

SPECIFICATION

产品规格书

Customer(客户): _____

Part No.(型号): 9.CPE2-1300nm

Description(描述): 3535 红外 (1300nm)

Date(日期): _____

Customer Approved (客户审核)		Approved (确认)	
Xuyu Approved (旭宇审核)		Approved (确认)	Issued (制定)
☐ Sample (样品)		☐ Mass Product (量产供货)	

XUYU OPTOELECTRONICS (SHENZHEN)

Address: A1 Building, Sunshine Industrial Park, Hezhou, Xixiang, Bao'an District Shenzhen City, Guangdong Province

地址: 广东省深圳市宝安区西乡鹤洲阳光工业区A1栋

Tel 电话: 0755- 81453318-3328/3338

Fax 传真: 0755-81453199

网址: <http://www.xuyuled.com>

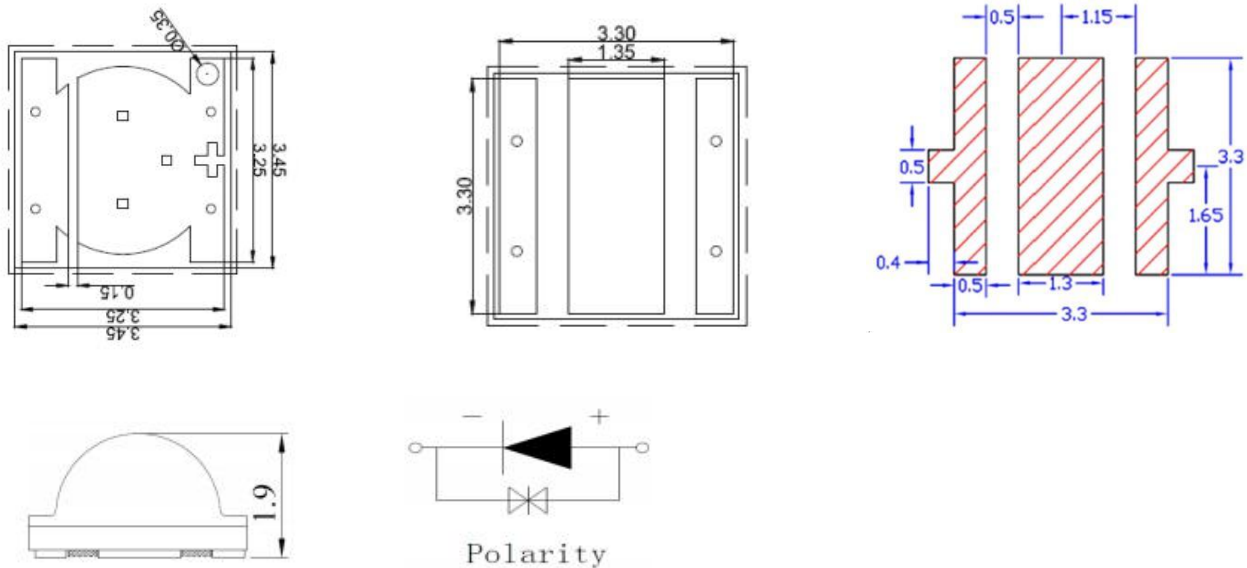
◆ Features 特性:

- *Size(mm): 3.45*3.45*1.9 尺寸 (mm) : 3.45*3.45*1.9
- *Ceramic and silicone molding package 陶瓷基板 molding 封装
- *Viewing Angle: 120° 发光角度: 120°
- * High reliability 高可靠性
- * RoHS compliant 通过 RoHS 认证
- *Suitable for all SMT assembly and solder process 适用所有 SMT 焊接工艺
- *Pb-free reflow soldering application 无铅回流焊

◆ Applications 产品应用:

