# 技术数据表

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## 电性参数

| | | | |
|---|---|---|---|
| Supply Voltage | VDD | 6.0 | V |
| Operating ambient temperature | Topr | -20 C ~ +85 C | |
| Storage ambient temperature | Tstg | -40 C ~ +125 C | |
| Welding conditions | Tsol | Wave soldering 260℃ 6s<br>manual welding 300℃ 3s | |

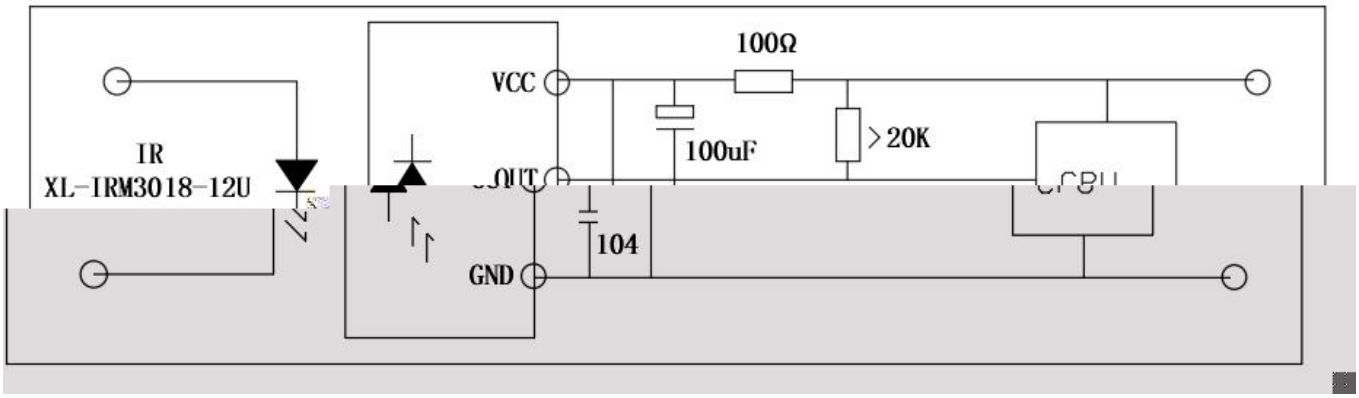
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Working current | ICC | | 0.2 | 0.3 | 0.5 | mA | VDD=5V |
| receive distance | L | 0 ° | 10 | 12 | - | M | / |
| | L | 35 ° | 5 | 6 | - | M | |
| | L | 35 ° | 5 | 6 | - | M | |
| Carrier Frequency | $f_o$ | | - | 37.9 | - | KHZ | / |
| BPF<br>BPF width | $f_{BW}$ | | - | 6 | - | KHZ | / |
| Low level output | $V_{ol}$ | | - | - | 250 | mV | Isink=2.0mA |
| High level output | $V_{oh}$ | | 4.5 | - | 5.0 | V | VCC=5V |
| Pulse width | $T_{pwl}$ | | 400 | 600 | 800 | us | burst wave<br>Vin=500UVp-p |
| | $T_{PWH}$ | | 400 | 640 | 800 | us | burst wave<br>Vin=50mVp-p |
| Minimum pulse width | $T_{burst}$ | | 350 | - | - | us | Vin=50mVp-p |
| Minimum interval | $T_{burst\ gap}$ | | 450 | - | - | us | Vin=50mVp-p |
| Encoding pause time | $T_{pause}$ | | 45 | - | - | us | Vin=50mVp-p |

* CH3018-12U, 1M 40W 200±50Lux.

