

# Featured Products Bulletin

## GAS DISCHARGE TUBES



### Bourns Releases New Gas Discharge Tube Model 2020 T Series

Riverside, California - March 4, 2011 - Bourns is pleased to announce the release of the 2020 T Series *fast response* Gas Discharge Tubes (GDTs) designed for use with Bourns® TBU® High-Speed Protectors.

The newly released part numbers and specifications are:

Part Number	DCBD (V)	Size (mm)	5 kV/ $\mu$ s Impulse Voltage (V)	Used with TBU® Series
2020-15T	60	8 x 11.2	500	TBU-CA050
2020-23T	180		650	TBU-CA065
2020-42T	360		850	TBU-CA085

The 2020 T Series and Bourns® TBU® High-Speed Protectors are an ideal protection solution for a broad number of industrial applications as well as telecom applications requiring GR-1089 or ITU-T K.21 compliance. The Bourns® 2020 T Series is also available with an optional fail-short mechanism for applications requiring UL safety standard compliance.

These GDT devices provide coordinated overvoltage protection for the specified TBU® protector models shown in the above table. Together, the GDT and TBU® protectors provide extremely fast overcurrent protection (OCP) and overvoltage protection (OVP) against electrical transients. When exposed to a transient event, the TBU® protector will transition into a current-blocking condition in less than one microsecond at the rated current. When needed, the GDT will transition into conduction at a voltage below its maximum impulse rating, protecting the TBU® device from overvoltage and shunting the excess surge energy to ground. Once the transient subsides, the GDT and TBU® device will reset to their normal off-state modes of operation.

The new models are available as RoHS\* compliant. The product data sheet with detailed specifications can be viewed on the Bourns website at [www.bourns.com](http://www.bourns.com). Please contact [your local Bourns Representative](#) or [Bourns Customer Service](#) for samples or for further information.

#### Features

- Fast acting
- Balanced
- Stable breakdown throughout life
- Designed to operate with TBU® devices
- RoHS compliant\* versions available

#### Applications

- Telecommunications
- Industrial electronics
- Avionics

\*RoHS Directive 2002/95/EC Jan 27, 2003 including Annex.

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