



## 8DL090M Gas Discharge Tube Arrestor Ø8\*10mm Three Pole Ceramic

### Basic Information

- Place of Origin: Dongguan, Guangdong, China
- Brand Name: LINKUN
- Certification: UL TUV CCC VDE CSA RoHS
- Model Number: 8DL090
- Minimum Order Quantity: Negotiate
- Price: Negotiate
- Packaging Details: Negotiate
- Delivery Time: 6-10 days
- Payment Terms: L/C, D/P, T/T, Western Union, MoneyGram
- Supply Ability: 100,000 0pieces/month

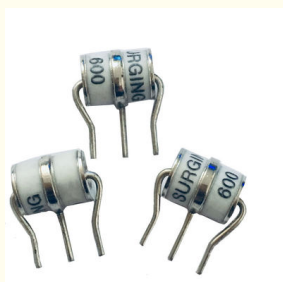


### Product Specification

- Suppressor Type: 3 Electrode Gas Discharge Tube
- Product Name: Ceramic Gas Discharge Tube GDT
- Type: Lightning Tube
- DC Spark-over Voltage@ 100V/S V: 90 V  $\pm$ 20%
- Impulse Spark-over Voltage <450V @100V/ $\mu$ s V:
- Impulse Spark-over Voltage <550V @1KV/ $\mu$ s V:
- Insulation Resistance:  $\geq$ 1G $\Omega$
- Maximum Surge Current: 10 KA
- Impulse Discharge Current: 10KA (8/20 $\mu$ s 10times)
- AC Discharge Current: 10A(50Hz 1s 10times)
- Mounting Type: Surface Mount
- Number Of Pin: 3pin
- High Light: Gas Discharge Tube Arrestor Ø8\*10mm



### More Images



## Product Description

### Product performance:

Ceramic gas discharge tube is the most widely used switching device in lightning protection equipment. Whether it is lightning protection for AC or DC power supplies or lightning protection for various signal circuits, it can be used to discharge lightning current into the earth. Its main characteristics are: large discharge current, small inter-electrode capacitance ( $\leq 3\text{pF}$ ), high insulation resistance ( $\geq 109\Omega$ ), large breakdown voltage dispersion ( $\pm 20\%$ ), and slightly slower reaction speed (the shortest is  $0.1\sim 0.2\mu\text{s}$ ). According to the number of electrodes, there are two types: diode discharge tubes and triode discharge tubes (equivalent to two diode discharge tubes connected in series). Its appearance is cylindrical, and it has two structural forms: with and without leads (some also have a protection card for short circuit when overheating).

Glass-sealed discharge tube (product description) Micro surge absorber is an overvoltage protection device that suppresses abnormal high-voltage pulses and protects low-voltage circuits from damage by instantaneous high-voltage (such as lightning, high-voltage noise from the power grid, high-voltage static electricity, etc.). It is a guided protection component developed using the principle of micro-gap discharge and the activation of semiconductor chips. It has the advantages of fast response, impact resistance, stable performance, good repeatability and long life.

A semiconductor discharge tube (also called a solid discharge tube) is a PNP component, which is regarded as a free voltage-controlled thyristor without a gate electrode. When the voltage exceeds its off-state peak voltage (or avalanche voltage) When the semiconductor discharge occurs, the transient voltage will be clamped to within the switching voltage (or breakover voltage) value of the component. When the voltage continues to increase, the semiconductor discharge tube enters the conduction state due to the negative resistance effect. Only when the current is less than the holding current, the component resets and returns to its high impedance state

### Gas Discharge Tube Arrester Ø8\*10mm 8DL090M Three-Pole Ceramic

3\*

**Ø8\*10mm**

**2-Electrode Gas Discharge Tubes** **10KA**

**1: Dimension(mm)**

**2: Main Applications**

- PCI Cards protection
- Telephone/Fax/Modem protection
- single line protection
- ADSL/XDSL Splitter Power Supply
- Surge Protection Device/Surge Protector