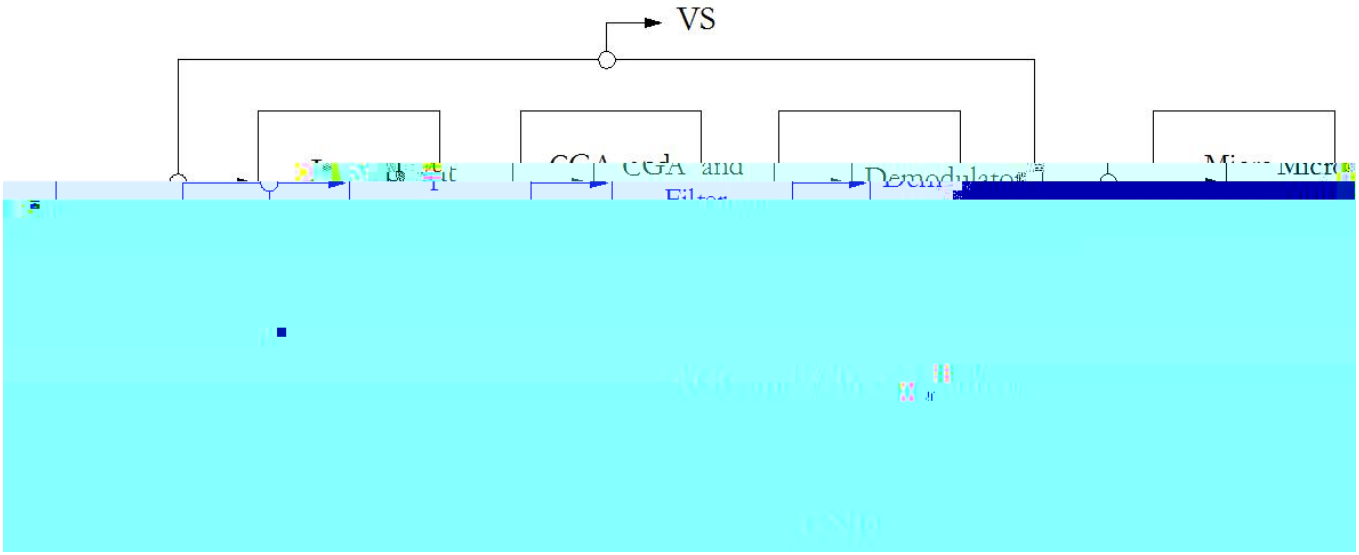
Recommended usage conditions

| | | | | | |
|---|---|---|---|---|---|
| Supply Voltage | VDD | 2.7 | - | 5.5 | V |
| input frequency | FM | - | 37.9 | - | KHZ |
| Operating temperature | Topr | - | 25 | - | C |

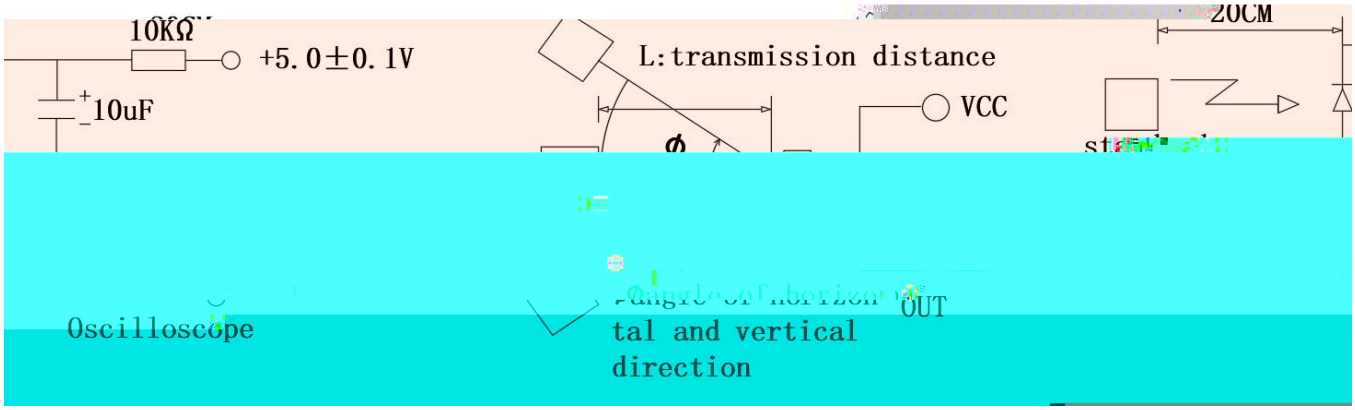
Application circuit diagram

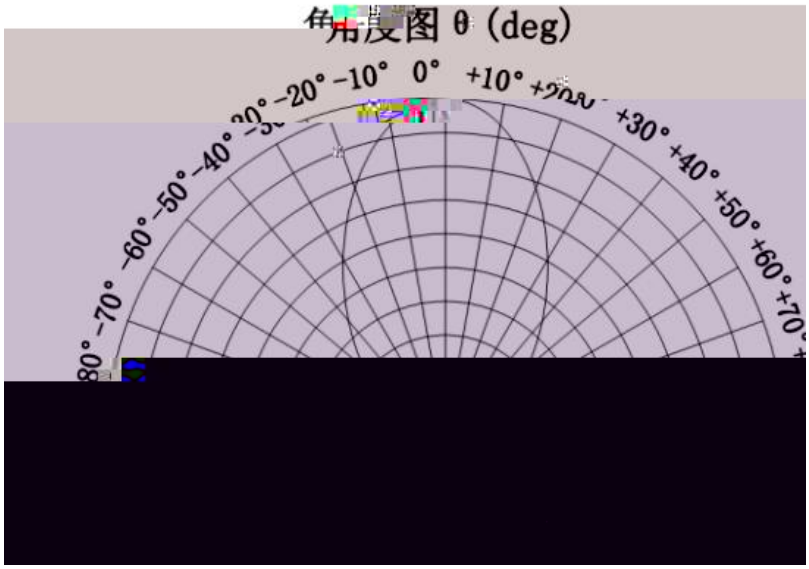



schematic diagram



Receiving angle testing method



## 接收距离分档

| 代码 | 最小值 | 最大值 | 单位 | 测试条件 |
|---|---|---|---|---|
| L1 | 6 | 8 | M | ICC=0.5mA |
| L2 | 10 | 15 | | |
| L3 | 15 | 20 | | |

