

Gas Discharge Tube (GDT) Datasheet

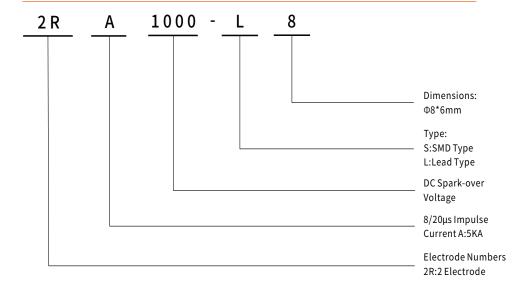
Features

- Excellent response to fast rising transients
- Stable breakdown voltage
- Low capacitance and Insertion Loss
- High insulation resistance
- Dimensions Φ8*6mm
- Storage and operating temperature: -40°C ~ +85°C
- Reliable to Protect Electrostatic Surge
- High Current Handling Capability @8/20µs;
- Moisture sensitivity level :Level 1

Applications

- · Test equipment
- AC Power
- Power supplies
- Telephone Interface, Line cards
- General Telecommunications equipment

Part Number Code



DC Spark-over Voltage 1000V to 3600V





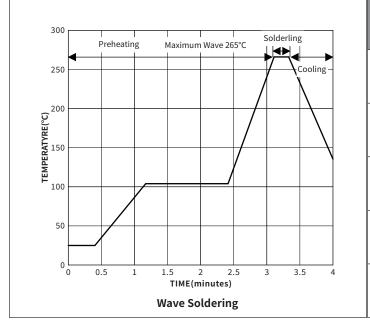
2RA-L8 SERIES



• **Electrical Characteristics** (Ta=25°C Unless otherwise specified)

Part Number	Marking	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Nominal Impulse Discharge Current@8/20μs	AC discharge Current	Impulse Life @10/1000μs	Minimum Insulation Resistance		Maximum Capacitance
		100V/S	1000V/μs	±5times	50Hz,1sec	100A	Test Voltage	GΩ _	1MHz
		(V)	(V)	(KA)	(A)	Times	DC(V)		(pF)
2RA1000-L8	R+O A1000-8	1000V±20%	1600	5	3	300	100	1	1.5
2RA1500-L8	R+O A1500-8	1500V±20%	2500	5	3	300	100	1	1.5
2RA2000-L8	R+O A2000-8	2000V±20%	3000	5	3	300	100	1	1.5
2RA2500-L8	R+O A2500-8	2500V±20%	3600	5	3	300	100	1	1.5
2RA3000-L8	R+O A3000-8	3000V±20%	4000	5	3	300	100	1	1.5
2RA3600-L8	R+O A3600-8	3600V±20%	4500	5	3	300	100	1	1.5

Recommended Soldering Conditions



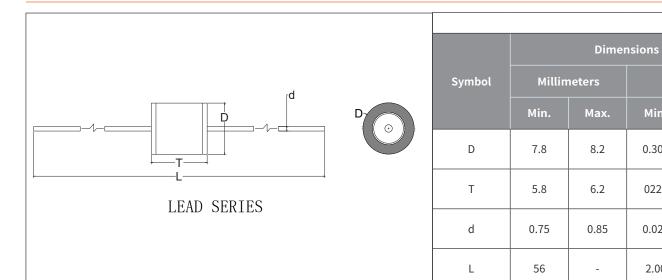
Wave Soldering Condition	Pb-Free Assembly
Minimum pre-heat temperature	100°C
Pre-heat Time	60-180 secs.
Peak Temperature	265°C
Dipping Time	10 secs. Max
Soldering	1 time



Electrical Ratings

Items	Test Condition/Description	Requirement	
DC Spark-over Voltage	The voltage is measured with voltage ramp dv/dt=100V/s		
Maximum Impulse Spark-over Voltage	The maximum impulse spark-over voltage is measured with voltage ramp dv/dt=1000V/μs.		
	Maximum 8/20μs surge current that can be applied between two electrodes, 5 positive and 5 negative surges, with 3 minutes interval time.		
Impulse Discharge Current	Crest value 100 90 20µs Time Impuise Width	To meet the specified value	
Alternating Discharge Current	Rated RMS value of AC current at 50Hz, 1 sec. for 10 times with interval time 3 min.		
Insulation Resistance	The resistance of gas tube shall be measured between two electrodes.		
Capacitance	The capacitance of gas tube shall be measured between two electrodes. Test frequency: 1MHz		

Physical Dimensions & Recommended Pad Layout



Inches

0.307

0228

0.029

2.00

Мах.

0.323

0.244

0.034

2RA-L8 SERIES



Ordering Information

SERIES	SIZE(mm)	DELIVERY MODE	MPQ(pcs)	BOX(pcs)	CARTON(pcs)
2RA-L8 Series	Ф8×6	Tray	100	500	6,000

Important Notice

- 1. This series is designed, manufactured, and sold exclusively for the domestic market (China).
- 2. This series is NOT UL Certified, and our company does not market or sell this product for use overseas.
- 3. If the customer exports this series to overseas markets (including but not limited to North America) without our prior written consent, the customer shall assume all risks and liabilities arising from the product's lack of UL certification.
- 4. By purchasing, using, or handling this product, the customer is deemed to have fully acknowledged and agreed to all terms stated in this notice.