

Features

- Shielded construction for low radiation
- Metal alloy powder core for high saturation current
- Wide side terminal for enhanced mechanical strength
- High vibration resistance (15 G typical)
- High operating temperature
- Low buzz noise
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRP5030WA Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

	Inductance @ 100 kHz / 1 V		Q Typ.	SRF (MHz)	DCR (mΩ)	DCR (mΩ)	I _{rms}	I _{sat} (A)
Bourns Part No.	L (μH)	Tol. %	100 kHz	Typ.	Typ.	Max.	Typ.	Typ.
SRP5030WA-R68M	0.68	20	20	72	8.5	9.7	12	11.7
SRP5030WA-1R0M	1.0	20	20	55	10	11.5	10.5	8.0
SRP5030WA-1R5M	1.5	20	20	42	15.4	17.7	8.5	6.5
SRP5030WA-2R2M	2.2	20	20	33	20	23	7.5	5.8
SRP5030WA-3R3M	3.3	20	20	27	31	36	6.0	5.4
SRP5030WA-4R7M	4.7	20	20	22	49	57	5.2	4.5
SRP5030WA-5R6M	5.6	20	20	20	61	71	4.4	4.3
SRP5030WA-6R8M	6.8	20	20	18	72	83	4.0	4.0
SRP5030WA-100M	10	20	20	16	97	111	3.0	2.4
SRP5030WA-150M	15	20	20	12	165	190	2.5	2.2
SRP5030WA-220M	22	20	20	10	205	235	2.2	2

Additional Information

Click these links for more information:











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CONTACT

General Specifications

Operating Temperature

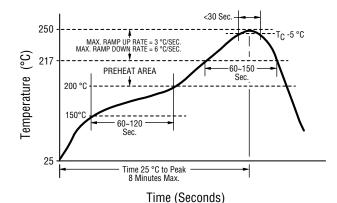
.....-55 °C to +165 °C (Temperature rise included)

Storage Temperature (Component)-55 °C to +165 °C

Temperature Rise40 °C at rated I_{rms}¹ Rated Current

Materials

Soldering Profile



REFLOW TIMES: 3 TIMES MAX.

Profile Feature Pb Free Assembly Preheat - Temperature Min. (T_{smin}) 150 °C - Temperature Max. (T_{smax}) 200 °C - Time(t_S) from T_{Smin} to T_{Smax} 60-120 seconds Ramp-up Rate (T_L to T_p) 3 °C/second max. Liquidous temperature (T_L) 217 °C Time (t_L) maintained above T_L 60-150 seconds Peak package body temperature (T_p) 250 °C Time within 5 °C of Actual Peak Temperature <30 seconds Ramp-Down Rate (Tp to TL) 6 °C/second max. Time 25 °C to Peak Temperature 8 minutes max



WARNING Cancer and Reproductive Harm

www.P65Warnings.ca.gov

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.

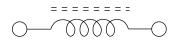
^{*} RoHS Directive 2015/863, Mar 31, 2015 and Annex.

**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

^{*} 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.

SRP5030WA Series - Shielded Power Inductors

Electrical Schematic

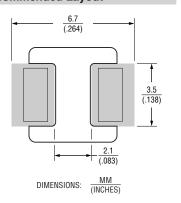


How to Order

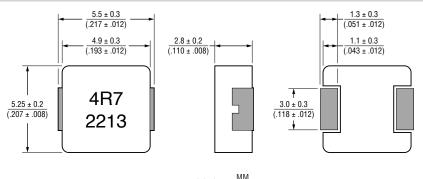
Model -

SRP5030WA - R68M Value Code (see table)

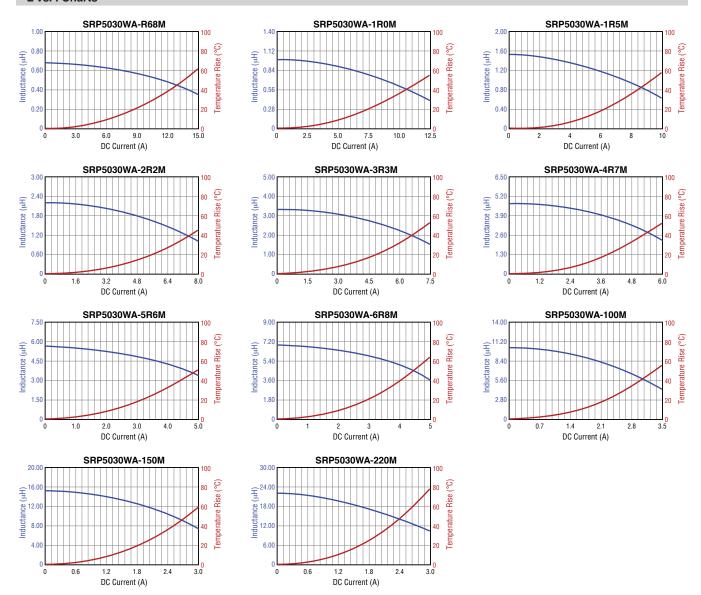
Recommended Layout



Product Dimensions



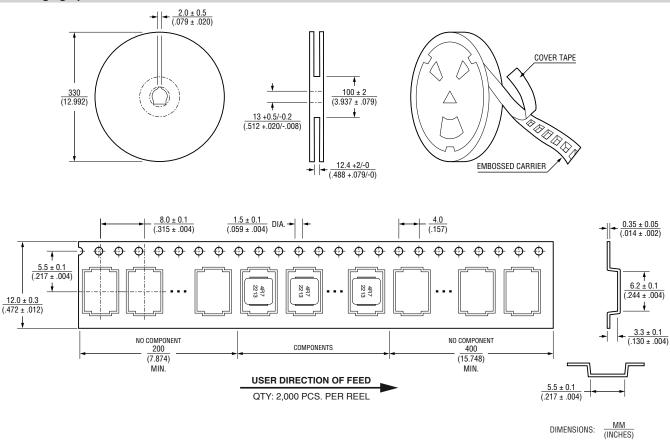
L vs. I Charts



SRP5030WA Series - Shielded Power Inductors

BOURNS

Packaging Specifications



BOURNS®

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EMEA: Tel: +36 88 885 877 • Email: eurocus@bourns.com

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