

SPECIFICATION

产品规格书

Customer(客户): _____
Part No.(型号): CB30XX
Description(描述): 氧化铝陶瓷COB
Date(日期): _____

| Customer Approved (客户审核) | Approved (确认) | |
|--------------------------------------|------------------|--|
| | | |
| Xuyu Approved (旭宇审核) | Approved (确认) | Issued (制定) |
| | | |
| <input type="checkbox"/> Sample (样品) | | <input type="checkbox"/> Mass Product (量产供货) |

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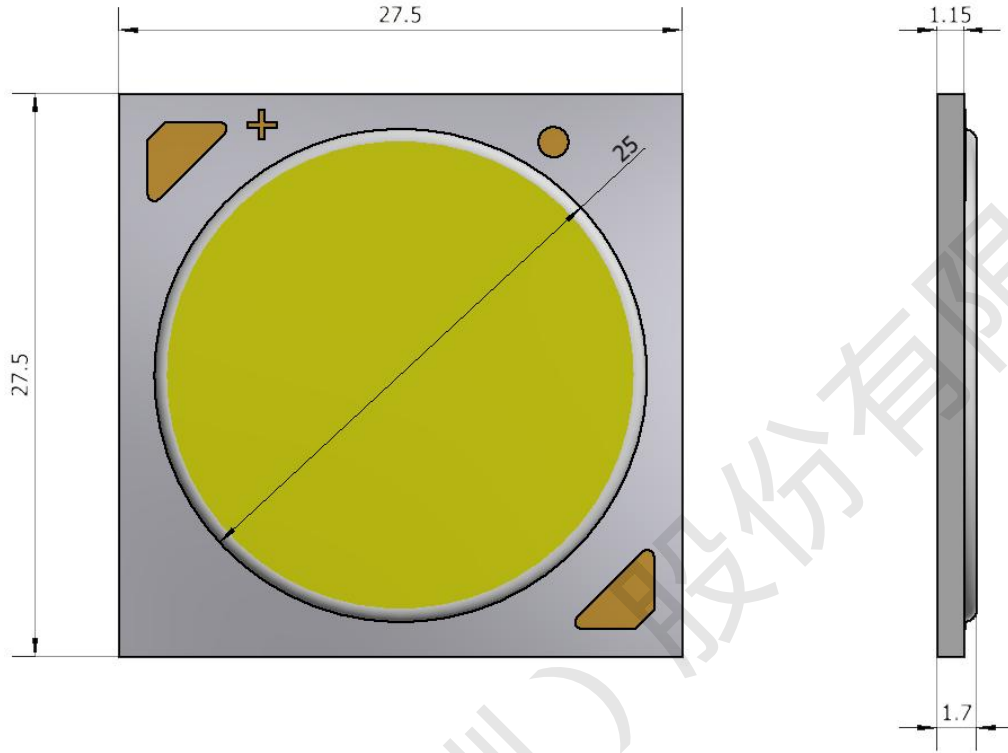
◆ Features 特性:

- *Size(mm): 27.5*27.5*1.7 尺寸 (mm) : 27.5*27.5*1.7
- *Ceramic and silicone package 陶瓷基板封装
- *Viewing Angle: 120° 发光角度: 120°
- * High reliability 高可靠性
- * RoHS compliant 通过 RoHS 认证

◆ Applications 产品应用:

- * Spotlight 射灯
- * Downlight 筒灯
- * Par lamp PAR 灯
- * Bulb 球泡灯 Restaurant lights 餐厅灯 Outdoor landscape lighting 户外景观照明

