



LEDTECH ELECTRONICS CORP.

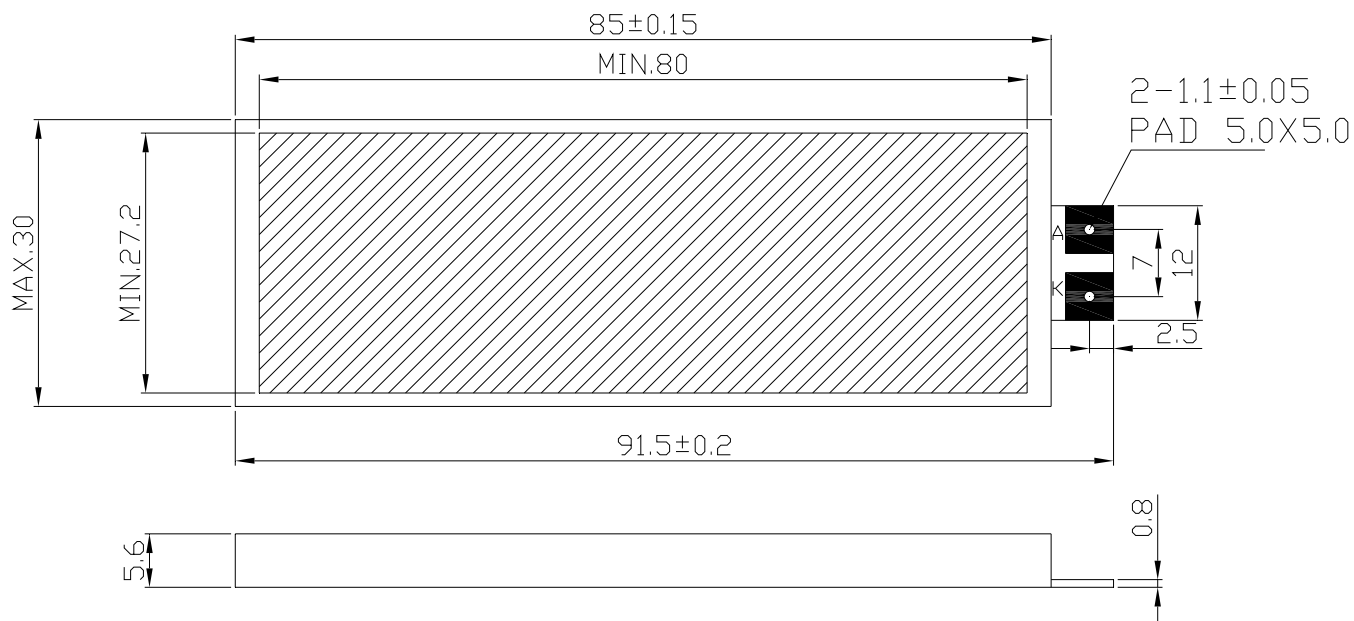
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SPECIFICATION

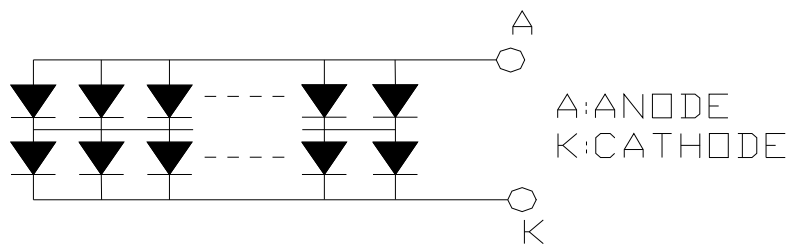
PART NO. : LY11BM-G
LED BACKLIGHT



| Approved by | Checked by | Prepared by |
|-------------|-------------|------------------|
| <i>Yue</i> | <i>Lian</i> | <i>Liang Dai</i> |

Dimensions

1. All dimensions are in millimeters.
2. Tolerance is ± 0.20 mm unless otherwise noted.

Internal Circuit Diagram

LED NUMBERS: $28 \times 2 = 56$

**LY11BM-G****LED BACKLIGHT****Description**

| Part No. | LED Chip | |
|----------|----------|----------------|
| | Material | Emitting Color |
| LY11BM-G | GaP/GaP | Yellow Green |

