

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: 7.2mm*5.0mm
3. DC Spark-over voltage: 75~1100V
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

T9

Series:
T9: Φ5*7.6

0A

Lead Type:
0A=SMD
3A=Thrust

230X

DC Spark-over Voltage:
90X=90V
230X=230V
112X=1100V

Electrical Characteristics

GDT Part Number code	DC Spark-over Voltage	Max. Impulse Breakdown Voltage		Max. Impulse Discharge Current (8/20μs)		Impulse Life (10/1000μs)	Normal Alternating Discharge Current		DC Holdover Voltage	Minimum Insulation Resistance	Maximum Capacitance (1MHz)
	100V/S	100V/μs	1KV/μs	1 time	10 times	100A	50Hz, 1Sec	Single 9 Cycles			
	(V)	(V)	(V)	(KA)		(Times)	(A)				
T90A75X	75±20%	600	700	10	5	300	5	30	52	1	1
T90A90X	90±20%	500	600	10	5	300	5	30	52	1	1
T90A120X	120±20%	500	600	10	5	300	5	30	80	1	1
T90A150X	150±20%	500	600	10	5	300	5	30	80	1	1
T90A200X	200±20%	600	700	10	5	300	10	60	135	1	1
T90A230X	230±20%	600	700	10	5	300	10	60	135	1	1
T90A250X	250±20%	600	700	10	5	300	10	60	135	1	1
T90A350X	350±20%	650	750	10	5	300	10	60	135	1	1
T90A400X	400±20%	700	800	10	5	300	10	60	135	1	1
T90A420X	420±20%	700	800	10	5	300	10	60	135	1	1
T90A470X	470±20%	800	900	10	5	300	10	60	135	1	1
T90A600X	600±20%	900	1000	10	5	300	5	30	135	1	1
T90A800X	800±20%	1150	1400	10	5	300	5	30	135	1	1
T90A112X	1100±20%	1450	1750	10	5	300	5	30	135	1	1

DC Spark-over Voltage	DC Measuring Voltage
75-90V	50V
120-400V	100V
420-1100V	250V

• Storage Conditions:

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

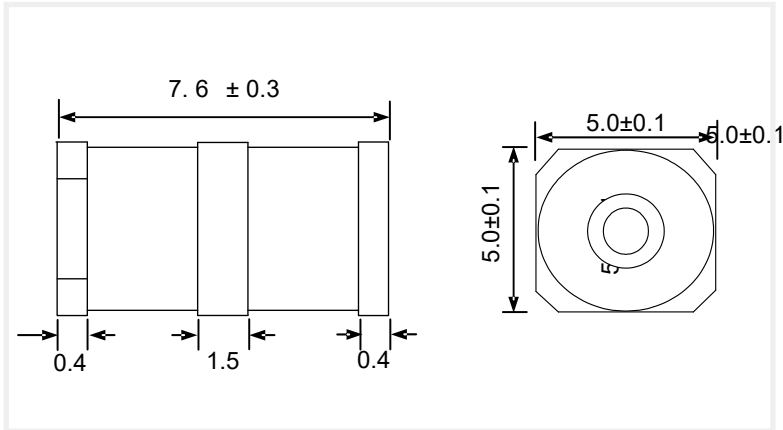
• Period of Storage: 1 year

4. Recommended storage

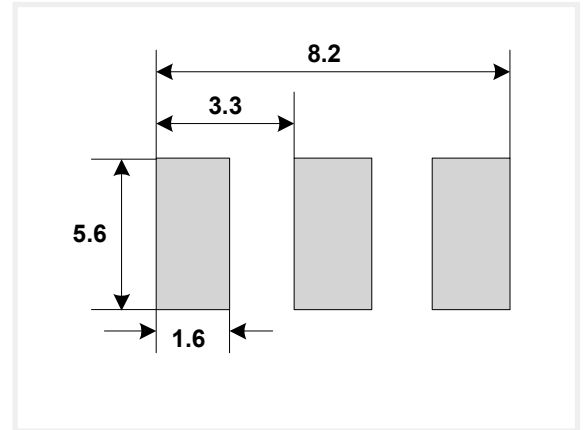
- temperature +5 ... +35 °C
- humidity 45 ... 80 %

Product size (Unit:mm)

Dimension

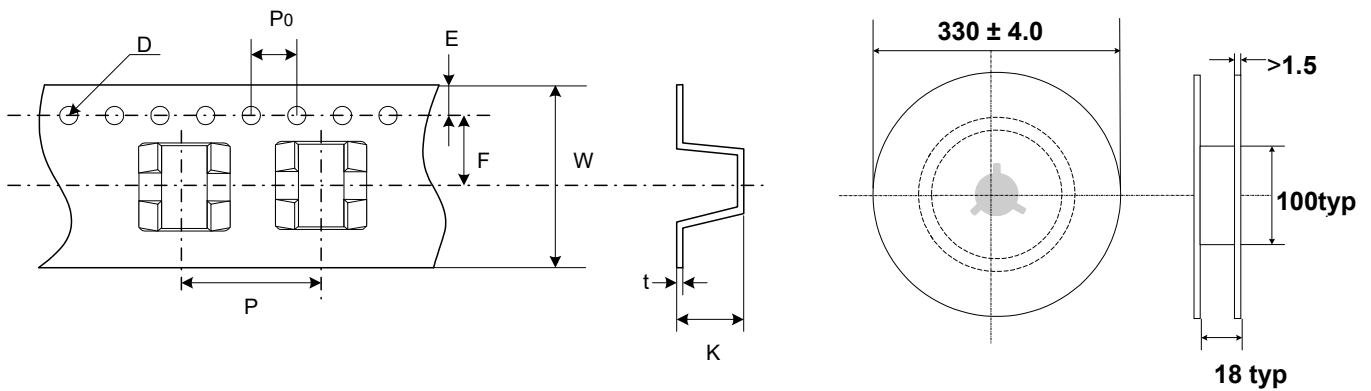


Recommended Pad Size



Packaging Taping

Unit:mm



Quantity:1000pcs per reel (13")

Item	P	PO	W	F	E	D	K	t
Spec.	12.0	4.0	16.0	7.5	1.75	$\Phi 1.55$	6.7	0.5
Tolerance	± 0.1	± 0.1	± 0.3	± 0.1	± 0.1	± 0.05	± 0.1	± 0.05