



Gas Discharge Tubes

2R-88 Series

Gas Discharge Tubes - 2R-88 Series

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).



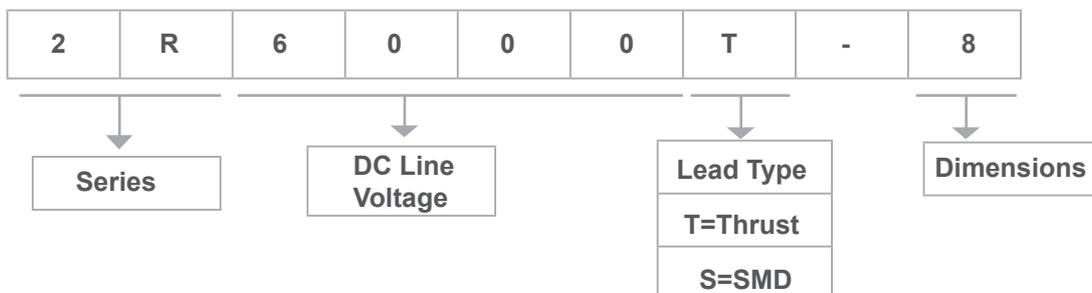
Features

1. RoHS & HF compliant
2. SMD Structure
3. DC Spark-over voltage: 600~6000V
4. Low Capacitance
5. Agency Recognition : UL
6. 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



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Electrical Characteristics

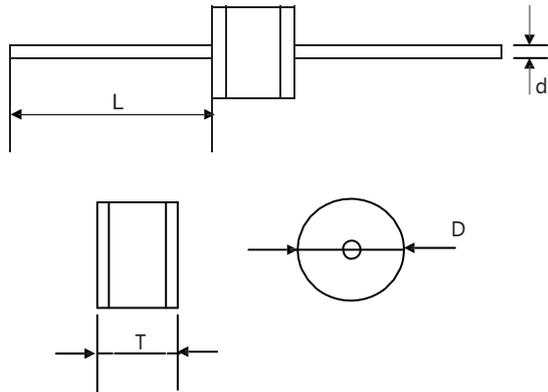
Part No.		DC Spark-over Voltage	Maximum Impulse Breakdown Voltage		Max. Impulse Discharge Current (8/20 μ s)		Impulse Life (10/1000 μ s)	Normal Alternating Discharge Current		DC Holdover Voltage	Minimum Insulation Resistance	Maximum Capacitance (1MHz)
			1KV/ μ S	1KV/ μ s	1 times	10 times		50Hz 1Sec	Single 9 Cycles			
DIP	SMD	(V)	(V)	(V)	(KA)	Times	(A)		(V)	(G Ω)	(pF)	
2R600T-8	2R600S-8	600 \pm 20%	1000	1100	8	5	100	5	5	10	1	1.5
2R800T-8	2R800S-8	800 \pm 20%	1100	1200	8	5	100	5	5	10	1	1.5
2R1000T-8	2R1000S-8	1000 \pm 20%	1300	1400	8	5	100	5	5	10	1	1.5
2R1400T-8	2R1400S-8	1400 \pm 20%	2100	2200	8	5	100	5	5	10	1	1.5
2R1600T-8	2R1600S-8	1600 \pm 20%	2300	2400	8	5	100	5	5	10	1	1.5
2R2000T-8	2R2000S-8	2000 \pm 20%	2700	2800	8	5	100	5	5	10	1	1.5
2R2500T-8	2R2500S-8	2500 \pm 20%	3500	3600	8	5	100	5	5	10	1	1.5
2R2700T-8	2R2700S-8	2700 \pm 20%	3600	3800	5	3	300	3	3	5	1	1.5
2R3000T-8	2R3000S-8	3000 \pm 20%	4100	4200	5	3	300	3	3	5	1	1.5
2R3500T-8	2R3500S-8	3500 \pm 20%	4900	5000	5	3	100	2.5	2.5	5	1	1.5
2R4000T-8	2R4000S-8	4000 \pm 20%	5300	5500	5	3	100	2.5	2.5	5	1	1.5
2R4500T-8	2R4500S-8	4500 \pm 20%	5800	6000	5	3	100	2.5	2.5	5	1	1.5
2R5000T-8	2R5000S-8	5000 \pm 20%	6000	6400	5	3	100	2.5	2.5	5	1	1.5
2R6000T-8	2R6000S-8	6000 \pm 20%	7000	7800	5	3	100	2.5	2.5	5	1	1.5

DC Spark-over Voltage	DC Measuring Voltage
600-1000V	250V
1400-2000V	500V
2500-6000V	1000V

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Dimension

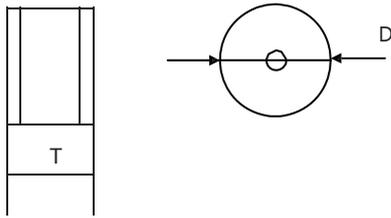
□ = T (Axial lead type)



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

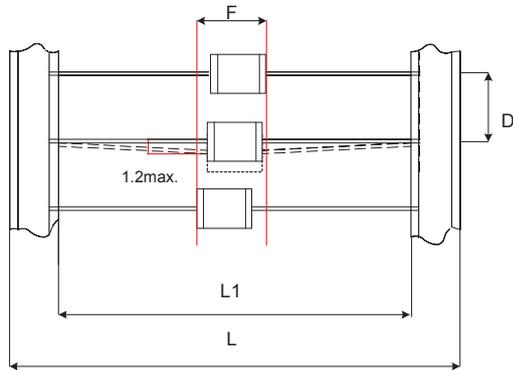
Packaging Taping

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

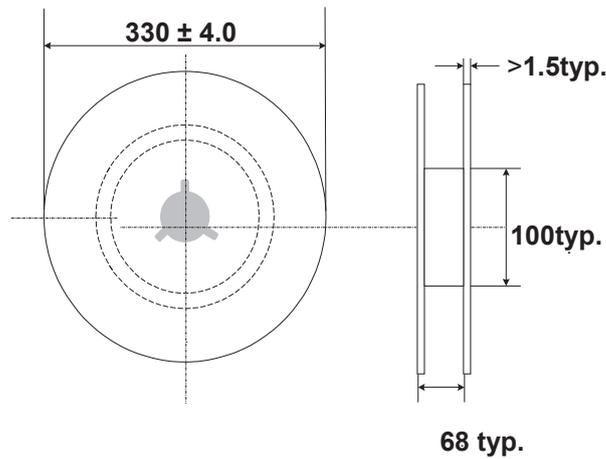
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For 2-electrode Axial Lead GDT: 500 PCS/Reel



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:
 - Storage Temperature: $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$
 - Relative Humidity: $\leq 75\% \text{RH}$
 - Keep away from corrosive atmosphere and sunlight.
- Period of Storage: 1 year

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Tel: +86-755-8290 8296

Fax: +86-755-8290 8002

E-mail: jack@ruilon.com