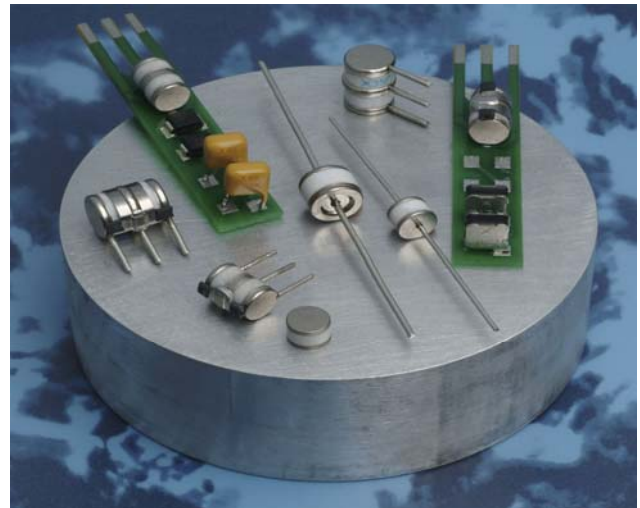


TE Circuit Protection 6mm 2Pole GDTs (ceramic gas discharge tubes), are commonly used to help protect sensitive telecom equipment such as communication lines, signal lines and data transmission lines from damage caused by transient surge voltages that typically result from lightning strikes and equipment switching operations.

TE 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:

- Compact, small form factor suitable for efficient assembly
- Helps provide overvoltage fault protection against high energy surges
- Suitable for high-frequency applications

Features:

- 2Pole, 6mm devices
- Broad voltage range from 75V-600V
- Various form factors: surface mount, axial leads, no leads
- Low capacitance and insertion loss
- 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

GTCX26-XXM-R05 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/μs (V) | @1000 V/μs (V) | Per ITU K.12 (<150ms) (V) | Nominal (@ 1A) (V) |
| GTCX26-750M-R05 | 75 | 450 | 550 | <52 | 20 |
| GTCX26-900M-R05 | 90 | 450 | 550 | <52 | 20 |
| GTCX26-141M-R05 | 140 | 500 | 600 | <80 | 20 |
| GTCX26-151M-R05 | 150 | 500 | 600 | <80 | 20 |
| GTCX26-201M-R05 | 200 | 600 | 700 | <135 | 20 |
| GTCX26-231M-R05 | 230 | 600 | 700 | <135 | 20 |
| GTCX26-251M-R05 | 250 | 600 | 700 | <135 | 20 |
| GTCX26-261M-R05 | 260 | 700 | 800 | <135 | 20 |
| GTCX26-301M-R05 | 300 | 800 | 900 | <150 | 20 |
| GTCX26-351M-R05 | 350 | 900 | 1000 | <150 | 20 |
| GTCX26-401M-R05 | 400 | 900 | 1000 | <150 | 20 |
| GTCX26-421M-R05 | 420 | 900 | 1000 | <150 | 20 |
| GTCX26-471M-R05 | 470 | 1050 | 1150 | <150 | 20 |
| GTCX26-501M-R05 | 500 | 1100 | 1200 | <150 | 20 |
| GTCX26-551M-R05 | 550 | 1300 | 1400 | <150 | 20 |
| GTCX26-601M-R05 | 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 |
|----------------|---------------------------|-----------------------|---|-------------|-----------------------|--------------------|
| | 8x20μs 10 hits | 10x1000μs 300 hits | @50 Hz | @1Mhz | @100V* | UL497B #E179610 |
| GTCX26-XXM-R05 | 5kA | 100A | 5Arms | <1pF | 10,000 (MΩ) | All Devices |

