



Features

- Shielded construction
- Metal alloy powder core
- High saturation current
- Inductance range 1 to 68 μH
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

Applications

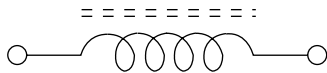
- Automotive systems:
 - Driver assistant
 - Infotainment
 - Lighting
- DC/DC converters
- Power supplies

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.	Isat (A) Typ.	Terminal Type
	L (μH)	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	Lead Frame
SRP2313AA-2R2M	2.2	20	60	19	1.05	1.25	52	43	Lead Frame
SRP2313AA-3R3M	3.3	20	60	15	1.5	1.75	47	37	Lead Frame
SRP2313AA-4R7M	4.7	20	40	11	1.9	2.2	44	34	Lead Frame
SRP2313AA-6R8M	6.8	20	40	9	2.7	3.1	36	32	Lead Frame
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	Lead Frame
SRP2313AA-230M	23	20	30	5	9.2	11	18	14	Lead Frame
SRP2313AA-330M	33	20	30	4	13.5	15.4	16	10.5	Lead Frame
SRP2313AA-470M	47	20	20	3.5	17.3	20.8	14	10	Lead Frame
SRP2313AA-680M	68	20	20	3	26.2	29.5	12	9	Lead Frame

Electrical Schematic

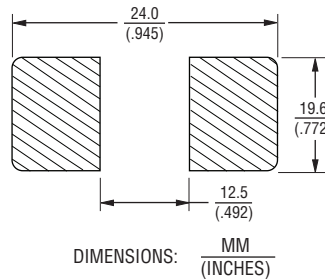


How to Order

SRP2313AA - 100M

Model _____
Value Code (see table) _____

Recommended Layout



General Specifications

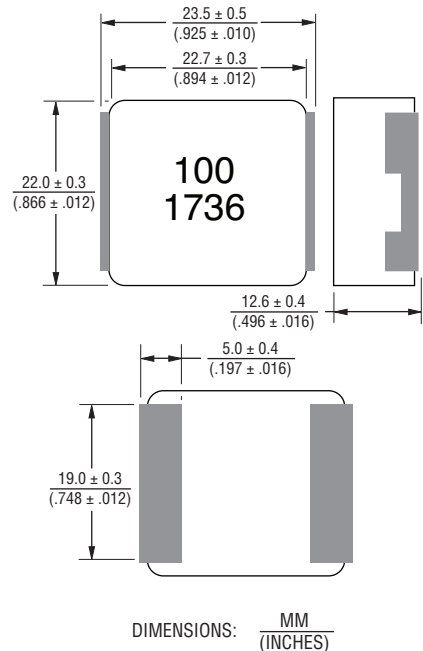
Operating Temperature-55 °C to +155 °C
(Temperature rise included)
Storage Temperature (Component)-55 °C to +155 °C
Rated Current Inductance drops 30 % at Isat
Temperature Rise ... 40 °C at rated I_{rms}¹
Moisture Sensitivity Level 1
ESD Classification (HBM) N/A

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 120 pcs. per 13-inch reel

Product Dimensions



BOURNS®

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EMEA: Tel: +36 88 520 390 • Email: eurocus@bourns.com
The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com
www.bourns.com

* 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.

Specifications are subject to change without notice.

