

# BOURNS High Speed Protectors



Transient Protection

RoHS Compliant This product is RoHS compliant.

## TBU™ HIGH SPEED PROTECTORS

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 will not be exposed to large voltages or currents during surge events. The TBU™ device is provided in a surface mount DFN package and meets industry standard requirements such as RoHS and Pb Free solder reflow profiles.

- Features:**
- Superior circuit protection
  - Overcurrent and overvoltage protection
  - Blocks surges up to rated limits
  - High speed performance
  - Small SMT package

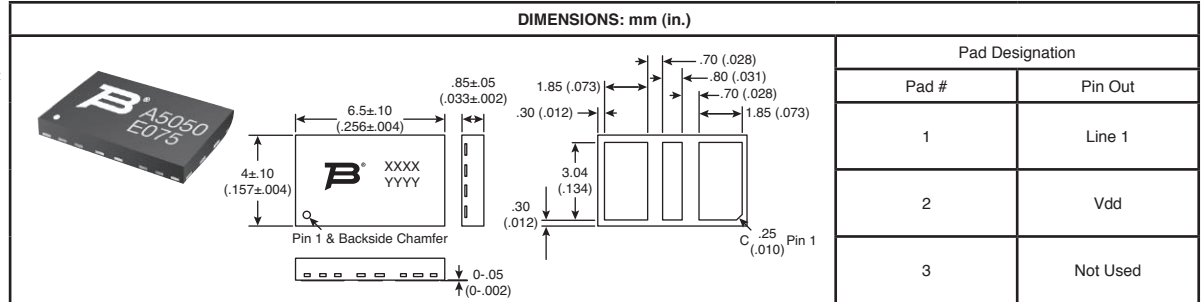
- Specifications:**
- Operating Temperature Range: -40°C to +125°C
  - Storage Temperature Range: -65°C to +150°C
  - Max. Junction Temperature: +125°C
  - ESD: IEC 61000-4-2

### TBU-CA Series

The TBU-CA Series of Bourns® TBU™ products are low capacitance single bidirectional high speed protection components, constructed using MOSFET semiconductor technology, and designed to protect against faults caused by short circuits, AC power cross, induction and lightning surges.

