RUILON
ELECTRONICS



Gas Discharge Tube

3RD-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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Gas Discharge Tube - 3RD-8Series

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. Available with fail-safe clip
5. DC spark-over voltage:75~600V
6. Low capacitance
7. Agency recognition :UL
8. 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

3	R	0	7	5	T	D	-	8

- 3R: Series
- 07: DC Line Voltage
- 5: Lead Type
  - T=Thrust
  - S=SMD
- T: Electrical Characteristics
  - A=5000A
  - D=20000A
- 8: Dimensions

Gas Discharge Tube - 3RD-8 Series

Electriacl Characteristics

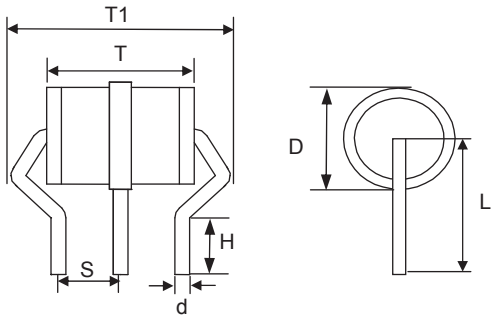
Part No.			DC Spark-over Voltage	Max. Impulse Breakdown Voltage		Max. Impulse Discharge Current (8/20μs)	Impulse Life(10/1000μs)	Normal Alternating Discharge Current	DC Holdover Voltage	Minimum Insulation Resistance	Maximum Capacitance (1MHz)
			100V/S	100V/μs	1KV/μs	10 times	100A	50Hz,1Sec	<150ms		
T Series	S Series	T-F Series	(V)	(V)	(V)	(KA)	(Times)	(A)	(V)	(GΩ)	(pF)
3R075TD-8	3R075SD-8	3R075TD-8F	75±20%	600	700	20	300	20	52	10	2
3R090TD-8	3R090SD-8	3R090TD-8F	90±20%	600	700	20	300	20	52	10	2
3R150TD-8	3R150SD-8	3R150TD-8F	150±20%	500	700	20	300	20	135	10	2
3R200TD-8	3R200SD-8	3R200TD-8F	200±20%	500	700	20	300	20	135	10	2
3R230TD-8	3R230SD-8	3R230TD-8F	230±20%	600	700	20	300	20	150	10	2
3R250TD-8	3R250SD-8	3R250TD-8F	250±20%	600	700	20	300	20	150	10	2
3R350TD-8	3R350SD-8	3R350TD-8F	350±20%	700	800	20	300	20	150	10	2
3R400TD-8	3R400SD-8	3R400TD-8F	400±20%	800	900	20	300	20	150	10	2
3R470TD-8	3R470SD-8	3R470TD-8F	470±20%	900	1000	20	300	20	150	10	2
3R600TD-8	3R600SD-8	3R600TD-8F	600±20%	1000	1100	20	300	20	150	10	2

DC Spark-over Voltage	DC Measuring Voltage
75-90V	50V
150-400V	100V
420-600V	250V

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Dimension

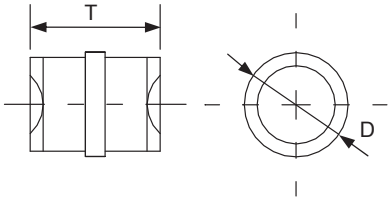
□ = T (Axial lead type)



Unit:mm

Item	Dimensions	
	Spec.	Tolerance
D	8.0	+0.2/-0.8
T	10.0	±0.5
T1	13.4	+0.8/-0.5
L	7.5	±0.5
S	4.4	±0.4
d	1.0	±0.05
H	4.5	Min.

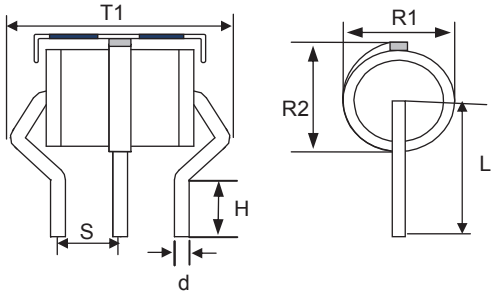
□ = S (No lead type)



Unit:mm

Item	Dimensions	
	Spec.	Tolerance
D	8.0	+0.2/-0.8
T	10.0	±0.5

□ = F (No lead type)



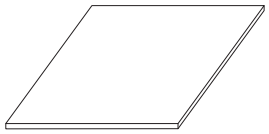
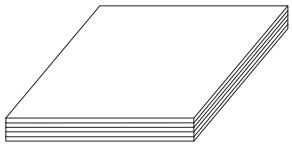
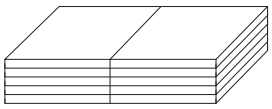
Unit:mm

Item	Dimensions	
	Spec.	Tolerance
R1	8.1	±0.3
R2	9.8	±0.4
T1	13.4	+0.8/-0.5
L	7.5	±0.5
S	4.4	±0.4
d	1.0	±0.05
H	4.5	Min.

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Packaging Bulk

Unit:mm

Plastic Tray (200x210x10mm)	Inner Box (210x225x60mm)	Outside Box (450x245x345mm)
		
100 PCS/ Plastic Tray	500 PCS/ Box	5,000 PCS/ Carton

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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Tel: +86-755-8290 8296 **Fax: +86-755-8290 8002** **E-mail: jack@ruilon.com**