RUILON
ELECTRONICS



Gas Discharge Tubes

2RD-8 Series

361° Circuit Protection System

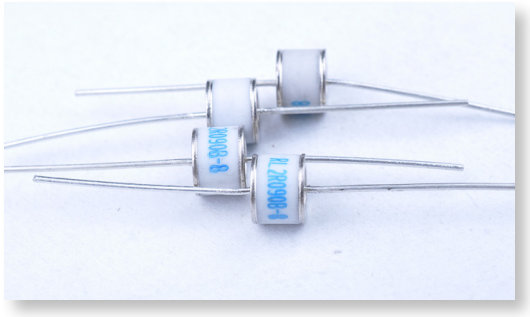
Specifications are subject to change without notice.

Please refer to http://www.ruilon.com for current information.

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GDT introduction:Gas discharge tubes (GDT) use noble gasses enclosed in ceramic tubes to provide an alternate circuit path for voltage spikes.The ceramic envelope and with nickel connectors allow for high loads and Ruilon offers products that function at 20KA,40KA,50KA,60KA,100KA&150KA. The breakdown voltages of the devices have a wide range (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. Rugged ceramic-metal construction
3. Available with or without leads
4. DC spark-over voltage:70~800V
5. Low capacitance
6. Agency recognition :UL/cUL
7. Operating temperature : -30°C ~ +85°C
Storage temperature: -40°C ~ +115°C

Recommended Applications

1. Cable Modem
2. xDSL
3. Set-Top Box
4. TV sets
5. Power supplier
6. Consumer electronics

Part Number Code

2	R	0	7	0	T	D	-	8

- 2R: Series
- 07: DC Line Voltage
- 0: Lead Type
  - T=Thrust
  - S=SMD
- T: Electrical Characteristics
  - B=10000A
  - D=20000A
- D: Dimensions
- 8

Gas Discharge Tubes - 2RD-8 Series

Electriacl Characteristics

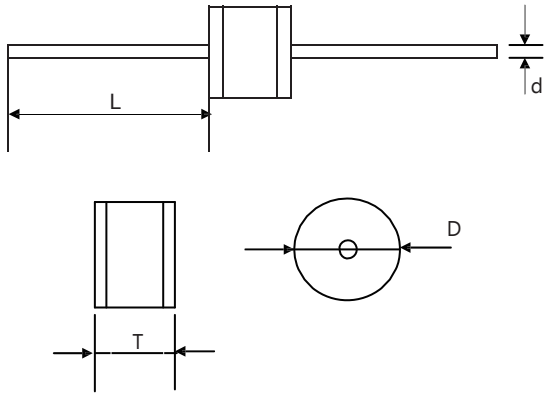
Part No.		DC Spark-over Voltage	Maximum Impulse Breakdown Voltage		Max. Impulse Discharge Current (8/20μs)		Impulse Life (10/1000μs)	Normal Alternating Discharge Current		DC Holdover Voltage	Minimum Insulation Resistance	Maximum Capacitance (1MHz)
		100V/S	100V/ μS	1KV/ μs	1 times	10 times	100 A	50Hz 1Sec	Single 9 Cycles	<150ms		
DIP	SMD	(V)	(V)	(V)	(KA)		Times	(A)		(V)	(GΩ)	(pF)
2R070TD-8	2R070SD-8	70±20%	500	600	25	20	500	20	65	52	1	1.5
2R075TD-8	2R075SD-8	75±20%	500	600	25	20	500	20	65	52	1	1.5
2R090TD-8	2R090SD-8	90±20%	500	600	25	20	500	20	65	52	1	1.5
2R120TD-8	2R120SD-8	120±20%	500	700	25	20	500	20	65	52	1	1.5
2R130TD-8	2R130SD-8	130±20%	500	700	25	20	500	20	65	52	1	1.5
2R150TD-8	2R150SD-8	150±20%	500	700	25	20	500	20	65	52	1	1.5
2R230TD-8	2R230SD-8	230 ±20%	500	700	25	20	500	20	65	80	1	1.5
2R250TD-8	2R250SD-8	250 ±20%	500	700	25	20	500	20	65	135	1	1.5
2R300TD-8	2R300SD-8	300 ±20%	700	900	25	20	500	20	65	150	1	1.5
2R350TD-8	2R350SD-8	350 ±20%	700	900	25	20	500	20	65	150	1	1.5
2R400TD-8	2R400SD-8	400 ±20%	800	1000	25	20	500	20	65	150	1	1.5
2R470TD-8	2R470SD-8	470 ±20%	900	1100	25	20	500	20	65	150	1	1.5
2R600TD-8	2R600SD-8	600 ±20%	1100	1300	25	20	500	20	65	150	1	1.5
2R800TD-8	2R800SD-8	800 ±20%	1300	1500	25	20	500	20	65	150	1	1.5