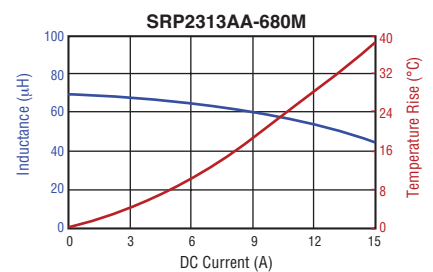
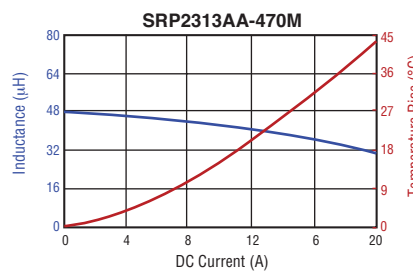
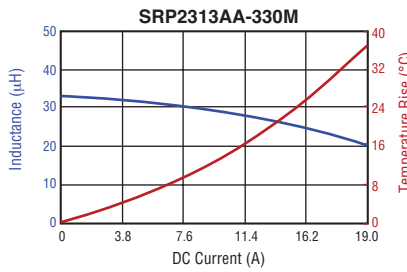
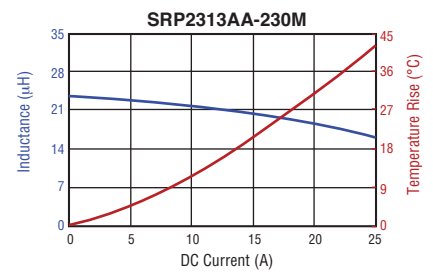
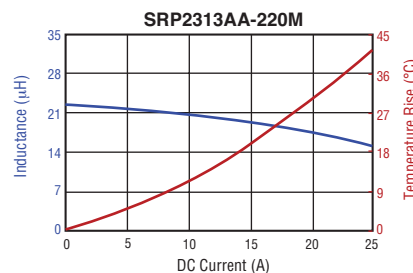
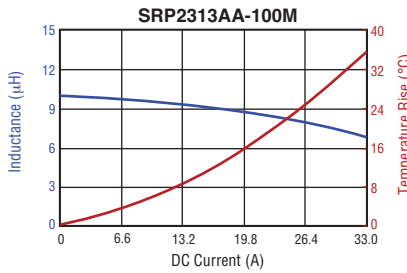
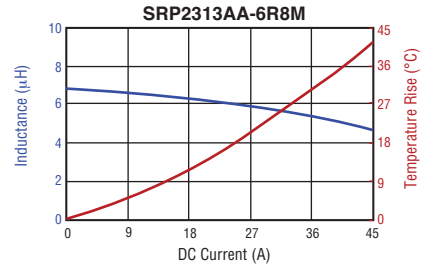
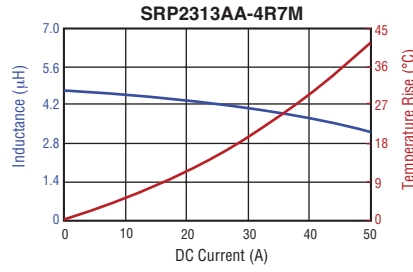
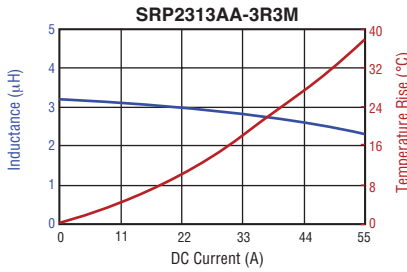
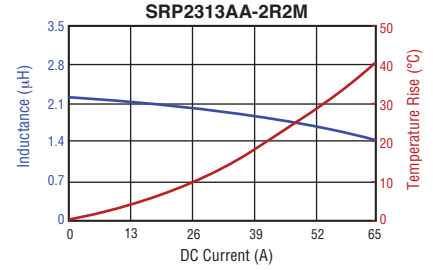
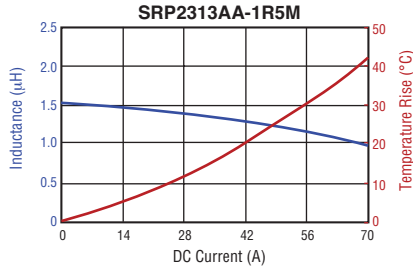
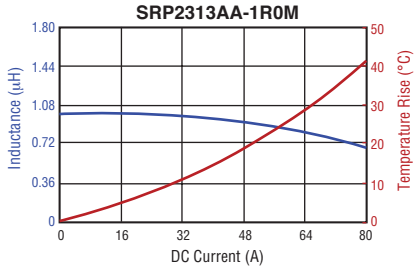
Users should verify actual device performance in their specific applications.