## 工作电压分档

| 代码 | 最小值 | 最大值 | 单位 | 测试条件 |
|---|---|---|---|---|
| V1 | 2.5 | 5.5 | V | ICC=0.5mA |
| V2 | 2.7 | 5.5 | | |

## 工作电流分档

| 代码 | 最小值 | 最大值 | 单位 | 测试条件 |
|---|---|---|---|---|
| I1 | 0.3 | 0.5 | mA | VDD=5V |
| I2 | 0.4 | 0.7 | | |

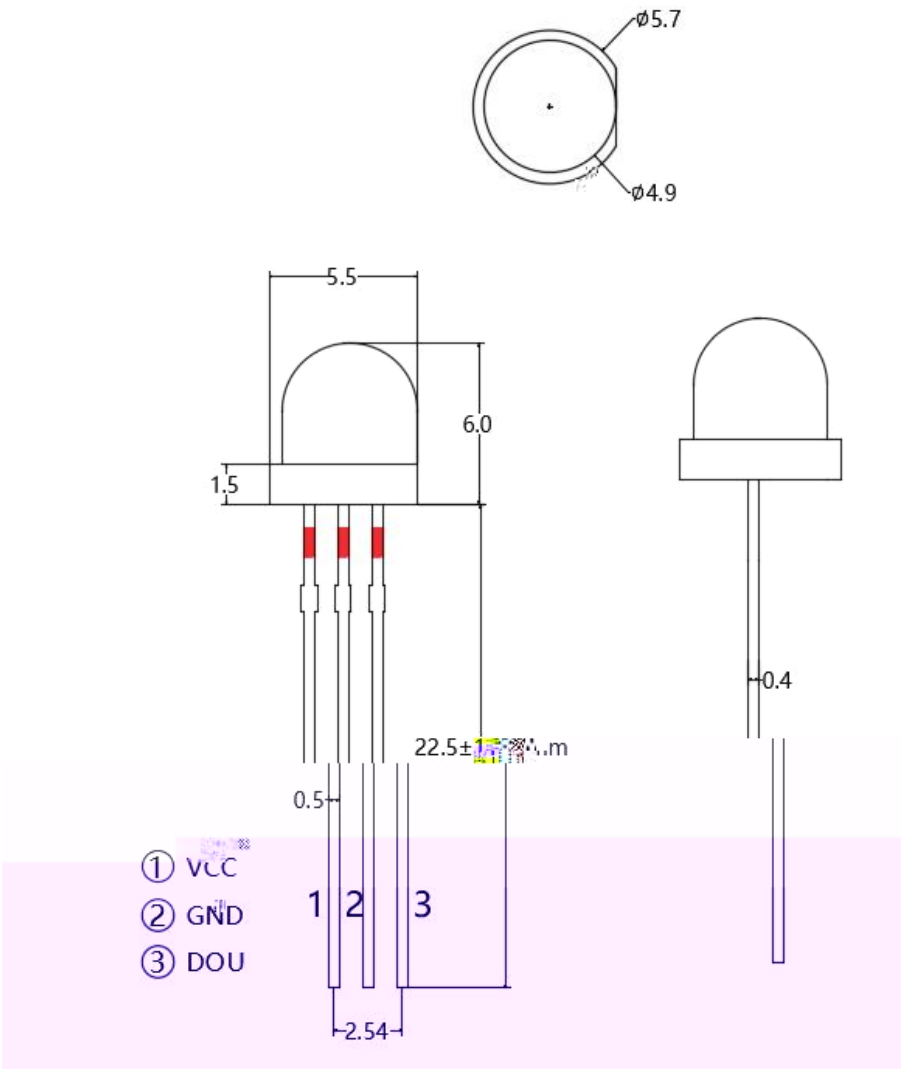
## 可靠性试验

Reliability Test Items And Conditions

*

| | | | | |
|---|---|---|---|---|
| | 260 ±5 | 5 | 20 | 20 |
| | 100PF 1.5KΩ, 4KV, | | 20 | 20 |
| | 10-50HZ/1min 1.5mm X Y Z/30min | | 20 | 20 |
| | 85 ±2 | 240 | 20 | 20 |
| | | 240 | 20 | 20 |

# 外形尺寸




(Note)

1.

