

## Gas Discharge Tube

### Features

- Size Design  $\Phi 8 \times 6 \text{mm}$
- High Current Handling Capability 10,000A @ 8/20 $\mu\text{s}$
- Low Capacitance and Insertion Loss
- Fast Response and Long Service Life
- Reliable to Protect Electrostatic Surge
- Moisture sensitivity level : Level 1
- Marking:1500M

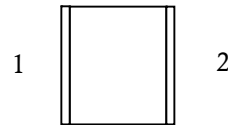
### Applications

- AC Power

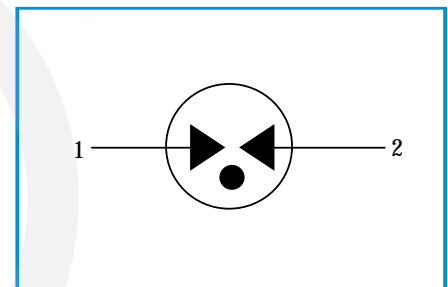
### Exterior



### Package(TopView)



### Functional Diagram



### Electrical Characteristics (TA=25°C unless otherwise specified)

DC Breakdown Voltage <sup>1) 2)</sup>	100V/s	1200-1800	V
Impulse Spark-over Voltage	At 1kV/ $\mu\text{s}$	for 99 % of measured values $\leq 2700$	V
	At 1kV/ $\mu\text{s}$	Typical values of distribution $\leq 2500$	V
Impulse Discharge Current <sup>3)</sup>	8/20 $\mu\text{s}$ $\pm 5$ times	10	kA
Arc Voltage	At 1A	$\sim 15$	V
Insulation Resistance	DC=100V	$\geq 1$	G $\Omega$
Capacitance at 1 MHz	V <sub>DC</sub> =0.5V	$\leq 1.5$	pF
Weight		$\sim 1.15$	g
Operating and storage Temperature		-40-125	°C
Marking		Voltage	

1) At delivery AQL 0.65 level II ISO 2859

2) In ionized mode

3) Terms and current waveforms in accordance with ITU-T Rec. K. 12; IEC 61643-21

## Gas Discharge Tube

### Part Numbering System

LT8G    XXX    M    -4  
 (1)        (2)    (3)    (4)

- (1) 2-Electrode Gas Discharge Tube with dimension:  $\Phi 8.0 \times 6$  (D×L) (mm)  
 (2) DC Breakdown Voltage, e.g., 1500=1500V  
 (3) Tolerance is DC Breakdown Voltage, M=±20%  
 (4) Special customer requirement

### Product Characteristics

Lead Material	Copper
Body Material	Ceramics Iron-nickel electrode
Terminal Finish	100% Matte-Tin Plated

### Environmental Reliability Characteristics

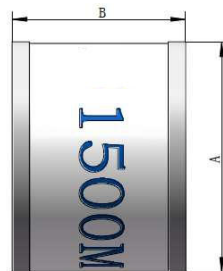
Testing items	Technical standards
High Temperature Storage Test	Temperature: 125°C Time: 2H
Low Temperature Storage Test	Temperature: -40°C Time: 2H
Vibration	Frequency: 10-500Hz Amplitude: 0.15mm Time: 45mins
Resistance of soldering heat	Temperature: 260±5°C Time of dip soldering: 10s, 1time

Note: Up-screen program can be specified by customer's request via contacting Bencent service

### Product Characteristics

Solderability	Solder Pot Temperature:	245°C ± 5°C
	Solder Dwell Time:	4-6 seconds

### Product Dimensions

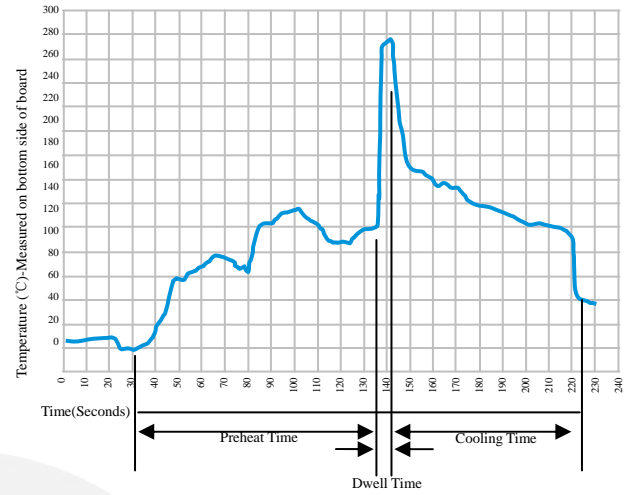


REF	mm	inch
A	8±0.2	0.315±0.008
B	6±0.2	0.236±0.008

## Gas Discharge Tube

### Wave Soldering Profile

Wave Soldering Condition		Pb-Free assembly
Pre Heat	Temperature Min	100°C
	Temperature Max	150°C
	Time (min to max)	60 – 180 secs
Solder Pot Temperature		280°C Max
Solder Dwell Time		2-5 seconds



### Package Box Information

OUTLINE	Box (PCS)	Inside Carton (PCS)	PER CARTON (PCS)	CARTON SIZE(mm)		
				L	W	H
TAPING	100	1000	6000	390	370	220