

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).

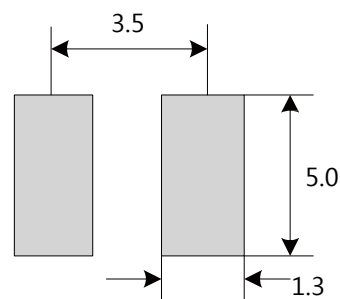
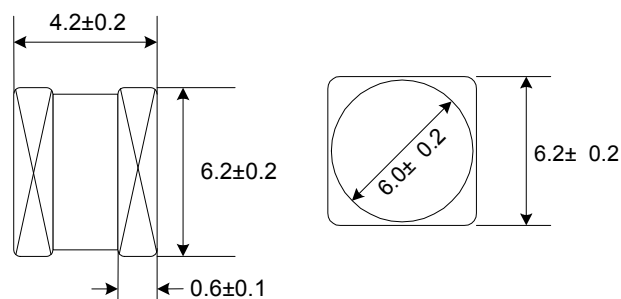


Features

- Size: 4.2mm*6.0mm
- DC Spark-over voltage: 75~3000V
- Stable breakdown voltage.
- High insulation resistance.
- Low capacitance (<1pF)
- High holdover voltage.
- Large absorbing transient current capability.
- Low Capacitance
- Micro-Gap Design

Mechanical Data

- Cable Modem
- xDSL
- Set-Top Box
- Satellite and CATV equipment
- Power supplier
- Consumer electronics
- General telecom equipment



Product size (Unit:mm)

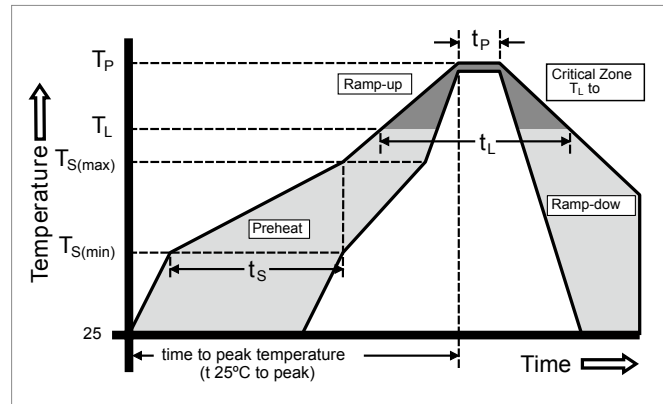
Product Name

2	R	X	X	X	-	6	S
↓		↓			↓		↓
Stable breakdown voltage		DC Spark-over Voltage			Dimensions		Lead Type
2R : 2 Electrodes					4.2mm*6.0mm		S:SMD

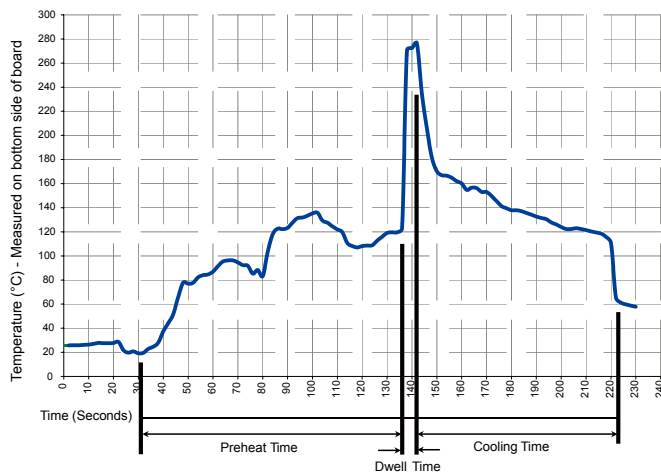
Part Number	DC Spark-over Voltage	Maximum Impulse Breakdown Voltage		Max. Impulse Discharge Current (8/20 μ s)		Impulse Life (10/1000 μ s)	Normal Alternating Discharge Current		DC Holdover Voltage	Minimum Insulation Resistance	Maximum Capacitance (1MHz)
	100V/S	100V/ μ S	1KV/ μ s	1 times	10 times	100 A	50Hz 1Sec	Single 9 Cycles	<150ms		
	(V)	(V)	(V)	(KA)		Times	(A)		(V)		(pF)
2R075A-6S	75 $\pm$ 20%	600	700	8	5	500	5	15	52	1	0.8
2R090A-6S	90 $\pm$ 20%	600	700	8	5	500	5	15	52	1	0.8
2R150A-6S	150 $\pm$ 20%	500	700	8	5	500	5	15	52	1	0.8
2R230A-6S	230 $\pm$ 20%	500	600	8	5	500	5	15	80	1	0.8
2R250A-6S	250 $\pm$ 20%	500	600	8	5	500	5	15	150	1	0.8
2R300A-6S	300 $\pm$ 20%	550	650	8	5	500	5	15	150	1	0.8
2R350A-6S	350 $\pm$ 20%	600	700	8	5	500	5	15	150	1	0.8
2R400A-6S	400 $\pm$ 20%	650	750	8	5	500	5	15	150	1	0.8
2R470A-6S	470 $\pm$ 20%	750	850	8	5	500	5	15	150	1	0.8
2R600A-6S	600 $\pm$ 20%	900	1000	8	5	500	5	15	150	1	0.8
2R800-6S	800 $\pm$ 20%	1000	1100	5	3	300	3	10	150	1	0.8
2R1000-6S	1000 $\pm$ 20%	1500	1600	5	3	300	3	10	150	1	0.8
2R1200-6S	1200 $\pm$ 20%	1700	1800	5	3	300	3	10	150	1	0.8
2R1800-6S	1800 $\pm$ 20%	2500	2600	5	3	300	3	10	150	1	0.8
2R2000-6S	2000 $\pm$ 20%	2700	2800	5	3	300	3	10	150	1	0.8
2R2500-6S	2500 $\pm$ 20%	3100	3200	5	3	300	3	10	150	1	0.8
2R2700-6S	2700 $\pm$ 20%	3300	3400	5	3	300	3	10	150	1	0.8
2R3000-6S	3000 $\pm$ 20%	3600	3700	5	3	300	3	10	150	1	0.8

DC Spark-over Voltage	DC Measuring Voltage
75-90V	50V
150-400V	100V
470-800V	250V
1000-2000V	500V
2500-3000V	1000V

Reflow Condition		Pb – Free assembly
Pre Heat	- Temperature Min ($T_{s(min)}$)	150°C
	- Temperature Max ($T_{s(max)}$)	200°C
	- Time (Min to Max) (t_s)	60 – 180 secs
Average ramp up rate (Liquidus Temp (T_L) to peak		3°C/second max
$T_{s(max)}$ to T_L - Ramp-up Rate		5°C/second max
Reflow	- Temperature (T_L) (Liquidus)	217°C
	- Temperature (t_L)	60 – 150 seconds
Peak Temperature (T_p)		260 ^{+0/-5} °C
Time within 5°C of actual peak Temperature (t_p)		10 – 30 seconds
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature (T_p)		8 minutes Max.
Do not exceed		260°C



Soldering parameters -wave soldering



Recommended process parameters

Wave Parameter	Lead-Free Recommendation
Preheat:	
(Depends on Flux Activation Temperature) (Typical Industry Recommendation)	
Temperature Minimum:	100° C
Temperature Maximum:	150° C
Preheat Time:	60-180 seconds
Solder Pot Temperature:	280° C Maximum
Solder Dwell Time:	2-5 seconds