



Features

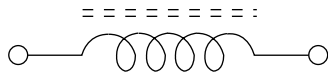
- Shielded construction
- Metal alloy powder core
- High saturation current
- Inductance range 1 to 100 μ H
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRP2313AA Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 kHz / 1 V		Q (Min.) @ 100 kHz / 1 V	SRF (MHz) Typ.	DCR (m Ω) Typ.	DCR (m Ω) Max.	I _{rms} (A) Typ.	I _{sat} (A) Typ.	Terminal Type
	L (μ H)	Tol. (%)							
SRP2313AA-1R0M	1.0	20	60	23	0.8	0.95	70	60	Lead Frame
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	
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	

Electrical Schematic

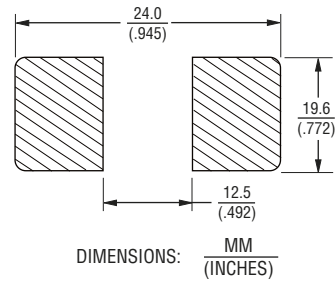


How to Order

SRP2313AA - 100M

Model _____
Value Code (see table) _____

Recommended Layout



General Specifications

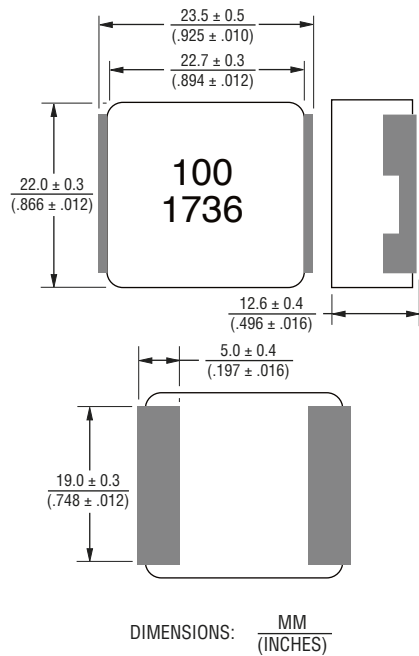
Operating Temperature-55 °C to +155 °C
(Temperature rise included)
Storage Temperature (Component)-55 °C to +155 °C
Rated Current Inductance drops 30 % at I_{sat}
Temperature Rise ... 40 °C at rated I_{rms}¹
Moisture Sensitivity Level..... 1
ESD Classification (HBM)..... N/A

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
Packaging..... 80 pcs. per 13-inch reel