**3: Features**

- 100% Lead-Free (RoHS Compliant)
- Non-Radioactive
- Low capacitance ( $\leq 1\text{pF}$ )
- Small size : Ø8\*10(mm)
- **Safety certification:**

**UL RoHS**

### Electrical Characteristics

Part Number	DC Spark-over Voltage@ 100V/S	Impulse Spark-over Voltage @100V/ $\mu\text{s}$	Impulse Spark-over Voltage @1KV/ $\mu\text{s}$	Insulation Resistance	Impulse discharge current(8/20 $\mu\text{s}$ )	AC discharge current (50Hz, 1s, 10times)	Capacitance (1MHz)
	V	V	V	GΩ	10 Times	A	PF
3R8-75	75 $\pm 20\%$	<450	<550	>1	10KA	10	$\leq 1$
3R8-90	90 $\pm 20\%$	<450	<550	>1	10KA	10	$\leq 1$
3R8-150	150 $\pm 20\%$	<500	<600	>1	10KA	10	$\leq 1$
3R8-230	230 $\pm 20\%$	<600	<700	>1	10KA	10	$\leq 1$
3R8-250	250 $\pm 20\%$	<600	<700	>1	10KA	10	$\leq 1$
3R8-300	300 $\pm 20\%$	<600	<700	>1	10KA	10	$\leq 1$
3R8-350	350 $\pm 20\%$	<900	$\leq 1000$	>1	10KA	10	$\leq 1$
3R8-400	400 $\pm 20\%$	<900	$\leq 1000$	>1	10KA	10	$\leq 1$
3R8-420	420 $\pm 20\%$	<900	$\leq 1000$	>1	10KA	10	$\leq 1$
3R8-470	470 $\pm 20\%$	<1050	$\leq 1150$	>1	10KA	10	$\leq 1$
3R8-600	600 $\pm 20\%$	<1200	$\leq 1300$	>1	10KA	10	$\leq 1$

### Electrical Characteristics

Specifications are subject to change without notice



## Product Description:

Ceramic Gas Discharge Tube GDT

Ceramic Gas Discharge Tube GDT is a type of three-pole gaseous-discharge component which is mainly used to provide reliable over-voltage protection for electronic circuits. It has a high insulation resistance of  $\geq 1\text{G}\Omega$ , a low impulse spark over voltage of  $\leq 600\text{V}$ , and a low electrode capacitance of  $\leq 1.5\text{PF}$ . It is also capable of withstanding up to 10A of AC discharge current (50Hz 1s 10times).

## Features:

Product Name: Gas Discharge Tube

Product Name: Ceramic Gas Discharge Tube GDT

Type: GDT

Suppressor Type: 3 Electrode Gas Discharge Tube

AC Discharge Current: 10A(50Hz 1s 10times)

Surge Current: 8x10mm

Diode discharge tube

Gas-Discharge Device

Gaseous-Discharge Component

Overvoltage Protection

## Technical Parameters:

Parameter	Specification
Product Name	Ceramic Gas Discharge Tube GDT
Type	GDT
Maximum Surge Current	10 KA
Surge Current	8x10mm
DC Spark Over Voltage	230V(100v/s)
AC Discharge Current	10A(50Hz 1s 10times)
Impulse Discharge Current	10KA (8/20 $\mu\text{s}$ 10times)
Mounting Type	Surface Mount
Number Of Pin	3pin
High Light	SMD 3 Gas Discharge Tube, 3 Pin GDT Gas Discharge Tube, 230V 20% 10kA Gas Tube Arrester

## Applications:

LINKUN 8TL230M Ceramic Gas Discharge Tube GDT Application and Scenario

LINKUN 8TL230M Ceramic Gas Discharge Tube GDT is a gaseous-discharge tube that provides efficient protection against high-voltage transients. It is specifically designed for AC discharge current up to 10A(50Hz 1s 10times) and DC spark over voltage up to 230V(100v/s). The maximum surge current of LINKUN 8TL230M Ceramic Gas Discharge Tube GDT is up to 10 KA, making it suitable for a wide range of applications. It is easy to install with surface mounting. LINKUN 8TL230M Ceramic Gas Discharge Tube GDT is a reliable and cost-effective solution for over-voltage protection in a variety of industries and applications.

