



Gas Discharge Tubes

2RA-5 Series

Gas Discharge Tubes - 2RA-5 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).



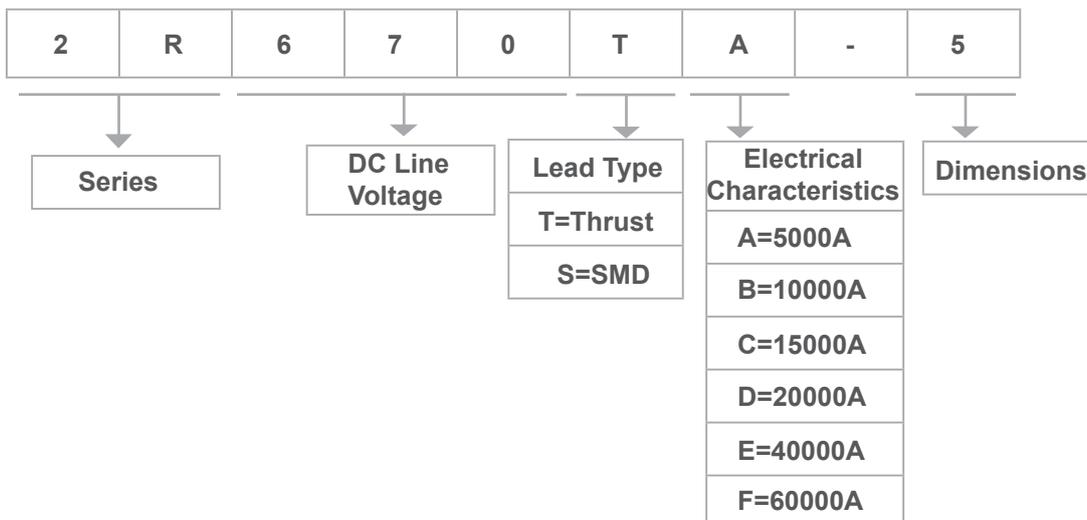
Features

1. RoHS & HF compliant
2. SMD Structure
3. DC Spark-over voltage: 70~800V
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

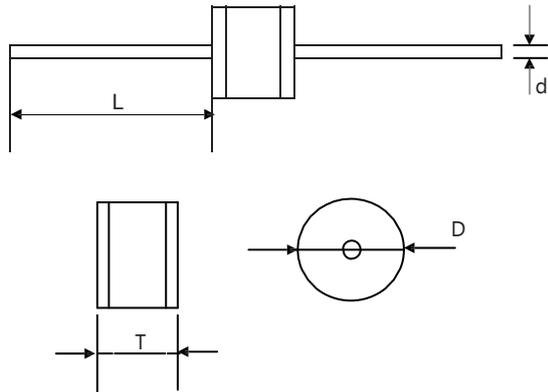
Part No.		DC Spark-over Voltage	Maximum Impulse Breakdown Voltage		Max. Impulse Discharge Current (8/20 μ s)		Impulse Life (10/1000 μ s)	Normal Alternating Discharge Current		DC Holdover Voltage	Minimum Insulation Resistance	Maximum Capacitance (1MHz)
			100V/S	100V/ μ S	1KV/ μ s	1 times		10 times	100 A			
DIP	SMD	(V)	(V)	(V)	(KA)		Times	(A)		(V)	(G Ω)	(pF)
2R070TA-5	2R070SA-5	70 \pm 20%	700	800	8	5	300	5	25	52	1	1
2R075TA-5	2R075SA-5	75 \pm 20%	700	800	8	5	300	5	25	52	1	1
2R090TA-5	2R090SA-5	90 \pm 20%	600	700	8	5	300	5	25	52	1	1
2R150TA-5	2R150SA-5	150 \pm 20%	600	700	8	5	300	5	25	52	1	1
2R230TA-5	2R230SA-5	230 \pm 20%	600	700	8	5	300	5	25	80	1	1
2R250TA-5	2R250SA-5	250 \pm 20%	600	700	8	5	300	5	25	80	1	1
2R300TA-5	2R300SA-5	300 \pm 20%	700	900	8	5	300	5	25	150	1	1
2R350TA-5	2R350SA-5	350 \pm 20%	700	900	8	5	300	5	25	150	1	1
2R400TA-5	2R400SA-5	400 \pm 20%	800	1000	8	5	300	5	25	150	1	1
2R470TA-5	2R470SA-5	470 \pm 20%	900	1100	8	5	300	5	25	150	1	1
2R600TA-5	2R600SA-5	600 \pm 20%	1300	1500	8	5	300	5	25	150	1	1
2R800TA-5	2R800SA-5	800 \pm 20%	1500	1700	8	5	300	5	25	150	1	1

DC Spark-over Voltage	DC Measuring Voltage
70-90V	50V
150-400V	100V
470-800V	250V

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Dimension

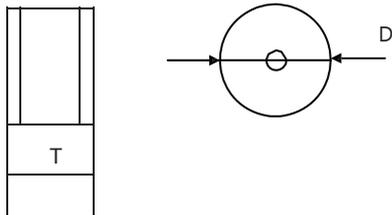
□ = T (Axial lead type)



Unit:mm

Item	Dimensions	
	Spec.	Tolerance
D	5.5	+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	5.5	+0.3/-0.5
T	6.0	+0.3/-0.5

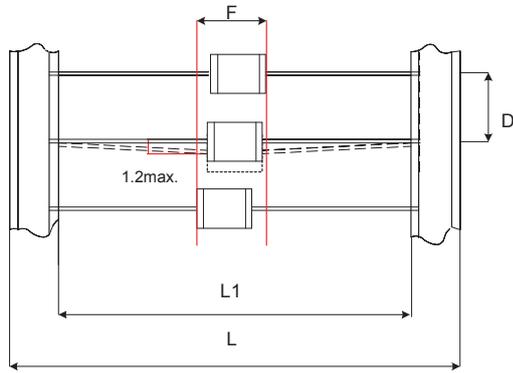
Packaging Taping

Unit:mm

Plastic Tray (265×147×10mm)	Inner Box (270×145×50mm)	Outside Box (310×280×275mm)
100 PCS/ Plastic Tray	500 PCS/ Box	5,000 PCS/ Carton

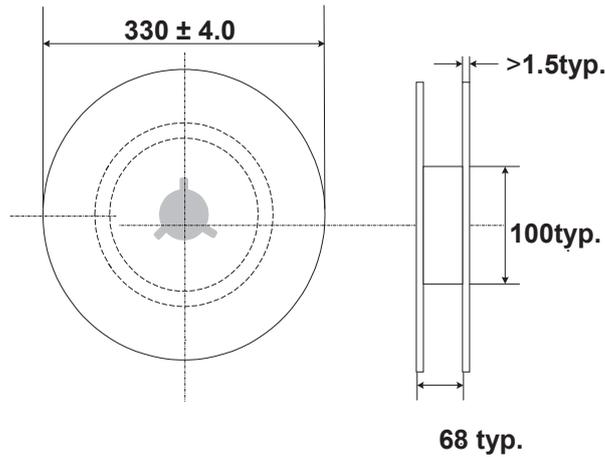
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For 2-electrode Axial Lead GDT: 500 PCS/Reel



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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