

1. Introduction

Bencent gas-filled surge arresters are designed for protecting the telecommunication installations and power supply. The components are also used in switching equipments, CRT, CATV and household appliances.

2. Model Name

<u>B3D</u>	<u>XXX</u>	<u>L</u>
(1)	(2)	(3)
(1) Bencent $\Phi 5 \times 7.6$ Series 3-electrode surge arrester		
(2) DC Breakdown Voltage (e.g., 90V, 150V, 230V, 350V, 420V etc.)		
(3) Rating Surge Current (waveform 8/20 μ S):		
L (5KA), M (10KA), H (20KA)		

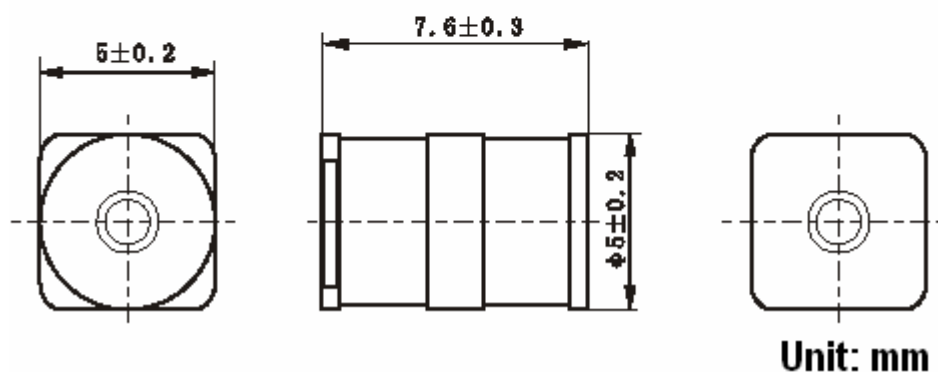
3. Features

- High Current Handling Capability
- Low Capacitance
- Fast Response
- Long Service Life
- Reliable Performance

4. Applications

- Telephone, FAX, Modem, MDF and PABX
- Power Supply (e.g.: UPS, power strip and power supply for base station in mobile telephone system)
- CRT (e.g., monitor and television)
- CATV (e.g., amplifier)
- Switching (e.g., negative ion generator, pulse igniting device, HID and motor drive circuit etc.)
- Household appliances (e.g., air conditioner)

5. Dimensions



6. Electrical Parameter (@T=25°C,RH=45%-75%)

Type①	DC Breakdown Voltage 100V/s	Tolerance of Vs	Impulse Spark-over Voltage 1kV/μs	Impulse Discharge Current 8/20μs②	Alternating Discharge current 50Hz③	Insulation Resistance		Co (10kHz @0.3V)
	V	%	V	KA	A	GΩ	DC	PF
B3D090L	90	25	≤700	5	5	≥1	25V	≤1.5
B3D150L	150	25	≤800	5	5	≥1	50V	≤1.5
B3D230L	230	25	≤800	5	5	≥1	100V	≤1.5
B3D350L	350	25	≤800	5	5	≥1	100V	≤1.5
B3D420L	420	25	≤900	5	5	≥1	100V	≤1.5

Notes:

- ① All the paramemters are tesetd according to GB/T 9043-1999 and ITU-T K12
- ② Five times of each polarity, 3 minutes interval
- ③ Tested 5 Times, Discharge 1 second,3 minutes interval

7. Marking

	Model Name	Type	Marking
Example	$\Phi 5 \times 7.6$ 3-electrod arrester	B3D090L	 0401 B3D090L

Notes :

 0401
(1) (2)

B3D 090 L
(3) (4) (5)

