RUILON
ELECTRONICS



Gas Discharge Tubes

2R-4S 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).



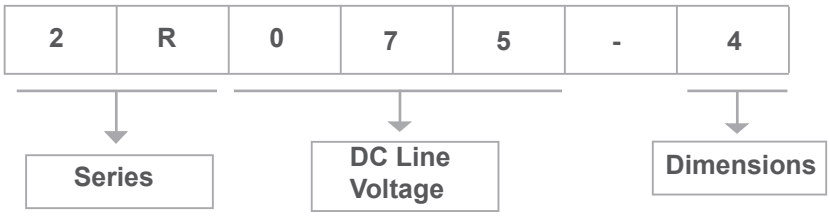
Features

1. RoHS & HF compliant
2. SMD Structure
3. DC Spark-over voltage: 75~2000V
4. Low Capacitance
5. Agency Recognition : UL/ cUL
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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Electriacl Characteristics

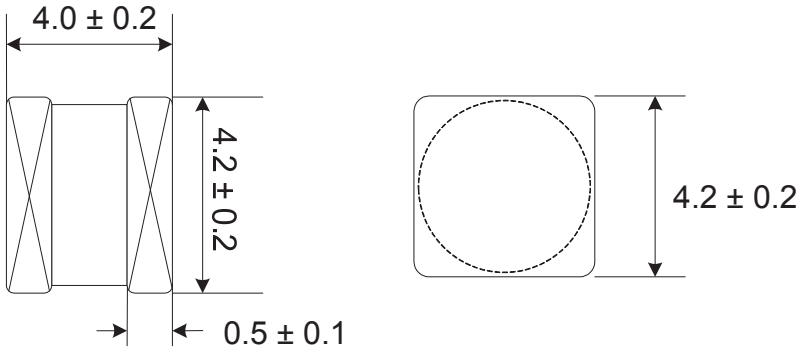
Part No.	DC Spark-over Voltage	Maximum Impulse Breakdown Voltage		Max. Impulse Discharge Current (8/20μs)		Impulse Life (10/1000μs)	Normal Alternating Discharge Current		DC Holdover Voltage	Minimum Insulation Resistance	Maximum Capacitance (1MHz)
	100V/S	1KV/μS	1KV/μs	1 times	10 times	300 A	50Hz 1Sec	Single 9 Cycles	<150ms		
	(V)	(V)	(V)	(KA)		Times	(A)		(V)	(GΩ)	(pF)
2R075-4S	75±20%	700	800	5	3	300	3	6	52	1	0.5
2R090-4S	90±20%	700	800	5	3	300	3	6	52	1	0.5
2R150-4S	150±20%	600	800	5	3	300	3	6	80	1	0.5
2R230-4S	230±20%	600	700	5	3	300	3	6	150	1	0.5
2R250-4S	250±20%	600	700	5	3	300	3	6	150	1	0.5
2R300-4S	300±20%	600	700	5	3	300	3	6	150	1	0.5
2R350-4S	350±20%	650	800	5	3	300	3	6	150	1	0.5
2R400-4S	400±20%	700	800	5	3	300	3	6	150	1	0.5
2R470-4S	470±20%	800	900	5	3	300	3	6	150	1	0.5
2R600-4S	600±20%	900	1000	5	3	300	3	6	150	1	0.5
2R800-4S	800±20%	1300	1400	3	2	100	2	4	150	1	0.5
2R1000-4S	1000±20%	1500	1600	3	2	100	2	4	150	1	0.5
2R1200-4S	1200±20%	1700	1800	3	2	100	2	4	150	1	0.5
2R1400-4S	1400±20%	1700	1800	3	2	100	2	4	150	1	0.5
2R1500-4S	1500±20%	2000	2100	3	2	100	2	4	150	1	0.5
2R1600-4S	1600±20%	2000	2100	3	2	100	2	4	150	1	0.5
2R1800-4S	1800±20%	2500	2600	3	2	100	2	4	150	1	0.5
2R2000-4S	2000±20%	2700	2600	3	2	100	2	4	150	1	0.5

DC Spark-over Voltage	DC Measuring Voltage
75-90V	50V
150-400V	100V
470-800V	250V
1000-2000V	500V

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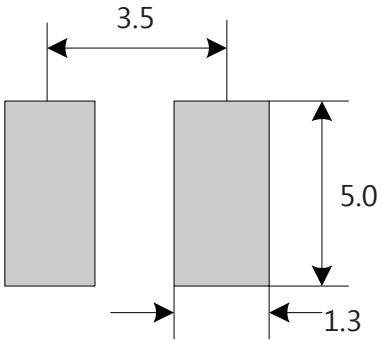
Dimension

Unit:mm



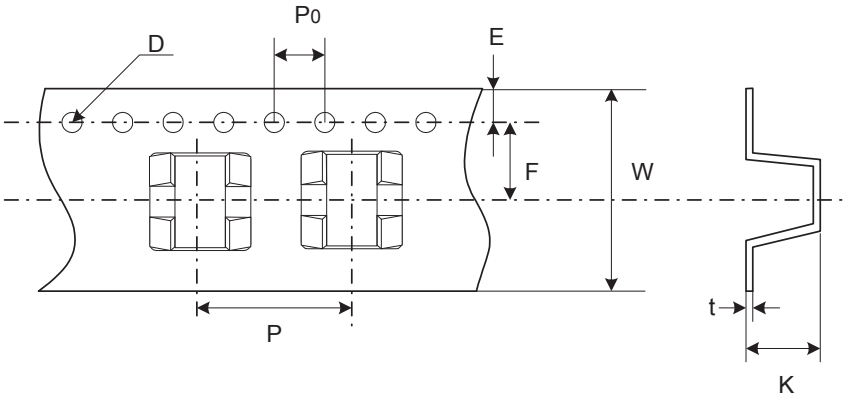
Recommended Pad Size

Unit:mm



Packaging Taping

Unit:mm

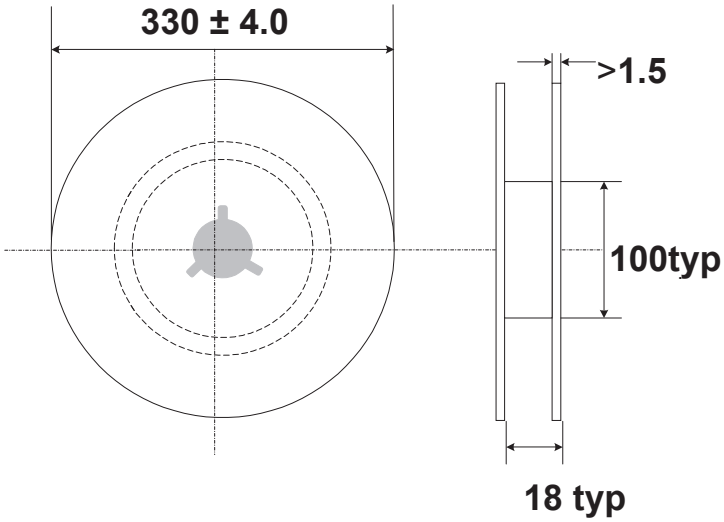


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Quantity: 900pcs per reel (13”)

Unit:mm

Item	P	PO	W	F	E	D	K	t
Spec.	12.0	4.0	16.0	7.5	1.75	Φ1.55	4.6	0.5
Tolerance	±0.1	±0.1	±0.3	±0.1	±0.1	±0.05	+0.2,-0.1	±0.05



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

RuiLongYuan Electronics Co., Ltd.

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