

光敏电阻

LIGHT DEPENDENT RESISTOR

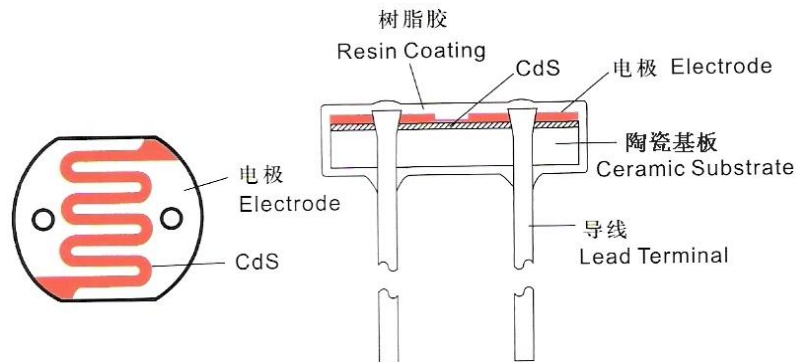
深圳市晶创和立科技有限公司的光敏电阻是一种半导体材料制成的电阻，其电导率随着光照度的变化而变化。利用这一特性制成不同形状和受光面积的光敏电阻。光敏电阻广泛应用于玩具、灯具、照相机等行业。

The Light dependent resistor of Shenzhen Jingchuang Heli Technology Co.,Ltd. is a kind of resistance made of semiconductor materials, and its conductivity changes with the change of illumination. This characteristic is used to make photosensitive resistors of different shape and light area. Photosensitive resistors are widely used in toys, lamps, cameras and other industries.

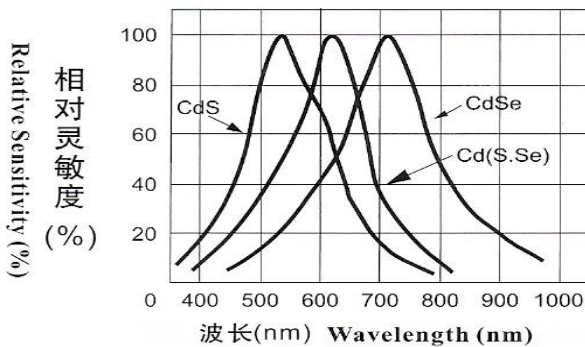
产品示意图 (Product diagram)



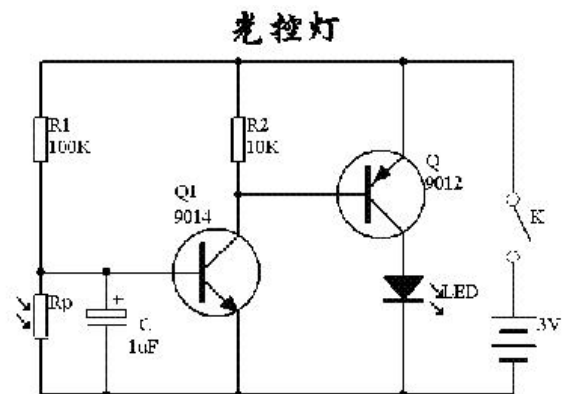
光敏电阻结构图 (Photo resistor structure diagram)



光谱响应特性
Spectral Response



典型应用电路
(Typical application circuit)





