

#### Features

- Approximately zero leaking current before clamping voltage
- Less decay at on/off state.

ntKing

YAGEO Company

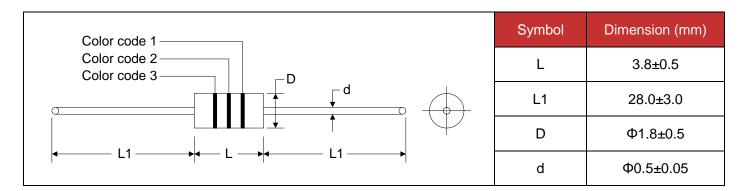
- High capability to withstand repeated lightning strikes.
- Low electrode capacitance(≤0.8pF) and high isolation(≥100MΩ).
- RoHS compliant.
- Bilateral symmetrical.
- Temperature, humidity and lightness insensitive.
- Operating temperature: -40°C ~ +85°C
- Storage temperature: -40°C ~ +125°C
- Meets MSL level 1, per J-STD-020
- Safety certification: UL: E244458



# **Applications**

- Power Supplies
- Motor sparks eliminating
- Relay switching spark absorbing
- Data line pulse guarding
- Electronic devices requiring UL497A and UL497B compliant
- Telephone/Fax/Modem
- High frequency signal transmitters/receivers
- Satellite antenna
- Radio amplifiers
- Alarm systems
- Cathode ray tubes in Monitors/TVs

#### Dimensions





# **Electrical Characteristics**

Part Number	DC Spark-over Voltage	Minimum Insulation Resistance		Maximum Capacitance (1KHz-6V <sub>MAX</sub> )	Surge Current Capacity	Surge Life Test
	Vs(V)	Test Voltage(V)	IR <sub>OHM</sub> (MΩ)	C(pf)	(8/20µs)	8/20µs,100A
BK32002002-B1	400~480	250	100	0.8	500A	150 times

# **Color Code**

Part Number	Color Code 1	Color Code 2	Color Code 3
BK32002002-B1	Yellow	-	-

## **Test Methods and Results**

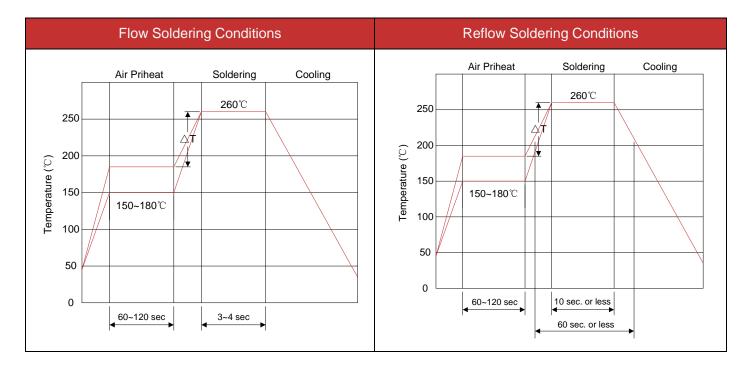
Items	Test Method		Standard	
DC Spark-over Voltage	gradually incre current is 0.5r	ing discharge voltage (Vs) by easing applied DC voltage. Test nA max. And the DC voltage ithin 100V/s(Vs<1000V) or 000V).	Meet specified value.	
Insulation Resistance	terminal at reg	nsulation resistance across the gular voltage. But the test voltage he DC spark-over voltage.		
Capacitance		electrostatic capacitance by tage of less than 6V (at 1KHz) inals.		
Static Life		00pf condenser is discharged sistor. 200 times at an interval of	$  \Delta Vs/Vs   \le 30\%$ Characteristics of other items must meet the specified value.	
	current applie	impulse current for specified d ±5 times, each time interval 60 reafter, outer appearance shall amined.		
Surge Current Capacity	Туре	Impulse current	No crack and no failures	
Capacity	Vs < 400V	1.2/50µs & 8/20µs, 500A		
	Vs ≥ 400V	1.2/50 $\mu$ s & 8/20 $\mu$ s, 500A, electrically connected with a resistor (1~2 $\Omega$ ).		