Absolute Maximum Ratings at Ta=25 °C

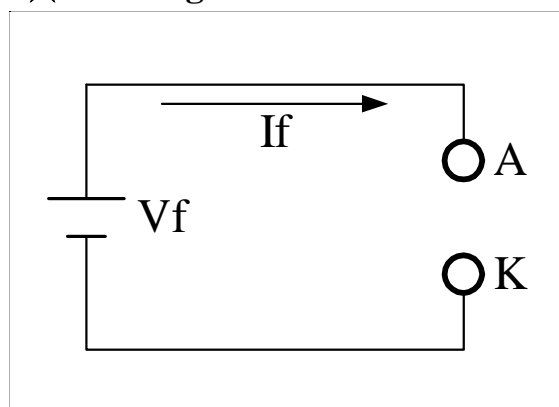
| Parameter | Symbol | Rating | Unit |
|--|--------|-----------------|------|
| Power Dissipation | PD | 2.688 | W |
| Pulse Current(1/10Duty Cycle,0.1ms Pulse Width.) | IFP | 100 | mA |
| Forward Current | IF | 560 | mA |
| Reverse (Leakage)Current | Ir | 280 | uA |
| Reverse Voltage | VR | 10 | V |
| Operating Temperature Range | Topr. | -20 to +70 | °C |
| Storage Temperature Range | Tstg. | -30 to +80 | °C |
| Soldering Iron Temp.(1.6mm from seating plane) | | 350 for 3s MAX. | °C |

Electrical and Optical Characteristics:

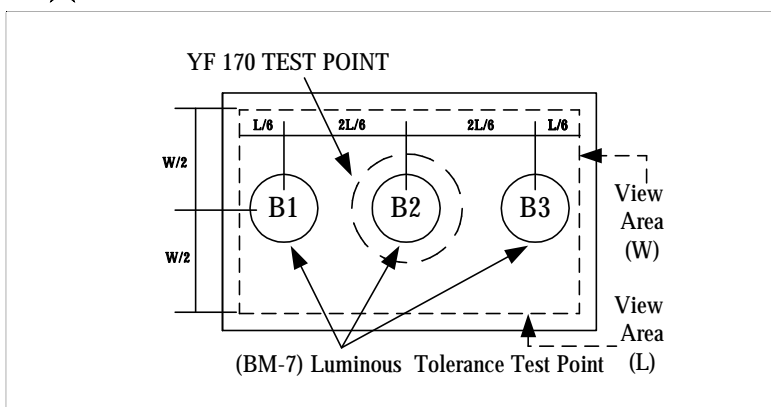
| Parameter | Symbol | Condition | Min. | Typ. | Max. | Unit |
|--|--------|-----------|------|------|------|-------------------|
| Luminous Intensity | Iv | IF=280mA | 190 | 275 | - | cd/m ² |
| Forward Voltage | Vf | IF=280mA | - | 4.2 | 4.8 | V |
| Luminous Uniformity | | IF=280mA | 70 | - | - | % |
| Dominant Wavelength | λd | IF=280mA | 570 | 573 | 575 | nm |
| Reverse Current Per Chip (Leakage Current Per Chip) | Ir | Vr=5V | - | - | 10 | μA |
| Spectrum Line Halfwidth | Δλ | IF=280mA | - | 30 | - | nm |