深圳市晶创和立科技有限公司

SHENZHEN JINGCHUANGHELI TECHNOLOGY CO.,LTD

规格 Specifications	型号 model	最大电压 Maximum voltage (VDC)	最大功耗 Maximum power consumption (mW)	环境温度 ambient tempera ture (°C)	光谱峰值 Spectral peak (nm)	亮电阻Bright resistance (10LUX)(KΩ)	暗电阻Dark resistance (MΩ)	γ	响应时间response time (ms)	
									上升 rise	下降 decline
Φ3mm	GL3516	100	50	-30-+70	560	5-10	0.2	0.65	20	30
	GL3528					10-20	1	0.7		
	GL3537					20-30	3	0.75		
	GL3539					30-50	5	0.8		
	GL3549					50-160	10	0.85		
Φ4mm	GL4516	150	90			5-10	0.2	0.65		
	GL4528					10-20	1	0.7		
	GL4537					20-30	3	0.75		
	GL4539					30-50	5	0.8		
	GL4549					50-160	10	0.85		
Φ4.8mm	GL48516	150	90			5-10	0.2	0.65		
	GL48528					10-20	1	0.7		
	GL48537					20-30	3	0.75		
	GL48539					30-50	5	0.8		
Φ5mm	GL5516	150	90			5-10	0.2	0.65		
	GL5528		100	10-20	1	0.7				
	GL5537			20-50	3	0.75				
	GL5539			50-100	5	0.8				
	GL5549			100-200	10	0.85				
	GL5616		90	600	5-10	1	0.65			
	GL5626		100		10-20	3	0.7			
	GL5637				20-30	5	0.75			
GL5639	30-50	10			0.8					
Φ7mm	GL7516	250		100	550	5-10	0.2	0.65		
	GL7528		10-20	1		0.7				
	GL7537		150	20-50		3	0.75			
	GL7549			50-100		5	0.8			
Φ11mm	GL11516	250	200	550	5-10	0.2	0.65			
	GL11528				10-20	1	0.7			
	GL11537				20-50	3	0.75			
	GL11539				50-100	5	0.8			
Φ12mm	GL12516	250	200	600	5-10	0.2	0.65			
	GL12528				10-20	1	0.7			
	GL12537				20-50	3	0.75			
	GL12539				50-100	5	0.8			
Φ20mm	GL20516	500	400	550	5-10	0.5	0.65			
	GL20528		500		10-20	2	0.7			
	GL20537				20-50	5	0.75			
Φ25mm	GL25516	600	600		5-10	0.5	0.65			
	GL25528				10-20	2	0.7			
	GL25537				20-50	5	0.75			

