Product Specification

Number: L-KLS6-3526

Name: Photosensitive resistors

Customer: _____

Date: 2025-09-12

Customer Signature:

KLS electronic

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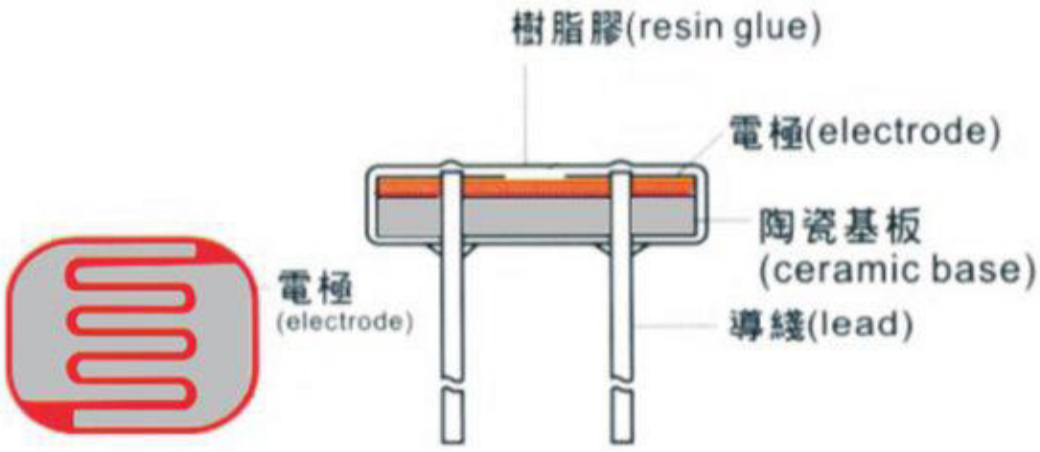
Compi	Check	Review	Approva
Jenny	Jack.C		

Photoresistor

A photoresistor is a type of resistor whose resistance decreases with increasing incident light intensity; in other words, it exhibits photoconductivity. Photoresistors are made of semiconductor materials and are widely used in various industries such as toys, lighting, and cameras.

Structural Diagram



Performance and Features

- Epoxy resin encapsulation
- Good reliability
- Small size
- High sensitivity
- Fast response time
- Good spectral characteristics

Applications Range

- Applications
- Photoelectric control
- Indoor light control
- Alarm
- Industrial control
- Light-controlled switches
- Light-controlled lamps
- Electronic toys

Model and Specifications

Specifications	Model	Maximum Voltage VDC	Maximum Power Dissipation mw	Ambient Temperature (℃)	Spectral Peak nm	Light Resistance 10Lux (KΩ)	Dark Resistance (MΩ)	γ 100 10	Response Time (ms)		Illuminance-Resistance Characteristic Curve Number
									Rise	Fall	
KLS6	3516	100	50	-30～+70	540	5-10	0.6	0.5	30	30	2
	3526	100	50	-30～+70	540	10-20	1	0.6	30	30	3
	3537-1	100	50	-30～+70	540	20-30	2	0.6	30	30	4
	3537-2	100	50	-30～+70	540	30-50	3	0.7	30	30	4
	3547-1	100	50	-30～+70	540	50-100	5	0.8	30	30	5
	3547-2	100	50	-30～+70	540	100-200	10	0.9	30	30	6

Test Conditions

Maximum Applied Voltage:
The maximum voltage that can be continuously applied to the component in darkness.

Dark Resistance:
The resistance value at the 10th second after the light is turned off at 10 Lux.

