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Uchi® 产品规格/承认书

PRODUCT SPECIFICATION / APPROVAL SHEET08

产 品 名 称: CdS Photoconductive cells ϕ 5 Series
PRODUCT NAME

产品型号代码: LXD5528B
PRODUCT MODEL CODE

产 品 编 码: LXD5528B
PRODUCT CODE

客户公司名称:
CUSTOMER

客 户 编 码:
CUSTOMER CODE

送 样 日 期:
ISSUE DATE

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广东宇弛电子有限公司
GUANGDONG UCHI ELECTRONICS CO.,LTD.

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黄靖媚
Huangjin
gmei

梁林青
LiangLin
Qing

吴胜
WuSheng

QC

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SIGNATURE

广东宇弛电子有限公司

GUANGDONG UCHI ELECTRONICS CO.,LTD.

地址: 广东省东莞市石龙镇山东东升路1号汇星商业中心5栋2单元810室
Add: Room 810, Unit 2, Building 5, Huixing Commercial Center,
Dongsheng Road No.1, Zhongshan Dong, Shilong Town,Dongguan City,
Guangdong Province, China

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CdS Photoconductive cells

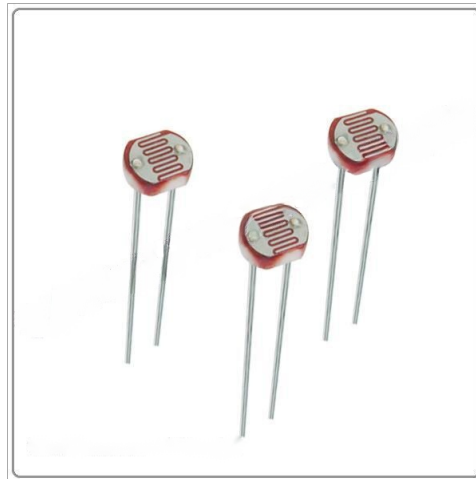
—LXD/5528B

CdS Photoconductive cells Φ 5 Series

Product Model: LXD/5528B

■ FEATURE:

- Epoxy encapsulated
- Quick Response
- Small Size
- High Sensitivity
- Reliable Performance
- Good Characteristic of Spectrum



■ TYPICAL APPLICATIONS:

- Auto Flash For Cameras
- photoelectric Control
- Room Light Control
- Room Light Control
- Photomusical I.C.
- Industrial control
- Photoswitch
- Electronic Toys

■ DESCRIPTION:

CdS Photoconductive Cells is a resistor which made of semi-conductor material, and the conductance change with luminance variation. The CdS Photoconductive cells can be manufactured with different figures and illuminated area based on this characteristic. CdS Photoconductive cells are widely used in many industries, such as toys, lamps, camera, etc.

■ ELECTRO-OPTICAL CHARACTERISTICS :

Parameter		Characteristics	Unit
Light Resistance(at 10lux)		15-20	KΩ
Dark Resistance(at 0 lux/Min)		1.0	MΩ
Gamma Value(at 100-10lux)		0.7	γ_{100}^{100}
Power Dissipation(at 25℃)		100	MW
Max Voltage(at 25℃)		150	VDC
Spectral Response peak(at 25℃)		560	nm
Ambient Temperature Range		-30~+70	℃
Response time	Increase	20	ms
	Decrease	30	ms

※ Light resistance : Measured at 10lux(standard Light source) at a color temperature of 2854K, color temperature and 2h pre-illumination at 400-600 lux prior to testing.

※ Dark resistance: measured 10 seconds after pulsed 10 lux.

※ Gamma Characteristic: between 10lux and 100lux and given by $T = \frac{\log(R_{10}/R_{100})}{\log(100/10)} = \log(R_{10}/R_{100})$

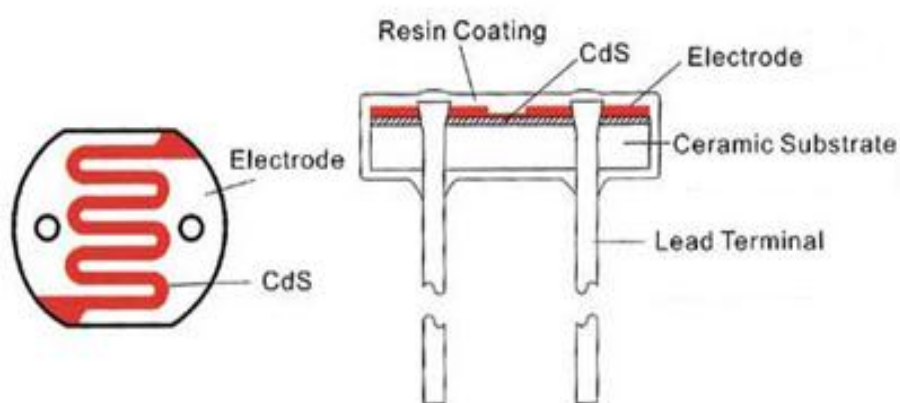
※ Pmax: Max. power dissipation at ambient temperature of 25℃.

