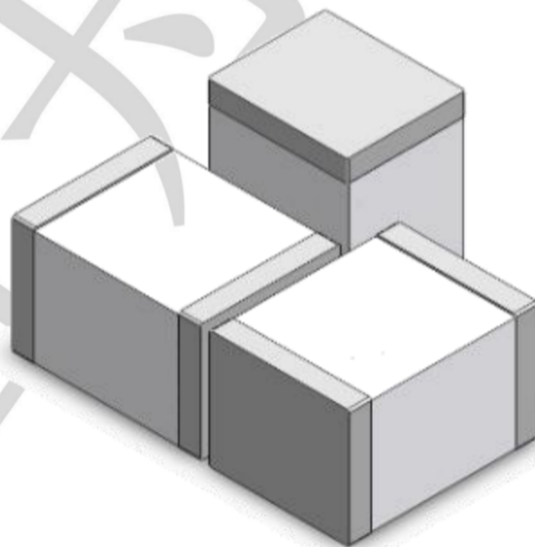


Features

- High insulation resistance
- 4KV 10/700 μ s maximum surge rating in accordance with ITU-TK.21
- Ultra low capacitance(<1pF)
- Surface mounted gas arrester
- Size 4532(1812)
- 2.0KA /1KA surge capability tested with 8/20 μ s pulse as defined by IEC 61000-4-5
- Meets MSL level 1
- Storage and operating temperature: -40 ~ +85°C

Applications

- Communication equipment
- CATV equipment
- Test equipment
- Data lines
- Power supplies
- Telecom SLIC protection
- Broadband equipment
- ADSL equipment, including ADSL2+
- XDSL equipment
- Satellite and CATV equipment
- General telecom equipment

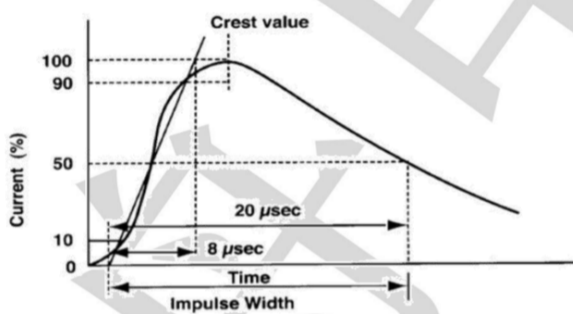


4532(1812)

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

Part Number	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Minimum Insulation Resistance	Capacitance CO 0.5VDC	Impulse withstanding Voltage Capacity	Nominal Impulse Discharge Current
	@100V/S	@1KV/ μ s	1 G Ω	@1MHz (pF)	@10/700 μ s $\pm$ 5 times	@8/20 μ s $\pm$ 5 times
BTC750N-TP	75V $\pm$ 30%	600V	at 25V DC	$\leq$ 0.6pF	4KV	2.0KA
BTC900N-TP	90V $\pm$ 30%	700V	at 50V DC	$\leq$ 0.6pF	4KV	2.0KA
BTC201N-TP	200V $\pm$ 30%	750V	at 100V DC	$\leq$ 0.6pF	4KV	2.0KA
BTC231N-TP	230V $\pm$ 30%	750V	at 100V DC	$\leq$ 0.6pF	4KV	2.0KA
BTC351N-TP	350V $\pm$ 30%	900V	at 100V DC	$\leq$ 0.6pF	4KV	2.0KA
BTC401N-TP	400V $\pm$ 30%	1000V	at 100V DC	$\leq$ 0.6pF	4KV	2.0KA
BTC601N-TP	600V $\pm$ 30%	1200V	at 100V DC	$\leq$ 0.6pF	4KV	1.0KA
BTC801N-TP	800V $\pm$ 30%	1600V	at 100V DC	$\leq$ 0.6pF	4KV	1.0KA
BTC102N-TP	1000V $\pm$ 30%	1800V	at 100V DC	$\leq$ 0.6pF	4KV	1.0KA

Electrical Rating

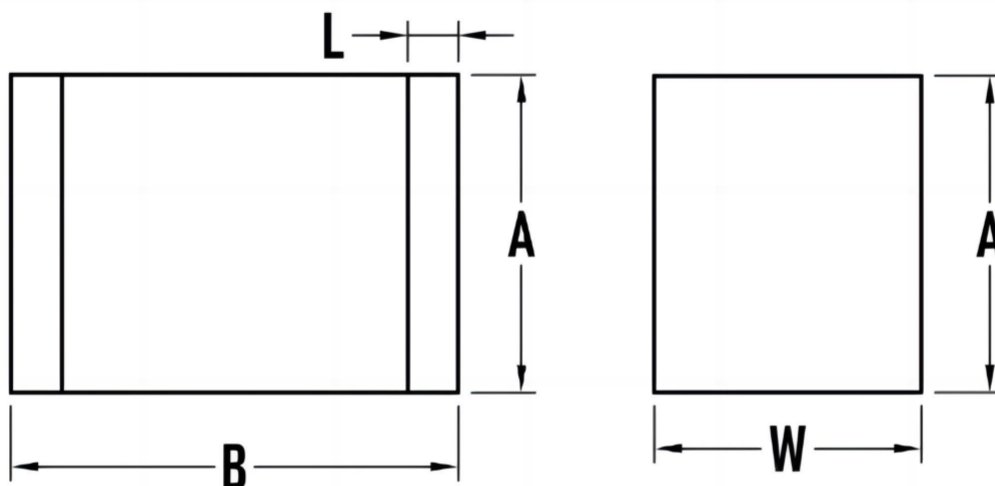
Item	Test Condition /Description	Requirement
DC Spark-over Voltage	The voltage is measured with a slowly rate of rise $dv / dt = 100V/s$	To meet The specified value
Impulse Spark-over Voltage	The maximum impulse spark-over voltage is measured with a rise time of $dv / dt = 100V/\mu s$ or $1KV/\mu s$	
Insulation Resistance	The resistance of gas tubes shall be measured each terminal to each other terminal, please see above spec.	
Capacitance	The capacitance of gas tubes shall be measured each terminal to each other terminal. Test frequency: 1MHz	
Nominal Impulse Discharge Current	The maximum current applying a wave form of 8/20 μs that can be applied across the terminals of the gas tube. One hour after the test is completed, re-testing of the DC spark-over voltage does not exceed $\pm 40\%$ of the nominal DC spark-over voltage. Dwell time between pulses is 3 minutes. 	

Cautions and warnings

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

Package Outline & Dimensions (Unit:mm)

4532(1812)



Dim.	Millimeters		
	MIN.	NOW.	MAX.
A	2.9	3.2	3.5
B	4.2	4.5	4.8
W	2.3	2.7	3.0
L	0.4	0.5	0.6

Suggested Land Pattern (Unit:mm)

