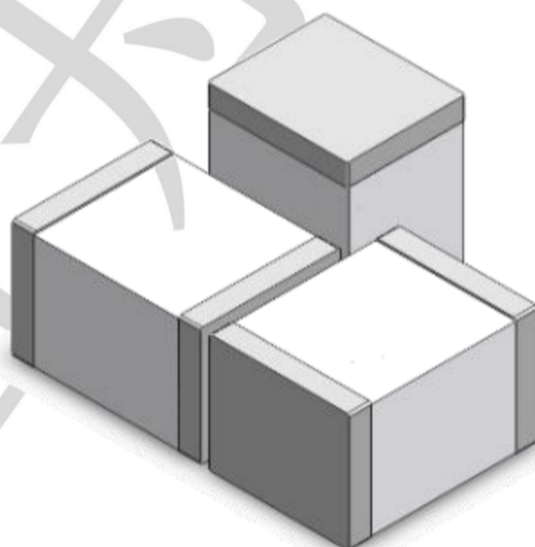


Features

- 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)

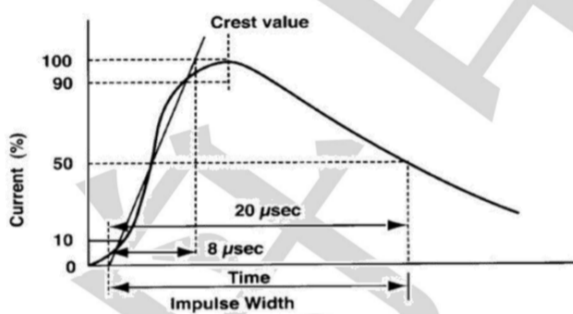
TPSMD4532 Series GDT Protection Component

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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
TPSMD4532-075NF	75V $\pm$ 30%	600V	at 25V DC	$\leq$ 0.6pF	4KV	2.0KA
TPSMD4532-090NF	90V $\pm$ 30%	700V	at 50V DC	$\leq$ 0.6pF	4KV	2.0KA
TPSMD4532-150NF	150V $\pm$ 30%	700V	at 50V DC	$\leq$ 0.6pF	4KV	2.0KA
TPSMD4532-200NF	200V $\pm$ 30%	750V	at 100V DC	$\leq$ 0.6pF	4KV	2.0KA
TPSMD4532-230NF	230V $\pm$ 30%	750V	at 100V DC	$\leq$ 0.6pF	4KV	2.0KA
TPSMD4532-300NF	300V $\pm$ 30%	900V	at 100V DC	$\leq$ 0.6pF	4KV	2.0KA
TPSMD4532-350NF	350V $\pm$ 30%	900V	at 100V DC	$\leq$ 0.6pF	4KV	2.0KA
TPSMD4532-400NF	400V $\pm$ 30%	1000V	at 100V DC	$\leq$ 0.6pF	4KV	2.0KA
TPSMD4532-470NF	470V $\pm$ 30%	1000V	at 100V DC	$\leq$ 0.6pF	4KV	2.0KA
TPSMD4532-600NF	600V $\pm$ 30%	1200V	at 100V DC	$\leq$ 0.6pF	4KV	1.0KA
TPSMD4532-800NF	800V $\pm$ 30%	1600V	at 100V DC	$\leq$ 0.6pF	4KV	1.0KA
TPSMD4532-1000NF	1000V $\pm$ 30%	1800V	at 100V DC	$\leq$ 0.6pF	4KV	1.0KA

Electrical Rating

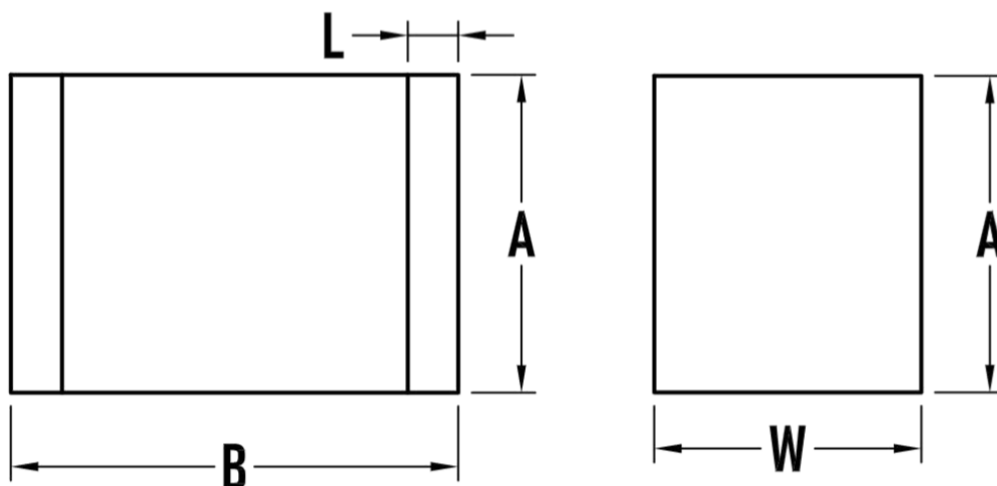
Item	Test Condition /Description	Requirement
DC Spark-over Voltage	The voltage is measured with a slowly rate of rise $dv / dt = 100V/s$	To meet The specified value
Impulse Spark-over Voltage	The maximum impulse spark-over voltage is measured with a rise time of $dv / dt = 100V/\mu s$ or $1KV/\mu s$	
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	2.9
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)