※ Vmax: Max. voltage in darkness that may be applied to the cell continuously.

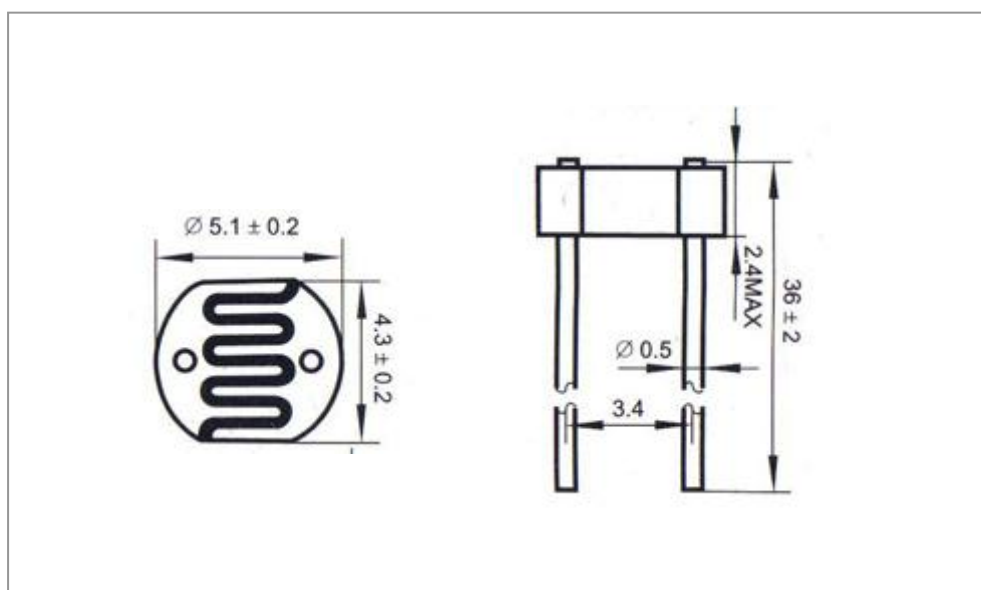
■ Component Information :

Component Name	ROSH	Notice
Resin Coating	YES	--
CdS	NO	Composition than 100 PPM
Electrode	YES	--
Ceramic Substrate	YES	--
Lead Terminal	YES	--

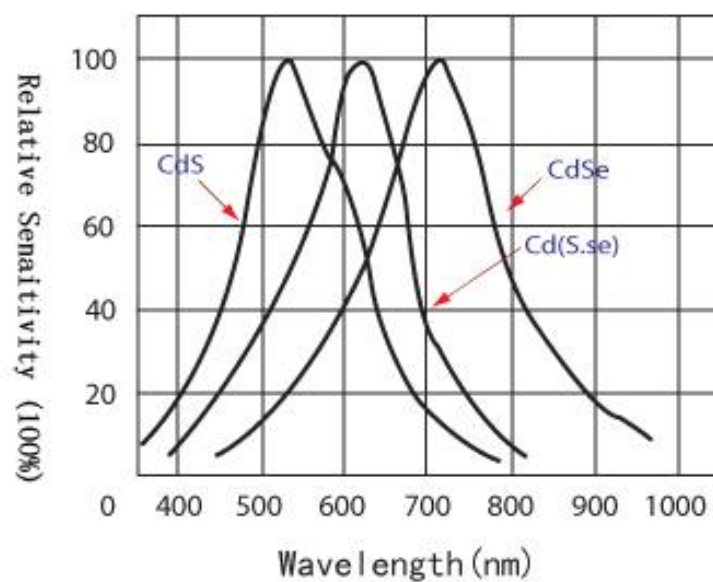
■ SCHEMATIC DRAWING :



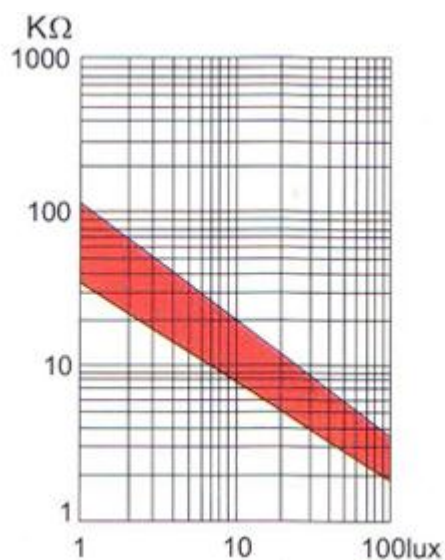
■ OUTLINE:(Unit: mm)



