

GENERAL DESCRIPTION

BENEFITS

- · Helps provide overvoltage fault protection against high energy surges
- Suitable for sensitive equipment due to excellent impulse sparkover response
- Suitable for high-frequency applications
- Highly reliable performance

FEATURES

- · Crowbar device with low arc-voltage
- · Low capacitance and insertion loss
- · High accuracy spark-over voltages for high precision designs
- Tested per ITU K.12 recommendations
- Non-radioactive materials

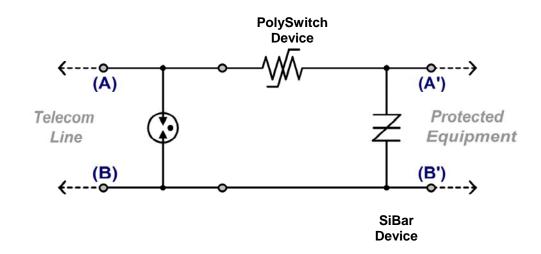
APPLICATIONS

- Telecommunications:
 - MDF modules, xDSL equipment, RF system protection
- Industrial Electronics and Commercial Electronics, such as
 Power Supplies, Surge Protectors, Alarm systems

SYMBOL

TYPICAL APPLICATION SCHEMATIC





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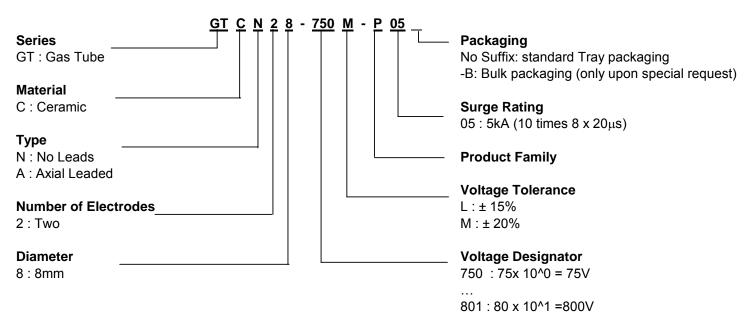
Raychem Overvoltage Devices

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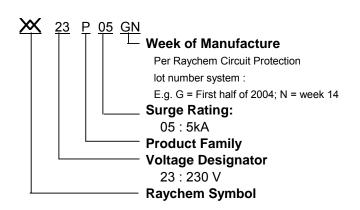
PART NUMBERING

EXAMPLE:



DEVICE MARKING

EXAMPLE : GTCA28-231L-P05:





GENERAL CHARACTERISTICS

No Radioactive Material

Storage temperature: -40°C ... +90°C

Operating temperature: -40°C ... + 90°C

Body : Nickel Plated

Leads : Tin Plated

UL 497B Pending

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DEVICE RATINGS AND CHARACTERISTICS

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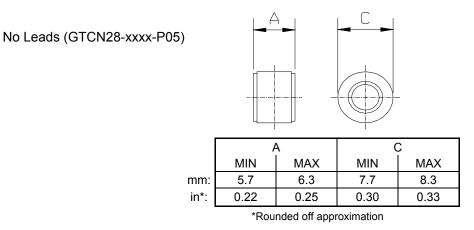
	DC Sparkover Voltage	Impulse S Volt		Insulation Resistance	Capacitance	DC Holdover Voltage	Impulse Life		Discharge t 8/20 µs	AC Dis Current	charge , 50 Hz
Part Number	@ 100V/s	@ 100V/µs	@ 1kV/µs	@ 100V	@ 1MHz	Per ITUK.12	10/1000 µs, 500A	Single Hit	Repeat 10 times (5 times each polarity)	Single Hit, 9 Cycles	Repeat (1s interval)
GTCN28-750M-P05 GTCA28-750M-P05	75V ± 20%	≤ 500V	≤ 700V	≥ 10,000MΩ ¹	≤ 1.0pF	≤ 52V	300 times	10kA	5kA	65A	10A, 5 times
GTCN28-900M-P05 GTCA28-900M-P05	90V ± 20%	≤ 500V	≤ 700V	≥ 10,000MΩ ¹	≤ 1.0pF	≤ 52V	300 times	10kA	5kA	65A	10A, 5 times
GTCN28-151M-P05 GTCA28-151M-P05	150V ± 20%	≤ 500V	≤ 700V	≥ 10,000MΩ ¹	≤ 1.0pF	≤ 80V	300 times	10kA	5kA	65A	10A, 5 times
GTCN28-231L-P05 GTCA28-231L-P05	230V ± 15%	≤ 600V	≤ 750V	≥ 10,000MΩ	≤ 1.0pF	≤ 135V	300 times	10kA	5kA	65A	10A, 5 times
GTCN28-251L-P05 GTCA28-251L-P05	250V ± 15%	≤ 600V	≤ 800V	≥ 10,000MΩ	≤ 1.0pF	≤ 135V	300 times	10kA	5kA	65A	10A, 10times
GTCN28-301L-P05 GTCA28-301L-P05	300V ± 15%	≤ 700V	≤ 850V	≥ 10,000MΩ	≤ 1.0pF	≤ 150V	300 times	10kA	5kA	65A	10A, 10times
GTCN28-351L-P05 GTCA28-351L-P05	350V ± 15%	≤ 700V	≤ 850V	≥ 10,000MΩ	≤ 1.0pF	≤ 150V	300 times	10kA	5kA	65A	10A, 10times
GTCN28-401L-P05 GTCA28-401L-P05	400V ± 15%	≤ 700V	≤ 850V	≥ 10,000MΩ	≤ 1.0pF	≤ 150V	300 times	10kA	5kA	65A	10A, 10times
GTCN28-471L-P05 GTCA28-471L-P05	470V ± 15%	≤ 700V	≤ 850V	≥ 10,000MΩ ²	≤ 1.0pF	≤ 150V	300 times	10kA	5kA	65A	10A, 10times
GTCN28-601L-P05 GTCA28-601L-P05	600V ± 15%	≤ 800V	≤ 1,000V	≥ 10,000MΩ ²	≤ 1.0pF	≤ 150V	300 times	10kA	5kA	65A	10A, 10times
GTCN28-801L-P05 GTCA28-801L-P05	800V ± 15%	≤ 1,000V	≤ 1,200V	≥ 10,000MΩ ²	≤ 1.0pF	≤ 150V	300 times	10kA	5kA	65A	10A, 10times

Note 1. Insulation Resistance at 50 $V_{\text{DC}}.$

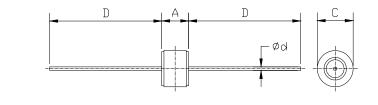
Note 2. Insulation Resistance at 250 V_{DC} .



DIMENSIONS



Axial Leads (GTCA28-xxxx-P05)



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	MIN	MAX	MIN	MAX	MIN	MAX	NOM
mm:	5.7	6.3	7.7	8.3	28.0	32.0	0.8
in*:	0.22	0.25	0.30	0.33	1.10	1.26	0.03

* Rounded off approximation

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PACKAGING

Packaging	Bulk* (vacuum bags)	Tray	Standard Box		
Quantity	200	100	1,000**		

* Standard packaging is in trays.

Bulk packaging is only available upon request.

** 5 bags or 10 trays

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