

Features

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

htKing

YAGEO Company

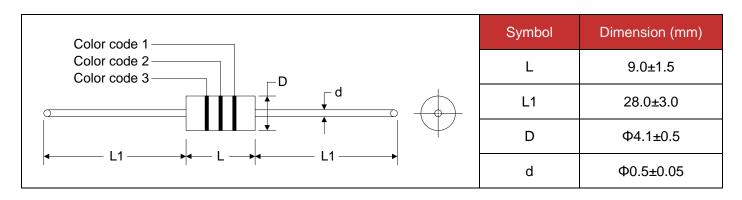
- High capability to withstand repeated lightning strikes.
- Low electrode capacitance(≤ 1.0 pF) and high isolation($\geq 100M\Omega$).
- RoHS compliant.
- Bilateral symmetrical.
- Temperature, humidity and lightness insensitive.
- No dark effect.
- Operating temperature: -40°C ~ +85°C
- Storage temperature: -40°C ~ +125°C
- Meets MSL level 1, per J-STD-020
- Safety certification: UL: E472693



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 ①	Type ②	DC Spark-over Voltage	Minimum Insulation Resistance		Maximum Capacitance (1KHz-6V _{MAX})	Surge Current	AC Withstanding
		Vs(V)	Test Voltage(V)	IR _{ОНМ} (МΩ)	C(pf)	Capacity (8/20µs)	Voltage
BK1XX05002	Н	1000	500	100	1.0	3000A	-
BK1XX07502	Н	1500	500	100	1.0	3000A	-
BK1XX09002	Н	1800	500	100	1.0	3000A	-
BK1XX10002	Н	2000	500	100	1.0	3000A	-
BK1XX12002	Н	2400	500	100	1.0	3000A	AC1200V, 3sec.
BK1XX13502	Н	2700	500	100	1.0	3000A	AC1200V, 3sec.
BK1XX15002	Н	3000	500	100	1.0	3000A	AC1500V, 3min.
BK1XX18002	Н	3600	500	100	1.0	3000A	AC1800V, 3sec.
BK1XX20002	Н	4000	500	100	1.0	3000A	AC1800V, 3sec.
BK1XX22502	Н	4500	500	100	1.0	3000A	AC2000V, 1min.
BK1XX25002	Н	5000	500	100	1.0	3000A	AC2000V, 1min.

Note: 1) Vs±XX%

2 Specific code by request.

Color Code

Part Number	Туре	Color Code 1	Color Code 2	Color Code 3
BK1XX05002	Н	Brown	Black	Red
BK1XX07502	Н	Brown	Green	Red
BK1XX09002	Н	Brown	Gray	Red
BK1XX10002	Н	Red	Black	Red
BK1XX12002	Н	Red	Yellow	Red
BK1XX13502	н	Red	Purple	Red
BK1XX15002	Н	Orange	Black	Red
BK1XX18002	Н	Orange	Blue	Red
BK1XX20002	Н	Yellow	Black	Red
BK1XX22502	н	Yellow	Green	Red
BK1XX25002	Н	Green	Black	Red

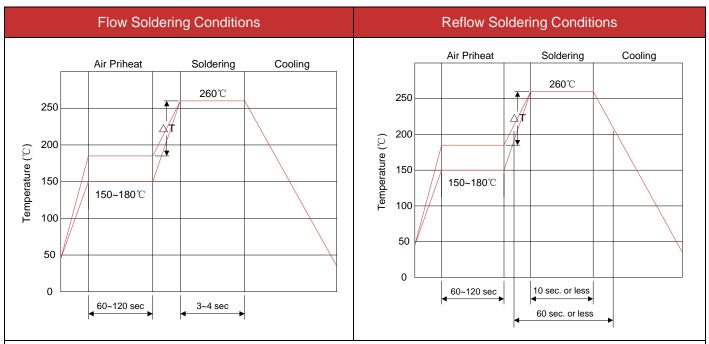


Test Methods and Results

Items	Test Method	Standard	
DC Spark-over Voltage	Measure starting discharge voltage (Vs) by gradually increasing applied DC voltage. Test current is 0.5mA max. And the DC voltage ascends up within 500V/second.		
Insulation Resistance	Measure the insulation resistance across the terminal at regular voltage. But the test voltage doesn't over the DC spark-over voltage.	Meet specified value.	
Capacitance	Measure the electrostatic capacitance by applying a voltage of less than 6V (at 1KHz) between terminals.		
Surge Current Capacity	Charge a 1.2/50µs & 8/20µs, 2000A, and apply it to the sample. Do this 10 time. Or 3000A, 1 time.	No crack and no failures	
Surge Life	Apply a standard impulse current (8/20µs of 100A) for 300 times at 60 seconds intervals.		
Cold Resistance	Measurement after -40°C/1000 HRS & normal temperature/2 HRS.	Features are conformed to rated	
Heat Resistance	Measurement after 125°C/1000 HRS & normal temperature/2 HRS.		
Humidity Resistance	Measurement after humidity 90~95°C(45°C) /1000 HRS & normal temperature/2 HRS.	spec.	
Temperature Cycle	10 times repetition of cycle -40°C/30min →normal, temp/2 min →125°C/30min, measurement after normal temp/2 HRS.		
Solder Ability	Apply flux and immerse in molten solder $230\pm5^{\circ}$ 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 $260\pm5^{\circ}C$ solder for 10sec.	Conformed to rated spec.	
Pull Strength	Apply 0.5kg load for 10sec.		
Flexural StrengthBend 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.	



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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 $^\circ\!\mathrm{C}.$

3) After soldering, do not force cool, allow the parts to cool gradually.

Hand Soldering

Solder iron temperature: $350\pm5^{\circ}$ 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

Таре	Symbol	Dimension (mm)	
	W	52.0±1.5	
	Р	10.0±0.5	
	L1-L2	1.0max.	
	Т	6.0±1.0	
	Z	1.2max.	
	R	Terminals must not project from tape.	
	t	3.2max.	
	S	0.8max.	
	D	Ф4.6max.	
↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	D1	Ф0.5±0.05	
	L	10.5max.	
Inner Box	А	75.0±5.0	
B	В	114.0±5.0	
C C	С	250.0±5.0	
	Quantity: 1000PCS		

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