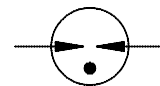
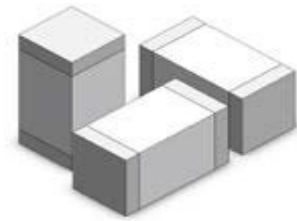


## Description

Gas discharge Tubes (GDT) are classical components for protecting the installations of the telecommunications. It is essential that IT and telecommunications systems -with their high-grade but sensitive electronic circuits - be protected by arresters. The SMD5x5 series GDT offers high surge ratings in a miniature package. It's designed for surface mounting on PCB with small size 5.0x5.0x4.2mm. Low insertion loss is perfectly suited to broadband equipment applications. The capacitance does not vary with voltage, and will not cause operational problems with ADSL2+, where capacitance variation across Tip and Ring is undesirable. These devices are extremely robust and are able to divert a 2KA pulse in a miniature package SMD5x5 without destruction.



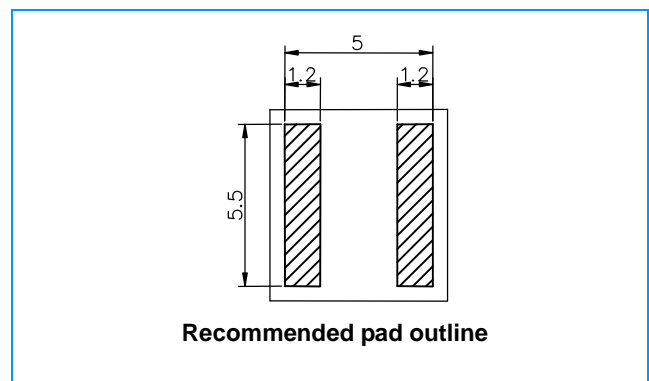
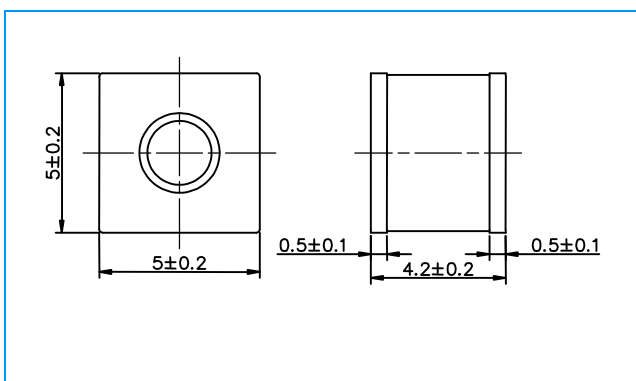
## Features

- ◆ Non-Radioactive
- ◆ RoHS compliant
- ◆ Ultra low capacitance (<0.8pF)
- ◆ UL recognized
- ◆ Excellent response to fast rising transients
- ◆ 5KA surge capability tested with 8/20μs pulse as defined by IEC 61000-4-5
- ◆ Square Outline

## 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
- ◆ ESD protection

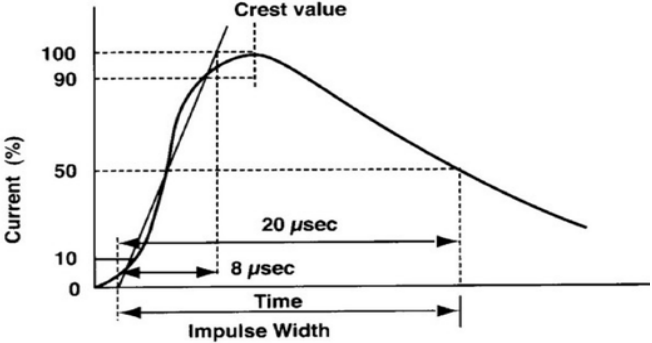
## Device Dimensions (Unit: mm)



**Electrical Characteristics**

Part Number	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage		Minimum Insulation Resistance	Maximum Capacitance	Arc Voltage	Nominal Impulse Discharge Current
		@100V/ $\mu$ s	@1KV/ $\mu$ s				
BWF900N	90V $\pm$ 30%	600V	700V	1 G $\Omega$ (at 50V DC)	0.8pF	~15V	5.0KA
BWF151N	150V $\pm$ 20%	600V	750V	1 G $\Omega$ (at 50V DC)	0.8pF	~15V	5.0KA
BWF201N	200V $\pm$ 20%	600V	750V	1 G $\Omega$ (at 100V DC)	0.8pF	~15V	5.0KA
BWF231N	230V $\pm$ 20%	600V	750V	1 G $\Omega$ (at 100V DC)	0.8pF	~15V	5.0KA
BWF301N	300V $\pm$ 20%	800V	900V	1 G $\Omega$ (at 100V DC)	0.8pF	~15V	5.0KA
BWF351N	350V $\pm$ 20%	800V	900V	1 G $\Omega$ (at 100V DC)	0.8pF	~15V	5.0KA
BWF401N	400V $\pm$ 20%	900V	1000V	1 G $\Omega$ (at 100V DC)	0.8pF	~15V	5.0KA
BWF471N	470V $\pm$ 20%	900V	1000V	1 G $\Omega$ (at 100V DC)	0.8pF	~15V	5.0KA
BWF601N	600V $\pm$ 20%	1100V	1200V	1 G $\Omega$ (at 100V DC)	0.8pF	~15V	5.0KA

**Electrical Rating**

Item	Test Condition / Description	Requirement
<b>DC Spark-over Voltage</b>	The voltage is measured with a slowly rate of rise $dv / dt=100V/s$	To meet the specified value
<b>Impulse Spark-over Voltage</b>	The maximum impulse spark-over voltage is measured with a rise time of $dv / dt=100V/\mu s$ or $1KV/\mu s$	
<b>Insulation Resistance</b>	The resistance of gas tube shall be measured each terminal each other terminal, please see above spec.	
<b>Capacitance</b>	The capacitance of gas tube shall be measured each terminal to each other terminal. Test frequency: 1MHz	
<b>Nominal Impulse Discharge Current</b>	The maximum current applying a waveform of 8/20 $\mu s$ 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. 	



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