

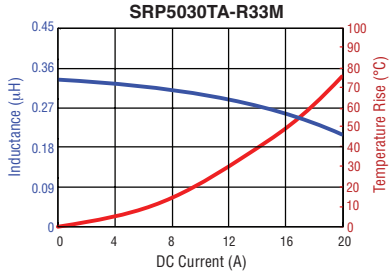
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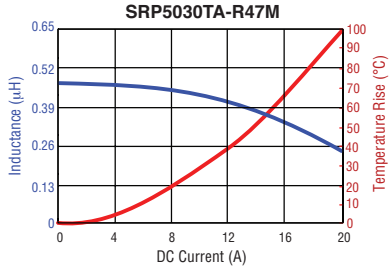
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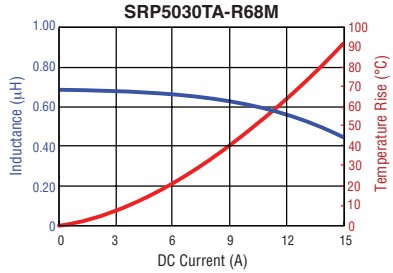
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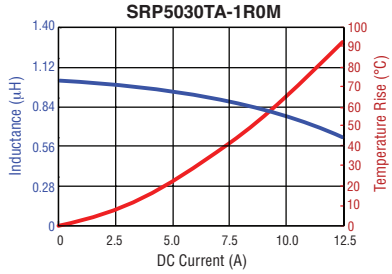
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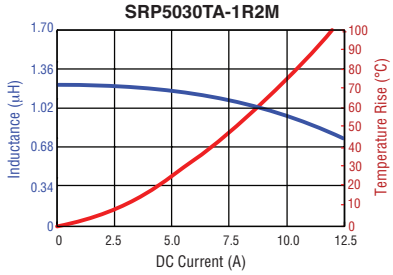
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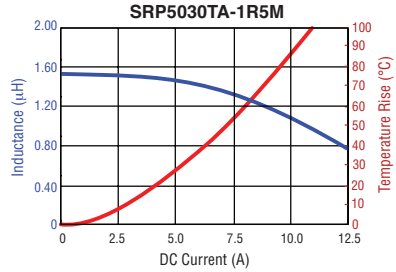
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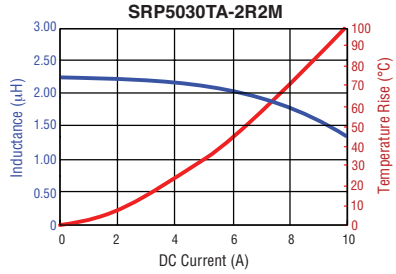
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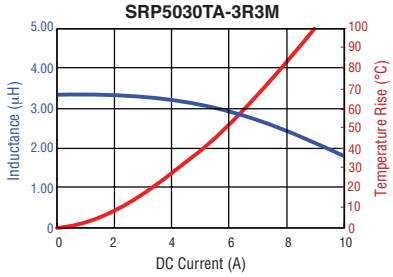
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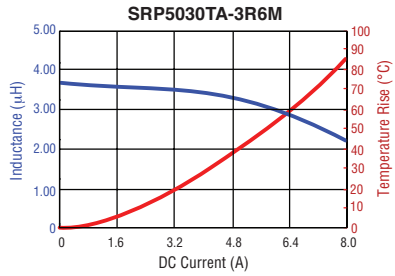
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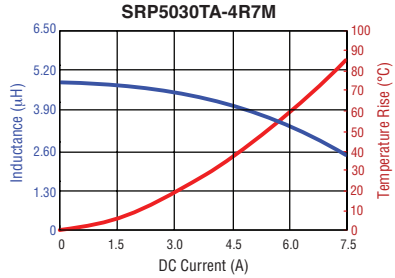
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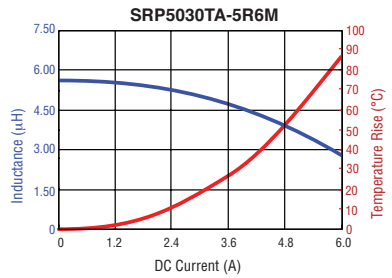
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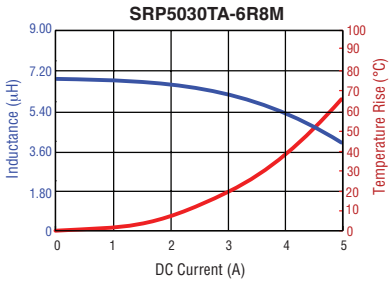
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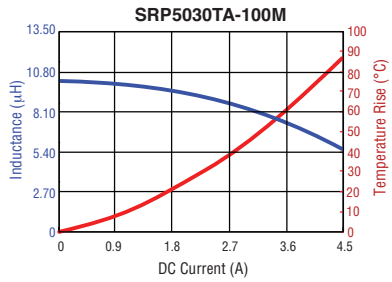
SRP5030TA-5R6M