地址：深圳市龙华区民治街道牛栏前港深国际中心9楼C913

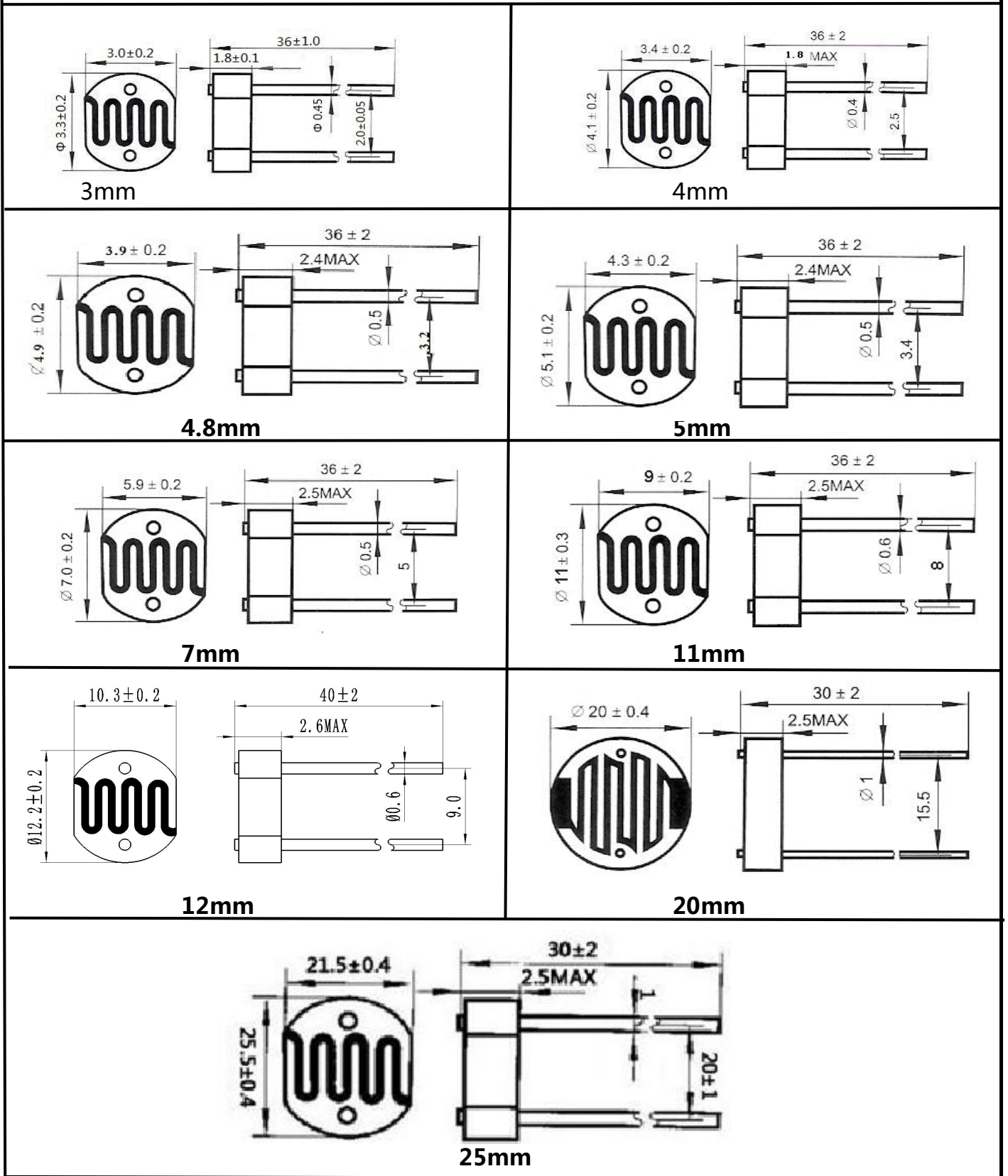
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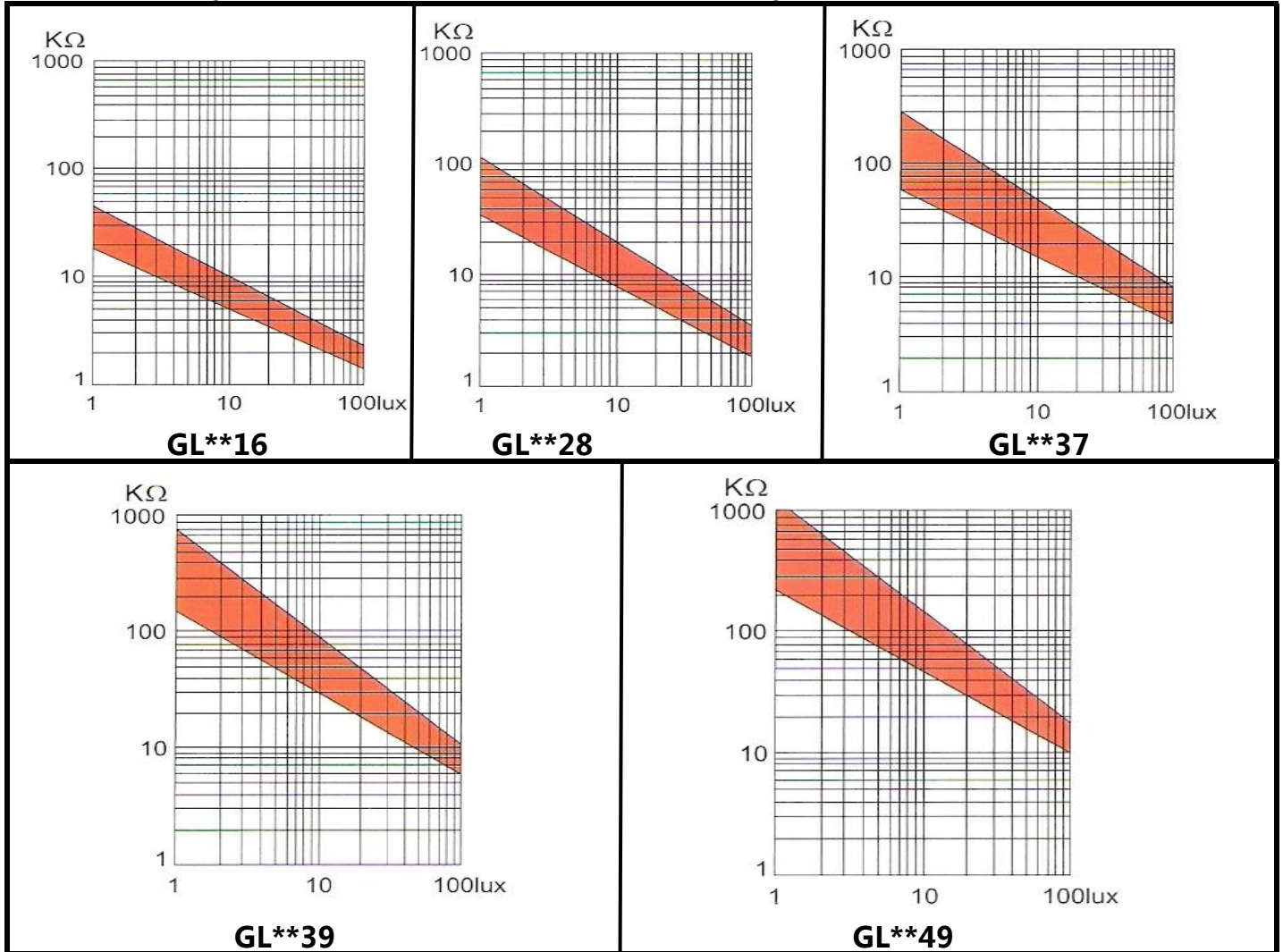
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外形尺寸图 (单位: mm) Overall dimension drawing (unit: mm)



