# Specification Paper

Customer: GJ-000

Description: cds light dependant resistor

Type: MJ4548

Draft	Wang jianhong	Approval	Zhang Shengxiao 2008-12-3		
Check	Wang Bingkang	Date			

Customer's Approval

We are willing to check and accept on basis of the specification paper.

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The Main Technical Parameter of Cds Light Dependant Resistor

#### I Outline of Product

Application: Control automatically the working state of industrial products depending on the variety of light outside basing on the theory of photo-electricity control.

### II Electrical Property

The maximum power loss: the maximum power at ambient temperature  $25^{\circ}$ C.

The maximum external voltage: which can apply successively to components in darkness.

## III Testing Method

#### 1. Light resistance

Illuminated by 400-600LUX light for two hours, then it should be tested with IOLUX light under standard light source A. (as color temperature 2586K)

Туре	Light Resistance 10LUX(KO) 2856K	Dark	Minimum Value Y Gamma	Maximum Voltage (VDC)	Maximum Power Loss 25°C(Mw)	Spectral Peak Value (nm)	Temp (°C)	
							Working	Storage
MJ4548	50-100	20	0.8	100	90	540	-20~+60	-30~+70

#### 2. Dark Resistance

Refer to the resistance ten seconds after the 10Lux light being out.

- Value Y is the standard value under 10Lux and 100Lux.
   R10 and R100 are resistance under 10Lux and 100Lux respectively. (limits: ±0.1)
- Flexibility of lead wire: There should not be any break or harm of lead wire when it is bended at will.
- Oscillation: There should be no harm to light dependant resistor when it is placed on oscillator for 2 hours.
- Withstand voltage: There should be no abnormal when 150 V of voltage applied to the light dependant resistor in darkness.
- 7. Moisture proof & thermostability: The rate of variation of resistance should be ±10% when being in the working condition of humidity 75% and temperature 70°C or in storage condition of humidity 75% and temperature 80°C.
- 8. Temperature surge test: The rate of variation of the resistance of light dependant resistor between before and after it is dealt with by the following step should be ±10%: At first be placed in condition of 80°C for 4 hours, then be placed in condition of 25°C for 2 hours and finally be placed in condition of -30°C for 4 hours.

## MJ Cds Light Dependant Resistor