SRP5030TA-6R8M



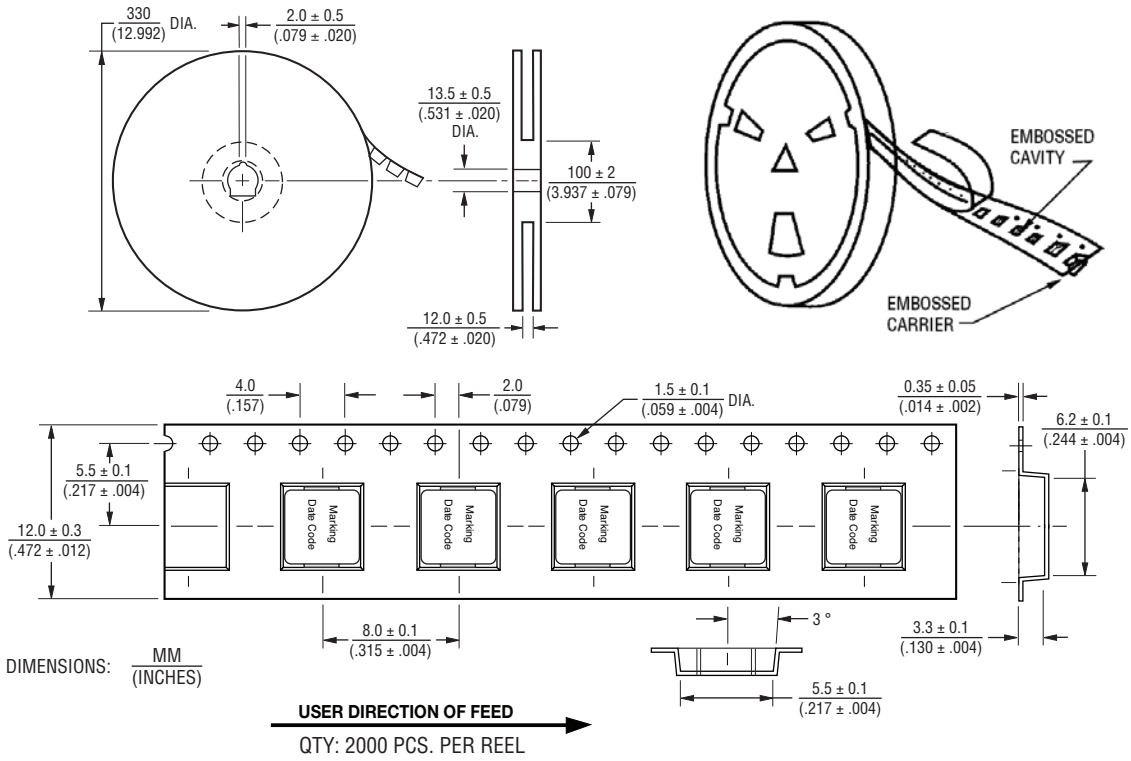
SRP5030TA-100M



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Packaging Specifications



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