- *Safety monitoring 安全监控
- *Special lighting 特殊照明
- *Industrial detection 工业检测

◆ Package Dimensions 产品外观尺寸



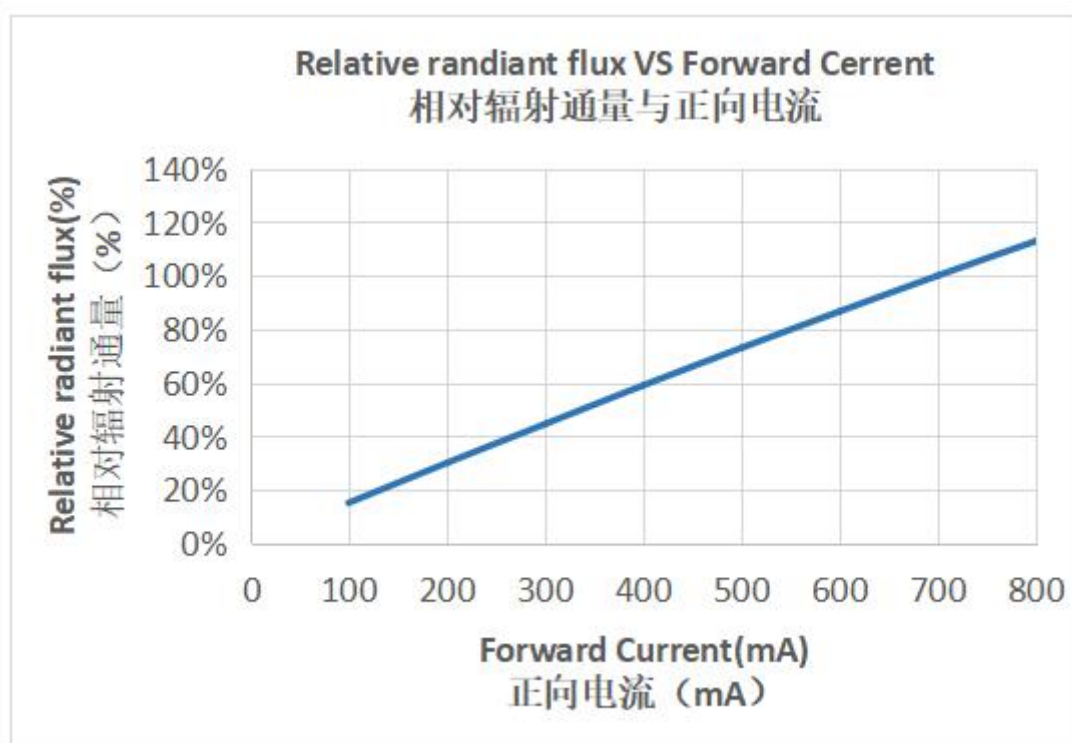
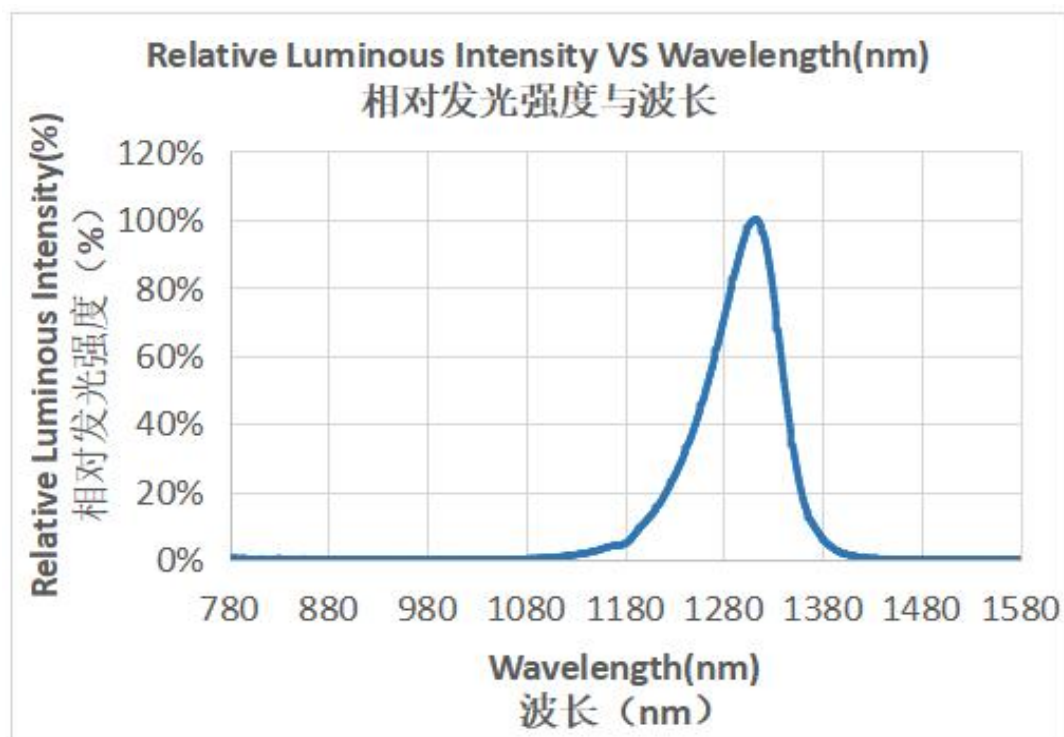
◆ Electrical-Optical Characteristics (Ta=25℃) 光电特性

