

Gas Discharge Tubes



GDT introduction: Gas discharge tubes (GDT) use noble gases enclosed in ceramic tubes to provide an alternate circuit path for voltage spikes. The ceramic envelope and nickel connectors allow for high loads and surges that function at 20KA, 40KA, 50KA, 60KA, 100KA & 150KA. The breakdown voltages of the devices have a wide range with up to 20% tolerance. Major applications are high frequency telecommunication lines, stations, security systems, HID and high quality Surge Protection Devices (SPD).

Features

1. RoHS & HF compliant
2. Size: 10.0mm*8.0mm
3. DC Spark-over voltage: 75~800V
4. Stable breakdown voltage.
5. High insulation resistance.
6. High holdover voltage.
7. Large absorbing transient current capability.
8. Low Capacitance
9. Micro-Gap Design

Recommended Applications

1. Cable Modem
2. xDSL
3. Set-Top Box
4. Satellite and CATV equipment
5. Power supplies
6. Consumer electronics
7. General telecom equipment

Product Name

T8

Series:
T8: Φ8*10

3A

Lead Type:
3A=Thrust

230X

DC Line Voltage:
90X=90V
230X=230V

Electrical Characteristics

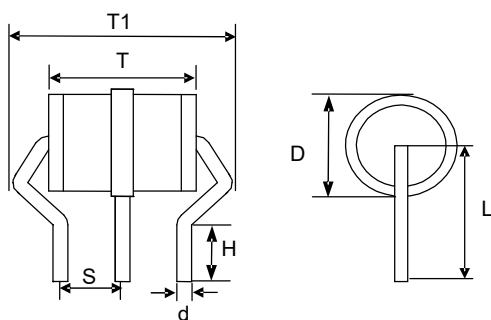
GDT Part Number code	DC Spark-over Voltage	Max. Impulse Breakdown Voltage		Max. Impulse Discharge Current (8/20 μ s)	Impulse Life(10/1000 μ s)	Normal Alternating Discharge Current	DC Holdover Voltage	Minimum Insulation Resistance	Maximum Capacitance (1MHz)
	100V/S	100V/ μ s	1KV/ μ s	10 times	100A	50Hz,1Sec	<150ms		
	(V)	(V)	(V)	(KA)	(Times)	(A)	(V)	(G Ω)	(pF)
T83A75X	75 $\pm$ 20%	600	700	10	300	20	52	1	$\leq$ 1.5
T83A90X	90 $\pm$ 20%	600	700	10	300	10	52	1	$\leq$ 1.5
T83A150X	150 $\pm$ 20%	500	700	10	300	10	135	1	$\leq$ 1.5
T83A200X	200 $\pm$ 20%	500	700	10	300	10	135	1	$\leq$ 1.5
T83A230X	230 $\pm$ 20%	600	700	10	300	10	150	1	$\leq$ 1.5
T83A250X	250 $\pm$ 20%	600	700	10	300	10	150	1	$\leq$ 1.5
T83A350X	350 $\pm$ 20%	700	800	10	300	10	150	1	$\leq$ 1.5
T83A400X	400 $\pm$ 20%	800	900	10	300	10	150	1	$\leq$ 1.5
T83A470X	470 $\pm$ 20%	900	1000	10	300	10	150	1	$\leq$ 1.5
T83A600X	600 $\pm$ 20%	1000	1100	10	300	10	150	1	$\leq$ 1.5
T83A800X	800 $\pm$ 20%	1400	1500	10	300	10	150	1	$\leq$ 1.5

DC Spark-over Voltage	DC Measuring Voltage
75-90V	50V
150-400V	100V
420-800V	250V

Dimension

"83" (Axial lead type)

Unit:mm

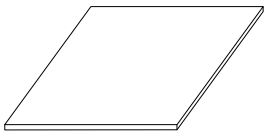
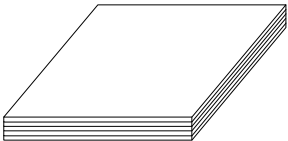


Item	Dimensions	
	Spec.	Tolerance
D	8.0	+0.2/-0.8
T	10.0	±0.5
T1	13.4	+0.8/-0.5
L	7.5	±0.5
S	4.4	±0.4
d	1.0	±0.05

Packaging Bulk

Unit:mm

%

Plastic Tray (200x210x10mm)	Inner Box (210x225x60mm)	Outside Box (450x245x345mm)
		
100 PCS/ Plastic Tray	500 PCS/ Box	5,000 PCS/ Carton

Warehouse Storage Conditions of Products

• Storage Conditions:

1. Operating temperature: -40°C~+125°C
2. Relative Humidity:≤75%RH
3. Keep away from corrosive atmosphere and sunlight.

• Period of Storage: 1 year

4. Recommended storage

- temperature +5 ... +35 °C
- humidity 45 ... 80 %