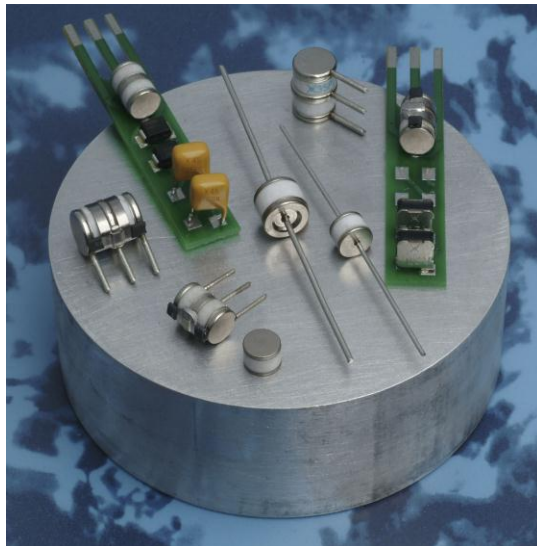


Raychem Circuit Protection 7mm 3Pole GDTs (ceramic gas discharge tubes), are commonly used to help protect sensitive telecom equipment such as communication lines, signal lines and data transmission lines from damage caused by transient surge voltages that typically result from lightning strikes and equipment switching operations.

Raychem Circuit Protection GDTs offer a high level of surge protection, low capacitance and a broad array of breakover voltage levels, making them suitable for applications such as MDF (Main Distribution Frame) modules, high data-rate telecom applications (e.g. ADSL, VDSL), and surge protection on power lines. Raychem Circuit Protection GDTs can help equipment meet the most stringent regulatory standards.



Benefits:

- Helps provide overvoltage fault protection against high energy surges
- Suitable for high-frequency applications

Features:

- 3Pole, 7mm devices
- Broad voltage range from 75V-600V
- Various form factors: surface-mount, leaded, no leads
- Optional fail-short mechanism on some devices
- Low capacitance and insertion loss
- Crowbar overvoltage protection
- UL 497B recognized
- RoHS compliant
- Devices tested per ITU K.12 recommendations
- Non-radioactive materials

Applications:

- Telecommunications
 - MDF modules, xDSL equipment, RF system protection, antenna, base station
- Industrial and consumer electronics, such as
 - Surge protectors
 - Alarm system

GTCX37-XXM-R10 Series

Device Voltage Ratings and Part Marking

Part Number	DC Sparkover	Impulse Sparkover		DC Holdover Voltage	On-State Voltage
	@100V/s ±20% Tolerance (V)	@100 V μ s (V)	@1000 V μ s (V)	Per ITU K.12 (<150ms) (V)	Nominal (@ 1A) (V)
GTCX37-750M-R10	75	450	550	<52	20
GTCX37-900M-R10	90	450	550	<52	20
GTCX37-141M-R10	140	500	600	<80	20
GTCX37-151M-R10	150	500	600	<80	20
GTCX37-201M-R10	200	600	700	<135	20
GTCX37-231M-R10	230	600	700	<135	20
GTCX37-251M-R10	250	600	700	<135	20
GTCX37-261M-R10	260	700	800	<135	20
GTCX37-301M-R10	300	800	900	<150	20
GTCX37-351M-R10	350	900	1000	<150	20
GTCX37-401M-R10	400	900	1000	<150	20
GTCX37-421M-R10	420	900	1000	<150	20
GTCX37-471M-R10	470	1050	1150	<150	20
GTCX37-501M-R10	500	1100	1200	<150	20
GTCX37-551M-R10	550	1300	1400	<150	20
GTCX37-601M-R10	600	1300	1400	<150	20

Device Surge Rating, Capacitance, Insulation Resistance, UL

Part Number	Impulse Discharge Current	Impulse Life	AC Discharge Current (1sec duration; 10 hits)	Capacitance	Insulation Resistance	UL Rating
	8x20 μ s 10 hits	10x1000 μ s 300 hits	@50 Hz	@1Mhz	@100V*	UL497B #E179610
GTCX37-XXM-R10	10kA	200A	10Arms	<1pF	10,000 (M Ω)	All Devices