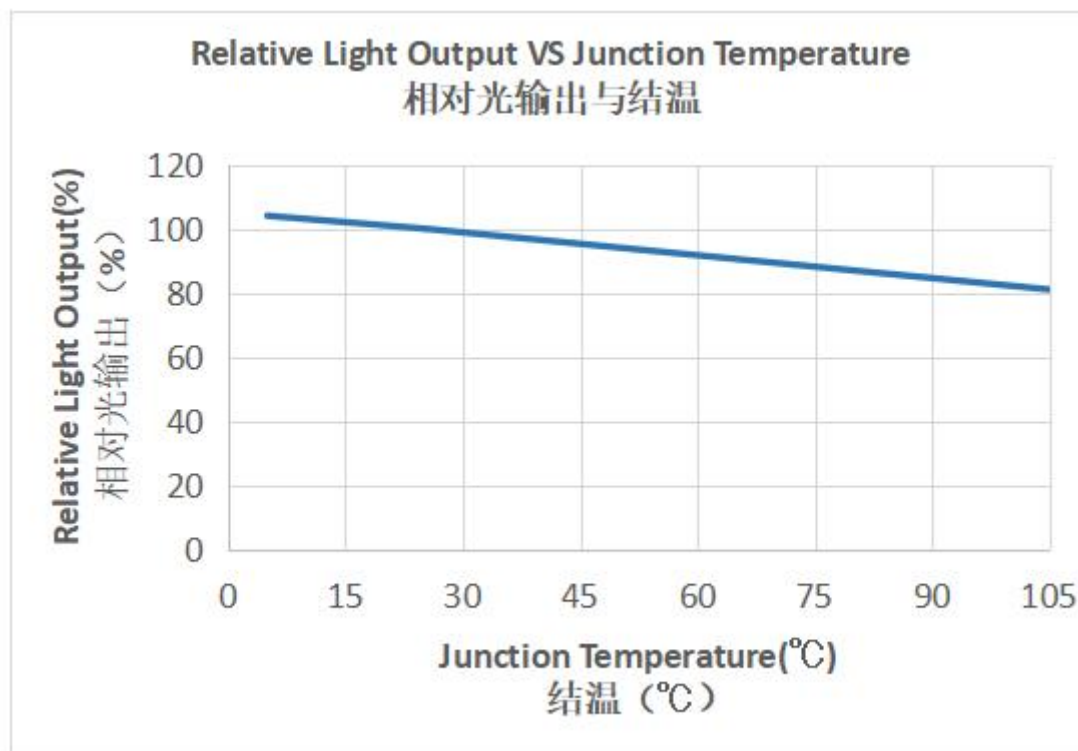
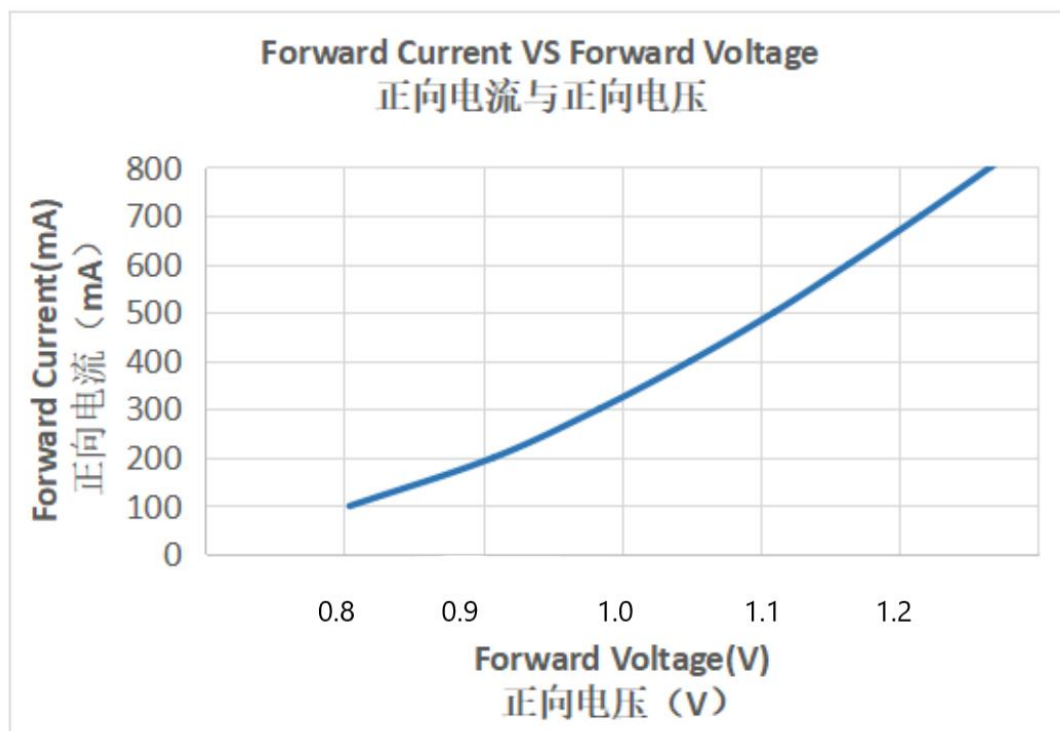
Parameter 参数	Test Condition 测试条件	Symbol 符号	Min 最小值	Typ 典型值	Max 最大值	Unit 单位
Forward Voltage 正向电压	$I_F=350\text{mA}$	V_F	0.9	---	1.2	V
Reverse Current 反向电流	$V_R=-5\text{V}$	I_R	---	---	5	μA
View Angle 发光角度	$I_F=350\text{mA}$	2θ	1/2	---	120	deg.
Wavelength 波长	$I_F=350\text{mA}$	λ_p	1250	---	1350	nm
Radiant flux 辐射通量	$I_F=350\text{mA}$	Φ_e	50	---	70	mW
Thermal resistance 有效热阻	$I_F=350\text{mA}$	R_{J-A}	---	15	---	$^{\circ}\text{C}/\text{W}$