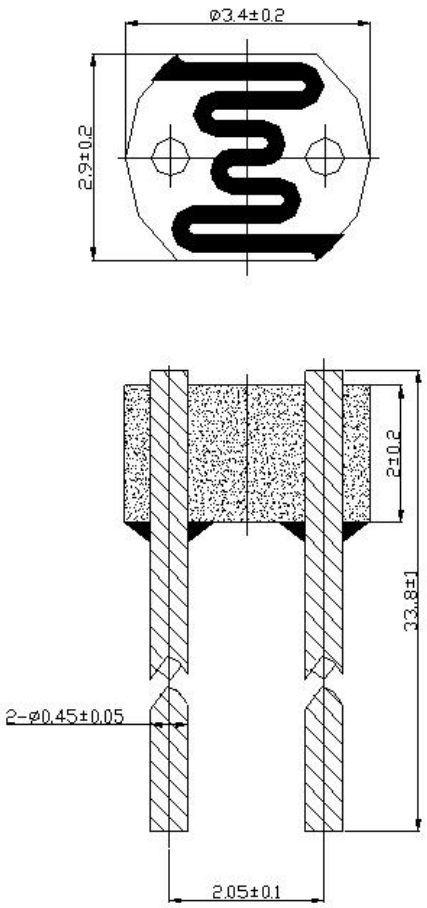
Maximum Power Dissipation:
The maximum power dissipation at an ambient temperature of 25°C.

Light Resistance:
The test value under standard light source (color temperature 2856K) at 10 Lux after irradiation with 400-600 Lux light for 2 hours.

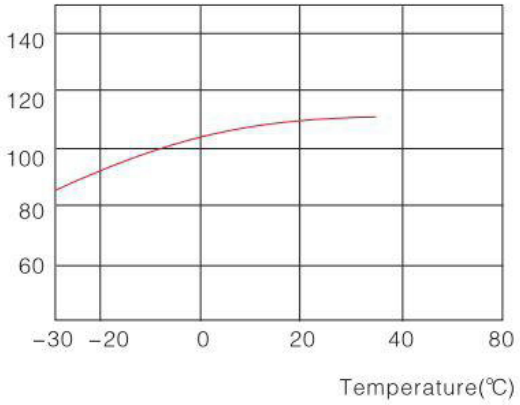
γ Value:
The logarithm of the ratio of the standard resistance values at 10 Lux and 100 Lux illuminance.

R10 and R100 are the resistance values at 10 Lux and 100 Lux illuminance respectively (the tolerance of γ is ±0.1).

