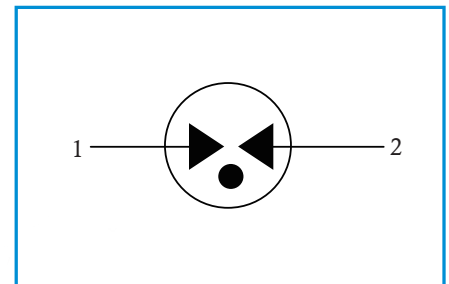


## Gas Discharge Tube

### Features

- Size Design  $\Phi 8 \times 6\text{mm}$
- High Current Handling Capability 20,000A @ 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


**Functional Diagram**


### Application Information

- AC Power

### Electrical Parameter

DC Breakdown Voltage <sup>1) 2)</sup>	100V/s	480-720	V
Impulse Spark-over Voltage	At 1kV/ $\mu\text{s}$	for 99 % of measured values	$\leq 1400$ V
	At 1kV/ $\mu\text{s}$	Typical values of distribution	$\leq 1100$ V
	At 100V/ $\mu\text{s}$	for 99 % of measured values	$\leq 1100$ V
	At 100V/ $\mu\text{s}$	Typical values of distribution	$\leq 950$ V
Impulse Discharge Current <sup>3)</sup>	8/20 $\mu\text{s}$ $\pm 5$ times	20	kA
AC Discharge Current	50Hz, 1S, 10times	10	A
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		$\sim 1.62$	g
Operating and storage Temperature		-40-125	$^{\circ}\text{C}$
Marking		600+date code	

## Gas Discharge Tube

### Part Numbering System

LT8G    XXX    H  
 (1)      (2)      (3)

- (1) Leading 2-Electrode DIP Gas Discharge Tube with dimension:  $\Phi 8.0 \times 6$  (D×L) (mm)
- (2) DC Breakdown Voltage, e.g., 600=600V
- (3) Surge Rating @8/20us, H=20kA

### Product Characteristics

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

### Environmental Reliability Characteristics

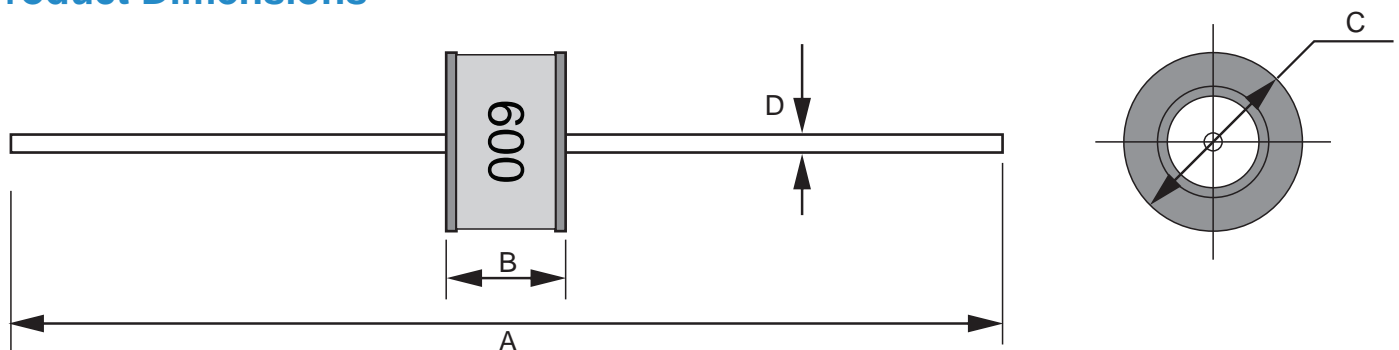
Testing items	Technical standards
High Temperature Storage Test	Temperature: 125°C Time: 2H
Low Temperature Storage Test	Temperature: -40°C Time: 2H
Vibration	Frequency: 10-500Hz Amplitude: 0.15mm Time: 45mins
Resistance of soldering heat	Temperature: 260±5°C Time of dip soldering: 10s, 1time

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

### Solderability test

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

### Product Dimensions

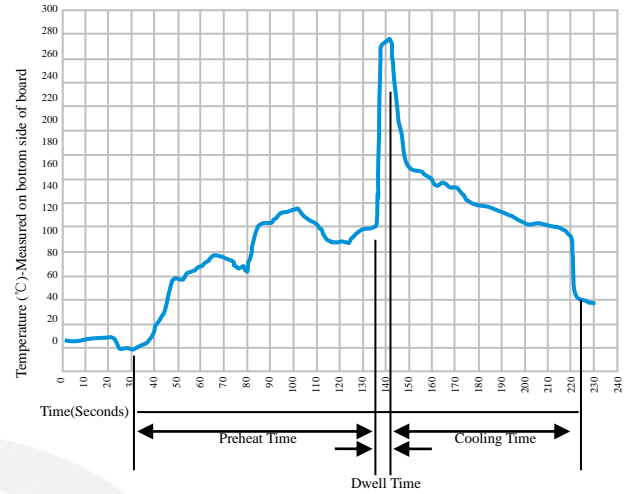


REF	mm
A	62 ± 2
B	6 ± 0.2
C	$\Phi 8 \pm 0.2$
D	$\Phi 1.0 \pm 0.06$

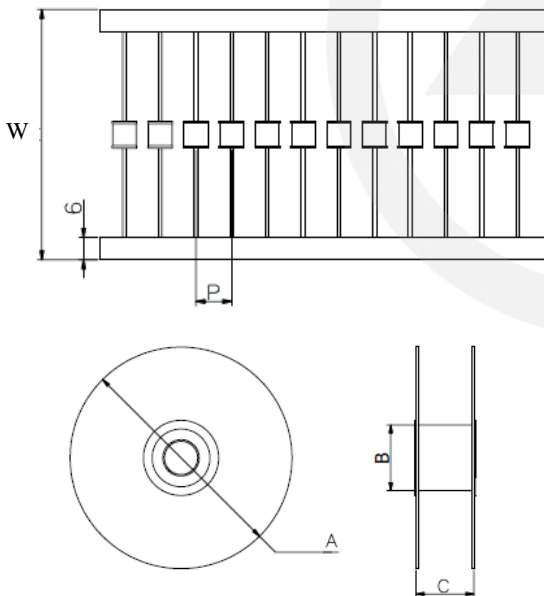
## Gas Discharge Tube

### 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 Reel Information



REF	mm
W	65±3
P	10±1
A	Φ340±2
B	Φ83±2
C	73±3

OUTLINE	REEL (PCS)	PER CARTON (PCS)	CARTON SIZE(mm)		
			L	W	H
TAPING	700	4200	480	350	360