



PRODUCT SPECIFICATION

规格书

Customer (客户名称): 三华

Customer P/N (客户料号): 14-GS200N-XNM

Aillen P/N(爱伦料号): AL4532200LFTR

CATEGORY(品名): GDT气体放电管

DESCRIPTION(描述): GDT 气体放电管,200V $\pm$ 20%,SMD4.5*3.2mm

Spec No.(承认书编号): 250910001

Date(发行日期): 2025-09-10

AILLEN	
PREPARED (拟定)	CHECKED (审核)
Robin	Emily

CUSTOMER	
Please sign a copy after accepting	
APPROVAL (批准)	SIGNATURE (签名)

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1. Features:

The Gas Discharge Tube (GDT) is a protective device which is filled with certain proportion of noble gas, or mixed gas or other discharge media in the space between metal electrodes and metalized ceramics, and then sealed at high temperature to form a single gap or multi-gap switch type protective device. When the protected circuit or equipment suffers to surge, GDT will change from high impedance state to low impedance state and release the surge energy to reduce the residual voltage of the circuit, and then protect the equipment or human body from the hazard of transient overvoltage.

Fast Response

Stable Performance Over Surface Life

High Current Rating

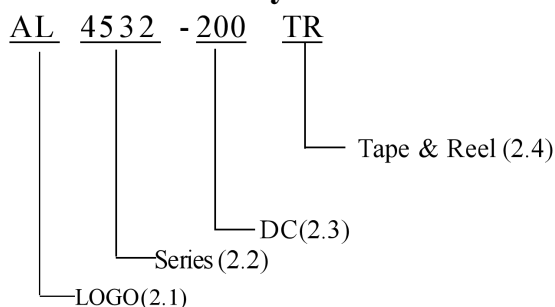
Low Capacitance

High Insulation Resistance

RoHS & REACH Compliant

MSL:Level 1

2. Part Number System



2.1 LOGO Name:

Code	AL
LOGO	Aillen

2.2 Size:

Code	4532
Size	4.5*3.2

2.3 DC Breakdown Voltage:

Code	200
Voltage(VDC)	200±20%

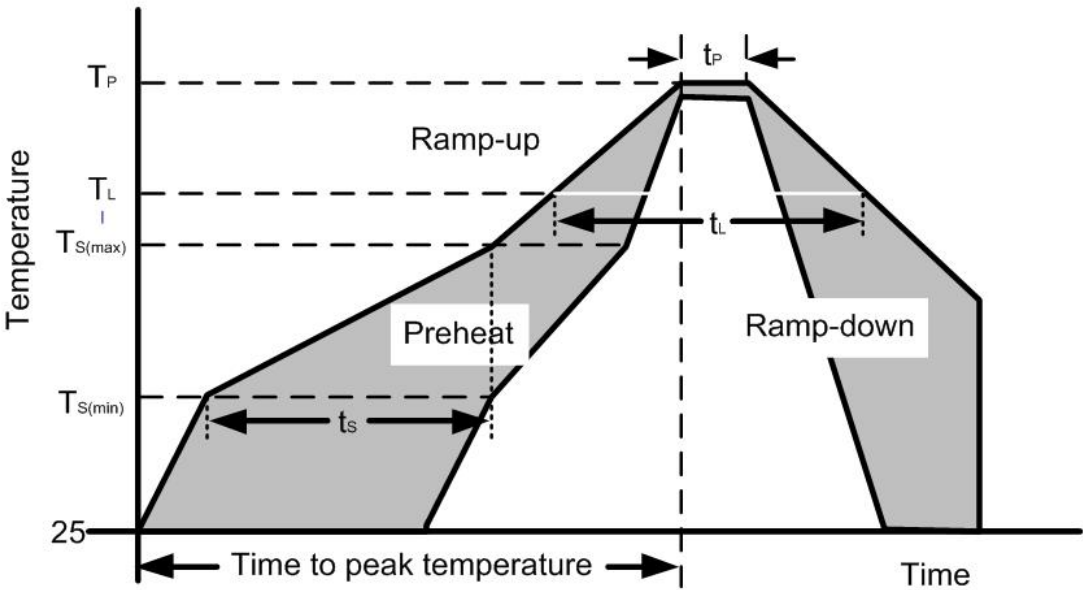
