

Features

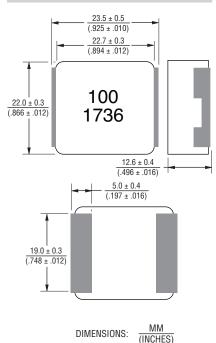
- Shielded construction
- Metal alloy powder core
- High saturation current
- Inductance range 1 to 100 µH
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRP2313AA Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 kHz / 1 V		Q (Min.) @100 kHz	SRF (MHz)	DCR (mΩ)	DCR (mΩ)	Irms (A)	Isat (A)	Terminal
	L (μH)	Tol. (%)	/1 V	Typ.	Тур.	Max.	Typ.	Typ.	Туре
SRP2313AA-1R0M	1.0	20	60	23	0.8	0.95	70	60	
SRP2313AA-1R5M	1.5	20	60	21	1.0	1.15	57	48	
SRP2313AA-2R2M	2.2	20	60	19	1.05	1.25	52	43	
SRP2313AA-3R3M	3.3	20	60	15	1.5	1.75	47	37	
SRP2313AA-4R7M	4.7	20	40	11	1.9	2.2	44	34	
SRP2313AA-6R8M	6.8	20	40	9	2.7	3.1	36	32	
SRP2313AA-100M	10	20	40	7	3.8	4.15	30	20	Lead Frame
SRP2313AA-220M	22	20	30	5	9.2	11	18	14	
SRP2313AA-230M	23	20	30	5	9.2	11	18	14	
SRP2313AA-330M	33	20	30	4	13.5	15.4	16	10.5	
SRP2313AA-470M	47	20	20	3.5	17.3	20.8	14	10	
SRP2313AA-680M	68	20	20	3	26.2	29.5	12	9	
SRP2313AA-101M	100	20	20	2	36.0	40.0	11	9	

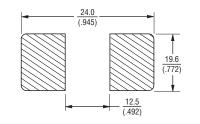
Product Dimensions



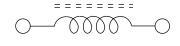
How to Order

SRP2313AA - 100M Value Code (see table)

Recommended Layout



Electrical Schematic



Additional Information

Click these links for more information:











SELECTOR

LIBRARY

INVENTORY SAMPLES

General Specifications

Operating Temperature-55 °C to +155 °C (Temperature rise included) Storage Temperature (Component)-55 °C to +155 °C Rated Current Inductance drops 30 % at Isat

Temperature Rise ... 40 °C at rated Irms¹ 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 WireEnameled copper Terminal FinishSn Packaging...... 80 pcs. per 13-inch reel

BOURNS[®]

Asia-Pacific:

Tel: +886-2 2562-4117 Email: asiacus@bourns.com

Europe:

Tel: +36 88 885 877

Email: eurocus@bourns.com

The Americas:

Tel: +1-951 781-5500

Email: americus@bourns.com

www.bourns.com



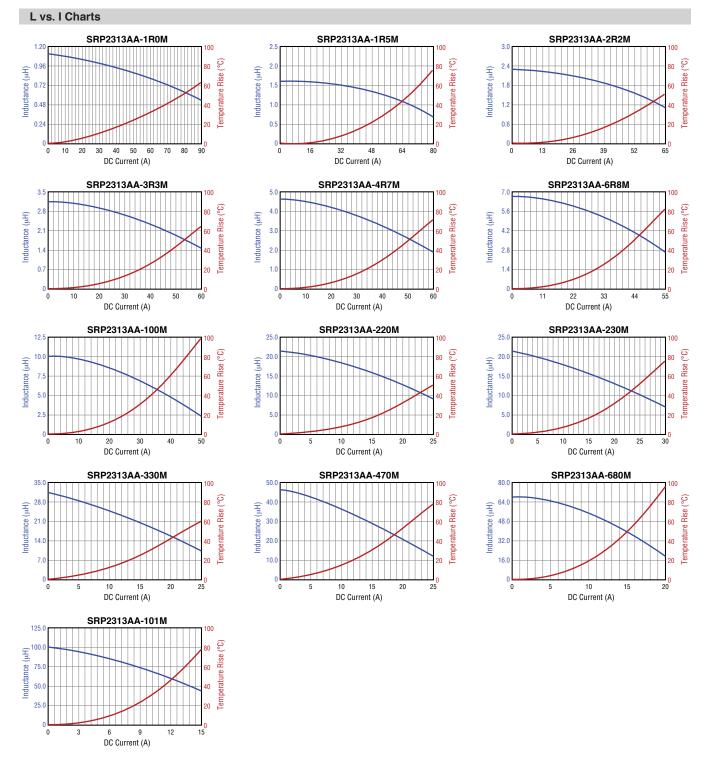
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

- 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 (CI) content is 1500 ppm or less.

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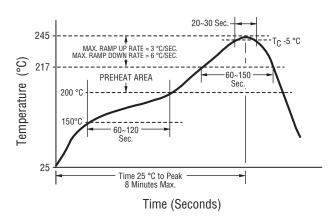
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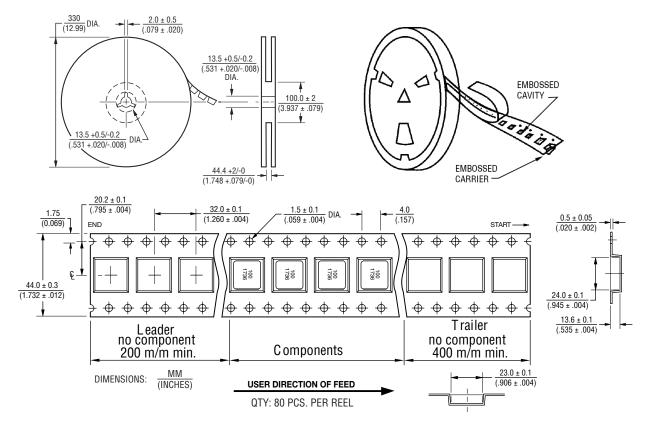
Soldering Profile



Profile Feature	Pb Free Assembly			
Preheat - Temperature Min. (T _{Smin}) - Temperature Max. (T _{smax}) - Time(t _S) from T _{smin} to T _{smax}	150 °C 200 °C 60-120 seconds			
Ramp-up Rate (T _L to T _p)	3 °C/second max.			
Liquidous temperature (T _L) Time (t _L) maintained above T _L	217 °C 60-150 seconds			
Peak package body temperature (Tp)	245 °C			
Time within 5 °C of Actual Peak Temperature (t _p)	20-30 seconds			
Ramp-Down Rate (T _p to T _L)	6 °C/second max.			
Time 25 °C to Peak Temperature	8 minutes max.			

REFLOW TIMES: 3 TIMES MAX.

Packaging Specifications



REV. 04/22

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