



5mm GM5537 CDS Photoresistor Bright Resistor 20-50KΩ For Alarm Photoelectric Controller

Our Product Introduction

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Basic Information

- Place of Origin: Dongguan,Guangdong,China
- Brand Name: LINKUN
- Model Number: Photoresistor 5537
- 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

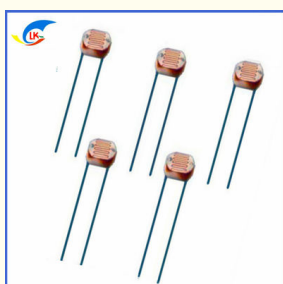


Product Specification

- Product Name: Light Dependent Resistor
- Lead Length: 5mm
- Model: GM5537
- Bright Resistor(10Lux): 20-50KΩ
- Max VoltageVDC: 150 V
- Environment Temperature : -30~+70°C
- Response Time(ms): Rise30ms Decline30ms
- Dark Resistance: 3MΩ
- Max Power Consumptionmw: 100NmW
- Highlight: **GM5537 CDS Photoresistor , 5mm CDS Photoresistor**



More Images



Product Description

CDS Photoresistor 5mm Series GM5537 Bright Resistor 20-50K Ω For Alarm Photoelectric

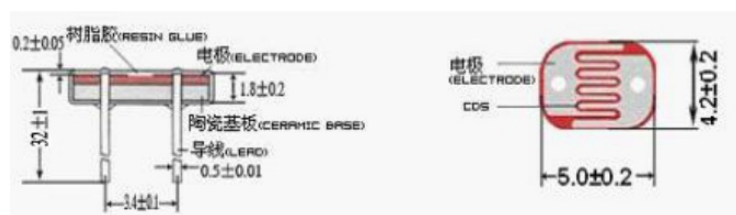
Controller



A photoresistor is a resistor made of semiconductor material whose conductivity changes linearly with changes in illumination. Photoresistors are widely used in toys, lamps, cameras and other industries.

Schematic

Unit:mm



Performance and features

Epoxy resin encapsulation, good reliability
Small size and high sensitivity
Fast response speed and good spectral characteristics
Application scope

Camera automatic metering Photoelectric control
Indoor light control Alarm
Industrial control Light control switch
Light control lamp Electronic toys

Models and Specifications

Specification	Model	Max VoltageVDC	Max Power consumptionmW	Environment temperature	Spectrum peaknm	Bright resistor(10Lux) KΩ	Dark resistance≥ MΩ		Response time(ms)		Illuminance characteristic diagram number
									Rise	Decline	
φ5series	GM5506	150	90	-30~+70	540	2-5	0.1	0.5	30	30	1
	GM5516	150	90	-30~+70	540	5-10	0.2	0.5	30	30	1
	GM5528	150	100	-30~+70	540	10-20	1	0.6	20	30	2
	GM5537-1	150	100	-30~+70	540	20-30	2	0.6	20	30	3
	GM5537-2	150	100	-30~+70	540	30-50	3	0.7	20	30	3
	GM5539	150	100	-30~+70	540	50-100	5	0.8	20	30	4
	GM5549	150	100	-30~+70	540	100-200	10	0.9	20	30	5

Measurement conditions

Maximum applied voltage: the maximum voltage that can be continuously applied to the component in the dark;

Dark resistance: The resistance value at the 10th second after turning off the 10Lux light;

Maximum power consumption: Maximum power consumption when the ambient temperature is 25°C;

Brightness resistance: Test value under 10Lux light of standard light source (color temperature 2854K) after irradiation with 400-600Lux light for 2 hours;

γ value: The logarithm of the ratio of the standard resistance value under 10Lux illumination and 100Lux illumination.

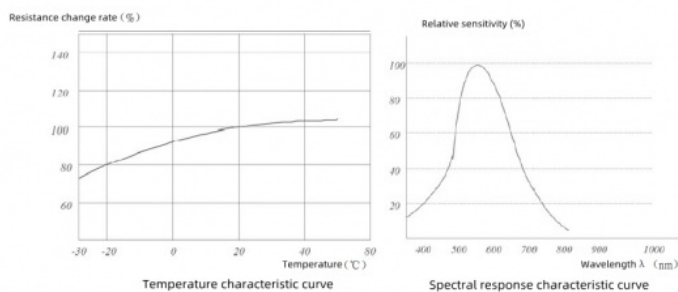
$$L_g(R_{10}/R_{100})$$

$$\gamma = -L_g(R_{10}/R_{100})$$

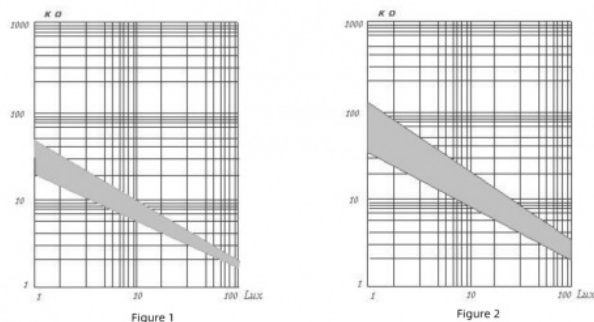
$$L_g(100/10)$$

R10、R100 are the resistance values under 10Lux and 100Lux illumination respectively (the tolerance of γ is ±0.1)