照度-电阻特性 (Illuminance-resistance characteristics)



基本概念 (Basic concepts) :

- 1, 亮电阻 (Light resistance) :
在标准光源A (色温2854K)400-600LUX光线下照射2个小时后, 再在10LUX光线下测得的阻值。
Measured at 10 Lux with standard light A (2854K color temperature) and 2hr illumination at 400-600 lux prior to testing.
- 2, 暗电阻 (Dark Resistance) :
在A光源下关闭10LUX后第10秒钟的最小阻值 (Measured 10 seconds after closed 10 lux.)
- 3 伽马值 (Gamma Characteristic) : Between 10 lux and 100 lux and given by
 $\gamma = \lg(R_{10}/R_{100})$
- 4, 最大功耗 (Wmax):环境温度25°C时的最大功耗。
Max. power dissipation at ambient temperature of 25 °C.
- 5, 耐压 (Vmax):在黑暗状态下可连续施加到电阻上的最大电压。
Max. voltage in darkness that may be applied to the cell continuously.




深圳市晶创和立科技有限公司

SHENZHEN JINGCHUANGHELI TECHNOLOGY CO.,LTD

产品特点 (Product features) :

- 1, 体积小 (The product is small in size)
- 2, 环氧树脂封装 (Epoxy resin encapsulation)
- 3, 响应光谱类似人眼 (The response spectrum is similar to that of human eyes)
- 4, 应用于光线控制和光电转换 (Applied to light control and photoelectric conversion)
- 5, 高灵敏度 (High sensitivity)

外箱标签 (Outer box label) :

 深圳市晶创和立科技有限公司	
产品名称	
规格型号	
订单编号	
物料编号	
产品数量	
发货时间	

注意事项 (matters needing attention) :

- 1, 光敏电阻含有镉 (Cd), 不符合ROHS , 如果一定要环保的光敏元件 , 选购晶创和立的光敏传感器。
The photoresist contains cadmium (Cd), which does not comply with ROHS. If you must have environmentally friendly photosensitive elements, you can choose the photosensitive sensor series of Shenzhen Jingchuang Heli Technology Co., Ltd
- 2, 储存环境 : -30-50度温度内干燥避光环境下保存 , 以免引脚氧化。
Storage environment: - 30-50 ° C, dry and protected from light to avoid pin oxidation.
- 3, 焊接时焊点离光敏电阻本体要在3mm以上。以免高温破坏产品。
During welding, the distance between the welding spot and the photoresist body shall be more than 3mm. So as not to damage the product at high temperature.
- 4, 焊接时不能温度过高 , 焊接时间过长。以免高温破坏产品。
During welding, the temperature shall not be too high and the welding time at shall not be too long (no more than 3 seconds). So as not to damage the product high temperature.

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