

Bourns Releases Automotive Grade High Current Shielded Power Inductors

Model SRP7028AA, SRP7050AA and SRP1038AA Series

Riverside, California – March 11, 2021 – Bourns Magnetics Product Line is introducing the [Model SRP7028AA](#), [SRP7050AA](#) and [SRP1038AA](#) Automotive Grade High Current Shielded Power Inductor Series that are designed to meet today's high current density and high temperature requirements of various electronic applications. These inductor series are manufactured with a metal alloy powder core featuring low DC resistance, high heating / saturation current, low buzz noise, excellent temperature stability and shielded construction for low magnetic field radiation.

A few years ago, Bourns released a similar design – the Model SRP7028A, SRP7050TA and SRP1038A High Current Shielded Power Inductor Series manufactured with a carbonyl iron powder core. Compared to the previous design, the new Model SRP7028AA, SRP7050AA and SRP1038AA series feature lower DCR, higher I_{rms} current and a more robust core structure. The Model SRP7028A, SRP7050TA and SRP1038A series also have a higher saturation current rating.


The Model SRP7028AA, SRP7050AA and SRP1038AA are AEC-Q200 compliant with an operating temperature range from -55 to +155 °C and are well suited for DC/DC converters and power supplies in consumer, industrial, and telecom electronics applications in which higher inductor reliability may be required.

Inductor Series Characteristics:

Model	Size (mm)	Inductance	Heating Current I_{rms}	Saturation Current I_{sat}
SRP7028AA Series	7.1 x 6.6 x 2.8	0.15 - 22 μ H	2.5 - 30 A	3 – 40 A
SRP7050AA Series	7.3 x 6.6 x 4.8	0.47 - 47 μ H	2.6 - 22 A	1.8 – 22 A
SRP1038AA Series	11 x 10 x 3.8	0.15 - 47 μ H	3.5 - 44 A	4 – 82 A

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Features

- Shielded construction
- Metal alloy powder core
- High saturation current
- Low buzz noise
- AEC-Q200 compliant
- RoHS compliant* and Halogen free**
- **AUTOMOTIVE**
GRADE 

Applications

- DC/DC converters
- Power supplies in consumer, industrial, and telecom electronics

For additional details on Bourns® AEC-Q Compliant Products, visit the Bourns website at www.bourns.com/products/aec-q-compliant-products.

If you have any questions or need additional information, please feel free to contact [Customer Service/Inside Sales](#).

* 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.