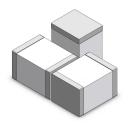


Description

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 1812 series GDT offers high surge ratings in a miniature package. It's designed for surface mounting on PCB with small size 4.5x3.2x2.7mm. 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 500A pulse in a miniature package 1812 without destruction.



Schematic Symbol



Features

- ♦ Non-Radioactive
- ♦ RoHS compliant
- ◆ Ultra low capacitance (<1.0 pF)
- UL recognized
- Excellent response to fast rising transients
- 2KA surge capability tested with 8/20µs pulse as defined by IEC 61000-4-5
- ♦ Square Outline

Applications

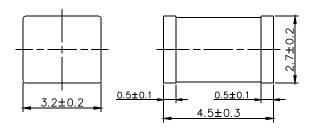
- Communication equipment
- CATV equipment
- Test equipment
- Data lines
- Power supplies
- ◆ Telecom SLIC protection
- Broadband equipment
- ADSL equipment, including ADSL2+
- XDSL equipment
- Satellite and CATV equipment
- General telecom equipment
- ♦ ESD protection

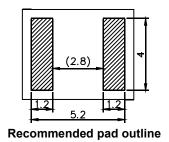
Product Characteristics

Materials	Dull Tin-plated
Product Marking	Without
Storage and Operational Temperature	-40 to +90°C
Weight	~180mg
Climatic category (IEC 60068-1)	40/ 90/ 21



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/S	@100V/µs	@1KV/µs		@1MHz	@1A	@8/20µs ±5 times
K4532-075-LF	75V±30%	<600V	<700V	1 GΩ (at 50V DC)	<1.0pF	~15V	2 KA
K4532-090-LF	90V±20%	<600V	<700V	1 GΩ (at 50V DC)	<1.0pF	~15V	2 KA
K4532-150-LF	150V±20%	<600V	<700V	1 GΩ (at 50V DC)	<1.0pF	~15V	2 KA
K4532-200-LF	200V±20%	<600V	<750V	1 GΩ (at 100V DC)	<1.0pF	~15V	2 KA
K4532-230-LF	230V±20%	<600V	<750V	1 GΩ (at 100V DC)	<1.0pF	~15V	2 KA
K4532-300-LF	300V±20%	<800V	<900V	1 GΩ (at 100V DC)	<1.0pF	~15V	2 KA
K4532-350-LF	350V±20%	<800V	<900V	1 GΩ (at 100V DC)	<1.0pF	~15V	2 KA
K4532-400-LF	400V±20%	<900V	<1000V	1 GΩ (at 100V DC)	<1.0pF	~15V	2 KA
K4532-420-LF	420V±20%	<900V	<1000V	1 GΩ (at 100V DC)	<1.0pF	~15V	2 KA
K4532-470-LF	470V±20%	<900V	<1000V	1 GΩ (at 100V DC)	<1.0pF	~15V	2 KA
K4532-600-LF	600V±20%	<1100V	<1200V	1 GΩ (at 100V DC)	<1.0pF	~15V	2 KA

Notes

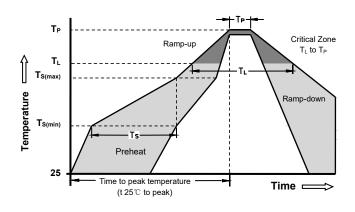
- 1. Terms in accordance with ITU-T K.12 and GB/T 9043-2008
- 2. At delivery AQL 0.65 level $\,\mathrm{II}$, DIN ISO 2859



Electrical Rating

Item	Test Condition / Description		
DC Spark-over Voltage	The voltage is measured with a slowly rate of rise dv / dt=100V/s		
Impulse Spark-over Voltage	The maximum impulse spark-over voltage is measured with a rise time of dv / dt=100V//µs or 1KV/µs		
Insulation Resistance	The resistance of gas tube shall be measured each terminal each other terminal, please see above spec.		
Capacitance	The capacitance of gas tube shall be measured each terminal to each other terminal. Test frequency:1MHz		
Nominal Impulse Discharge Current	The maximum current applying a waveform of 8/20µs 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 ±30% of the nominal DC spark-over voltage. Dwell time between pulses is 3 minutes.	To meet the specified value	

Recommended soldering profile



Reflow Condition		Pb - Free assembly		
	-Temperature Min (T _{s(min)})	150°C		
Pre Heat	-Temperature Max (T _{s(max)})	200°C		
	- Time (min to max) (t _s)	60 -180 Seconds		
Average ramp up rate (Liquidus Temp T_L) to peak		3°C/second max		
T _{S(max)} to TL - Ramp-up Rate		5°C/second max		
Reflow	- Temperature (T _L) (Liquidus)	217°C		
	- Time (min to max) (t _s)	60 -150 Seconds		
Peak Temperature (T _P)		260 +0/-5°C		
Time within 5°C of actual peak Temperature $(t_{\mbox{\tiny p}})$		10 - 30 Seconds		
Ramp-down Rate		6°C/second max		
Time 25°C to peak Temperature (T _P)		8 minutes Max		
Do not exceed		260°C		

单击下面可查看定价,库存,交付和生命周期等信息

<u>>>KUU(永裕泰)</u>