

Features

- Shielded construction
- Carbonyl powder core
- High saturation current
- Inductance range: 0.20 to 22 µH
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

Additional Information

Click these links for more information:











SELECTOR

PRODUCT TECHNICAL INVENTORY SAMPLES **LIBRARY**

CONTACT

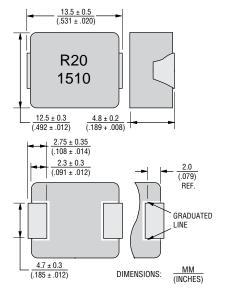
SRP1245A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

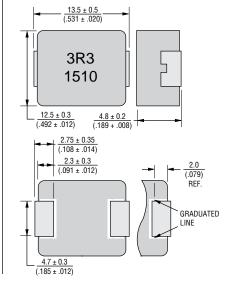
Bourns	Inductance @ 100 KHz /1 V		Q (Min.) @100 KHz	SRF (MHz)	DCR (mΩ)	DCR (mΩ)	Irms	Isat	Terminal
Part Number	L (μH)	Tol. (%)	/1 V	Тур.	Typ.	Max.	(A)	(A)	Type
SRP1245A-R20M	0.20	20	10	130	0.45	0.55	52	110	
SRP1245A-R22M	0.22	20	10	120	0.5	0.7	52	110	
SRP1245A-R33M	0.33	20	15	90	0.7	0.9	42	80	
SRP1245A-R36M	0.36	20	15	80	0.75	0.95	42	75	Non-
SRP1245A-R39M	0.39	20	15	78	0.78	0.95	42	70	Lead
SRP1245A-R47M	0.47	20	20	70	0.86	1.1	38	65	Frame
SRP1245A-R50M	0.50	20	20	65	0.9	1.3	37	60	
SRP1245A-R56M	0.56	20	20	60	1	1.5	36	55	
SRP1245A-R68M	0.68	20	20	50	1.4	1.7	34	54	
SRP1245A-R82M	0.82	20	20	45	1.7	2.1	31	52	
SRP1245A-1R0M	1.0	20	20	40	1.85	2.5	29	50	
SRP1245A-1R2M	1.2	20	20	35	2.5	3.0	28	49	
SRP1245A-1R5M	1.5	20	20	30	2.8	3.3	27	48	
SRP1245A-1R8M	1.8	20	20	27	4	4.9	21	40	
SRP1245A-2R2M	2.2	20	20	24	4.2	5.5	20	32	
SRP1245A-2R7M	2.7	20	20	23	4.7	6.7	17	32	
SRP1245A-3R3M	3.3	20	20	22	6.8	9.2	15	32	Lead
SRP1245A-4R7M	4.7	20	20	15	11.4	15.0	12	27	Frame
SRP1245A-5R6M	5.6	20	20	13	12.3	16.5	11.5	22	
SRP1245A-6R0M	6.0	20	20	12	13	16.5	11.5	21.5	
SRP1245A-6R8M	6.8	20	20	12	14.5	18.5	11	21	
SRP1245A-8R2M	8.2	20	20	11	16.8	22.5	9.5	18	
SRP1245A-100M	10	20	20	10	21.4	25.5	9	16	
SRP1245A-180M	18	20	20	7	40	45.0	7.5	11	
SRP1245A-220M	22	20	20	6	50	58	6.5	10	

Product Dimensions

Non-Lead Frame Terminal



Lead Frame Terminal



Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

General Specifications

Test Voltage 1.0 V Test Frequency......100 KHz 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 Rise40 °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.

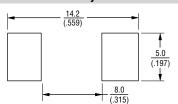
Materials

Core.....Carbonyl powder WireEnameled copper Terminal Finish Sn Packaging...... 500 pcs. per 13-inch reel

How to Order

SRP1245A - 100M Model -Value Code (see table)

Recommended Layout



Please consult Bourns® Model SRP-A Series Visual Inspection Guide for detailed construction, processing and testing information.

