

## New Product Release

GAS DISCHARGE TUBES



### Bourns Releases New Gas Discharge Tube Surge Arrestor with FLAT® Technology Model 2011

Riverside, California - December 17, 2018 - Bourns is pleased to announce the release of the [Model 2011 Series Gas Discharge Tube \(GDT\) Surge Arrestor with FLAT® technology](#). Bourns sets a new industry standard by offering a 2-electrode in an innovative flat-package design. Bourns' FLAT® technology delivers a low profile GDT solution for high density and height-restricted PCB applications.

The 2011 Series is a fast acting GDT designed for use with a [Bourns® TBU® High-Speed Protector \(HSP\)](#). The series is designed to limit high rate of rise voltage transients to levels below the TBU® device's maximum voltage impulse rating ( $V_{imp}$ ). The new 2011 GDT along with the TBU® HSP is an ideal protection solution for RS-485 applications. It should be noted the 2011 series is suitable for use in any applications requiring small size, robust current handling and superior voltage limiting.

The Model 2011 Series is designed as a surface mount device and offers a large flat surface making it suitable for high-speed pick and place using a vacuum head pickup.

Please visit the Bourns website at [https://www.bourns.com/products/circuit-protection/gas-discharge-tube-\(gdt\)-surge-arrestors/2-electrode-gdts/flat-series](https://www.bourns.com/products/circuit-protection/gas-discharge-tube-(gdt)-surge-arrestors/2-electrode-gdts/flat-series) for details on Bourns® 2-Electrode GDTs with FLAT® Technology. If you have any questions, please contact [Bourns Customer Service/Inside Sales](#).

#### Benefits

- Significant height reduction compared to standard 5 mm SMD GDT
- Devices do not impact signal or system operation
- Voltage limiting suitable for sensitive equipment and for use with the TBU® High-Speed Protector
- Long term reliability and performance
- RoHS compliant\*
- Halogen free\*\*

#### Features

- Large flat top surface and lighter weight, ideal for high-speed pick and place
- Robust current rating
- Stable performance over life
- Low leakage
- Constant capacitance regardless of voltage
- Low arc voltage

#### Applications

- Telecom equipment
- Industrial communications
- Surge Protective Devices
- High density PCB assemblies

\* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

\*\* 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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