



Bourns Introduces Shielded Power Inductors for Space-Constrained Portable Electronics

Compact 2.0 mm x 1.2 mm footprint and 1.0 mm maximum profile support high-current power designs in wearable and mobile devices

RIVERSIDE, Calif., September 28, 2026 - Bourns today announced the [SRP201210V Series Shielded Power Inductors](#), a new family of compact power inductors designed for applications where board space, profile height, and power capability must be carefully balanced. The series combines a metal alloy powder core with magnetically shielded construction to support high current handling while limiting magnetic field radiation in dense electronic assemblies. The low-profile design, featuring a maximum height of 1.0 mm, helps engineers address space constraints in portable and battery-powered products.

As portable electronics continue to incorporate more functionality within smaller form factors, engineers face increasing pressure to reduce component height and board area without compromising power delivery performance. Power inductors used in these systems must provide sufficient current capability while minimizing EMI-related design concerns and maintaining thermal performance. The SRP201210V Series addresses these requirements through its shielded construction, low DC resistance characteristics, and metal alloy powder core architecture. The Series offers inductance values from 0.24 μ H to 0.47 μ H and operates across a temperature range of -55 °C to +125 °C.

“Designers of wearable devices, mobile electronics, and compact IoT platforms often need to maximize current capability within extremely limited board space,” said Edward Liu, Product Line Manager, Magnetics, Bourns. “The SRP201210V Series combines a 2.0 mm x 1.2 mm footprint, a 1.0 mm maximum profile, and high current performance supported by a metal alloy powder core. Its shielded construction also helps reduce magnetic field radiation, which can simplify integration in densely populated layouts.”

Design Features

- **Magnetically shielded construction:** helps reduce magnetic field radiation in compact electronic designs
- **High current:** supports power delivery in space-constrained designs
- **Low DC resistance:** helps minimize conduction losses in power conversion applications
- **Low profile:** maximum height of 1.0 mm supports thinner electronic assemblies and compact layouts
- **RoHS compliant* and halogen free**:** supports environmental compliance requirements

Electrical Specifications

Parameter	SRP201210V Series
Inductance range (μH)	0.24-0.47
Inductance tolerance	$\pm 20\%$
Q, typical	25
SRF, typical (MHz)	≥ 120
ACR at 1 MHz / 1 V, maximum ($\text{m}\Omega$)	80-170
DCR, typical ($\text{m}\Omega$)	13-21
DCR, maximum ($\text{m}\Omega$)	17-24
I_{rms} , typical (A)	4.7-5.9
I_{rms} , maximum (A)	4.2-5.2
I_{sat} , typical (A)	5.5-7.6
I_{sat} , maximum (A)	5.0-7.0
Operating temperature	-55 to +125 °C

Target Applications

- Wearable devices
- Smartphones and tablets requiring compact power management circuitry
- IoT modules with limited board space and low EMI requirements
- Portable and battery-powered electronics where size and power efficiency are critical
- Solid-state drives requiring compact power conversion components

Availability

The [Bourns® SRP201210V Series Shielded Power Inductors](#) are available now through Bourns' authorized distribution network. Full specifications, ordering information, inventory status, and sample requests are available through the product page at bourns.com/products/magnetic-products/power-inductors/#smdhcs. Samples may be requested through [Bourns Customer Service](#).

About Bourns

Bourns is the global electronic components partner for design engineers whose systems must keep working—in vehicles, aircraft, defense and navigation systems, medical devices†, data centers, satellites, consumer electronics, energy systems, and the networks that connect them. Across power, protection,

sensing, timing, and thermal management, Bourns builds solutions for the demanding requirements those systems create. The family that founded Bourns in 1947 still governs the company—a stewardship that lets Bourns commit to its people, technologies, and customers for decades rather than quarters. For more information, visit bourns.com.

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