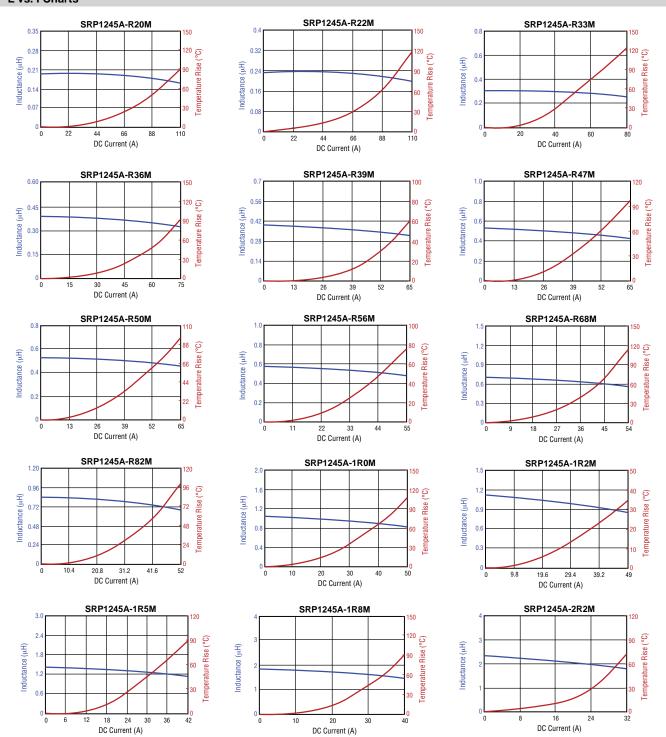


Cancer and Reproductive Harm www.P65Warnings.ca.gov

RoHS Directive 2015/863, Mar 31, 2015 and Annex.

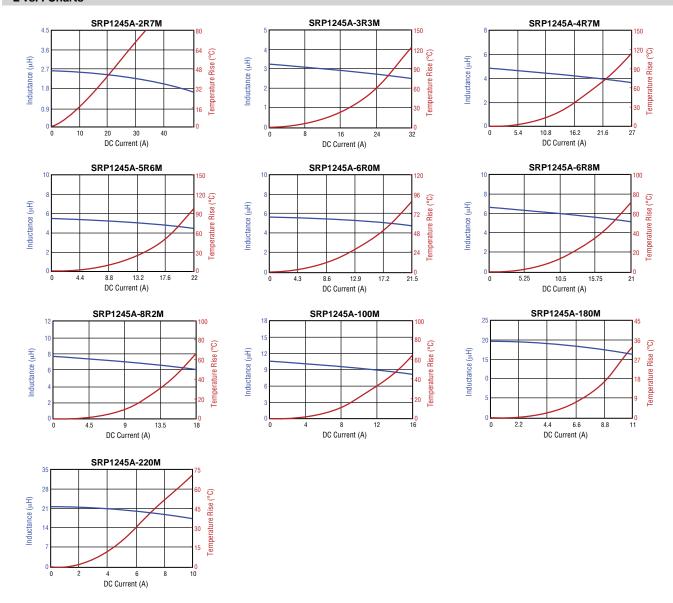
Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (CI) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

L vs. I Charts



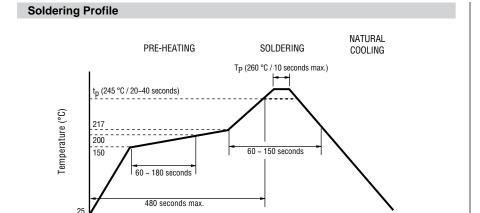
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L vs. I Charts



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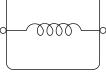
BOURNS



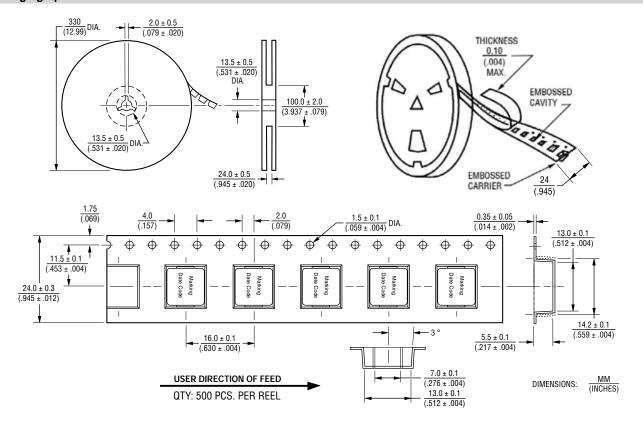
Time (Seconds)

REFLOW TIMES: 3 MAX.

Electrical Schematic



Packaging Specifications



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