

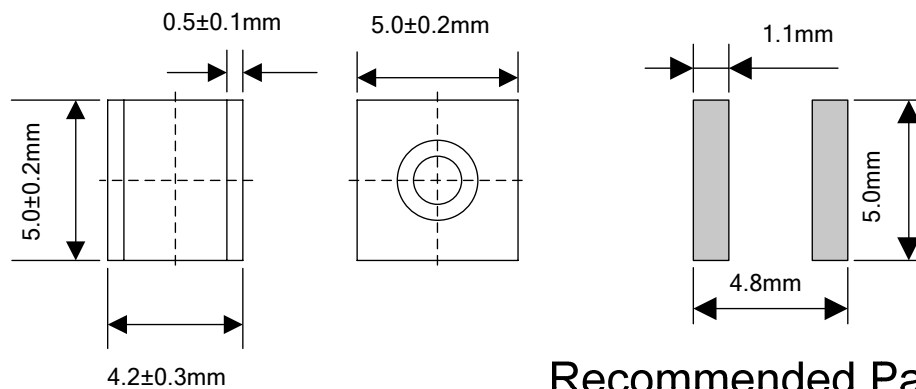
## »Features

- High insulation resistance
- 6KV 10/700µs maximum surge rating in accordance with ITU-TK.21
- Ultra low capacitance (<1.0pF)
- Surface mounted gas arrester
- Size :5.0mm\*5.0mm\*4.2mm
- 5.0KA surge capability tested with 8/20µs 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

## »Device Dimensions (Unit: mm)

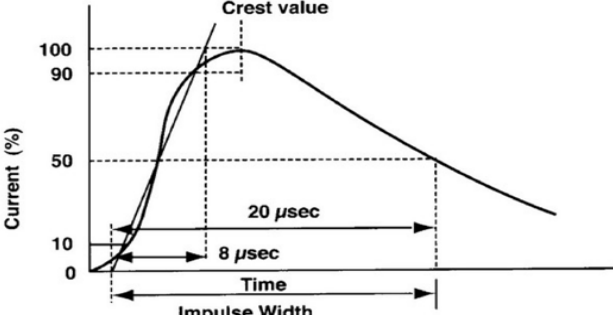


Recommended Pad Size

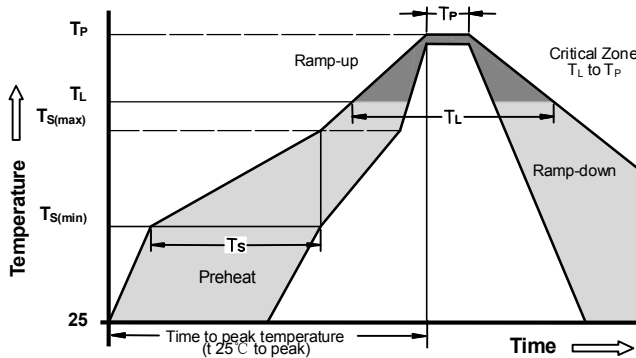
»ElectricalCharacteristics

Part Number	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Minimum Insulation Resistance	Maximum Capacitance	Impulse withstanding Voltage Capacity	Nominal Impulse Discharge Current
	@100V/S	@1KV/ $\mu$ s		@1MHz	@10/700 $\mu$ s $\pm$ 5 times	@8/20 $\mu$ s $\pm$ 5 times
BWF750N	75V $\pm$ 30%	700V	1 G $\Omega$ (at 25V DC)	1.0pF	6KV	5.0KA
BWF900N	90V $\pm$ 30%	700V	1 G $\Omega$ (at 50V DC)	1.0pF		5.0KA
BWF151N	150V $\pm$ 30%	700V	1 G $\Omega$ (at 50V DC)	1.0pF		5.0KA
BWF231N	230V $\pm$ 30%	700V	1 G $\Omega$ (at 100V DC)	1.0pF		5.0KA
BWF301N	300V $\pm$ 30%	800V	1 G $\Omega$ (at 100V DC)	1.0pF		5.0KA
BWF351N	350V $\pm$ 30%	850V	1 G $\Omega$ (at 100V DC)	1.0pF		5.0KA
BWF401N	400V $\pm$ 30%	900V	1 G $\Omega$ (at 100V DC)	1.0pF		5.0KA
BWF471N	470V $\pm$ 30%	1000V	1 G $\Omega$ (at 250V DC)	1.0pF		5.0KA
BWF601N	600V $\pm$ 30%	1200V	1 G $\Omega$ (at 250V DC)	1.0pF		5.0KA
BWF801N	800V $\pm$ 30%	1600V	1 G $\Omega$ (at 250V DC)	1.0pF		3.0KA
BWF102N	1000V $\pm$ 30%	1800V	1 G $\Omega$ (at 500V DC)	1.0pF		3.0KA