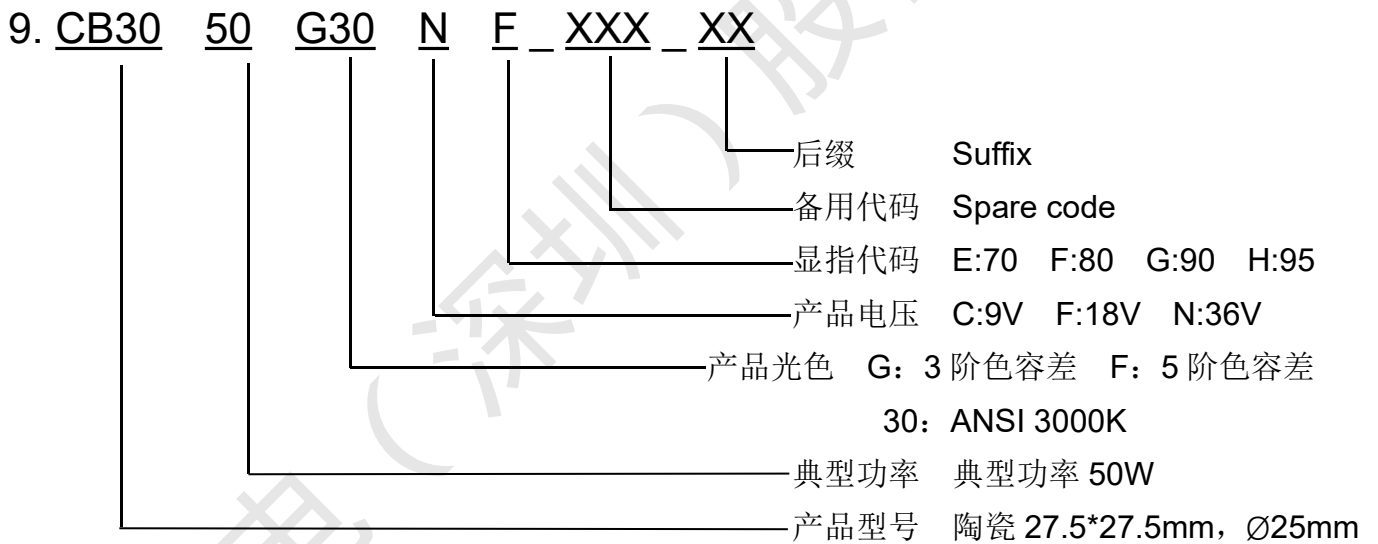
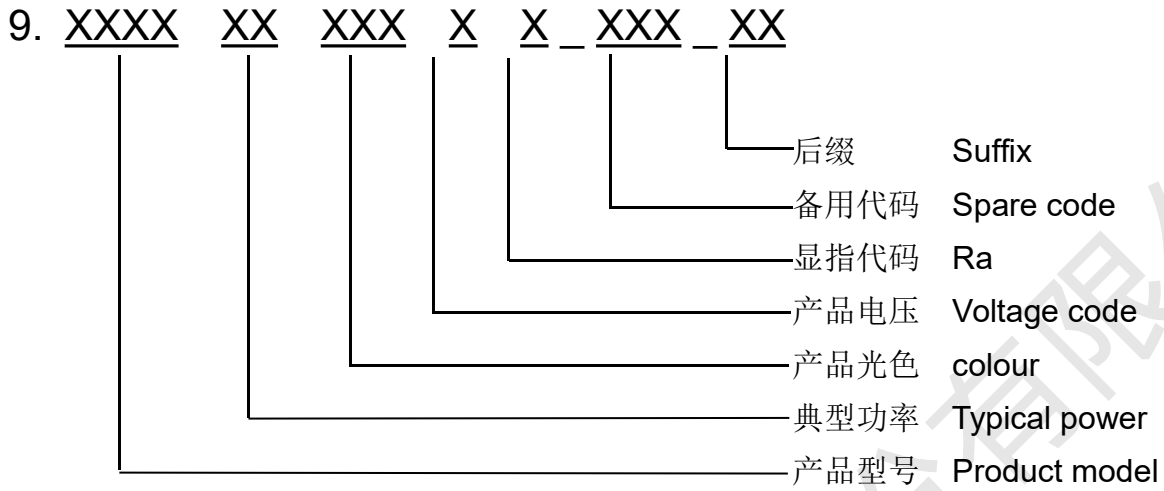
◆ Package Dimensions 产品外观尺寸



Notes:

