



## Bourns Adds New Compact Size High Current Shielded Power Inductor

### Model SRP3212-1R0MR21

Riverside, California – January 4, 2024 – Bourns Magnetics Product Line is introducing the new [Model SRP3212-1R0MR21 Mini-molding High Current Shielded Power Inductor](#) in a compact size and low profile of 3.2 x 2.5 x 1 mm. This inductor is manufactured with a metal alloy powder core and shielded construction featuring high saturation currents, high heating currents, and low magnetic field radiation. The flat wire construction improves the efficiency of this new model by significantly reducing DCR compared to other similarly sized power inductor devices using conventional wire. Additionally, the model SRP3212-1R0MR21 is developed for use with Texas Instruments' Model BQ25638/BQ25638D battery chargers.

With an operating temperature range of -40 to +125 °C, a small footprint and low-profile features, the Model SRP3212-1R0MR21 inductor is well-suited for use in DC-DC converters and consumer electronics.

Model	Size (mm)	Inductance (μH)	DCR (mOhms)	Heating Current I <sub>rms</sub> (A)	Saturation Current I <sub>sat</sub> (A)	Operating Temperature (°C)
SRP3212-1R0MR21	3.2 x 2.5 x 1	1.0	19 Typ. 21 Max.	5.5	7.7	-40 to +125

For additional information, please visit the Bourns website at [www.bourns.com](http://www.bourns.com). Should you have any questions, please feel free to contact [Customer Service/Inside Sales](#).

#### Features

- Compact size
- Shielded construction
- Low radiation
- High current
- Low DCR
- RoHS compliant\* and halogen free\*\*

#### Applications

- DC-DC converters in consumer, industrial, and telecom electronics
- Consumer 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.