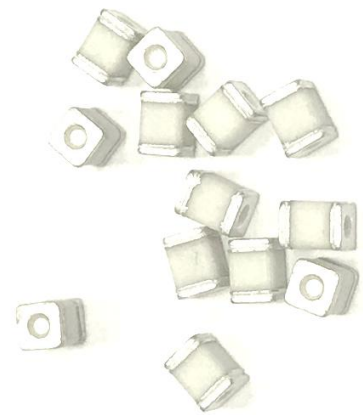


Chip Series

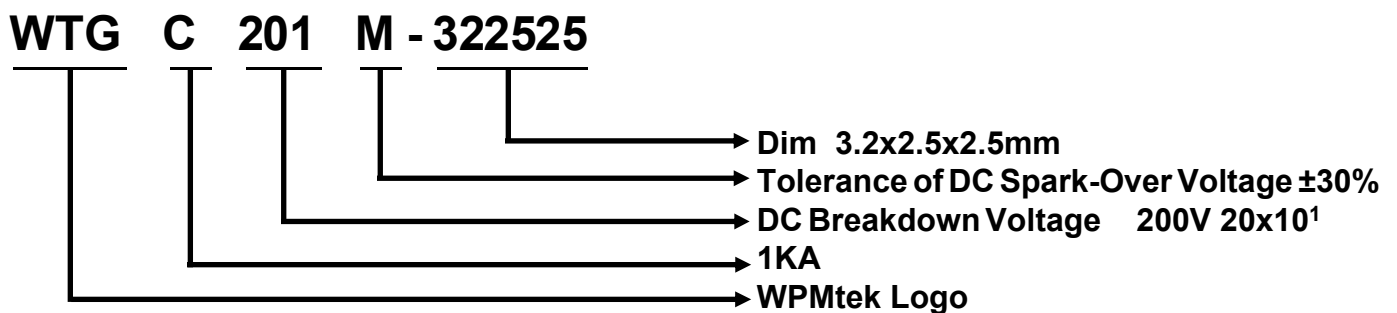
1. High insulation resistance
2. Low capacitance ($\leq 0.5\text{pF}$)
3. 1000A 8/20 μs maximum surge current capacity in accordance with IEC61000-4-5
4. 6KV 10/700 μs maximum surge rating in accordance with ITU-TK.21
5. Surface mounted gas arrester
6. Micro-Gap Design
7. Size 3.2x2.5x2.5 mm
8. Storage and operating temperature: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
9. Meets MSL level 1, per J-STD-020
10. Safety certification: E221527



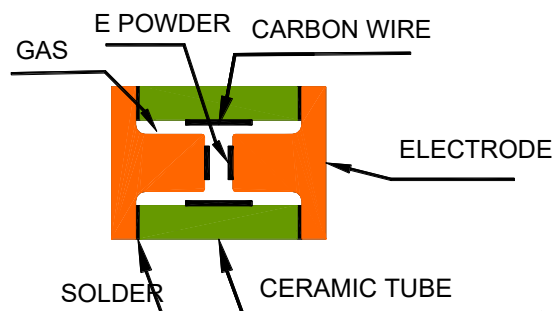
Applications

1. Repeaters, Modems
2. Telephone Interface, Line cards
3. Data communication equipment
4. Line test equipment

How to Order



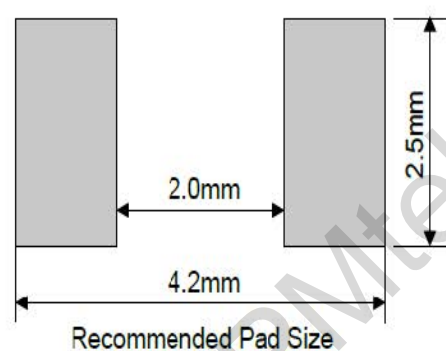
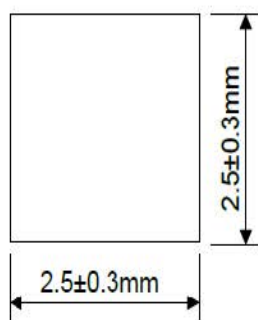
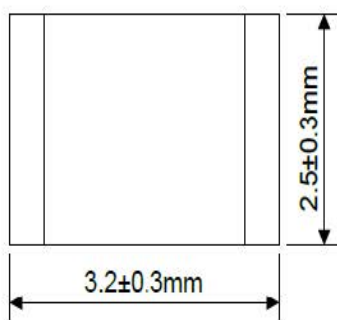
Structure



