



Bourns® AEC-Q200 Compliant

Model SRP1050WA, SRP5030WA, SRP6030WA and SRP7050WA Series

High Current Shielded Power Inductors

Qualified as Automotive Grade

Riverside, California – October 31, 2023 – The AEC-Q200 Compliant Model [SRP1050WA](#), [SRP5030WA](#), [SRP6030WA](#) and [SRP7050WA](#) Series High Current Shielded Power Inductors are now qualified as standard Automotive Grade components. A list of affected part numbers is included on the following page.

These four series of inductors are designed with a wider side terminal frame to withstand typical vibration levels of 15 G with a 30 G peak. They are also manufactured with shielded construction and a metal alloy powder core, featuring low DC resistance, high saturation current, low buzz noise, excellent temperature stability, and low magnetic field radiation.

The Model SRP1050WA, SRP5030WA, SRP6030WA and SRP7050WA Series provide an operating temperature range of -55 to +165 °C and are well-suited for DC-DC converters and power supplies in consumer, industrial, and telecom electronics applications where higher inductor reliability is essential.

Product Characteristics:

Model	Size (mm)	Inductance (µH)	Heating Current I_{rms} (A)	Saturation Current I_{sat} (A)	Operating Temperature (°C)
SRP1050WA	11 x 10 x 5.1	1.0 - 100	2.7 - 30	4 - 37	-55 to +165 °C
SRP5030WA	5.5 x 5.25 x 2.8	0.68 - 22	2.2 - 12	2 - 11.7	-55 to +165 °C
SRP6030WA	7.1 x 6.6 x 2.8	0.47 - 22	2.9 - 19	3 - 19	-55 to +165 °C
SRP7050WA	7.9 x 7.3 x 5.2	1.0 - 100	2.2 - 20	2 - 23	-55 to +165 °C

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Features

- Shielded construction
- Metal alloy powder core
- High saturation current
- Wide side terminal for enhanced mechanical strength
- Excellent vibration resistance (15 G typical, 30 G peak)
- High operating temperature
- Low buzz noise
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

Applications

- Automotive systems
- DC-DC converters
- Power supplies
- Consumer, industrial and telecom electronics



* 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.

Affected Part Numbers			
SRP1050WA-1R0M	SRP1050WA-220M	SRP5030WA-150M	SRP7050WA-1R5M
SRP1050WA-1R2M	SRP1050WA-330M	SRP5030WA-220M	SRP7050WA-2R2M
SRP1050WA-1R5M	SRP1050WA-470M	SRP6030WA-R47M	SRP7050WA-3R3M
SRP1050WA-1R8M	SRP1050WA-680M	SRP6030WA-1R0M	SRP7050WA-4R7M
SRP1050WA-2R2M	SRP1050WA-101M	SRP6030WA-1R5M	SRP7050WA-5R6M
SRP1050WA-3R3M	SRP5030WA-R68M	SRP6030WA-2R2M	SRP7050WA-6R8M
SRP1050WA-4R7M	SRP5030WA-1R0M	SRP6030WA-3R3M	SRP7050WA-8R2M
SRP1050WA-5R6M	SRP5030WA-1R5M	SRP6030WA-4R7M	SRP7050WA-100M
SRP1050WA-6R8M	SRP5030WA-2R2M	SRP6030WA-6R8M	SRP7050WA-150M
SRP1050WA-8R2M	SRP5030WA-3R3M	SRP6030WA-8R2M	SRP7050WA-220M
SRP1050WA-100M	SRP5030WA-4R7M	SRP6030WA-100M	SRP7050WA-330M
SRP1050WA-120M	SRP5030WA-5R6M	SRP6030WA-150M	SRP7050WA-470M
SRP1050WA-150M	SRP5030WA-6R8M	SRP6030WA-220M	SRP7050WA-680M
SRP1050WA-180M	SRP5030WA-100M	SRP7050WA-1R0M	SRP7050WA-101M