

B5G800L

Order Code: B5G800L-01

Gas Discharge Tube

Features

Version: A3 2020-12-21

Exterior

• Size Design Φ5.5×6mm

High Current Handling Capability 5,000A @ 8/20μs

Low Capacitance and Insertion Loss

• Fast Response and Long Service Life

Reliable to Protect Electrostatic Surge

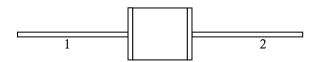
Moisture sensitivity level: Level 1



## Application information

AC Power

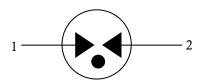




#### Agency Approvals

Icon	Description	
RoHS	Compliance with 2011/65/EU	
HF	Compliance with IEC61249-2-21:2003	
<b>⊗</b>	Mean lead free	
<b>.R.</b>	Compliance with UL1449, Certificated E337906	

# Schematic Symbol



#### Electrical Parameter

DC Breakdown Voltage <sup>1 / 2 /</sup>	100V/s	640-960	V
Impulse Spark-over Voltage	At 1kV/μs	for 99 % of measured values ≤ 1600	V
	At 1kV/μs	Typical values of distribution ≤1500	V
Impulse Discharge Current <sup>3</sup>	8/20μs ±5times	5	KA
Arc Voltage	At 1A	~15	V
Insulation Resistance	DC=100V	≥1	GΩ
Capacitance at 1 MHz	$V_{DC}=0.5V$	≤1	pF
Weight		~0.75	g
Operating and storage Temperature		-40-125	°C
Marking		Bencent Logo, Voltage and date code	

- 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





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### Part Numbering System

B5G 800 L
(1) (2) (3)

- (1)Bencent 2-Electrode DIP Gas Discharge Tube with dimension:  $\Phi$ 5.5×6 (D×L) (mm)
- (2) DC Breakdown Voltage, e.g.,800=800V
- (3) Surge Rating @8/20μs, L=5kA

#### **Product Characteristics**

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

### **Environmental Reliability Characteristics**

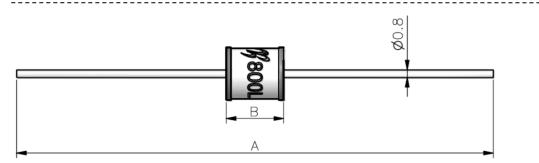
Testing items	Technical standards
High Temperature Storage Test	Temperature: 125°C Time:2H
Low Temperature Storage Test	Temperature: -40°C Time:2H
Vibration	Frequency: 10-500Hz Amplitude: 0.15mm Time: 45mins
Resistance of soldering heat	Temperature: 260±5°C Time of dip soldering: 10s, 1time

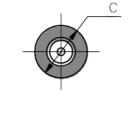
Note: Up-screen program can be specified by customer's request via contacting Bencent service

## Solderability test

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

#### **Product Dimensions**





REF	mm	inch
A	62±2	$2.441 \pm 0.079$
В	6±0.2	$0.236 \pm 0.008$
С	Φ5.5±0.2	Φ5.5±0.008



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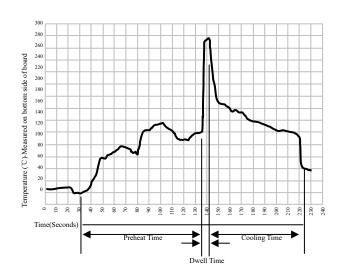


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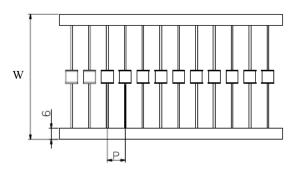
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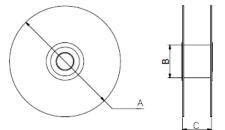
# Wave Soldering profile

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



## Package Reel Information





REF	mm	inch	
W	65±3	$2.559 \pm 0.118$	
P	10±1	$0.394 \pm 0.039$	
A	Φ340±2	$13.386 \pm 0.079$	
В	Φ83±2	$3.268 \pm 0.079$	
С	73±3	$2.874 \pm 0.118$	

OUTLINE REEL (PCS)		PER CARTON (PCS)	CARTON SIZE(mm)		
	(PCS)		L	W	Н
TAPING	1250	7500	480	350	360