



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

Model SM91543AL

Riverside, California – April 2, 2025 – Bourns Magnetics Product Line is pleased to introduce the [Model SM91543AL](#) AEC-Q200 Compliant, Automotive Grade BMS (Battery Management System) Signal Transformer. This single channel, reinforced insulation transformer includes common mode chokes for noise rejection in BMS applications.

The Model SM91543AL was developed for use with NXP’s Model NXP33771 series and Analog Device’s Model AD1818 and LTC6804/681X series. This BMS transformer offers a working voltage of up to 1500 VDC and a Hi-Pot isolation voltage up to 6400 VDC with an extended operating temperature range of -40 to +125 °C. The partial discharge level is up to 2250 V.

Model	L (μH)	Size (mm)	Working Voltage (VDC)	Creepage Distance (mm)	Clearance Distance (mm)
SM91543AL	150 ~ 450	31.5 x 12.5 x 9.5	1500	Min. 19	Min. 16

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

Features

- Reinforced insulation between primary and secondary per IEC 62477-1, IEC 60664-1 and IEC 62368-1
- UL recognized: UL No. E515965 per UL 62368-1
- Partial discharge level up to 2250 V
- 1500 VDC working voltage and Hi-Pot voltage up to 6400 VDC
- Creepage distance >19 mm, clearance distance >16 mm
- Supports serial daisy chain / IsoSPI communication
- RoHS compliant*
- AEC-Q200 compliant
- AUTOMOTIVE GRADE**

Applications

- Battery Management Systems
- Energy Storage Systems

Additional Information



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

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