»Electrical Rating

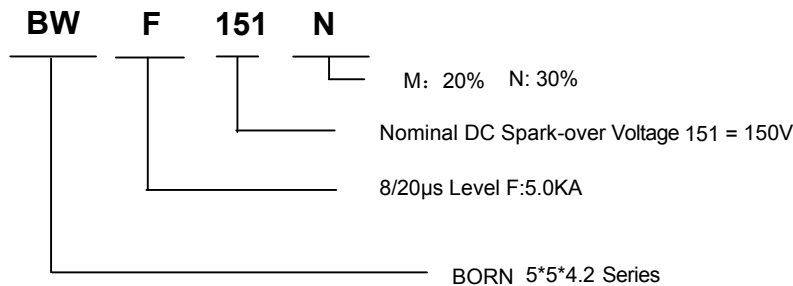
Item	Test Condition / Description	Requirement
<b>DC Spark-over Voltage</b>	The voltage is measured with a slowly rate of rise $dv / dt=100V/s$	
<b>Impulse Spark-over Voltage</b>	The maximum impulse spark-over voltage is measured with a rise time of $dv / dt=100V/\mu s$ or $1KV/\mu s$	
<b>Insulation Resistance</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>	<p>The maximum current applying a waveform of 8/20<math>\mu</math>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 <math>\pm 40\%</math> of the nominal DC spark-over voltage. Dwell time between pulses is 3 minutes.</p> 	To meet the specified value

## »Recommended solderingprofile



<b>Reflow Condition</b>		Pb - Free assembly
<b>Pre Heat</b>	-Temperature Min( $T_{s(min)}$ )	150°C
	-Temperature Max( $T_{s(max)}$ )	200°C
	- Time (min to max) ( $t_s$ )	60 -180 Seconds
<b>Average ramp up rate ( Liquidus Temp <math>T_L</math>) to peak</b>		3°C/second max
<b><math>T_{s(max)}</math> to <math>T_L</math> - Ramp-upRate</b>		5°C/second max
<b>Reflow</b>	- Temperature ( $T_L$ )(Liquidus)	217°C
	- Time (min to max) ( $t_s$ )	60 -150 Seconds
<b>Peak Temperature(<math>T_P</math>)</b>		260 +0/-5°C
<b>Time within 5°C of actual peak Temperature (<math>t_p</math>)</b>		10 - 30 Seconds
<b>Ramp-down Rate</b>		6°C/second max
<b>Time 25°C to peak Temperature (<math>T_P</math>)</b>		8 minutes Max
<b>Do not exceed</b>		260°C

## »Part Numbering



## »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.

»Packaging

Tape	Items	Dimension (mm)		
		Spec.	Tolerance	
<p>Technical drawing of a carrier tape showing dimensions: P0, P1, P2, D0, E, F, W, A0, B0, K0, and t0. The drawing includes a top view of the tape with five components, a side view of a component, and a cross-section of the tape.</p>	W	16.00	±0.20	
	P0	4.00	±0.10	
	P1	12.00	±0.20	
	P2	2.00	±0.10	
	D0	1.50	±0.10	
	E	1.75	±0.10	
	F	7.50	±0.10	
	A0	5.30	±0.10	
	K0	5.40	±0.10	
	B0	4.50	±0.10	
	t0	0.40	±0.10	
	Reel	D	330.00	±1.00
	<p>Technical drawing of a reel showing dimensions: D, d, L, and t. The drawing includes a top view of the reel and a side view of the tape.</p>	d	13.00	±0.50
		L	20.00	±0.50
t		2.00	±0.20	
Quantity: 1000pcs				

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