Main characteristic curves



Illuminance-resistance characteristic curve



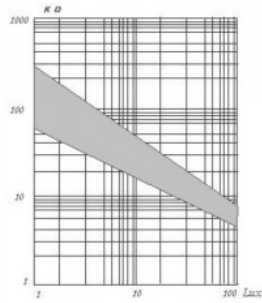


Figure 3

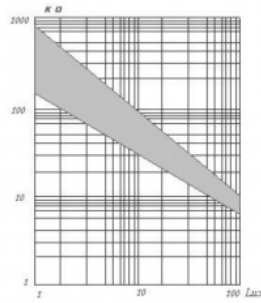


Figure 4

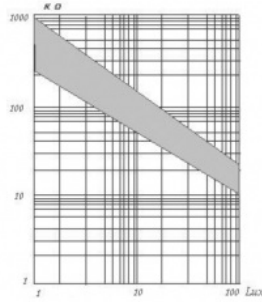


Figure 5

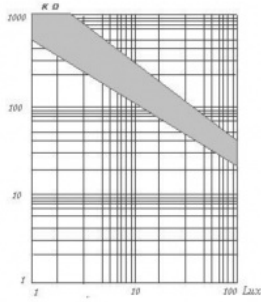


Figure 6

Precautions

1. This product is packed with environmentally friendly materials, with 200 pieces in small packaging and 2,000 pieces in large packaging;
2. Avoid storing this product in humid and high-temperature environments;
3. It should be stored in non-corrosive gas, otherwise the tin plating layer will be oxidized and the solderability will be reduced.
Therefore, it should be used as soon as possible after opening the package.
4. Working environment humidity $\leq 95\%$
5. The welding time should be as short as possible; immerse it in 230 ° tin liquid (Sn63 Pb37) to a distance of 5mm from the CdS photoresistor body and maintain it for 3-5 seconds.
6. Note that the lead welding position should be more than 4mm away from the ceramic base.

Product Description:

Light Dependent Resistor (LDR) is an important component for sensing light intensity. It applies the GM55 series photoresistor, also known as 12mm series photoresistor, which is capable of providing reliable, fast and low-power solutions for a wide range of applications. With the response time of rise 30ms and decline 30ms, it can consume only 90mw power and support up to 150 V Max Voltage. Moreover, when the environmental brightness is 10Lux, the brightness resistor should be in the range from 2 to 5 KΩ. All the products in this series feature a 5mm lead length. With its excellent performance, Light Dependent Resistor is definitely an ideal choice for various light intensity sensing applications.

Features:

Product Name: Light Dependent Resistor

Bright resistor (10Lux): (2-5)KΩ

Lead Length: 5mm

Spectrum peaknm: 540

Dark resistance: 0.2MΩ

Series: 5mm series photoresistor, 3mm series photoresistor, 7mm series photoresistor

Technical Parameters:

Technical Parameter	Value
Spectrum peaknm	540
Model	GM5506

Environment temperature	-30~+70°C
Response time(ms)	Rise 30ms Decline 30ms
Lead Length	5mm
Product Name	Light Dependent Resistor
Power consumptionmw	90
Bright resistor(10Lux)	(2-5)KΩ
Max VoltageVDC	150 V
Dark resistance	0.2MΩ
Series	7mm series photoresistor, Light-Sensitive Resistor, GM55 series photoresistor

Applications:

Linkun's 5506 Light Dependent Resistor is a 5mm series photoresistor, a type of GM55 series photoresistor, with 3mm series photoresistor. It has a dark resistance of 0.2MΩ and a response time of 30ms for both rise and decline. This light dependent resistor has a power consumption of 90mw and a bright resistor (10Lux) of (2-5)KΩ. Its place of origin is Dongguan, Guangdong, China. Linkun's 5506 Light Dependent Resistor is an ideal choice for applications where reliable and accurate light sensing is required. It is perfect for precision light sensing and control applications.

Customization:

Light Dependent Resistor

Brand Name: LINKUN

Model Number: Photoresistor 5506

Place of Origin: Dongguan,Guangdong,China

Lead Length: 5mm

Dark resistance: 0.2MΩ

Model: GM5506

Power consumptionmw: 90

Response time(ms): Rise30ms Decline30ms

Light-Sensitive Resistor, 5mm series photoresistor, 5mm series photoresistor GM5506

Support and Services:

Light Dependent Resistor Technical Support and Service

At XYZ, we provide technical support and service for our Light Dependent Resistor products. Our team of experts are available to answer any questions you may have and provide assistance with installation, troubleshooting, and more.

We also offer a range of online resources to help you get the most out of your Light Dependent Resistor products, including product manuals, FAQs, and troubleshooting tips.

If you need additional support or have any questions, please don't hesitate to contact us.

Packing and Shipping:

Packaging and Shipping for Light Dependent Resistor:

The resistor is packaged in an anti-static bag and then sealed in a box.

The box is securely taped to prevent it from opening during shipping.

The resistor is shipped via a reliable and secure delivery service.

FAQ:

Q1: What is the brand and model of the Light Dependent Resistor?

A1: The brand of the Light Dependent Resistor is LINKUN and the model is Photoresistor 5506.

Q2: Where is the Light Dependent Resistor manufactured?

A2: The Light Dependent Resistor is manufactured in Dongguan, Guangdong, China.

Q3: What type of component is the Light Dependent Resistor?

A3: The Light Dependent Resistor is a type of resistive component.

Q4: What is the operating voltage of the Light Dependent Resistor?

A4: The operating voltage of the Light Dependent Resistor is 5V.

Q5: What is the resistance of the Light Dependent Resistor when exposed to light?

A5: The resistance of the Light Dependent Resistor when exposed to light is low.



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