1. All dimensions are in mm 所有尺寸单位为毫米。
2. Tolerance is $\pm 0.2\text{mm}$ unless otherwise noted. 非特殊标注，公差为 ± 0.2 毫米。

◆ Product coding rules 产品编码规则



◆ Typical Electrical/Optical Characteristic 典型光电参数

| Product | Light Emitting Surface (LE S) | Substrate Width | Voltage Options | Max Power (W) | Binning I/V | Typical Lumens (@Binning Current, 4000K CCT, 80 CRI) | Typical Lumens per Watt (@Binning Current, 4000K CCT, 80 CRI) | Typical Lumens ² (@Binning Current, 3000K CCT, 90 CRI) | Typical Lumens per Watt ² (@Binning Current, 3000K CCT, 90 CRI) |
|---------|-------------------------------|-----------------|-----------------|---------------|--------------|--|---|---|--|
| CB3050 | 25mm | 27.5 mm | 36 V | 90W | 1400 mA/36 V | 8100 | 165 | 7150 | 145 |

◆ Electrical-Optical Characteristics (Ta=25°C) 光电特性
CB3050

| Parameter | Symbol | Rating | Unit |
|-------------------------------------|-----------------|------------|------|
| Power Dissipation (功耗) | PD | 50 | W |
| Forward Current (正向电流) | IF | 1400 | mA |
| Max Forward Current (最大正向电流) | MAX IF | 2500 | mA |
| Peak Forward Current* (脉冲峰值电流) | IFP | 2800 | mA |
| Junction temperature (有限最高结温) | Tj | 125 | °C |
| Operation Temperature Range (工作温度) | Topr | -30 to +85 | °C |
| Storage Temperature Range (贮藏温度) | Tstg | -40 to +80 | °C |
| Thermal resistance (有效热阻参考) | RJ-B | 0.30 | °C/W |
| ESD Sensitivity (HBM) (抗静电级别) | -- | 4000 | V |
| Hand Soldering Temperature (手工焊接温度) | 350±20°C/3~5sec | | |

Note: the test tolerance 测试公差

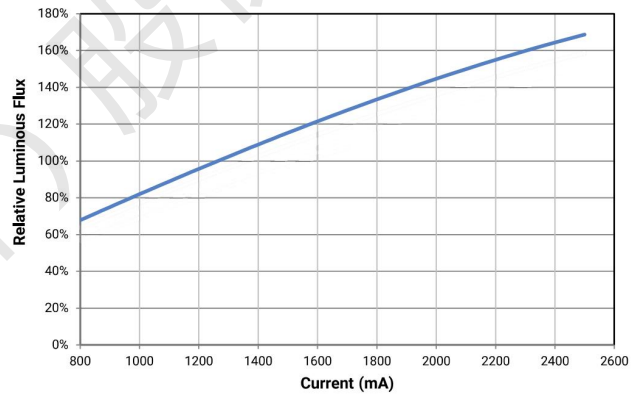
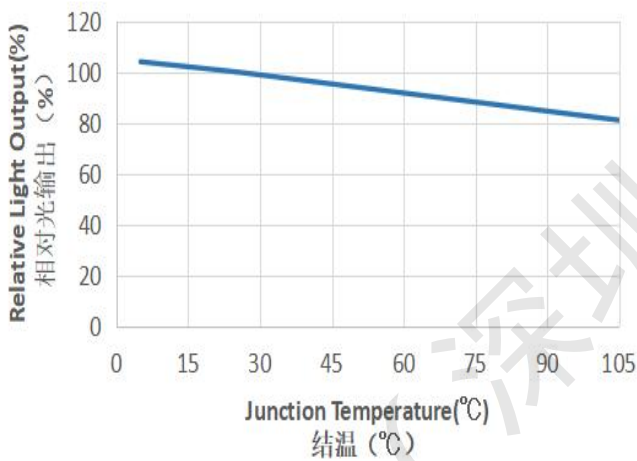
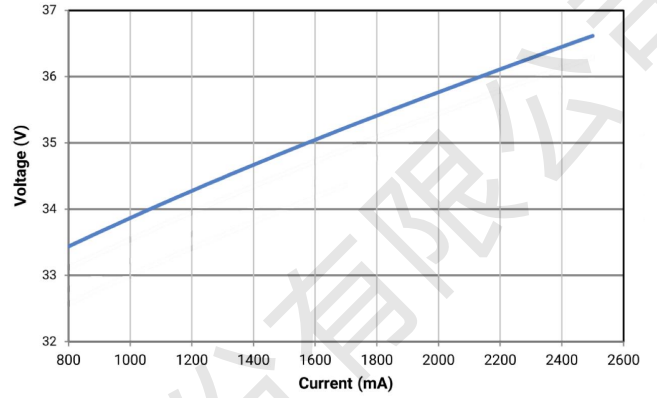
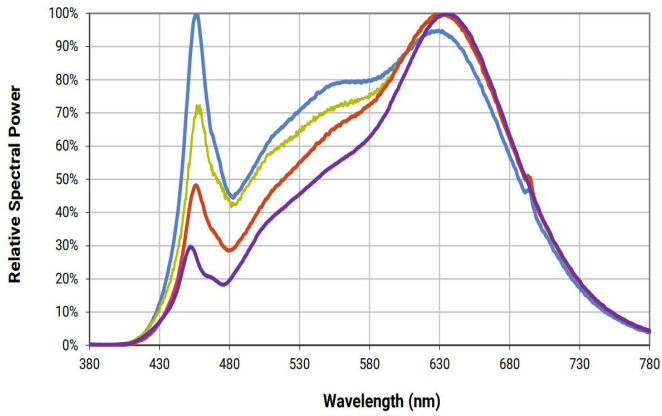
$V_F : \pm 1\%$

