

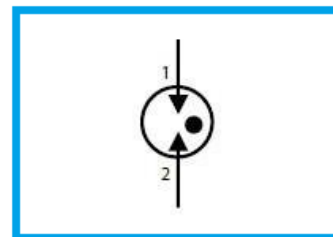
1. Features

- DC Spark-over voltage: 1200V
- Low Capacitance
- Micro-Gap Design
- Stable breakdown voltage
- RoHS & HF compliant
- High holdover voltage
- High insulation resistance
- Large absorbing transient current capability.
- UL approval to UL1449 File E535562



2. Applications

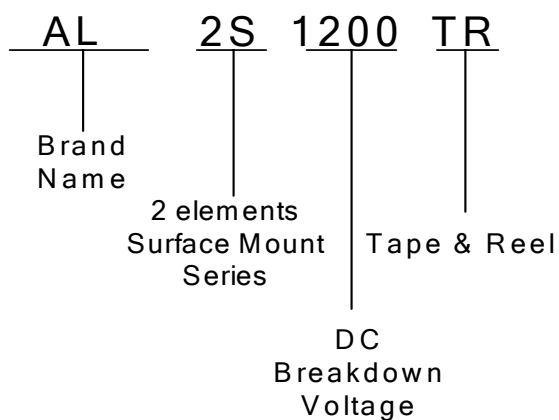
- Communication equipment
- Test equipment
- Data lines
- CATV equipment
- Power Supplies
- Telecom SLIC protection
- Telecommunications



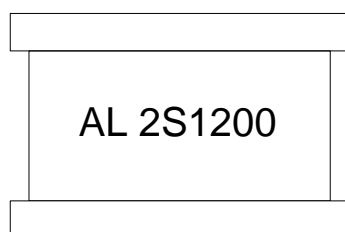
3. General Characteristics Definition

- Operating temperature: -40 ~ 85°C
- Storage temperature: -40 ~ 85°C

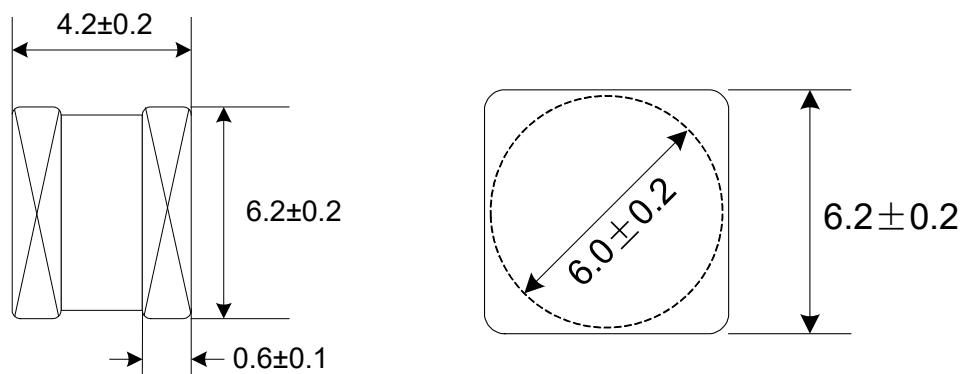
4. Part number code



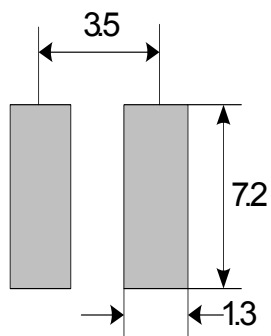
5. Marking:



6. Outline Drawing



Recommended Pad Size



7. Specification

Electrical Specification

Model Name	DC Breakdown Voltage (V)	Maximum Impulse Breakdown Voltage (V)		Maximum Impulse Discharge Current (8/20us) (KA)		Normal Alternating Discharge current (A)		Impulse Life (10/1000us) (100A)	DC Holdover Voltage (V)	Minimum Insulation Resistance (GΩ)	Maximum Capacitance (pf)
	100V/s	100V/us	1000V/us	1time	10times	50Hz 1sec	Single 9 cycles	times	<150ms		1MHZ
2S-1200	1200±20%	1700	1800	5	3	3	10	300	150	1	0.8