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SRP2313AA Series - Shielded Power Inductors



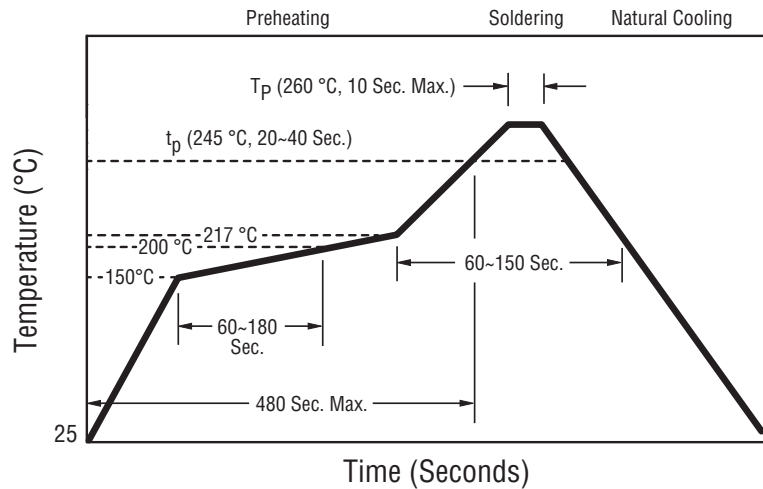
L vs. I Charts



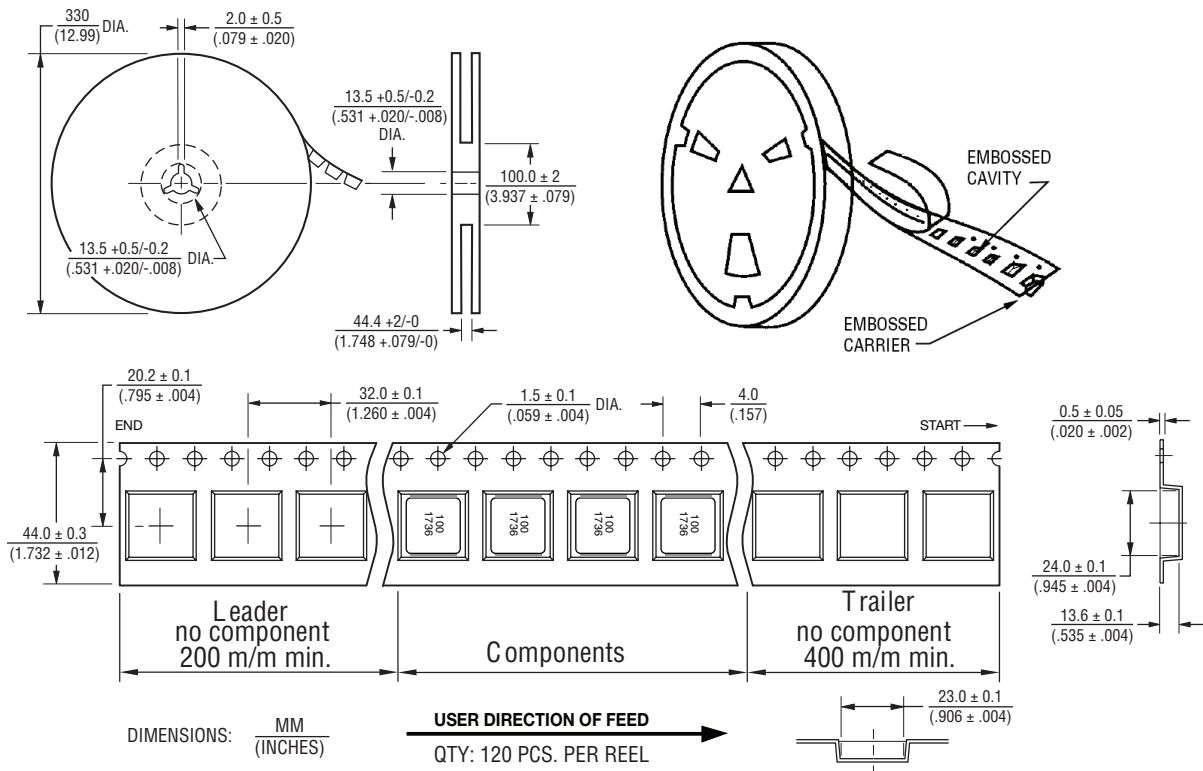
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BOURNS®

Soldering Profile



Packaging Specifications



REV. 11/17

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