Product Dimensions



Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com
EMEA: Tel: +36 88 520 390 • Email: eurocus@bourns.com
The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com
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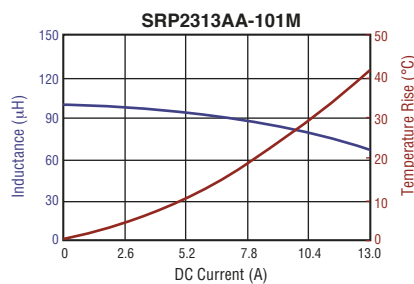
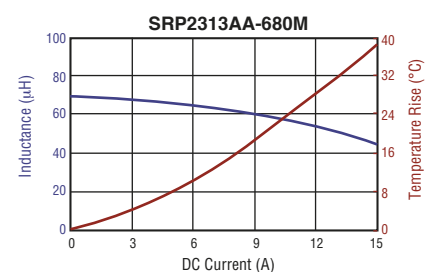
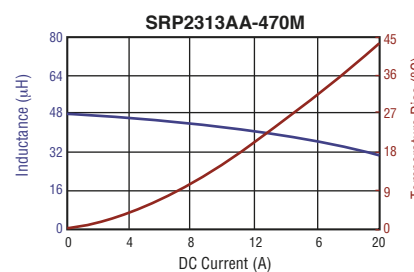
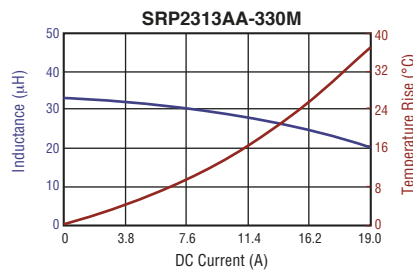
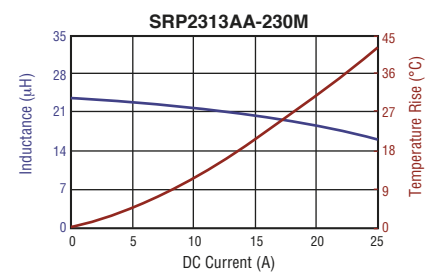
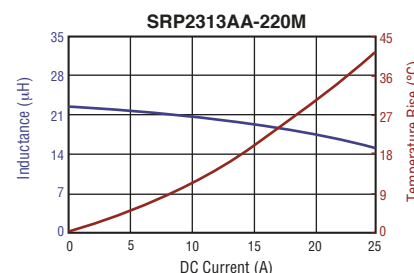
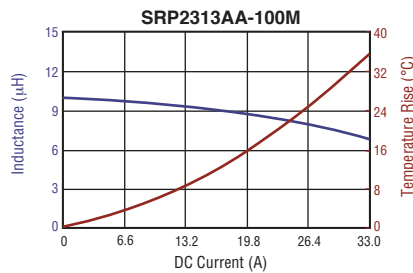
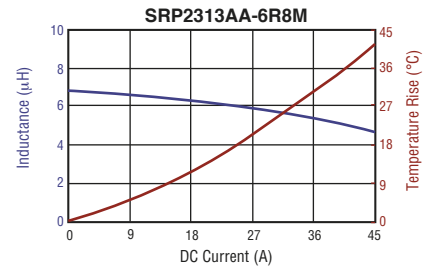
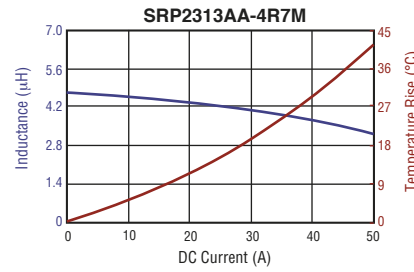
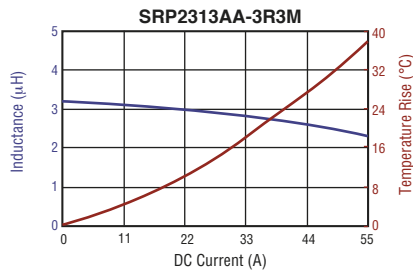
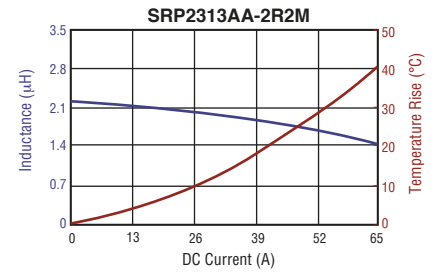
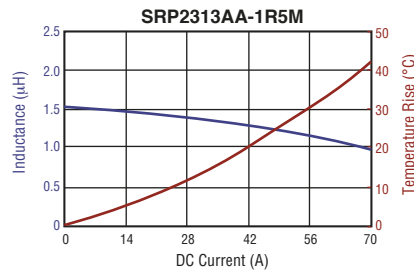
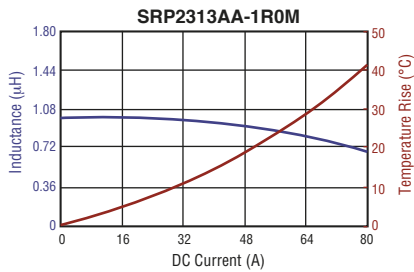
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

* 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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SRP2313AA Series - Shielded Power Inductors