Note : DC Breakdown Voltage

DC Measuring Voltage

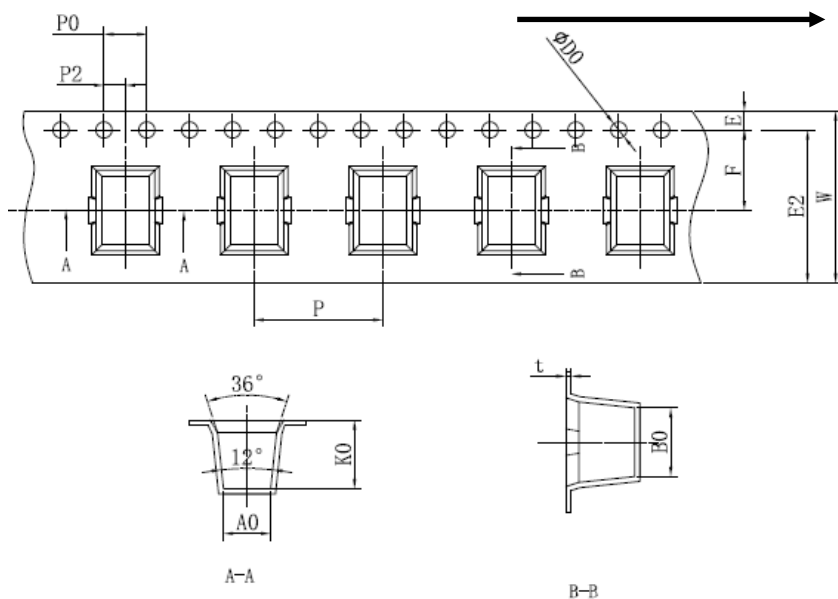
1000-2000V

500V

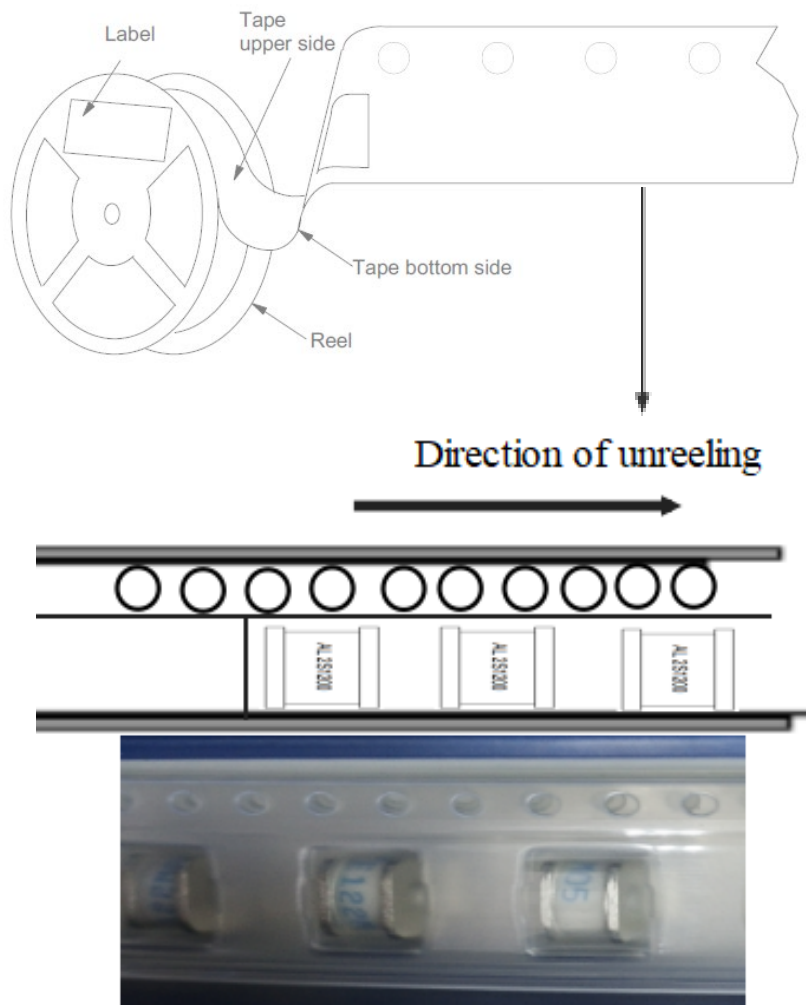
2500-3000V

1000V

Taping



Item	Dimensions/mm
A0	4.35 ± 0.1
B0	6.35 ± 0.1
K0	6.5 + 0.2 / - 0.1
P	12.0 ± 0.1
W	16.0 ± 0.3
E	1.75 ± 0.1
F	7.5 ± 0.1
D0	1.5 + 0.1 / - 0
P0	4.0 ± 0.1
P2	2.0 ± 0.1
t	0.5 ± 0.05



Packing Quantity : 800 pieces per reel (13")
3 reels per inner box
5 inner boxes per carton
12,000 pieces per full carton

8. Electrical rating

Item	Test Condition / Description		Requirement
DC Breakdown Voltage	The voltage measured at a rise time of 100v/s.		To meet the specified value
Maximum Impulse Breakdown Voltage	The maximum breakdown voltage at rise times of 100v/us and 1000v/us.		
Maximum Impulse Discharge Current	The maximum current applying a waveform of 8/20us that can be applied across the terminals of the gas tube without causing the gas tube to change more than ±25% from its initial measured DC breakdown voltage. Dwell time between pulses is 3 minutes.		
Alternating Discharge Current	Rated RMS value of AC current at 50Hz, 1 sec. 10 times. Intervals: 3min. DC breakdown voltage may not change more than ±25% from its initial measured DC breakdown voltage. IR > 10 ⁸ ohms (-20%, +30% for 70 – 90V).		
Impulse Life	The minimum number of impulses of a specified waveform and peak current which a gas tube will conduct without causing the gas tube to change more than ±25% from its initial measured DC breakdown voltage. Dwell time between pulses is 1-2 minutes.		
DC Holdover Voltage	The maximum DC voltage across the two terminals of the gas tube under which it may be expected to return to the high impedance state after the gas tube breakdown.		
Insulation Resistance	The resistance of the gas tube shall be measured each terminal to each other terminal.		
	DC Breakdown Voltage	Measuring Voltage	
	70-150V	50V	
	151-400V	100V	
	470-1000V	250V	
	1001-2000V	500V	
	2001-6000V	1000V	
Capacitance	The capacitance of a gas tube shall be measured each terminal to each other terminal. Test frequency: 1MHz In measurements involving 3-electrode gas tubes, the terminal not being tested shall be connected to a ground plane.		