(1) Trade Mark

(2) Date : 0401 stands for January, 2004

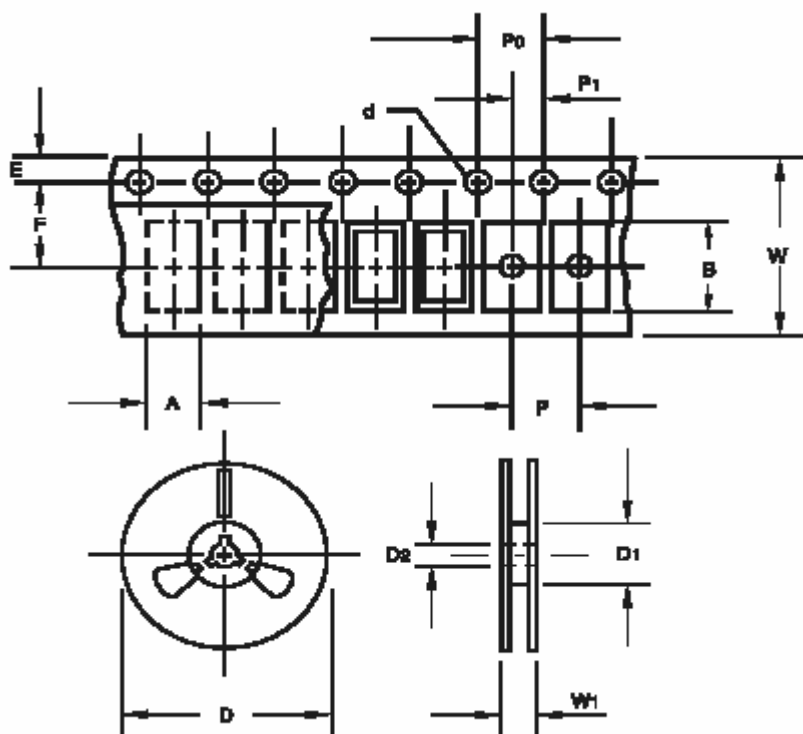
(3) B3D stands for $\Phi 5 \times 7.6$ 3-electrode

(4) DC Breakdown Voltage (e.g., 90V, 150V, 230V, 350V, 420V, etc.)

(5) Rating surge current (waveform 8/20 μ S) :

X (3KA) ; L(5KA) ; M(10KA) ; H (20KA)

8. Package



Mark	Dimension: mm(inch)
A	5.5 +/- 0.2 (.217 +/- .008)
B	8.5 +/- 0.2 (.335 +/- .008)
d	1.50 +/- 0.05 (.059 +/- .002)
D	180+0/- 1.5 (7.087 +/- .059)
D1	50 Min.(1.969Min.)
D2	13 +/- 0.5 (.512 +/- .020)
E	1.75 +/- 0.1 (.069 +/- .004)
F	5.5 +/- 0.05 (.217 +/- .002)
P	8.0 +/- 0.1 (.315 +/- .004)
P0	4.0 +/- 0.1 (.157 +/- .004)
P1	2.0 +/- 0.1 (.079 +/- .004)
W	16.0 +/- 0.3 (.629 +/- .012)
W1	20.0 +/- 1.0 (.787 +/- .039)

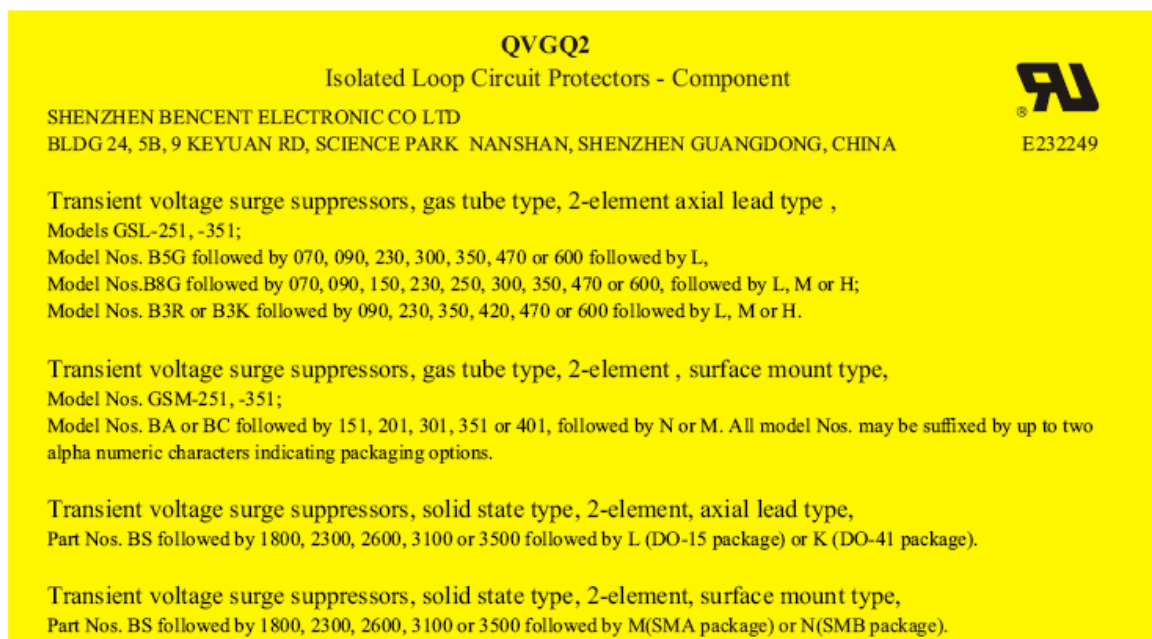
PACKAGE		QTY PER REEL/BOX (PCS)	QTY PER CARTON (PCS)	CARTON SIZE(mm)		
				L	W	H
B3D SERIES	BULK	100	6,000	390	370	220
	TAPING	400	12,000	390	370	220