Dimensions are in millimeters.

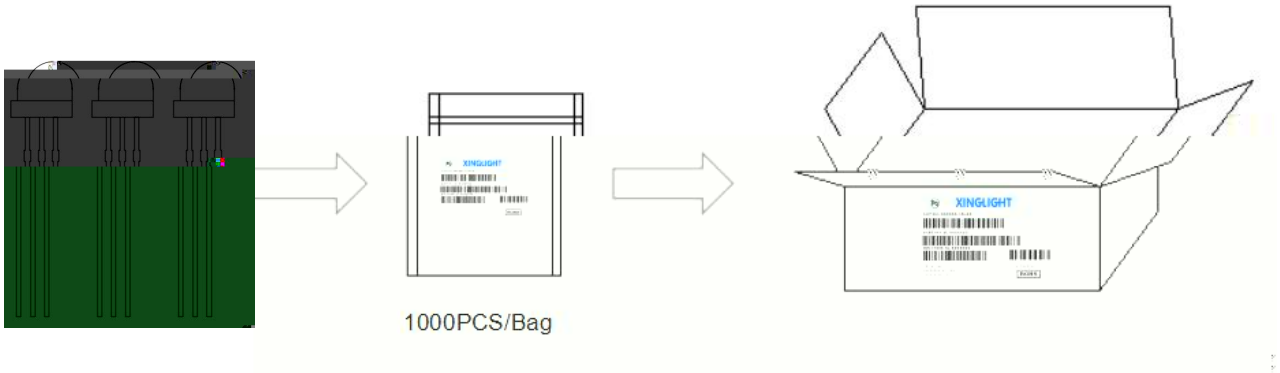
2. ± 0.25mm .

Tolerances unless mentioned are ± 0.25mm.

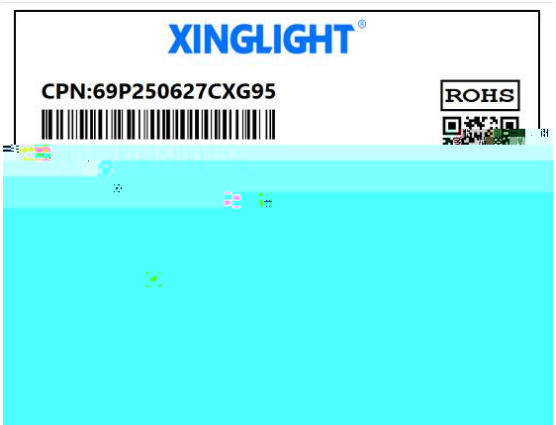
# 包装

*
In Bags

*
Moisture Proof and Anti-Electrostatic Foil Bag




## ◇ 标签说明 Label Expantion



# 使用注意事项（1）

1

LED

This Infrared receiver head can be used in some ordinary electronic equipment, such as office equipment, communication equipment, house decoration, if LED is used in some high reliability requirements, such as air transportation, traffic control and medical liao equipment, must refer to the information provided by sales.

2

85 70%

Storage environment of Infrared receiver head with temperature not exceeding 30 and relative humidity not exceeding 70%.It is recommended that Infrared receiver head be used in the original box for no more than three months. If longer storage time is required, put it in the drying box and add desiccant or filled with nitrogen.

3

Special care must be taken when cleaning colloids with chemicals, as some chemicals have damage to the colloidal surface and cause fading such as trichloroethylene, propylene, ketone, etc.It can be wiped and soaked with ethanol for no more than 3 minutes at room temperature.

1 2

It must be 2 mm from the colloid to bend the bracket.

2

Support forming must be done with fixtures or by a professional.

3

Support forming must be completed before welding.

4

The pins and spacing are the same as on the circuit board.

5 LED PCB

Welding must be performed at normal temperature and when Infrared receiver head is normally welded to the PCB plate, avoid applying mechanical pressure at LED pins at a minimum.

# 使用注意事项（2）

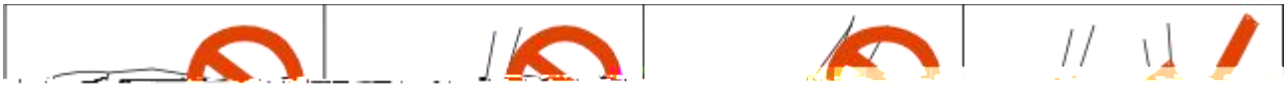
## Precautions (2)

2mm

When welding, welding must be conducted

# 使用注意事项（3）

# Precautions (3)

**9、其他事项：**

Do not apply unnecessary external force to the pins of the infrared receiver head Pay attention to protecting the receiving surface of the infrared receiver head Staining can affect reception function