Remark

★1. Testing Method



★2. Measured Method



(1) The test equipment is "TOPCON"BM-7 . Field (θ) =2° V =1° =0.2°

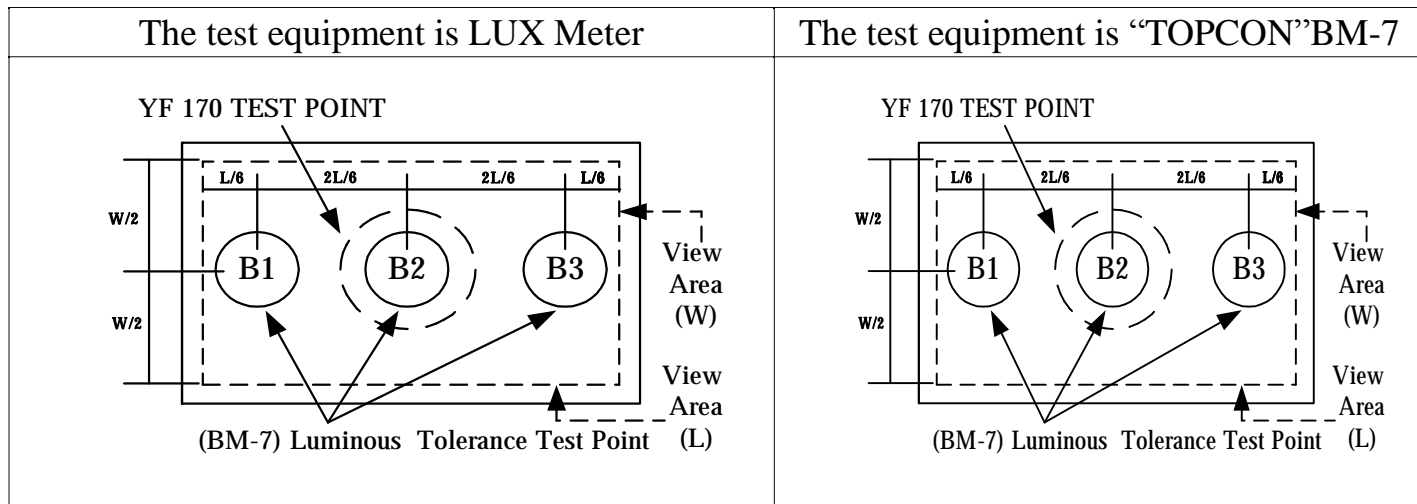
(2)The "TOPCON"BM-7 test position of luminous intensity is B1~B3.

★3. The "TOPCON"BM-7 test

Position of luminous Uniformity = $\frac{B(\text{MIN.})}{B(\text{MAX.})} \times 100\%$

(附表一)

電性、輝度量測表



TEST CONDITIONS : $V_{in} = 4.2V$, $I_f = 280\text{ mA}$ $T_a = 25^\circ\text{C}$

(1) The test equipment is "TOPCON"BM-7 Field (θ) =1° =0.2° =0.1

| NO | VF | If (mA) | LUX | Location(CD/m^2) | | | | | | AVG | Uniormity (%) |
|----|------|------------|-----|------------------------------------|-----|-----|----|----|----|-----|------------------|
| | | | | B1 | B2 | B3 | B4 | B5 | B6 | | |
| 1 | 4.15 | 280 | | 243 | 266 | 234 | - | - | - | 248 | 88 |
| 2 | 4.14 | 280 | | 239 | 257 | 236 | - | - | - | 244 | 93 |
| 3 | 4.15 | 280 | | 236 | 267 | 240 | - | - | - | 248 | 88 |
| 4 | 4.15 | 280 | | 232 | 259 | 237 | - | - | - | 243 | 89 |
| 5 | 4.14 | 280 | | 238 | 265 | 236 | - | - | - | 246 | 89 |

