

Gas Discharge Tubes GTCX26-XXXM-R05 Series

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-XXXM-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

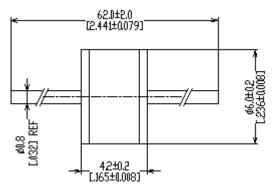
Part Number	Impulse Discharge Current	Impulse Life	AC Discharge Current (1sec duration; 10 hits)	Capacitance	Insulation Resistance	UL Rating
	8x20µs 10 hits	10x1000µs 300 hits	@50 Hz	@1Mhz	@100V*	UL497B #E179610
GTCX26-XXXM-R05	5kA	100A	5Arms	<1pF	10,000 (MΩ)	All Devices

Devices >=500V measured @ 250V

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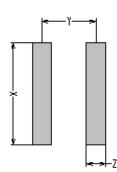


GTCX26-XXXM-R05 Series **Product Dimensions DIMENSIONS = MILLIMETERS [INCHES]** Surface-mount (GTCS26-XXXM-R05) 6.2±0.2 [.244±0.008] ۵6 [.024] REF 42±0,2 4.2±02 [(.165±0.008]] 6.2±02 1.165±0.0081 C244±0.0083 Axial Leads (GTCA26-XXXM-R05)



Pad Layout - Surface- mount Devices (GTCS26-XXXM-R05)

	Х	Y	Z
	NOM	NOM	NOM
mm:	7.0	3.7	1.3
in*:	(0.276)	(0.146)	(0.051)



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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	ı	Tray / Reel	Standard Package
No Leads:	GTCN26-XXXM-R05	100pcs	2,000pcs
Axial Leads:	GTCA26-XXXM-R05	100pcs	1,000pcs
Surface-mount:	GTCS26-XXXM-R05	100pcs	2,000pcs
Surface-mount (T&F	R): GTCS26-XXXM-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



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Part Marking Reference

Example Part Marking: 💥 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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