

DATA SHEET

SPARK GAP – BK2-M SERIES

FEATURE

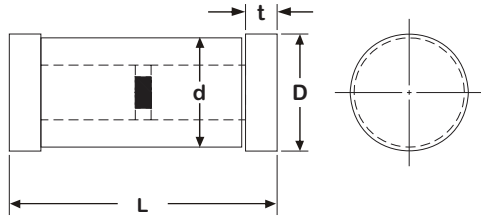


- ✧ Compared with other surge absorbers having similar functions BK series has the fast response speed , largest withstand current and voltage but smallest size.
- ✧ Zero leaking current before clamping voltage.
- ✧ All electrical characteristics are very stable even after long period of charge and discharge. There is no need for inspection and exchange periodically.
- ✧ Super capability to withstand repeated lightning strikes.
- ✧ Stable and very Small electrostatic capacitance (<0.8pf) and great isolation (>100MΩ).
- ✧ No pollution material.
- ✧ Bilateral and symmetrical.
- ✧ Completely insensitive to weather, temperature, humidity and lightness.

APPLICATION

- ✧ For Power Supplies(BK1 or BK2 Series)
 - ◆ Standard power supplies requisite by US UL1449.
 - ◆ Highly reliable power supplies.
 - ◆ Three or two phases industrial or civic machinery equipment power.
 - ◆ Power supplies for IC or electronic circuits.
 - ◆ Surge compressor for switch and relay.
- ✧ For Data Communication Equipment(BK1,BK2 or BK3 Series)
 - ◆ Standard protection required by US UL497A and UL497B.
 - ◆ Programmable switch machine.
 - ◆ Telephone
 - ◆ Fax
 - ◆ Modem
- ✧ Equipment with Antenna or Antenna/Signal Circuits including mobile equipment(BK2 or BK3 Series)
 - ◆ Standard protection required by US UL1414.
 - ◆ Satellite Antenna
 - ◆ Amplifier
 - ◆ Cassette
 - ◆ Radio
 - ◆ Alarm and sensor
- ✧ Equipment where Anti-static is Required(BK2 or BK3 Series)
 - ◆ Display including TV.
 - ◆ Monitor
 - ◆ Environment where dusty and flammable material are presented.
- ✧ All kinds of Medical equipment and devices(BK1,BK2 or BK3 Series)

DIMENSION



Item	BK2-M
L	5.0±0.5
D	φ2.8±0.5
d	φ2.6±0.5
t	0.4±0.1

ELECTRICAL CHARACTERISTICS

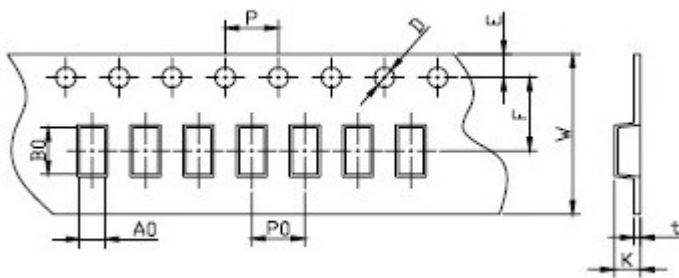
Part Number	DC Spark-over Voltage	Minimum Insulation Resistance		Maximum Capacitance (1KHz-6V _{MAX})	Surge current capacity (8/20μs)
	Vs(V)	Test Voltage(V)	IR _{OHM} (MΩ)	C(pf)	
BK2XX00702-M	140	50	100	0.8	1000A
BK2XX01002-M	200	100	100	0.8	1000A
BK2XX01102-M	220	100	100	0.8	1000A
BK2XX01502-M	300	100	100	0.8	1000A
BK2XX02002-M	400	250	100	0.8	1000A
BK2XX02502-M	500	250	100	0.8	1000A
BK2XX03002-M	600	250	100	0.8	1000A
BK2XX03502-M	700	250	100	0.8	1000A
BK2XX05002-M	1000	500	100	0.8	1000A

Note: Vs±XX%

TEST METHODS AND RESULTS

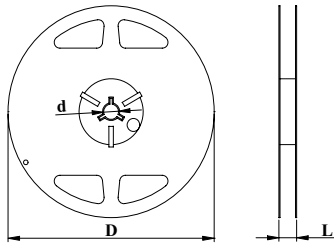
ITEM	TEST METHOD	STANDARD
Static Life	10KV with 1500pf condenser is discharged through 2KΩ resistor. 200 times at an interval of 10sec.	Rate-of-change, within ± 30% insulation resistance & capacitance, conformed to rated spec.
Cold Resistance	Measurement after -40°C/1000 HRS & normal temperature/2 HRS.	Features are conformed to rated spec.
Heat Resistance	Measurement after 125°C/1000 HRS & normal temperature/2 HRS.	
Humidity Resistance	Measurement after humidity 90~95%(45°C) /1000 HRS & normal temperature/2 HRS.	
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±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.

PLASTIC CARRIER TAPING PACKAGING



Symbol	Dimension(mm)
P	4.0±0.1
P0	4.0±0.1
W	12.0±0.2
F	5.5±0.05
E	1.5±0.1
D	Φ1.5±0.1
K	3.0±0.1
t	0.3±0.05
A0	3.0±0.1
B0	6.0±0.1

SMD REEL TAPING DRAWING



Symbol	Dimension(mm)	Quantity
D	178.0	1500PCS
d	13.0	
L	15.0	

LABEL



Notes:The "Label" on this document is for your format reference only. It is not connected to the actual model.

Notes

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