

# **NEW PRODUCT RELEASE**

TRANSFORMERS



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

## Model SM91806AL

Riverside, California – January 9, 2024 – Bourns Magnetics Product Line is pleased to introduce the Model SM91806AL AEC-Q200 compliant, Automotive Grade BMS (Battery Management System) Signal Transformer for next generation applications. This single-channel basic insulation transformer has a planar structure and is designed for BMS applications.

The Bourns® Model SM91806AL BMS Planar Transformer was developed for use with Analog Device's Model LTC6815 Series, NXP's Model MC33771C Series and Texas Instruments' Model BQ79616. This BMS transformer offers a working voltage of up to 1000 VDC and Hi-Pot isolation voltage up to 4300 VDC or 3000 VAC with an extended operating temperature range of -40 to +125 °C. Additionally, Bourns' automated manufacturing process has further improved the quality and cost-effectiveness of this transformer.

Model	OCL	Size	Working Voltage	Creepage Distance	Clearance Distance
	(μH)	(mm)	(V)	(mm)	(mm)
SM91806AL	150 ~ 450	17.4 x 8.5 x 5.5	1000	Min. 8.2	Min. 8.2

For additional details on Bourns® signal transformers, visit the Bourns website at <a href="www.bourns.com/products/magnetic-products/transformers-signal">www.bourns.com/products/magnetic-products/transformers-signal</a>. Should you have any questions, please contact <a href="Bourns Customer">Bourns Customer</a> Service/Inside Sales.

#### Features

- Planar technology for BMS signal applications
- Working voltage: up to 1000 VDC
- Hi-Pot: 4300 VDC or 3000 VAC
- Basic insulation compliant with IEC 60664-1/61558-1/62368-1 standards
- Clearance distance >8.2 mm, pollution degree 2, material group CTI I
- Creepage distance >8.2 mm, Overvoltage Category II
- Partial discharge level up to 1200 V per IEC 60664
- Tartial discharge level up to 1200 v per ile 00
- 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)

IC23142

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

<sup>\*\*</sup> 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.