



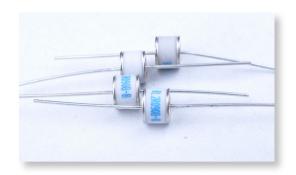
Gas Discharge Tubes

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

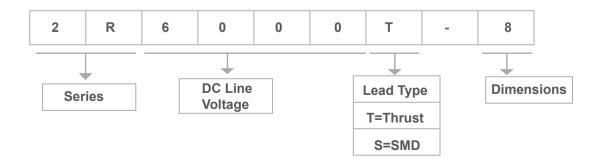
- 1. RoHS & HF compliant
- 2. SMD Structure
- 3. DC Spark-over voltage: 600~6000V
- 4. Low Capacitance
- 5. Agency Recognition: UL
- 6. Operating temperature:-30°C ~ +85°C Storage

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







Electriacl Characteristics

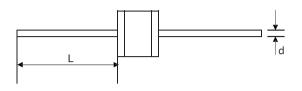
| Part No. | | DC Spark-over Voltage | Break Volt | ulse down age | Disch | ulse narge rent | Impulse Life (10/1000µs) | Alter Disc | rmal nating harge rrent | DC Holdover Voltage | Minimum Insulation Resistance | Maximum Capacitance (1MHz) |
|-----------|-----------|-----------------------------|---------------|---------------------|------------|-----------------------|--------------------------------|---------------|----------------------------------|---------------------------|-------------------------------------|----------------------------------|
| | | 100V/S | 1KV/ µS | 1KV/ µs | 1 times | 10 times | 300 A | 50Hz 1Sec | Single 9 Cycles | <150ms | | |
| DIP | SMD | (V) | (V) | (V) | (K | A) | Times | (. | A) | (V) | (GΩ) | (pF) |
| 2R600T-8 | 2R600S-8 | 600±20% | 1000 | 1100 | 8 | 5 | 100 | 5 | 5 | 10 | 1 | 1.5 |
| 2R800T-8 | 2R800S-8 | 800±20% | 1100 | 1200 | 8 | 5 | 100 | 5 | 5 | 10 | 1 | 1.5 |
| 2R1000T-8 | 2R1000S-8 | 1000±20% | 1300 | 1400 | 8 | 5 | 100 | 5 | 5 | 10 | 1 | 1.5 |
| 2R1400T-8 | 2R1400S-8 | 1400±20% | 2100 | 2200 | 8 | 5 | 100 | 5 | 5 | 10 | 1 | 1.5 |
| 2R1600T-8 | 2R1600S-8 | 1600±20% | 2300 | 2400 | 8 | 5 | 100 | 5 | 5 | 10 | 1 | 1.5 |
| 2R2000T-8 | 2R2000S-8 | 2000±20% | 2700 | 2800 | 8 | 5 | 100 | 5 | 5 | 10 | 1 | 1.5 |
| 2R2500T-8 | 2R2500S-8 | 2500±20% | 3500 | 3600 | 8 | 5 | 100 | 5 | 5 | 10 | 1 | 1.5 |
| 2R2700T-8 | 2R2700S-8 | 2700±20% | 3600 | 3800 | 5 | 3 | 300 | 3 | 3 | 5 | 1 | 1.5 |
| 2R3000T-8 | 2R3000S-8 | 3000±20% | 4100 | 4200 | 5 | 3 | 300 | 3 | 3 | 5 | 1 | 1.5 |
| 2R3500T-8 | 2R3500S-8 | 3500±20% | 4900 | 5000 | 5 | 3 | 100 | 2.5 | 2.5 | 5 | 1 | 1.5 |
| 2R4000T-8 | 2R4000S-8 | 4000±20% | 5300 | 5500 | 5 | 3 | 100 | 2.5 | 2.5 | 5 | 1 | 1.5 |
| 2R4500T-8 | 2R4500S-8 | 4500±20% | 5800 | 6000 | 5 | 3 | 100 | 2.5 | 2.5 | 5 | 1 | 1.5 |
| 2R5000T-8 | 2R5000S-8 | 5000±20% | 6000 | 6400 | 5 | 3 | 100 | 2.5 | 2.5 | 5 | 1 | 1.5 |
| 2R6000T-8 | 2R6000S-8 | 6000±20% | 7000 | 7800 | 5 | 3 | 100 | 2.5 | 2.5 | 5 | 1 | 1.5 |

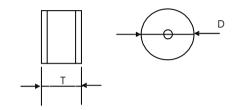
| DC Spark-over Voltage | DC Measuring Voltage |
|-----------------------|----------------------|
| 600-1000V | 250V |
| 1400-2000V | 500V |
| 2500-6000V | 1000V |



Dimension

□ = T (Axial lead type)

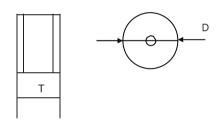




Unit:mm

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

□ = S (No lead type)



Unit:mm

| Itam | Dimensions | | | |
|------|------------|-----------|--|--|
| Item | Spec. | Tolerance | | |
| D | 8.0 | +0.3/-0.5 | | |
| Т | 6.0 | +0.3/-0.5 | | |

Packaging Taping

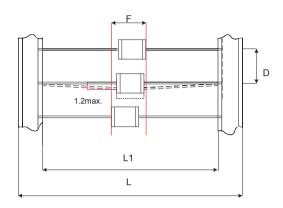
Unit:mm

| 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 |



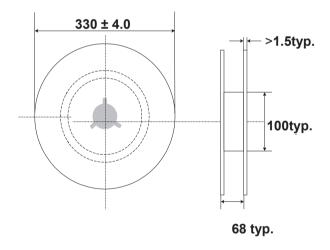


For 2-electrode Axial Lead GDT: 500 PCS/Reel



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

Unit:mm



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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