Cold Resistance	Measurement after -40°C/1000 HRS & normal temperature/2 HRS.		
Heat Resistance Measurement after 125°C/1000 HRS & no temperature/2 HRS.		Features are conformed to rated	
Humidity Resistance	Measurement after humidity 90~95°C(45°C) /1000 HRS & normal temperature/2 HRS.	spec.	
Temperature Cycle10 times repetition of cycle -40°C/30min $\rightarrow$ normal, temp/2 min $\rightarrow$ 125°C/30min, measurement after normal temp/2 HRS.			
Solder Ability	Apply flux and immerse in molten solder 230±5°C for 3sec up to the point of 1.5mm from body. Check for solder adhesion.	Lead wire is evenly covered by solder.	
Solder Heat	Measurement after lead wire is dipped up to the point of 1.5mm from body into 260±5°C solder for 10sec.	Conformed to rated spec.	
Pull Strength Apply 0.5kg load for 10sec.			
Flexural Strength	Bend lead wire at the point of 2mm from body under 0.25 load and back to its original point. Repeat 1 time.	Lead shall not pull out to snap.	

# **Recommended Soldering Conditions**



- 1) Time shown in the above figures is measured from the point when chip surface reaches temperature.
- 2) Temperature difference in high temperature part should be within 110°C.
- 3) After soldering, do not force cool, allow the parts to cool gradually.

#### Hand Soldering

YAGEO Company

Solder iron temperature: 350±5°C Heating time: 3 seconds max.

#### General attention to soldering

• High soldering temperatures and long soldering times can cause leaching of the termination, decrease in adherence strength, and the change of characteristic may occur.

- For soldering, please refer to the soldering curves above. However, please keep exposures to temperatures exceeding 200°C to fewer than 50 seconds.
- Please use a mild flux (containing less than 0.2wt% Cl). Also, if the flux is water soluble, be sure to wash thoroughly to remove any residue from the underside of components that could affect resistance.

### Cleaning

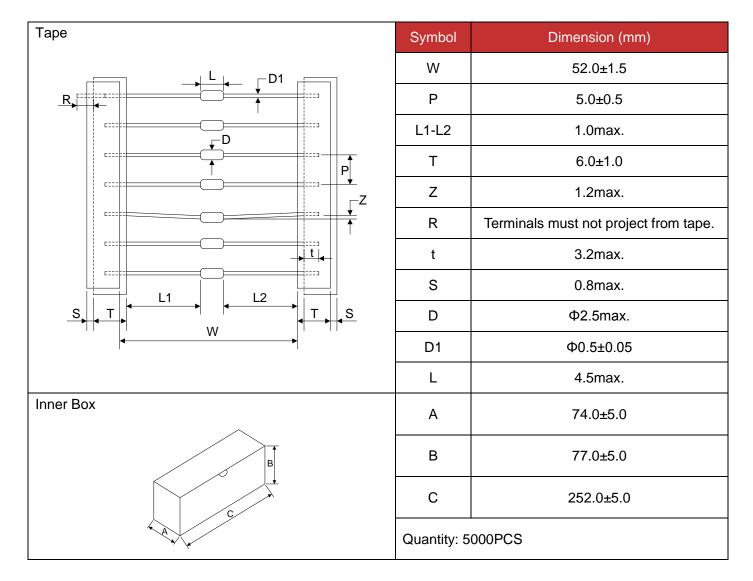
When using ultrasonic cleaning, the board may resonate if the output power is too high. Since this vibration can cause cracking or a decrease in the adherence of the termination, we recommend that you use the conditions below.

Frequency: 40kHz max. Output power: 20W/liter

Cleaning time: 5 minutes max.

Packaging

rightKing A **YAGEO** Company



# **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Gas Discharge Tubes - GDTs / Gas Plasma Arrestors category:

Click to view products by Yageo manufacturer:

Other Similar products are found below :

PMT1023004 PMT1025001 PMT1035004 PMT1040004 PMT809006 CG2250 CG2800 CG31.5L GTCR37-231M-R10 GT-SMD181240012-TR WPGT-2N145B6L WPGT-2N230B6L WPGT-2N470B6L WPGT-2R470B6L WPGT-2RM230A6L WPGT-2RM350A6L WPGT-2RM70A6L WPGT-2RM90A6L WPGT-2S145 WPGT-2S350 WPGT-2S470 WPGT-3R350CF WPGT-3R350G1 WPGT-3R90G1 WPGT-3R75G1 WPGT-3R470G1 WPGT-3R250C WPGT-3R230G1 WPGT-2S230 WPGT-2RM470A6L WPGT-2RM145A6L WPGT-2R3000B8L WPGT-2R2700B8L WPGT-2R1000B8L WPGT-2N90B6L WPGT-2N70B6L WPGT-2N350B6L WPGT-2N230B6L1 CG90 CG2230 CG2145 CG21000 GT-SMD181215012-TR T61-C350X 9071.99.0547 (73\_Z-0-0-547) 9071.99.0548 (73\_Z-0-0-548) B88069X6940B152 9071.99.0054 B88069X1973T902 V20-3+NPE+FS-280