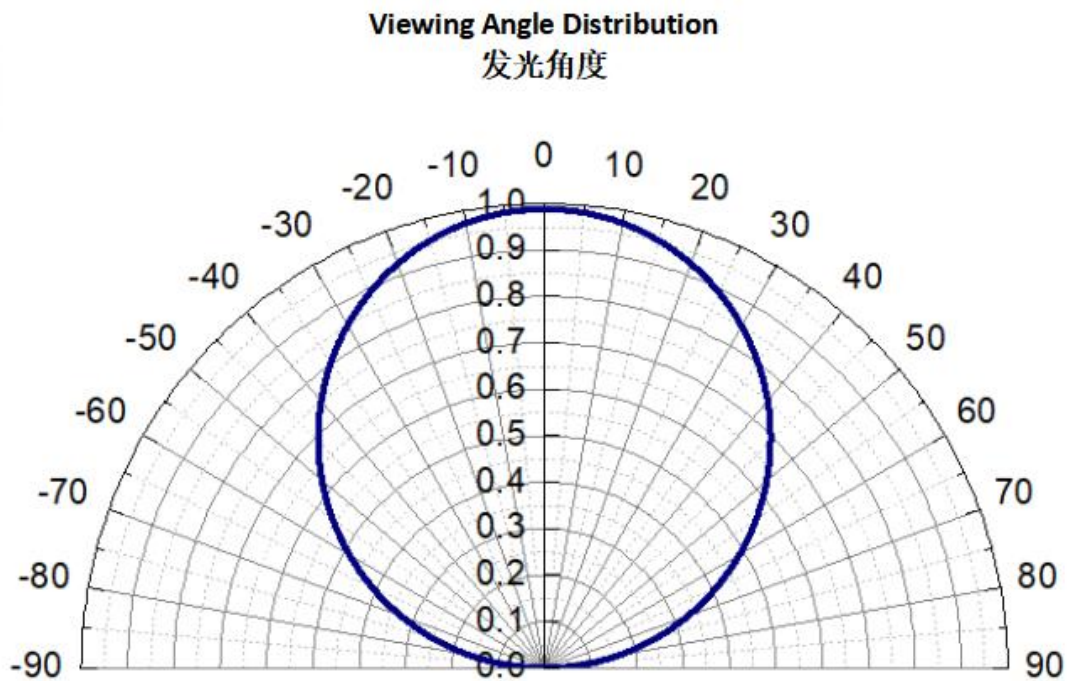
Note: the test tolerance 测试公差

$V_F : \pm 1\%$

◆ Typical Electrical/Optical Characteristic Curves 典型光电特性曲线







Notes:

