



PRODUCT EXTENSION RELEASE

TBU® HIGH-SPEED PROTECTORS



Bourns Expands the AEC-Q101 Compliant, Automotive Grade Model TBU-CA-Q TBU® High-Speed Protector Series

Model TBU-CA065-050-WH-Q & TBU-CA085-100-WH-Q

Riverside, California – April 7, 2023 – Bourns, Inc., a leading manufacturer and supplier of electronic components, today introduced two additional AEC-Q101 compliant, automotive grade [TBU-CA-Q](#) models. The Model TBU-CA065-050-WH-Q and TBU-CA085-100-WH-Q are low capacitance, single bidirectional high-speed protection components, constructed using MOSFET semiconductor technology, and are designed to protect against faults caused by short circuits, AC power cross, induction and lightning surges.

Characteristics	TBU-CA065-050-WH-Q	TBU-CA085-100-WH-Q
Description	Single Bidirectional	
Max. Impulse Voltage (V)	650	850
Max. RMS Voltage (V)	300	425
Min. Trigger Current (mA)	50	100
Footprint (mm)	6.5 x 4.0	

The AEC-Q101 compliant Model TBU-CA-Q Series is designed for automotive applications like BMS, CANbus or LINbus where it provides protection from overcurrent and overvoltage events. The TBU® High-Speed Protector placed in the system circuit will monitor the current with the MOSFET detection circuit triggering to provide an effective barrier behind which sensitive electronics are not exposed to large voltages or currents during surge events, up to rated limits. The TBU® device is provided in a surface mount DFN package and is RoHS compliant* and halogen free**.

The product data sheet with detailed specifications can be viewed on the Bourns website at www.bourns.com. Please visit [www.bourns.com/products/circuit-protection/tbu-high-speed-protectors-\(hsps\)-aec-q101-compliant](http://www.bourns.com/products/circuit-protection/tbu-high-speed-protectors-(hsps)-aec-q101-compliant) for more information on AEC-Q101 compliant TBU® High-Speed Protectors.

* 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.

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Should you have any questions or need additional information, please contact [Bourns Customer Service/ Inside Sales](#).

Features

- Superior circuit protection
- Overcurrent and overvoltage protection
- Blocks surges up to rated limits
- High-speed performance
- Small SMT package
- Agency listing: 
- AEC-Q101 compliant
- RoHS compliant* and halogen free**
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Applications

- Voice / VDSL cards
- Protection modules and dongles
- Process control equipment
- Test and measurement equipment
- General electronics

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