$XY : \pm 0.003$

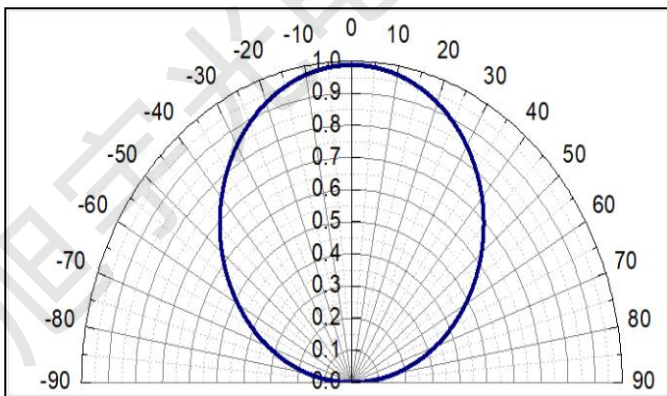
$\Phi_e : \pm 10\%$

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

CB3050



Viewing Angle Distribution 发光角度

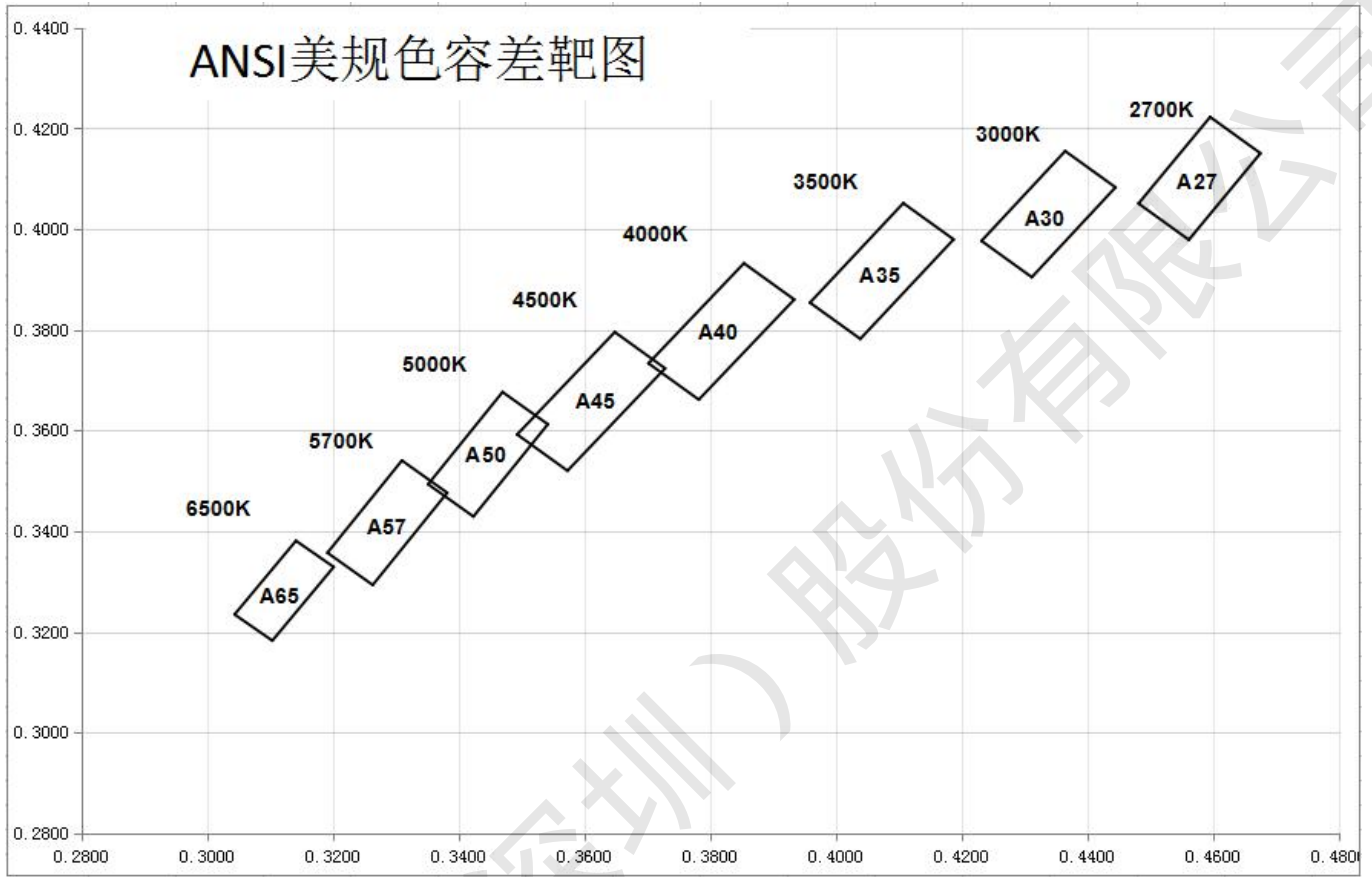


Notes:

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。

◆ CIE Chromaticity Diagram:(TA=25 °C)

CIE 色度图



Color Rank :(TA=25℃) 分 Bin 规格

| CODE | CCT | X | Y |
|------|-------|--------|--------|
| A27 | 2700K | 0.4595 | 0.4223 |
| | | 0.4481 | 0.4051 |
| | | 0.4561 | 0.3979 |
| | | 0.4675 | 0.4151 |

| CODE | CCT | X | Y |
|------|-------|--------|--------|
| A30 | 3000K | 0.4365 | 0.4155 |