■ SPECTRAL RESPONSE :



■ ILLUNINANCE Vs. PHOTO RESISTANCE



■ TEST CONDITIONS

Light Resistance Dark Resistance	Light resistance:A light source(2856k) At 10Lux Dark resistance:data@10sec,after cutting off 10Lux light $r=Lg(R10/R100)$	Workable
Temperture Change Testing	Hight tempture:: $70^{\circ}\text{C}\pm 5^{\circ}\text{C}$ Time:30M Incident light:dark placing Testing time:24hr Low tempture:: $-30^{\circ}\text{C}\pm 5^{\circ}\text{C}$ Time:30min Incident light:above dark placing as a recycle,testing time:24hr	Workable
Constant Temperture Testing	Temperture: $40\pm 5^{\circ}\text{C}$ Moisture :90-95% Incident light:dark placing Testing time:48hr	Workable
Lead High Temperture Testing	At the root of lead 90 degree curving,5mm above the root,loading 100g charge Welding tempture:: 260°C Heating time:Max.35,distance between welding and base:5mm	Workable

■ PACKING AND PRECAUTION:

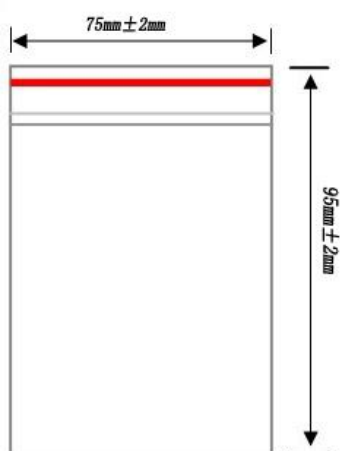


Image-01

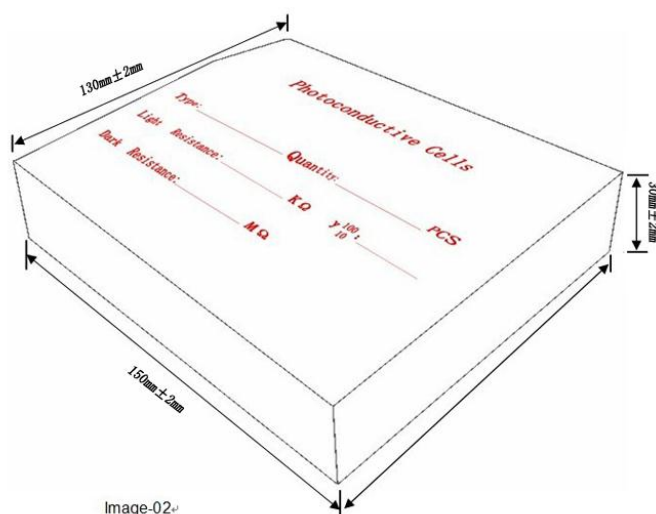


Image-02

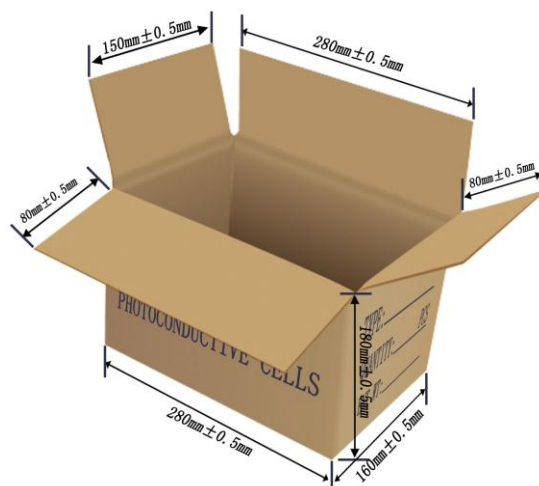


Image-03

IMAGE NO.	NAME	QUANTITY
Image-01	Bag	200Pcs /bag
Image-02	Box	5Bag/Box = 2000Pcs
Image-03	Carton	10000PCS = 10 Box = 50 Bag = 1 Carton

- This product is packed with the environmental protection material,200pcs per small package,1000pcs per big package.
- Avoid high temperature and humidity for storing.
- Soldering should be completed in the shortest possible time.
- It is recommended that the soldering should keep 4mm away from ceramic substrate.

- 广东宇弛电子有限公司 -
GUANGDONG UCHI ELECTRONICS CO.,LTD.

地址：广东省东莞市石龙镇中山东路 1 号汇星商业中心 5 栋 2 单元 810 室

Add: Room 810, Unit 2, Building 5, Huixing Commercial Center, Dongsheng Road No.1 ,
Zhongshan Dong, Shilong Town,Dongguan City, Guangdong Province, China

TEL: +86-769-86183707

<https://www.uchidg.com/>

E-MAIL:anna@uchidg.com