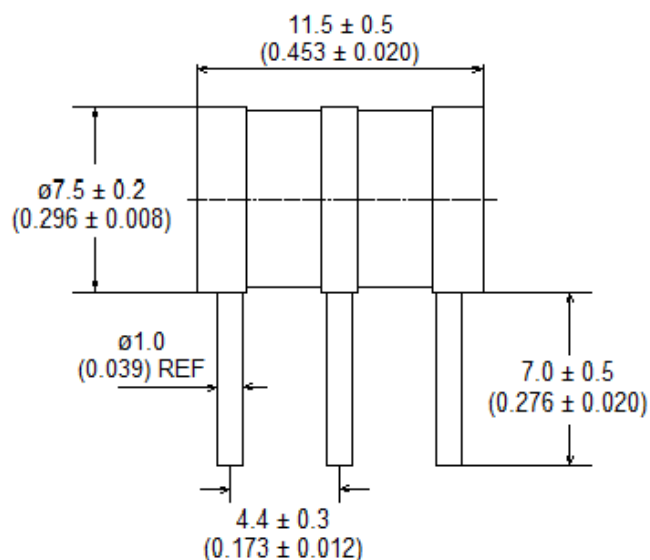
* Devices <=90V measured @ 50V.
 Devices >= 500V measured @ 250V

GTCX37-XXXM-R10 Series

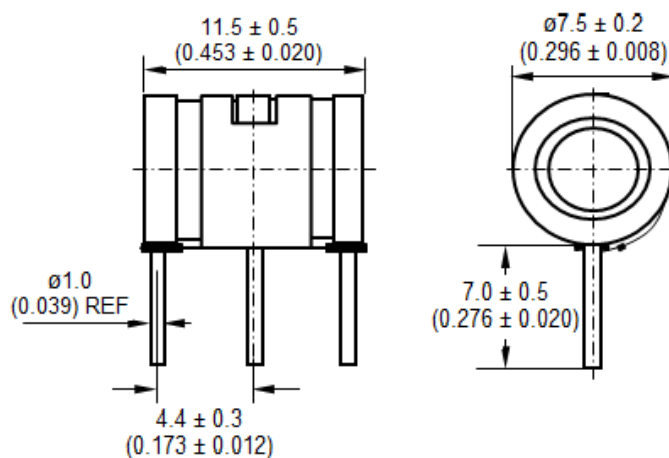
Product Dimensions

DIMENSIONS = MILLIMETERS [INCHES]

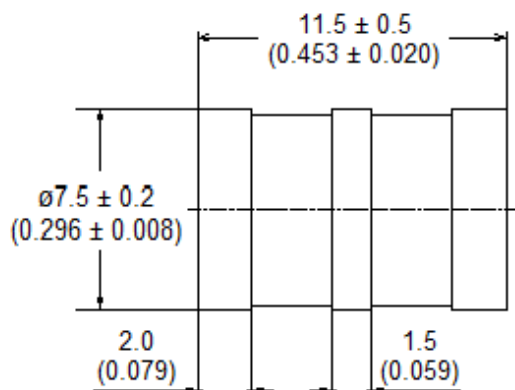
Radial Leaded (GTCR37-XXXM-R10)



Radial Leaded with-FS (GTCR37-XXXM-R10-FS2)



No Leads (GTCN37-XXXM-R10)



GTCX37-XXXM-R10 Series

General Characteristics

No Radioactive Material

Storage Temperature: -40°C to +90°C

Operating Temperature: -40°C to +90°C

Body: Nickel Plated

Leads: Tin Plated (Radial Devices)

Devices with no leads: Nickel Plated

Soldering Notes: Devices with no leads: non-solderable; suitable for insertion into a magazine clip

Materials Information

RoHS Compliant

ELV Compliant

Directive 2002/95/EC
Compliant

Directive 2000/53/EC
Compliant

Packaging Information

Part Description

No Leaded: GTCN37-XXXM-R10
With Leads: GTCR37-XXXM-R10(-FS)

Tray / Reel

100pcs (Tray)
100pcs (Tray)

Standard Package

1,000pcs
1,000pcs

Part Numbering System

Example Part Number: GTCX37-351M-R10-FS

GT = Gas Tube
C = Ceramic
X = Lead Configuration: N= No leads; R= Radial Leads

3 = 3 Electrode device
7 = 7mm Diameter
351 = DC Spark Over Voltage of 350V (at 100V/s)
M = Tolerance of 20% on DC Spark Over Voltage
R = Product Family Designator
10 = Surge rating: 8x20μs 10kA 10 times
FS = With Fail-Short mechanism

GTCX37-XXXM-R10 Series

Part Marking Reference

Example Part Marking: **XX 35 R10 GN**

XX =	Manufacture Mark
35 =	Voltage Designator (35 = 350V)
R10 =	Product Family Designator + Surge Current 10kA (8x20μs 10 hits)
GN =	Year and Week of Manufacture



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