L vs. I Charts

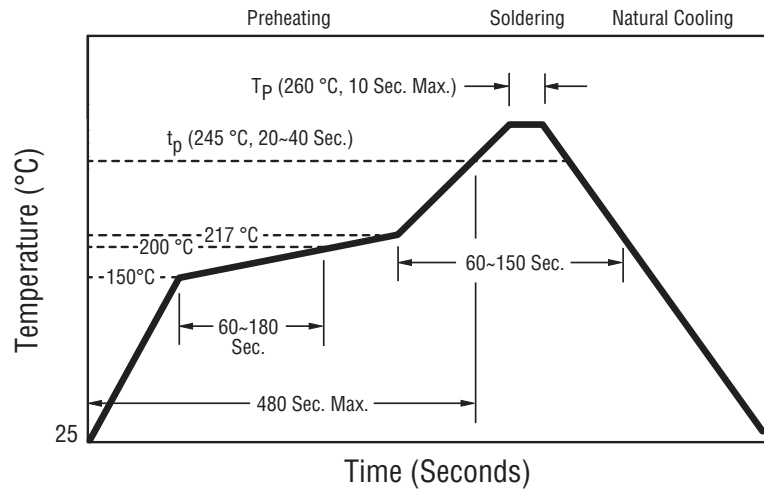


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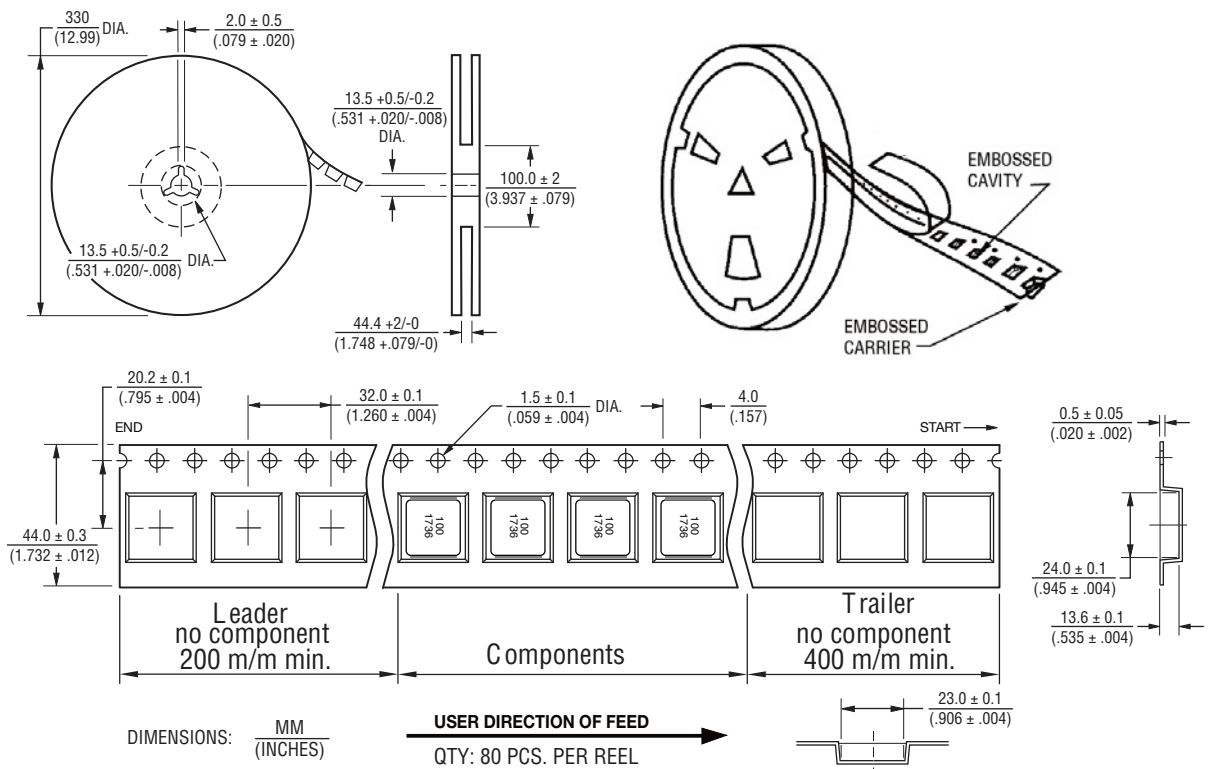
SRP2313AA Series - Shielded Power Inductors

BOURNS®

Soldering Profile



Packaging Specifications



REV. 05/23/18

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