## NEW PRODUCT BRIEF

## Bourns ${ }^{\circledR}$ Next-Generation High Voltage 2-Electrode Gas Discharge Tube

## INTRODUCTION

Bourns is pleased to announce the addition of a new series to its innovative next-generation 2-Electrode GDT line, the Model GDT28H. This next-generation series continues the Bourns legacy of quality, innovation and design in GDT overvoltage surge arrestors.

Complementary to Bourns' previous nextgeneration GDT25 and GDT35 Series releases, this new high voltage range GDT provides significant improvements in protection from voltage transients caused by lightning and other AC power lines disturbances

The compact Model GDT28H nextgeneration series accomplishes this by providing an enhanced level of voltage limiting during fast rising events with high surge current handling capabilities.

These features enable the GDT28H Series to be a great fit for the protection of AC lines and isolation applications according to IEC 62368-1. The new series is RoHS compliant* and UL recognized.

CIRCUIT DIAGRAM


## HOW TO ORDER

GDT-2-8-H - $x x$ - $B$ - RP
Description
GDT = Gas Discharge Tube -Next-Generation Series
Electrodes
$2=2$-Electrodes
Size
$8=8 \mathrm{~mm}$ Diameter
Voltage Designator $\mathrm{H}=$ High Voltage
Voltage
$100=1000 \mathrm{~V} \quad 200=2000 \mathrm{~V}$
$110=1100 \mathrm{~V} \quad 250=2500 \mathrm{~V}$
$120=1200 \mathrm{~V} \quad 270=2700 \mathrm{~V}$
$130=1300 \mathrm{~V} \quad 300=3000 \mathrm{~V}$
$150=1500 \mathrm{~V} 330=3300 \mathrm{~V}$
Lead Designator
A = No Leads
B = Straight Leads
Packaging Options
RP = Reel Pack (Standard)
Blank $=$ Bulk

## FEATURES \& BENEFITS

- Fast response time
- High surge current rating
- Long service life
- Stable performance throughout life
- UL recognized

- RoHS compliant*


## APPLICATIONS

- Power supplies
- Industrial communication equipment
- HVAC
- Lighting
- IEC 62368-1 compliant equipment


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## ELECTRICAL CHARACTERISTICS

Test Methods per ITU-T K.12, IEEE C62.31 and IEC 61643-311 GDT standards.


Notes:

1) Test conducted in series with suitable MOV per UL1449 Edition 4
(2) $2 x[1(+)$ and $1(-)$ operation $10 \mathrm{kA} @ 80 / 20 \mu \mathrm{~s}]$.
(3) DC and Impulse Sparkover after Life Ratings may exceed the upper limits shown but will continue to
protect without venting (in compliance with ITU-T K. 12 Edition 9.0 , Section 6, as applicable).

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