**Applications:**

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



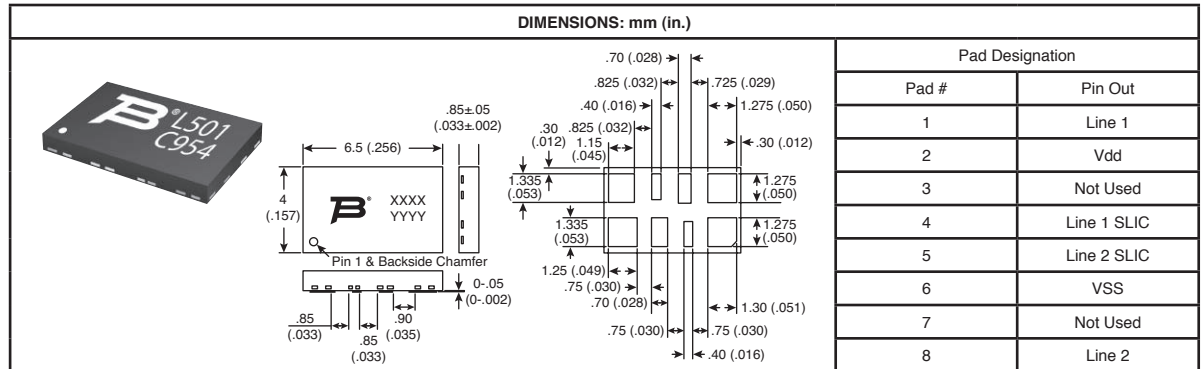
MOUSER STOCK NO.	Bourns Part No.	V <sub>imp</sub> (V)	V <sub>rms</sub> (V)	R <sub>TUB</sub> Max. (Ω)	Price Each			Reel Qty.	Price Per Piece
					1	500	1500		
652-TBU-CA025-050-WH	TBU-CA025-050-WH	250	100	15.3	1.79	1.51	1.24	3000	1.10
652-TBU-CA025-100-WH	TBU-CA025-100-WH	250	100	8.2	1.79	1.51	1.24	3000	1.10
652-TBU-CA025-200-WH	TBU-CA025-200-WH	250	100	4.8	1.79	1.51	1.24	3000	1.10
652-TBU-CA025-300-WH	TBU-CA025-300-WH	250	100	3.8	1.79	1.51	1.24	3000	1.10
652-TBU-CA025-500-WH	TBU-CA025-500-WH	250	100	3.0	1.79	1.51	1.24	3000	1.10
652-TBU-CA040-050-WH	TBU-CA040-050-WH	400	200	16.5	1.79	1.51	1.24	3000	1.10
652-TBU-CA040-100-WH	TBU-CA040-100-WH	400	200	9.4	1.79	1.51	1.24	3000	1.10
652-TBU-CA040-200-WH	TBU-CA040-200-WH	400	200	6.0	1.79	1.51	1.24	3000	1.10
652-TBU-CA040-300-WH	TBU-CA040-300-WH	400	200	5.0	1.79	1.51	1.24	3000	1.10
652-TBU-CA040-500-WH	TBU-CA040-500-WH	400	200	4.2	1.79	1.51	1.24	3000	1.10
652-TBU-CA050-050-WH	TBU-CA050-050-WH	500	250	18.0	1.79	1.51	1.24	3000	1.10
652-TBU-CA050-100-WH	TBU-CA050-100-WH	500	250	10.9	1.79	1.51	1.24	3000	1.10
652-TBU-CA050-200-WH	TBU-CA050-200-WH	500	250	7.5	1.79	1.51	1.24	3000	1.10
652-TBU-CA050-300-WH	TBU-CA050-300-WH	500	250	6.5	1.79	1.51	1.24	3000	1.10
652-TBU-CA050-500-WH	TBU-CA050-500-WH	500	250	5.7	1.79	1.51	1.24	3000	1.10
652-TBU-CA065-050-WH	TBU-CA065-050-WH	650	300	20.3	1.79	1.51	1.24	3000	1.10
652-TBU-CA065-100-WH	TBU-CA065-100-WH	650	300	13.2	1.79	1.51	1.24	3000	1.10
652-TBU-CA065-200-WH	TBU-CA065-200-WH	650	300	9.8	1.79	1.51	1.24	3000	1.10
652-TBU-CA065-300-WH	TBU-CA065-300-WH	650	300	8.8	1.79	1.51	1.24	3000	1.10
652-TBU-CA065-500-WH	TBU-CA065-500-WH	650	300	8.0	1.79	1.51	1.24	3000	1.10
652-TBU-CA085-050-WH	TBU-CA085-050-WH	850	425	24.5	1.79	1.51	1.24	3000	1.10
652-TBU-CA085-100-WH	TBU-CA085-100-WH	850	425	17.4	1.79	1.51	1.24	3000	1.10
652-TBU-CA085-200-WH	TBU-CA085-200-WH	850	425	14.0	1.79	1.51	1.24	3000	1.10
652-TBU-CA085-300-WH	TBU-CA085-300-WH	850	425	13.0	1.79	1.51	1.24	3000	1.10
652-TBU-CA085-500-WH	TBU-CA085-500-WH	850	425	12.2	1.79	1.51	1.24	3000	1.10

### TBU-PL Series

The TBU-PL Series of Bourns® TBU™ products are low capacitance dual bidirectional high speed protection components, constructed using MOSFET semiconductor technology, and designed to protect against faults caused by short circuits, AC power cross, induction and lightning surges. In addition to overcurrent protection, an added feature is the voltage monitoring on the two lines. If the voltage on the line drops below V<sub>SS</sub> then the voltage will trigger the device to switch to the blocking state.

**Applications:**

- SLIC protection
- Cable & DSL
- MDU/MTU modems
- ONT
- Voice/DSL cards



MOUSER STOCK NO.	Bourns Part No.	V <sub>imp</sub> (V)	V <sub>rms</sub> (V)	R <sub>TUB</sub> Max. (Ω)	Price Each			Reel Qty.	Price Per Piece
					1	500	1500		
652-TBU-PL050-100-WH	TBU-PL050-100-WH	500	300	55	1.17	.99	.90	3000	.81
652-TBU-PL050-200-WH	TBU-PL050-200-WH	500	300	55	1.17	.99	.90	3000	.81
652-TBU-PL060-100-WH	TBU-PL060-100-WH	600	350	55	1.17	.99	.90	3000	.81
652-TBU-PL060-200-WH	TBU-PL060-200-WH	600	350	55	1.17	.99	.90	3000	.81
652-TBU-PL085-100-WH	TBU-PL085-100-WH	850	425	55	1.17	.99	.90	3000	.81
652-TBU-PL085-200-WH	TBU-PL085-200-WH	850	425	55	1.17	.99	.90	3000	.81



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