

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


Model SM91542AL

Riverside, California – July 20, 2023 – Bourns Magnetics Product Line is pleased to introduce the [Model SM91542AL](#) AEC-Q200 compliant, automotive grade BMS (Battery Management System) Signal Transformer. This single channel functional insulation transformer includes common mode chokes for noise rejection for BMS applications.

The Model SM91542AL was developed for use with Analog Device’s Model LTC6804/681X, NXP’s Model MC3377X and Texas Instruments’ Model BQ79616. The improved design of pin auto-termination replacing the manual termination process helps this transformer to achieve better efficiency and lower costs. This BMS transformer offers a working voltage of up to 1000 VDC and Hi-Pot isolation voltage up to 4300 VDC with an extended operating temperature range of -40 to +125 °C.

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

Features

- Improved design for automation compared to the Model SM91502ALA
- Up to 1000 VDC working voltage and Hi-Pot up to 4300 VDC
- Single channel with integrated choke
- Functional insulation
- Supports serial daisy chain / IsoSPI communication
- Developed for use with Analog Device’s Model LTC6804/681X, NXP’s Model MC3377X and Texas Instruments’ Model BQ79616
- Expanded temperature range: -40 to +125 °C
- RoHS compliant* and halogen free**
- AEC-Q200 compliant
-  **AUTOMOTIVE GRADE**

Applications

- Battery Management Systems (BMS)
- Energy Storage Systems (ESS)

* 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.