

Axial / No wire, 2-Electrode Gas Discharge Tube B2G5LA(N) HV Series

Descriptions

The Gas Discharge Tube (GDT) operates as a symmetrical voltage-dependent switch. Features as very high surge current handling capability, very high insulation resistance and ultra-low capacitance meet almost perfectly all requirements made on a protective element.

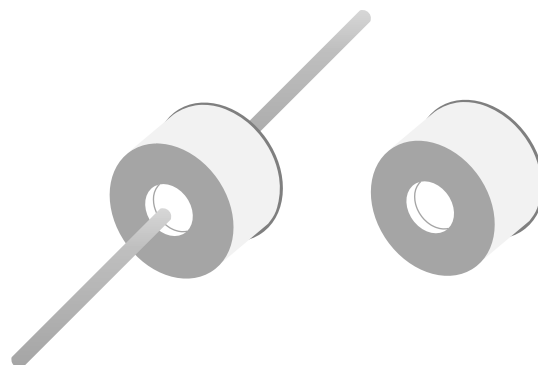
The B2G5LA(N) HV Series are 2-pole GDTs designed for protection of power lines. Low insertion loss is also perfectly suited to broadband equipment applications.

Features

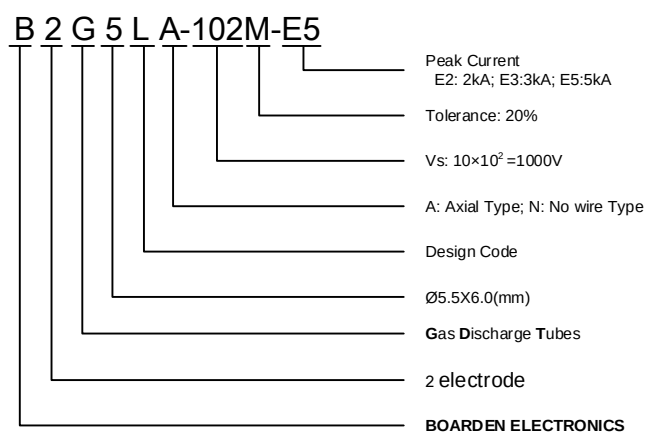
- 2-electrode arrester
- Very small size
- Rugged Ceramic-Metal construction
- Stable performance over life
- Extremely low capacitance ($\leq 1.0\text{pF}$)
- High insulation resistance

Applications

- PCI cards
- Modem
- Splitter
- Line cards
- Applications with limited space



Part Numbering System



Order information

Device	Qualities	Size
B2G5LA Series	500/Box	275*150*50 mm
	1000/R	13 Inch
B2G5LN Series	1000/R	13 Inch

Product Dimensions (mm)

Axial Wire Type	No Wire Type

Electrical Characteristics (TA=25°C unless otherwise noted)

Part Number		DC Spark Over Voltage ^{1),2)} @100V/s	Impluse Spark Over Voltage		Impulse Withstand Ratings		AC Discharge Current
			100V/μs	1kV/μs	8/20μs ±5 times	8/20μs 1 time	@50Hz 1s 5 times
			Max.	Max.	Nom.	Max.	Nom.
Axial Wire	No Wire	V	V	V	kA	kA	A
B2G5LA-102M-E5	B2G5LN-102M-E5	1000±20%	1600	1800	5	10	5
B2G5LA-122M-E5	B2G5LN-122M-E5	1200±20%	1800	2000	5	10	5
B2G5LA-152M-E5	B2G5LN-152M-E5	1500±20%	2300	2500	5	10	5
B2G5LA-182M-E5	B2G5LN-182M-E5	1800±20%	2600	2800	5	10	5
B2G5LA-202M-E3	B2G5LN-202M-E3	2000±20%	2800	3000	3	5	3
B2G5LA-252M-E3	B2G5LN-252M-E3	2500±20%	3200	3500	3	5	3
B2G5LA-272M-E3	B2G5LN-272M-E3	2700±20%	3500	3700	3	5	3
B2G5LA-302M-E3	B2G5LN-302M-E3	3000±20%	4000	4200	3	5	3
B2G5LA-362M-E3	B2G5LN-362M-E3	3600±20%	4600	5000	3	5	3
B2G5LA-402M-E2	B2G5LN-402M-E2	4000±20%	5000	5500	2	5	2
B2G5LA-452M-E2	B2G5LN-452M-E2	4500±20%	5500	6000	2	5	2
B2G5LA-502M-E2	B2G5LN-502M-E2	5000±20%	6000	6500	2	5	2
Minimum Insulation Resistance ³⁾				1GΩ			
Maximum Capacitance @1MHz.....				1.0pF			
Glow voltage at 10mA.....				150~260V			
Arc voltage at 1A.....				15~35V			
Glow to Arc transition current.....				~0.3A			
Weight.....				~0.7g (Axial) ~0.43g (No Wire)			
Operation and storage temperature.....				-40 ~ +90°C			
Climatic category (IEC 60068-1).....				40/90/21			
Marking.....				L xxx yy xxx -Nominal voltage; yy -Production year			

1) At delivery AQL 0.65 level II, DIN ISO 2859

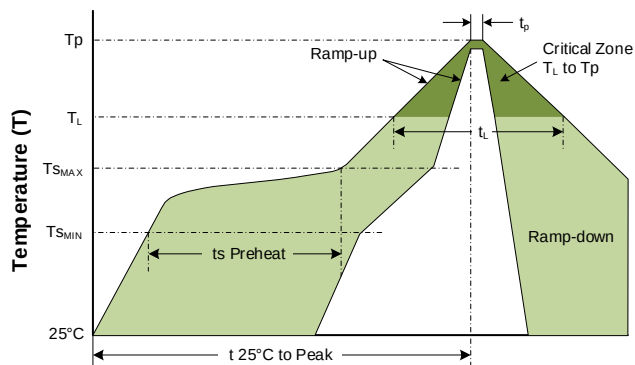
2) In ionized mode

3) Insulation resistance measuring voltage at 100Vdc

Terms in accordance with ITU-T Rec.K.12, IEC 61643-311, GB/T 9043

Soldering Parameters

Profile Feature	Lead-Free Assembly
Average Ramp-up Rate ($T_{S_{MAX}}$ to T_p) Average Ramp-down Rate (T_p to T_L)	3°C/second max. 6°C/second max.
Preheat • Temperature Min ($T_{S_{MIN}}$) • Temperature Max ($T_{S_{MAX}}$) • Time (t_s Preheat)	150°C 200°C 60-180 seconds
Time maintained above: • Temperature (T_L) • Time (t_L)	217°C 60-150 seconds
Peak/Classification Temperature • Temperature (T_p)	260 ^{+0/-5} °C
Time within 5°C of actual Peak Time (t_p)	20-40 seconds
Time 25°C to peak Temperature	8 minutes max
Do not exceed	280 °C



Flow/Wave Soldering (Solder Dipping)

Peak Temperature :	265 °C
Dipping Time :	10 seconds
Soldering :	1 time

Cautions and warnings

- Gas Discharge Tubes must not be operated directly in power supply networks.
- Gas Discharge Tubes may become hot in case of longer periods of current stress (danger of burning).
- Gas Discharge Tubes may be used only within their specified values. In case of overload, the head contacts may fail or the component may be destroyed.
- Damaged Gas Discharge Tubes must not be re-used.

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Specifications are subject to change without notice.

Website: www.boarden.com.cn

Tel: 86-21-61401058

Fax: 86-21-61730538