1. Related to the temperature test based on the right current. 与温度相关测试基于额定电流。
2. All measurements were made under the standardized environment of XUYU. 所有测试都是基于旭宇光电（深圳）股份有限公司现有的标准测试平台。

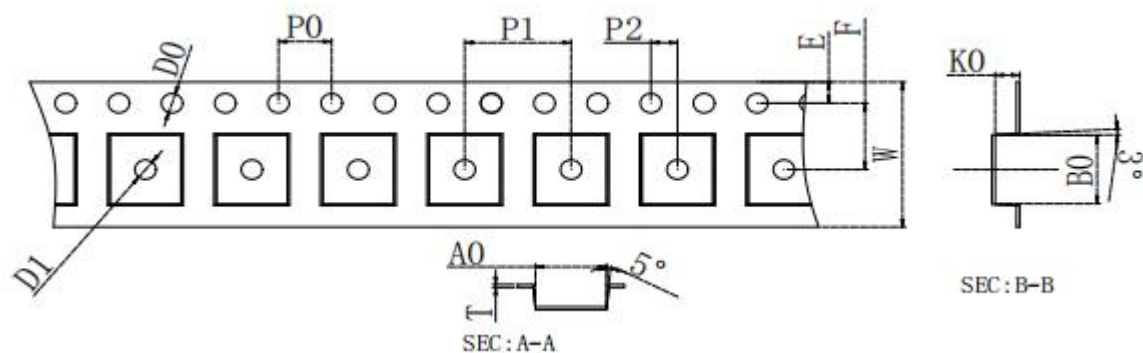
◆ Reliability 信赖性测试项目及测试条件

1. Test Items And Results 测试项目及结果

Item 项目	Test conditions 测试条件	Note 测试频率	Number of Damaged 损坏数量
Reflow 回流焊	Temp:260°C max T=10 sec	2 times	0/22
Thermal Shock 冷热冲击	-40~100°C 30min, 10s, 30min The 300 round	100cycles	0/22
High Temperature High Humidity Storage 高温高湿储存	Ta=85°C, RH=85%	300hrs	0/22
Steady State Operating life 常温通电	Ta=25°C, I _F =700mA	1000hrs	0/22
Steady State Operating life of High Humidity Heat 高温高湿通电	Ta=85°C RH=85%, I _F =700mA	1000hrs	0/22
High Temperature Storage 高温储存	Ta=100°C	1000hrs	0/22
Low Temperature Storage 低温储存	Ta=-40°C	1000hrs	0/22

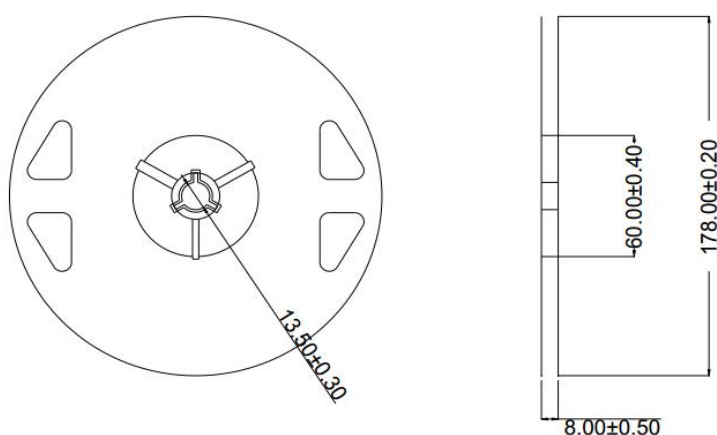
2. Criteria for Judging The Damage 失效判定标准

◆ Packaging Specifications 包装规格



W	12.00±0.10	T	0.20±0.02	D1	1.60±0.10	单位
E	1.75±0.10	F	5.50±0.10	D0	1.60±0.10	mm
P0	4.00±0.10	P1	8.00±0.10	P2	2.00±0.10	
A0	3.75±0.10	B0	3.70±0.10	K0	2.20±0.10	