2.4 Package

Code	TR
Package	Tape & Reel

3.Product Information

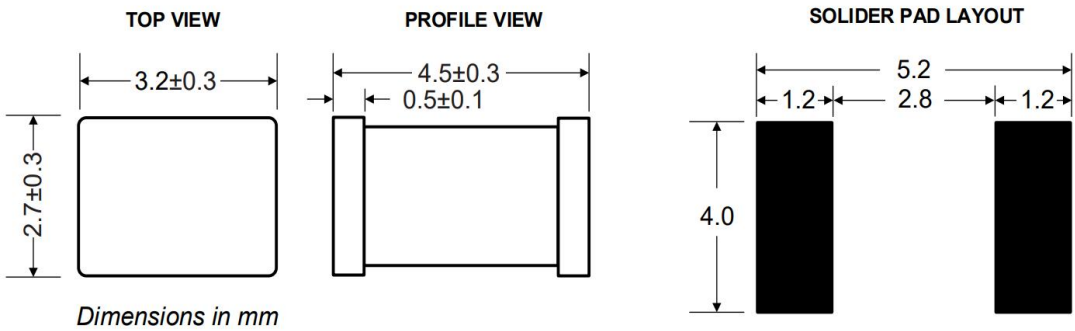
3.1 Reflow Profile

Reflow Condition		Pb – Free assembly
Pre Heat	Temperature Min ($T_{s(min)}$)	150°C
	Temperature Max ($T_{s(max)}$)	200°C
	Time (min to max) (t_s)	60 – 180 secs
$T_{s(max)}$ to T_L —Ramp-up Rate		3°C/second max
Reflow	Temperature (T_L) (Liquidus)	217°C
	Temperature (t_L)	60 – 150 seconds
Peak Temperature (T_P)		260 ^{+0/-5} °C
Time within actual peak Temperature (t_P)		20 – 40 seconds
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature (T_P)		8 minutes Max.
Do not exceed		260°C

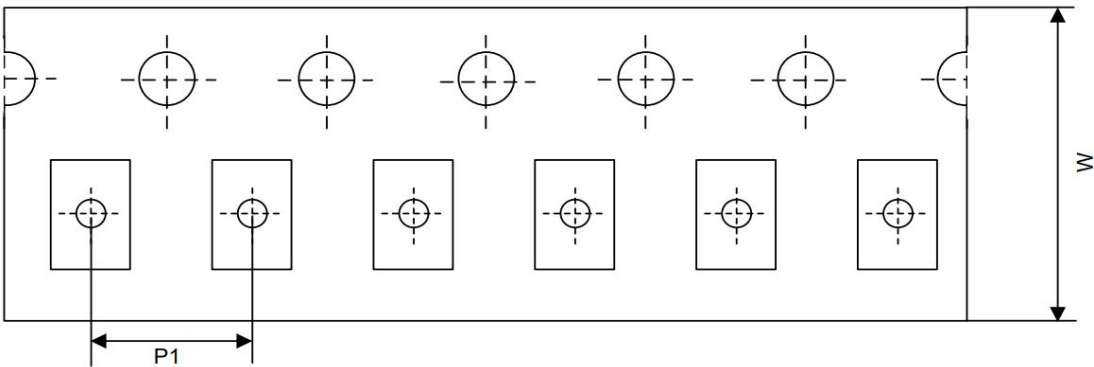


3.2 Dimensions

Unit: mm



3.3 Packing



Item	P	W
Dimensions/mm	8.0 ± 0.1	12.0 ± 0.3

4 . Specifications(accordance with ITU-T Rec. K.12 and IEC 61643-311.)

Model Name	DC Breakdown Voltage	Maximum Impulse Breakdown Voltage 1KV/ μ s	Maximum Impulse Discharge Current 8/20 μ s	Minimum Insulation Resistance	Maximum Capacitance
	(V)	(V)	(KA)	(G Ω)	(pf)
	100~2000V/S	1KV/ μ s	10 times	Note 1	1MHz
4532-200	200 $\pm$ 20%	600	2	1	0.1

5 .Technical Term or Test methods**5.1Storage onditions (-40°C~85°C)**

Storage conditions without voltage applied

Please store products in the environments of dry,ventilation and no-corrosion,period

One year.

6.2 Operational temperature (-55°C~125°C)

Gas discharge tubes shall be capable of withstanding during operational conditions without damage