Outline Dimensions and Main Characteristic Curves

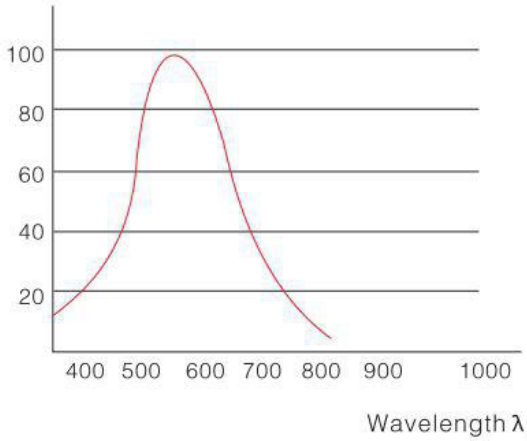


Relative Resistance(%)
電阻變化率（%）



Temperature–Property 温度特性曲綫

Relative Response(%)
相對靈敏度（%）



Spectrum Response Characteristic 光譜回應特性曲綫

Illuminance-Resistance Characteristic Curve

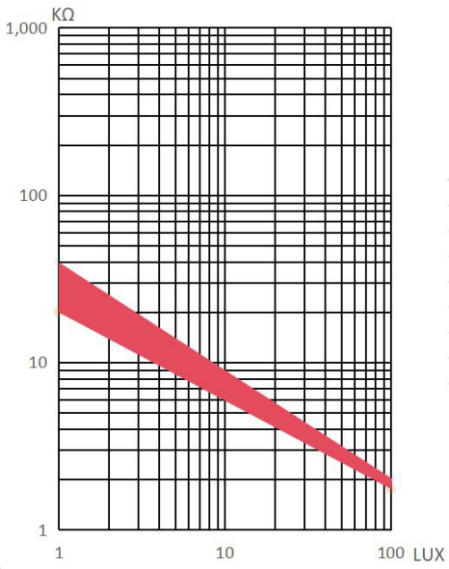


Fig.1

Fig.2

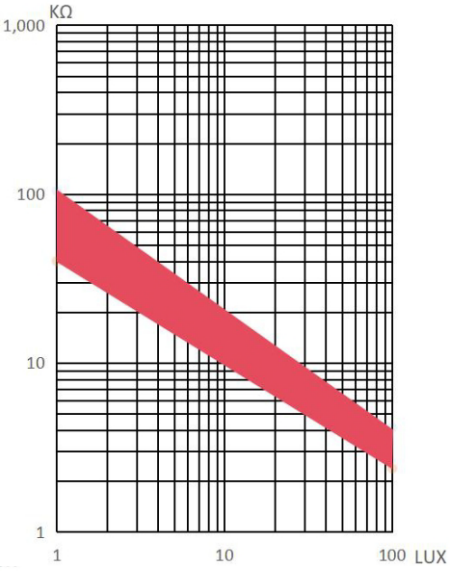


Fig.3

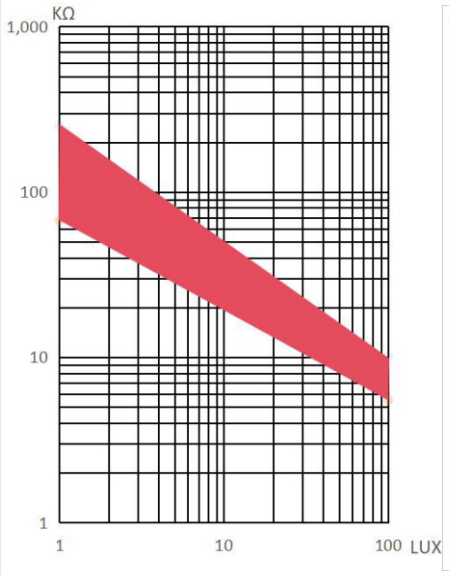


Fig.4

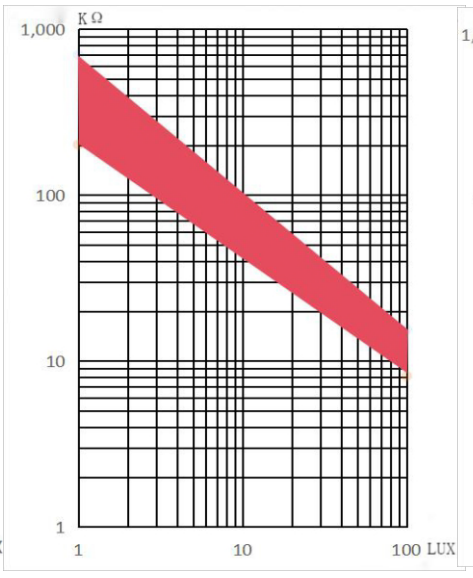


Fig.5

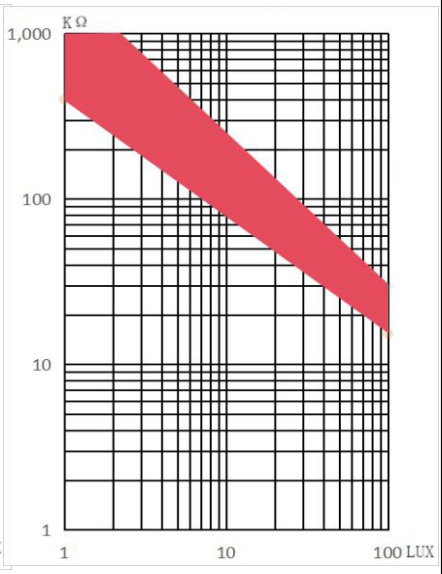


Fig.6

Product Applications









Packaging and Precautions

- Small packaging: 200 pieces; Large packaging: 2000 pieces
- Avoid storing the photoresistor in damp and high-temperature environments.
- Recommended lead soldering should be at a distance of ≥4mm from the ceramic base, ensuring the soldering temperature is between 260°C and 280°C and completed within 3 seconds. Do not exceed the rated range. Avoid applying external force to the leads during or after soldering. Do not re-solder.

Note: KLS Sensor reserves the right to make changes, corrections, enhancements, modifications, and improvements to the product specification sheet at any time without prior notice.