Electrical Specification

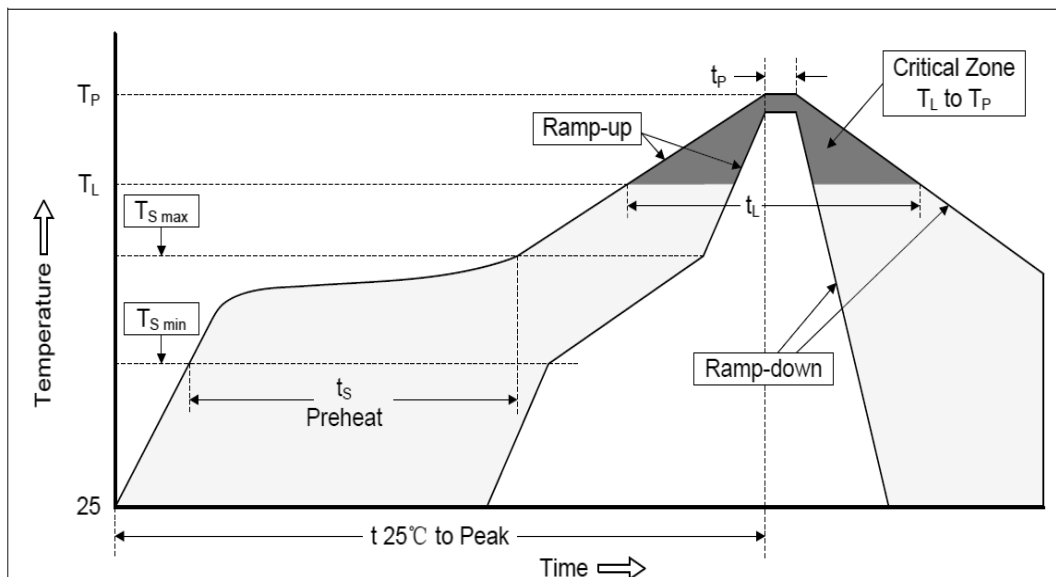
Part Number	DC Breakdown Voltage 100v/s	Impulse Discharge Current	Impulse Withstanding Voltage Capacity	Impulse Spark-over Voltage 1kv/us	Insulation Resistance	Capacitance (1MHz 1V)
WTGC091N-322525	90V±30%	8/20 us 1000A	10/700 us 6kV Positive/ Negative 5 Times	≤ 650v	1GΩ Min (DC 100V)	0.5PF
WTGC121N-322525	120V±30%			≤ 750V		
WTGC151N-322525	150V±30%			≤ 750V		
WTGC201N-322525	200V±20%			≤ 800v		
WTGC231N-322525	230V±20%			≤ 950v		
WTGC301N-322525	300V±20%			≤ 950v		
WTGC351N-322525	350V±20%			≤ 950v		
WTGC401N-322525	400V±20%			≤ 1050v	1GΩ Min (DC 250V)	
WTGC421N-322525	420V±20%			≤ 1050v		
WTGC501N-322525	500V±20%			≤ 1100v		

Dimensions



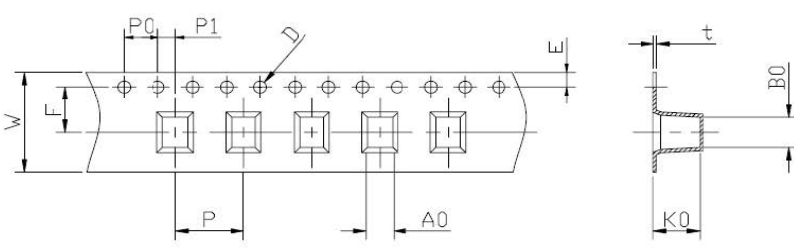
Recommended Soldering Conditions

Reflow Soldering



Profile Feature	Pb-Free Assembly
Average ramp-up rate (T_L to T_P)	3°C/second max.
Preheat	
-Temperature Min ($T_{S\ min}$)	150°C
-Temperature Max ($T_{S\ max}$)	200°C
-Time (min to max) (t_s)	60-180 seconds
$T_{S\ max}$ to T_L	
-Ramp-up Rate	3°C/second max.
Time maintained above:	
-Temperature (T_L)	217°C
-Time (t_L)	60-150 seconds
Peak Temperature (T_P)	260°C
Time within 5°C of actual Peak Temperature (t_p)	20-40 seconds
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max.

Packaging

Tape	Items	Dimension (mm)	
		Spec.	Tolerance
	W	12.00	±0.20
	A0	2.90	±0.10
	B0	3.60	±0.10
	K0	2.90	±0.10
	E	1.75	±0.10
	F	5.50	±0.10
	D	1.55	±0.10
	P	8.00	±0.10
	P0	4.00	±0.10
	P1	2.00	±0.10
	t	0.40	±0.10
	D	300.00	±1.00
	d	13.00	±0.50
Reel	L	16.00	±0.50
	t	2.00	±0.20
	Quantity: 2500pcs		

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