DC Spark-over Voltage	DC Measuring Voltage
70-90V	50V
120-400V	100V
470-800V	250V

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Dimension

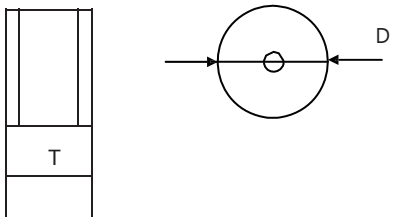
□ = T (Axial lead type)



Unit:mm

Item	Dimensions	
	Spec.	Tolerance
D	8.0	+0.3/-0.5
T	6.0	+0.3/-0.5
L	20	Min.
d	0.8	±0.05

□ = S (No lead type)

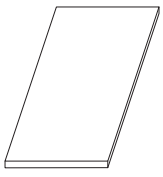
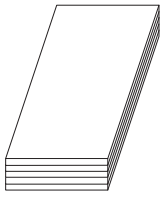
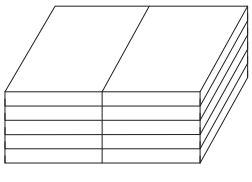


Unit:mm

Item	Dimensions	
	Spec.	Tolerance
D	8.0	+0.3/-0.5
T	6.0	+0.3/-0.5

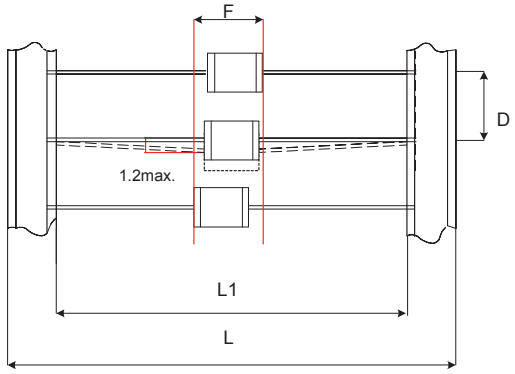
Packaging Taping

Unit:mm

Plastic Tray (252×135×10mm)	Inner Box (270×145×50mm)	Outside Box (310×280×275mm)
		
100 PCS/ Plastic Tray	500 PCS/ Box	5,000 PCS/ Carton

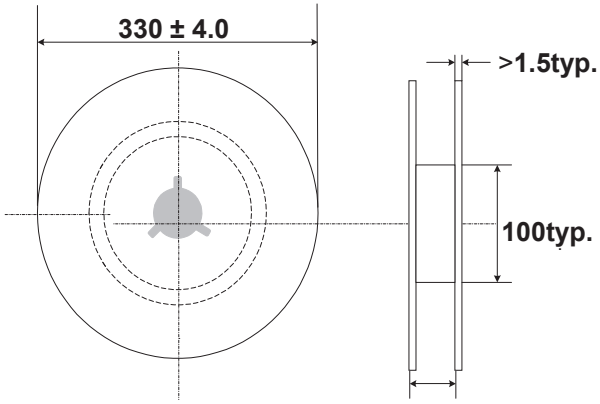
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For 2-electrode Axial Lead GDT: 500 PCS/Reel



Unit:mm

Item	Dimensions	
	Spec.	Tolerance
L1	52	±2
L	64	±3
D	10	±0.5
F	T+1.4	Max.



Warehouse Storage Conditions of Products

· Storage Conditions:

1. Storage Temperature: -10°C~+40°C
2. Relative Humidity:≤75%RH
3. Keep away from corrosive atmosphere and sunlight.

· Period of Storage: 1 year

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