Dimensions of Reel 卷盘规格



Label(标签):

Part NO: Product model 产品型号

LOT NO: Instruction number 指令单号

Spec NO: product 产品规格

Date: Date 日期

Bin No.: Class-Bin No.-Wavelength code 班别-Bin 号-波段代码

Q' ty: Quantity 数量

IF (mA) : Forward current 正向电流

VF (V) : Forward voltage 正向电压

Φ (mW) : Radiant flux 辐射通量

λ_p (nm) : Peak Wavelength 峰值波长

旭宇光电 (深圳) 股份有限公司 XUYU OPTOELECTRONICS (SHENZHEN) CO., LTD.	
Part No. :	Lot No. :
Spec No. :	Date. :
Bin No. :	Qty

1. keep out of reach of children.

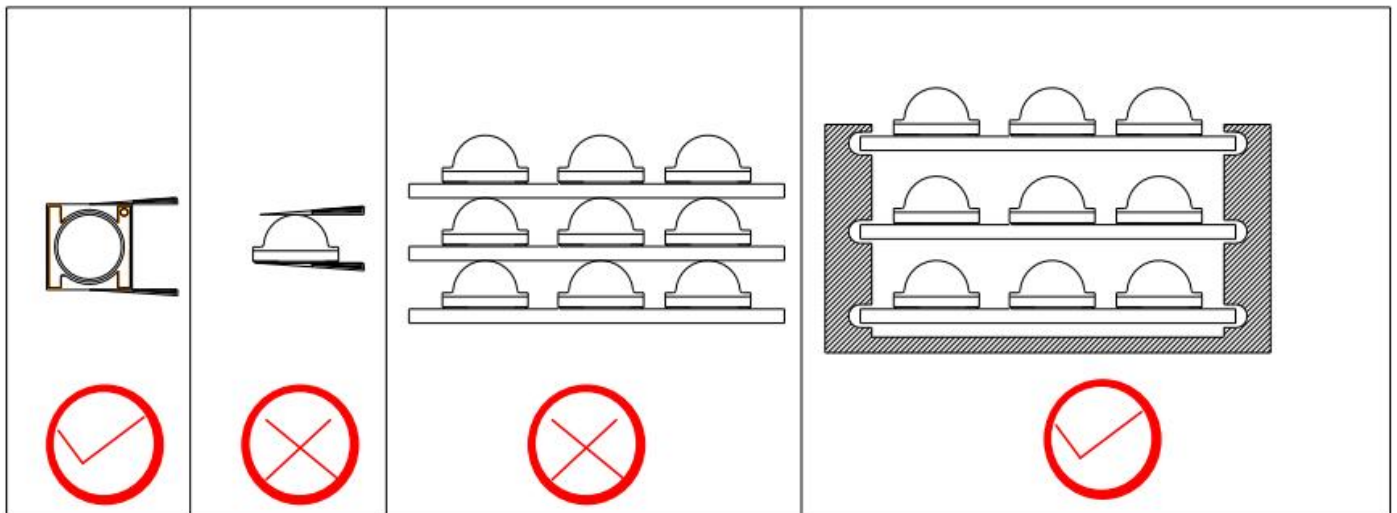
1、远离儿童

2.The encapsulated material of the LEDs is silicone. Therefore the LEDs have a soft surface on the top of package. The pressure to the top surface will be influence to the reliability of the LEDs. Precautions should be taken to avoid the strong pressure on the encapsulated part. So when use the picking up nozzle, the pressure on the silicone resin should be proper.

2、LED 封装为硅胶，故 LED 胶体表面较软，用力按压胶体表面会影响 LED 可靠性。应避免使用较大压力按压胶体表面，在使用吸嘴时，作用于胶体表面的力应适宜。

3.Handle the component along the side surface by using forceps or appropriate tools; do not directly touch or Handle the silicone lens surface, it may damage the internal circuitry.

3、采用合适的工具从侧面夹取材料，不要用手或尖锐金属按压胶体表面，否则可能导致内部电路损坏。



4.Electrostatic protection. LED is a chip sensitive electronic component. Various measures should be taken to avoid static electricity, such as wearing an electrostatic bracelet or anti-static gloves during use. All devices, equipment and instruments should be well grounded