9. CERTIFICATE

Certificate of ISO9001 (BSI)



Certificate of UL



[Http://www.ul.com](http://www.ul.com)

SGS

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SHENZHEN BENCENT ELECTRONICS CO., LTD
2F, BUILDING 1, PINGSHAN MINQI SCIENCE & TECHNOLOGY PARK, XILI, NANSHAN SHENZHEN, CHINA

Report on the submitted sample said to be 陶瓷气体放电管

SGS Ref No. : SZ060311221RC
Sample Receiving Date : MAR 22, 2006
Further Sample Receiving Date : MAR 28, 2006
Testing Period : MAR 22, 2006 TO APR 04, 2006

Test Requested : (1) As specified by client, Sample 1&2: to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.
(2) Sample 1: Determination of PBBs (Polybrominated Biphenyls), PBDEs (Polybrominated Diphenylethers) of the submitted sample.

Test Method : (1) Lead content - With reference to EPA method 3050B: 1996 / other acid digestion.
Cadmium content - With reference to BS EN1122: 2001 method B / other acid digestion.
Mercury content - With reference to EPA 3052: 1996 / other acid digestion.
Hexavalent Chromium content - With reference to EPA 3060A : 1996 & EPA 7196A : 1992.
Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer.
(2) With reference to EPA 3540C / 3550C. Analysis was performed by GC/MS.

Results : Please refer to next page.

Signed for and on behalf of
SGS-CSTC Ltd.


Zhang Li, Amy
Sr. Engineer

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 **GZCM 545152**

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Results :

(1)

Item	Unit	MDL	No.1	No.2
Lead Content (Pb)	ppm	2	N.D.	15
Cadmium Content (Cd)	ppm	2	N.D.	N.D.
Mercury Content (Hg)	ppm	2	N.D.	N.D.
Hexavalent Chromium Content [Cr(VI)]	ppm	2	N.D.	N.D.

Note : - N.D. = Not Detected (< MDL)
- MDL = Method Detection Limit
- ppm = mg/kg

(2)

	No.1
Flame Retardants	
Polybrominated Biphenyls (PBBs)	
Monobromobiphenyl	N.D.
Dibromobiphenyl	N.D.
Tribromobiphenyl	N.D.
Tetrabromobiphenyl	N.D.
Pentabromobiphenyl	N.D.
Hexabromobiphenyl	N.D.
Heptabromobiphenyl	N.D.
Octabromobiphenyl	N.D.
Nonabromobiphenyl	N.D.
Decabromobiphenyl	N.D.
Polybrominated Diphenylethers (PBDEs)	
Monobromodiphenyl ether	N.D.
Dibromodiphenyl ether	N.D.
Tribromodiphenyl ether	N.D.
Tetrabromodiphenyl ether	N.D.
Pentabromodiphenyl ether	N.D.
Hexabromodiphenyl ether	N.D.
Heptabromodiphenyl ether	N.D.
Octabromodiphenyl ether	N.D.
Nonabromodiphenyl ether	N.D.
Decabromodiphenyl ether	N.D.

Note : - N.D. = Not Detected (< 5 ppm)
- ppm = mg/kg

Specimen Description:

No.1 White ceramic w/ blue printing

No.2 Silvery / Coppery metal end w/ silvery metal pin

*** End of Report ***

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