LINKUN 8TL230M Ceramic Gas Discharge Tube GDT can be used in various industrial and commercial scenarios, such as power supplies, communication systems, high-voltage electrical circuits, military equipment, automatic control systems, electronic security systems, automotive electronics, and consumer electronics. It is also suitable for applications such as outdoor lighting, automotive lighting, LED lighting, solar energy systems, power distribution systems, and data centers. LINKUN 8TL230M Ceramic Gas Discharge Tube GDT is also widely used in medical, transportation, and aerospace industries, where high-voltage protection is required.

LINKUN 8TL230M Ceramic Gas Discharge Tube GDT is the ideal choice for any application that requires reliable over-voltage protection. It is easy to install and provides efficient protection against high-voltage transients. With its superior performance and reliable protection, LINKUN 8TL230M Ceramic Gas Discharge Tube GDT is the perfect solution for any application that needs reliable over-voltage protection.

### Customization:

Gas Discharge Tube Customization Service

**Brand Name:** LINKUN

**Model Number:** 8TL230M

**Place of Origin:** Dongguan, Guangdong, China

**Maximum Surge Current:** 10 KA

**Electrode Capacitance 1MHz 0.5V:**  $\leq 1.5\text{PF}$

**Surge Current:** 8x10mm

**Insulation Resistance:**  $\geq 1\text{G}\Omega$

**Mounting Type:** Surface Mount

Our **Gas Discharge Tube** is a diode discharge tube with ceramic gas discharge components. It is reliable and safe to use due to its high insulation resistance and maximum surge current.

### Support and Services:

Our Gas Discharge Tube products come with technical support and service. Our team of experts can provide assistance with installation, configuration, and maintenance of your products. We offer a range of support options, including phone, email, and online support. Our team can also provide training and troubleshooting services to help you get the most out of your Gas Discharge Tube products.

### Packing and Shipping:

Packaging and Shipping

Gas Discharge Tube products from our company are packaged to ensure they are protected from any damages during shipping. We use quality packing materials such as boxes, bubble wrap, and foam to protect our products.

We ship our products with trusted shipping carriers such as Fedex, UPS, and DHL. We make sure to choose a carrier that best fits the customer's needs and budget.

We take extra care in ensuring that our products arrive safely to the customer. We make sure to package our products properly and label them with the appropriate shipping information.

### FAQ:

#### Q: What is a Gas Discharge Tube?

A: A Gas Discharge Tube is a device used to protect electrical circuits from high voltage transients. It is a glass or ceramic tube filled with a gas such as argon, nitrogen, or air. A high voltage applied across the tube ionizes the gas, creating a spark discharge that then acts as a switch, providing a low impedance path for the transient current.

#### Q: What is the Brand Name and Model Number of the Gas Discharge Tube?

A: The Brand Name of the Gas Discharge Tube is LINKUN and the Model Number is 8TL230M.

#### Q: Where is the Gas Discharge Tube manufactured?

A: The Gas Discharge Tube is manufactured in Dongguan, Guangdong, China.

#### Q: What are the main applications of a Gas Discharge Tube?

A: Gas Discharge Tubes are commonly used in power supplies, data communication systems, and automotive electronics. They are used to protect against high voltage transients caused by lightning strikes, power surges, and other electrical disturbances.

#### Q: What are the advantages of using a Gas Discharge Tube?

A: Gas Discharge Tubes offer several advantages over other types of transient voltage protection. They are low-cost, easy to install, and have a fast response time. They are also highly reliable and have a long service life.



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