| | | 0.4231 | 0.3977 |
| | | 0.4311 | 0.3905 |
| | | 0.4445 | 0.4083 |

| CODE | CCT | X | Y |
|------|-------|--------|--------|
| A35 | 3500K | 0.4107 | 0.4052 |
| | | 0.3959 | 0.3854 |
| | | 0.4039 | 0.3782 |
| | | 0.4187 | 0.3980 |

| CODE | CCT | X | Y |
|------|-------|--------|--------|
| A40 | 4000K | 0.3854 | 0.3932 |
| | | 0.3702 | 0.3734 |
| | | 0.3782 | 0.3662 |
| | | 0.3934 | 0.3860 |

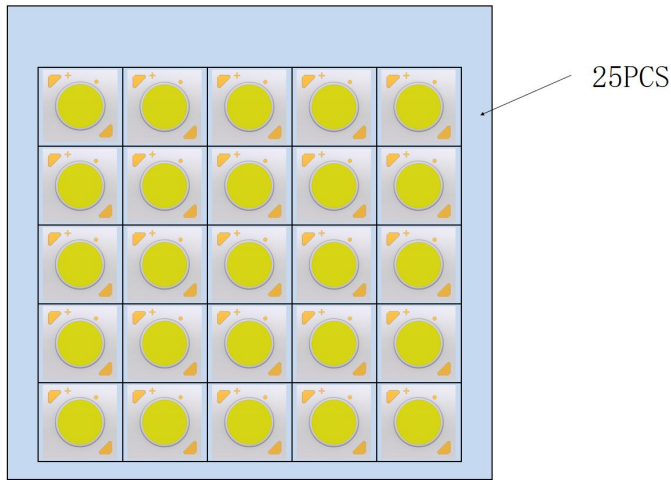
| CODE | CCT | X | Y |
|------|-------|--------|--------|
| A45 | 4500K | 0.3649 | 0.3796 |
| | | 0.3493 | 0.3592 |
| | | 0.3573 | 0.3520 |
| | | 0.3729 | 0.3724 |