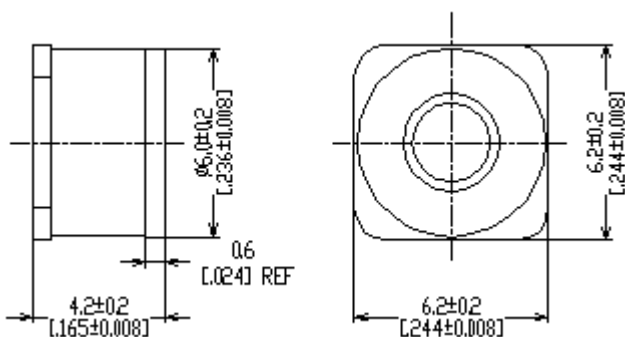
Devices <=90V measured @ 50V
Devices >=500V measured @ 250V

GTCX26-XXM-R05 Series

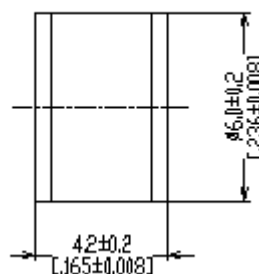
Product Dimensions

DIMENSIONS = MILLIMETERS [INCHES]

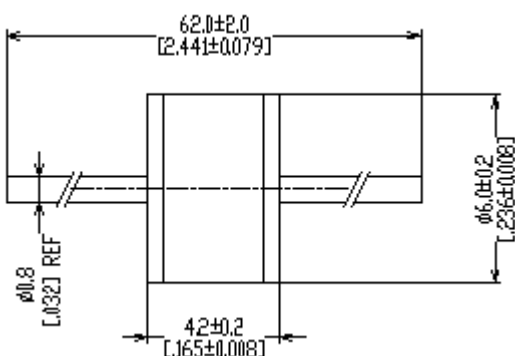
Surface-mount (GTCS26-XXM-R05)



No Leads (GTCN26-XXM-R05)

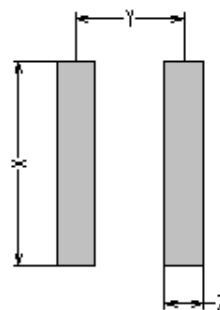


Axial Leads (GTCA26-XXM-R05)



Pad Layout – Surface-mount Devices (GTCS26-XXM-R05)

| | X | Y | Z |
|------|---------|---------|---------|
| | NOM | NOM | NOM |
| mm: | 7.0 | 3.7 | 1.3 |
| in*: | (0.276) | (0.146) | (0.051) |



GTCX26-XXM-R05 Series

General Characteristics

No Radioactive Material

Storage Temperature: -40°C to +90°C

Operating Temperature: -40°C to +90°C

Body: Nickel Plated

Leads: Surface-mount, Axial Devices: Tin Plated

Devices with No Leads: Nickel Plated

Soldering Note: Devices with no leads are non-solderable; meant for insertion into magazine clips

Packaging Information

| Part Description | | Tray / Reel | Standard Package |
|----------------------|------------------|-------------|------------------|
| No Leads: | GTCN26-XXM-R05 | 100pcs | 2,000pcs |
| Axial Leads: | GTCA26-XXM-R05 | 100pcs | 1,000pcs |
| Surface-mount: | GTCS26-XXM-R05 | 100pcs | 2,000pcs |
| Surface-mount (T&R): | GTCS26-XXM-R05-2 | 750pcs | 6000pcs |

Part Numbering System

Example Part Number: GTCX26-351M-R05

| | |
|-------|---|
| GT = | Gas Tube |
| C = | Ceramic |
| X = | Lead Configuration: N = No leads; A = Axial Leads; S = Surface-mount |
| 2 = | 2 Electrode device |
| 6 = | 6mm Diameter |
| 351 = | DC Spark Over Voltage of 350V (at 100V/s) |
| M = | Tolerance of 20% on DC Spark Over Voltage |
| R = | Product Family Designator |
| 05 = | Surge rating: 8x20µs 5kA 10 times |

GTCX26-XXM-R05 Series

Part Marking Reference

Example Part Marking: X 35 R05 GN

| | | |
|-----|---|--|
| X | = | Manufacture Mark |
| 35 | = | Voltage Designator (35 = 350V) |
| R05 | = | Product Family Designator + Surge Current 5kA (8x20μs 10 hits) |
| GN | = | Year and Week of Manufacture |



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