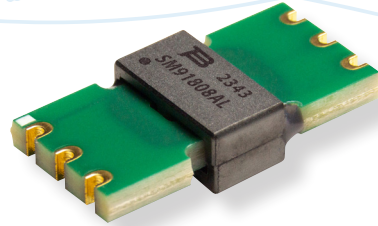




# NEW PRODUCT RELEASE

## TRANSFORMERS



## Bourns Releases New AEC-Q200 Compliant, Automotive Grade BMS Signal Transformer

### Next-Generation Model SM91808AL

Riverside, California – January 3, 2025 – The Bourns Magnetics Product Line is pleased to introduce the [Model SM91808AL](#) AEC-Q200 Compliant, Automotive Grade BMS Signal Transformer for next-generation applications. This single channel basic insulation transformer has a planar structure for BMS applications.

The Model SM91808AL was developed for use with Analog Device's Model LTC6815 Series, NXP's Model MC33771C Series, and Texas Instruments' Model BQ79616. The Model SM91808AL is manufactured with full automation for high quality and cost-effectiveness. This low-profile BMS transformer is under 3.5 mm in height above the PCB due to its no-base design structure. The model offers a working voltage of up to 1000 VDC and a Hi-Pot isolation voltage up to 4300 VDC with an extended operating temperature range of -40 to +125 °C.

Model	OCL (μH)	Size (mm)	Working Voltage (V)	Creepage Distance (mm)	Clearance Distance (mm)
SM91808AL	150~450	17.4 x 8.5 x 5.5	1000	Min. 8.2	Min. 8.2

For additional details on Bourns® transformers, visit the Bourns website at [www.bourns.com/products/magnetic-products/transformers-bms-aecq200](http://www.bourns.com/products/magnetic-products/transformers-bms-aecq200). Should you have any questions, contact [Bourns Customer Service/Inside Sales](#).

#### Features

- Planar technology primarily for BMS next-generation signal applications
- Low profile – under 3.5 mm height above PCB
- Working voltage: up to 1000 VDC
- Hi-Pot: 4300 VDC or 2500 VAC
- Basic insulation compliant with IEC 60664-1/IEC 61558-1/IEC 62368-1
- Clearance distance >8.2 mm, Pollution degree 2, Material group CTI I  
Creepage distance >8.2 mm, Overvoltage Category II, up to 2 km above sea level
- Partial discharge level up to 1200 V per IEC 60664
- Expanded temperature range: -40 to +125 °C
- RoHS compliant\*
- Halogen free\*\*
- AEC-Q200 compliant



#### Applications

- Battery Management Systems
- Energy Storage Systems

\* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

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