

## New Product Release

CIRCUIT PROTECTION PRODUCTS



### Bourns Introduces Innovative Line of



### Hybrid Overvoltage Protection Components

Riverside, California – April 29, 2019 – Bourns is introducing the company's innovative [GMOV™](#) line of hybrid overvoltage protection components combining the patented, space-saving [FLAT™](#) Gas Discharge Tube (GDT) technology with a Metal Oxide Varistor (MOV) to create a compact and enhanced overvoltage protector that is a drop-in replacement for standard 14 and 20 mm MOVs.

Bourns designed its new GMOV™ family to be an enhanced protection solution that helps overcome degradation and catastrophic failure issues that can occur in discrete MOVs that are subjected to transient surges or temporary overvoltage exceeding their maximum rated values. The GDT is used to isolate the MOV from the line voltage so it remains “on call but not on duty,” thereby shielding it from transients and temporary overvoltage spikes that typically damage the MOV over time. Another significant benefit of combining the two technologies is that the GMOV™ device offers ultra-low leakage (<0.1  $\mu$ A) helping to reduce damage due to watt loss heating. The result is a higher reliability protection solution with virtually zero standby energy consumption.

GMOV™ products are currently offered in 14 and 20 mm versions with RMS ratings ranging from 45 Vrms to 320 Vrms. The 14 mm version has a maximum surge current rating of 6 kA on an 8/20  $\mu$ s current waveform, while the 20 mm version tops out at a robust 10 kA.

Bourns® 14 and 20 mm GMOV™ products are available now, and are UL 1449 Type 5 recognized and RoHS compliant\*. For more detailed information about the benefits Bourns® GMOV™ devices can provide, please see the white paper: [www.bourns.com/docs/technical-documents/technical-library/gmov/Bourns\\_Meeting\\_Sustained\\_Overvoltage\\_Protection\\_with\\_Hybrid\\_Drop-In\\_Replacement\\_GMOV\\_White\\_Paper.pdf](http://www.bourns.com/docs/technical-documents/technical-library/gmov/Bourns_Meeting_Sustained_Overvoltage_Protection_with_Hybrid_Drop-In_Replacement_GMOV_White_Paper.pdf) or visit the Bourns website at [www.bourns.com/products/circuit-protection/GMOV](http://www.bourns.com/products/circuit-protection/GMOV).

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

#### Features

- Hybrid design
- Compact form factor
- Matched MOV-GDT pairings
- Bourns® GDT with FLAT® technology

#### Benefits

- GDT isolates MOV from line voltages
- Zero standby energy consumption and leakage
- Low capacitance
- Recognized to UL 1449, 4th edition
- Meets IEEE 62.41 Ring Wave Test

#### Applications

- LED lighting
- Surge Protective Devices (SPDs)
- Chargers
- Power supplies
- Consumer appliances
- Communications equipment

GDT1830