| CODE | CCT | X | Y |
|------|-------|--------|--------|
| A50 | 5000K | 0.3470 | 0.3677 |
| | | 0.3352 | 0.3493 |
| | | 0.3424 | 0.3429 |
| | | 0.3542 | 0.3613 |

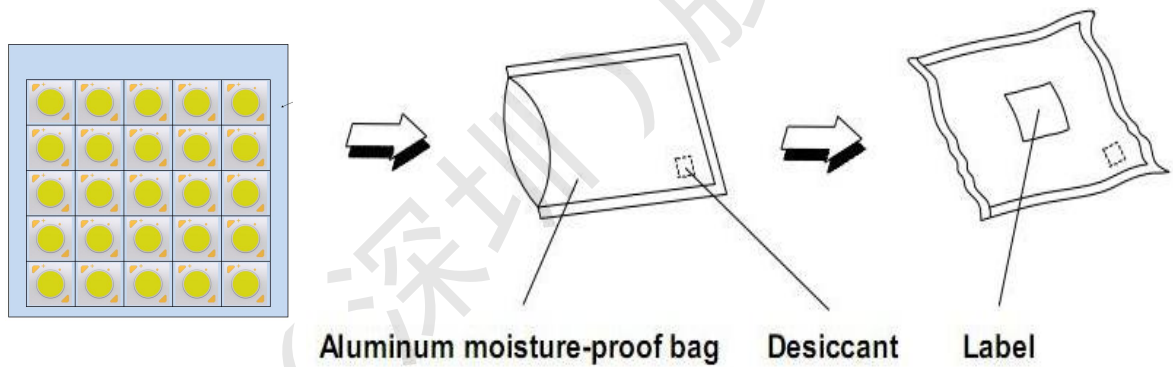
| CODE | CCT | X | Y |
|------|-------|--------|--------|
| A57 | 5700K | 0.3310 | 0.3541 |
| | | 0.3192 | 0.3357 |
| | | 0.3264 | 0.3293 |
| | | 0.3382 | 0.3477 |

| CODE | CCT | X | Y |
|------|-------|--------|--------|
| A65 | 6500K | 0.3142 | 0.3381 |
| | | 0.3044 | 0.3235 |
| | | 0.3104 | 0.3183 |
| | | 0.3202 | 0.3329 |

◆ Packaging Specifications 包装规格



Packaging specifications 包装规格 25PCSx4



Label (标签)

Part NO: 产品型号 Product model

LOT NO: 指令单号 Instruction number

IV/PO: 光通量/功率 Luminous flux /Power

V_F/I_F: 电压/电流 Voltage /Electric current

CCT/XY: 色温/色区 Color temperature / Color Coordinates

Ra/SD/R9: 显色指数/色容差/饱和红色度 Color Rendering index/Color tolerance /R9

Q'ty: 数量 Quantity

Date: 日期 Date

Code: 产品代码 Product code



◆ CARTIONS 注意事项

一、Storage/use 储存/使用:

1. In order to avoid moisture absorption, it is suggested to store the products in a drying cabinet with desiccant. The storage temperature is $5^{\circ}\text{C}\sim 30^{\circ}\text{C}$, and the humidity is $\leq 60\%HR$

1. 为避免吸潮建议将产品贮存在放有干燥剂的干燥柜中，贮存温度为： $5^{\circ}\text{C}\sim 30^{\circ}\text{C}$ ，湿度： $\leq 60\%HR$ 。

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.

4. 静电防护。LED是晶片敏感电子元器件，应采取各种措施避免静电，诸如在使用过程中戴静电手环或防静电手套。所有的装置、设备仪器应良好接地。