

High Voltage Series

TE Circuit Protection 8mm 2Pole high voltage GDTs (ceramic gas discharge tubes), are commonly used to help protect high voltage circuits.

TE Circuit Protection high voltage GDTs offer a high level of surge protection, low capacitance and a broad array of break over voltage levels, making them suitable for applications such as branch circuits, medical electronics and surge protection on power lines. TE Circuit Protection GDTs can help equipment meet the most stringent regulatory standards.



Benefits:

- Helps provide overvoltage fault protection against high energy surges

Features:

- 2Pole, 8mm Axial and non Leaded devices
- Broad voltage range from 800-4000V
- Low capacitance
- Crowbar overvoltage protection
- UL 1449 recognized
- RoHS compliant
- Non-radioactive materials
- Capable up to 10kA 8/20 μ s surge

Applications:

- Power Supplies
- Commercial Installations
- Medical Electronics
- Industrial Equipment and Machinery
- Appliance (Hi-Pot)

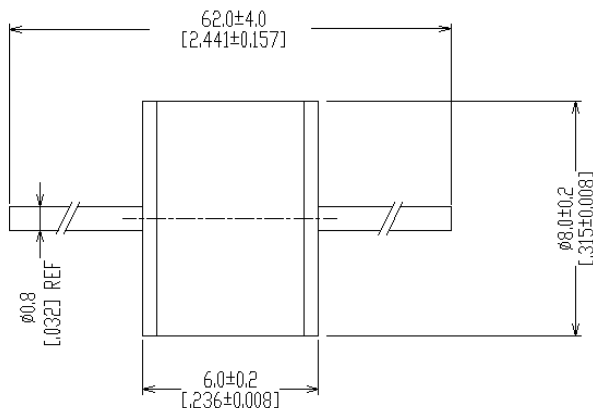
High Voltage Series

Device Voltage Ratings, Surge Rating, Capacitance, Insulation Resistance, UL

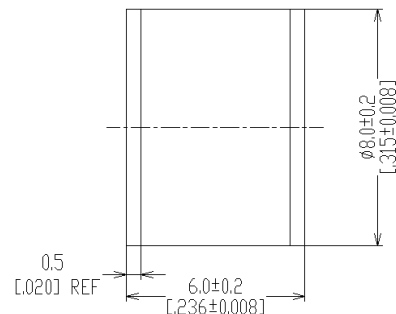
TE Part Description	DC Sparkover	Impulse Sparkover	Insulation Resistance	Capacitance	Impulse Discharge Current, 8/20us		AC Discharge Current, 50 Hz		UL Rating
	± 20% @100V/s (V)	100 V/μs (V)	500Vdc (MΩ)	1MHz (pF)	10 hits	1 hit	10 hits, 1S	1 hit, 9 cycles	
GTCX28-801M-R05	800	1400	≥ 10,000	≤1	5kA	10kA	5A	N/A	All Devices
GTCX28-102M-R03	1000	1700	≥ 10,000	≤1	3KA	10kA	1A	5A	All Devices
GTCX28-122M-R03	1200	1900	≥ 10,000	≤1	3KA	10kA	1A	5A	All Devices
GTCX28-152L-R03	1500(± 15%)	2200	≥ 10,000	≤1	3KA	10kA	1A	5A	All Devices
GTCX28-212M-R03	2100	2700	≥ 10,000	≤1	3KA	10kA	1A	5A	All Devices
GTCX28-242M-R03	2400	3300	≥ 10,000	≤1	3KA	10kA	1A	5A	All Devices
GTCX28-252M-R03	2500	3500	≥ 10,000	≤1	3KA	10kA	1A	5A	All Devices
GTCX28-272L-R03	2700 (± 15%)	3700	≥ 10,000	≤1	3KA	10kA	1A	5A	All Devices
GTCX28-302M-R03	3000	4000	≥ 10,000	≤1	3KA	10kA	1A	5A	All Devices
GTCX28-312L-R03	3100 (± 15%)	4300	≥ 10,000	≤1	3KA	10kA	1A	5A	All Devices
GTCX28-362M-R03	3600	4600	≥ 10,000	≤1	3KA	10kA	1A	5A	All Devices
GTCX28-402M-R03	4000	5000	≥ 10,000	≤1	3KA	10kA	1A	5A	All Devices

Product Dimensions:

Axial Leads (GTCA28-XXXX-R0X)



No Leads (GTCN28-XXXX-R0X)



DIMENSIONS = MILLIMETERS [INCHES]

High Voltage Series

General Characteristics:

No Radioactive Materials
 Storage temperature: -40°C ... +90°C
 Operating temperature: -40°C ... +90°C
 Electrode: Fe-Ni alloy, Ni plated
 Lead wire: Tin Plated Copper

Materials Information

ROHS Compliant

Directive 2002/95/EC
Compliant

ELV Compliant

Directive 2000/53/EC
Compliant

Pb-Free



Packaging Information

Part Description

Axial Leads: GTCA28-XXXX-R0X
 No Leads: GTCN28-XXXM-R0X

Tray / Reel

100
100

Standard Package

1000
2000

Part Numbering System

Example Part Number: GTCA28-212M-R03

GT = Gas Tube
 C = Ceramic
 A = A= Axial Leads
 2 = 2 Electrode device
 8 = 8mm Diameter
 212= DC Spark Over Voltage of 2100V (at 100V/s)
 M = Tolerance of 20% on DC Spark Over Voltage
 R = Product Family Designator
 03 = Surge rating: 8x20Es 3kA 10 times

High Voltage Series

Part Marking Reference

Example Part Marking: **⌘ 212 R03 HB**

⌘ =	Manufacturer' Mark
212 =	Voltage Designator (212 = 2100V)
R03 =	Product Family Designator - Surge Current 3kA (8x20μs 10 hits)
HB =	Year and Week of Manufacture

Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Tyco Electronics Corporation and its affiliates in the TE Connectivity Ltd. group of companies ("TE") reserves the right to change or update, without notice, any information contained in this publication; to change, without notice, the design, construction, processing, or specification of any product; and to discontinue or limit production or distribution of any product. This publication supersedes and replaces all information previously supplied. Without expressed or written consent by an officer of TE, TE does not authorize the use of any of its products as components in nuclear facility applications, aerospace, or in critical life support devices or systems. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. TE' only obligations are those in the TE Standard Terms and Conditions of Sale and in no case will TE be liable for any incidental, indirect, or consequential damages arising from the sale, resale, use, or misuse of its products.

© 2011 Tyco Electronics Corporation, a TE Connectivity Ltd. company. All rights reserved.