缺點合計： 0

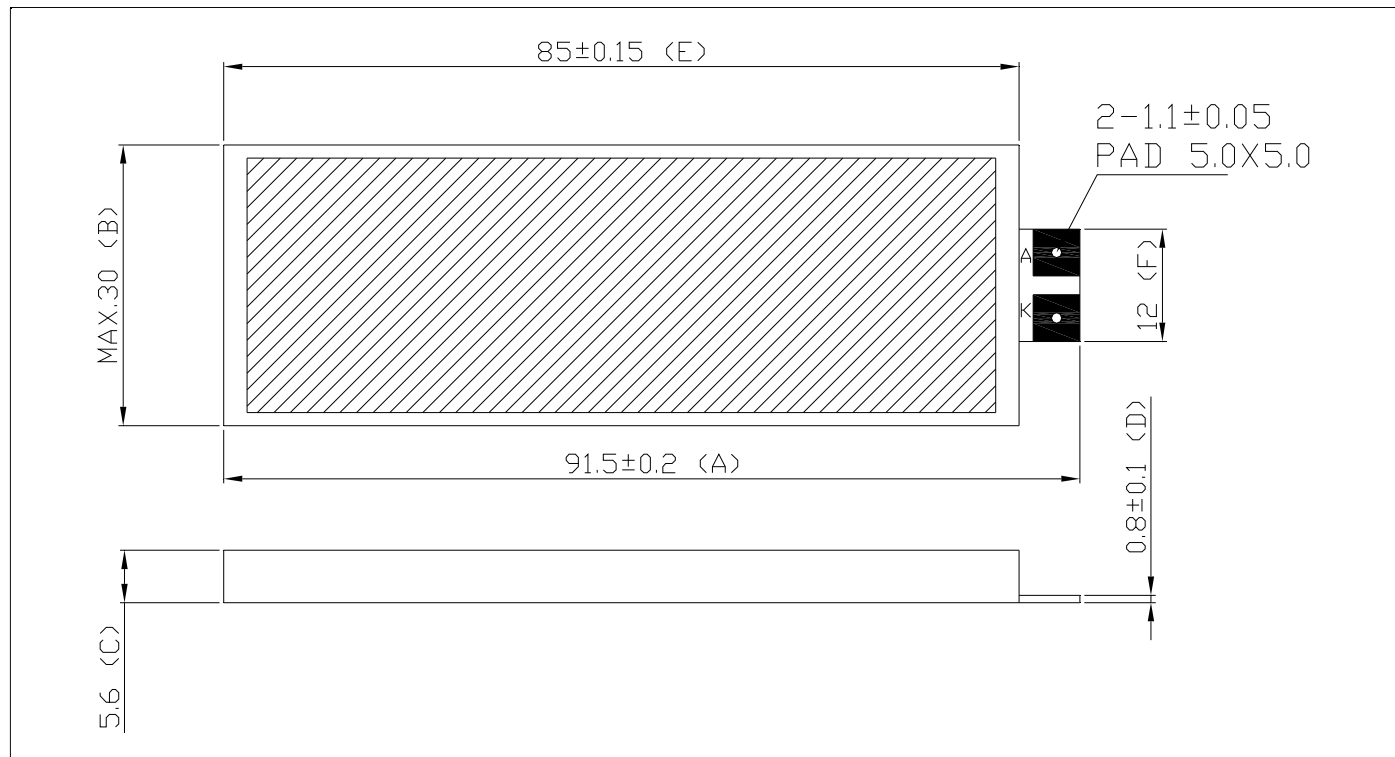
次缺點合計： 0

結果判定： 合格 不合格

(附表二)

外觀尺寸量測記錄表

TC = 25°C



| NIT : (mm) | | | | | | |
|---------------|----|-------|-------|-------|-------|-------|
| Specification | NO | 1 | 2 | 3 | 4 | 5 |
| 91.5±0.2 | A | 91.62 | 91.65 | 91.61 | 91.58 | 91.53 |
| Max.30 | B | 29.84 | 29.81 | 29.86 | 29.81 | 29.81 |
| 5.6±0.2 | C | 5.71 | 5.71 | 5.72 | 5.73 | 5.69 |
| 0.8±0.1 | D | 0.88 | 0.86 | 0.87 | 0.86 | 0.88 |
| 85±0.15 | E | 85.03 | 85.01 | 85.02 | 85.05 | 85.09 |
| 12±0.2 | F | 12.05 | 12.09 | 12.04 | 12.06 | 12.05 |
| | | | | | | |
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主缺點合計： 0 次缺點合計： 0 結果判定： 合格 不合格

Sulfur-sensitive

- **There is silver-plated metal part on the inner/outer side of the outer package.
If exposed to the condition with corrosive gas, the silver plating surface may go bad, which will affect soldering strength and optical properties. Therefore, after opening it must be kept in a sealed container, etc.**
- **Materials contain sulfur component (gasket, adhesive, etc.) may have bad effects on the surface of the coating, so please do not use such materials in the product.**
- **In cardboard boxes and rubber, even in the atmosphere may contain minute amount of corrosive gases; In addition, the resin material may also contain halogen which has a bad effect on the surface of the coating.**
- **Even if the soldering installation and product assembly finished, by the effect of corrosive gas generated by relative materials of LED and external injected, the coating surface may go bad, so it is necessary to design the product taking into account the above factors.**
- **If requires, it is best to use a silicone washer, but be aware that low molecular silicone may cause the product poor contact.**
- **Keep the product in location where has less temperature change, because moisture condensation would be generated under a condition of strong temperature change.**

DISCLAIMER

- 1. Our department reserves the right(s) on the adjustment of product material mix for the specification.**
- 2. The product meets our department published specification for a period of twelve (12) months from date of shipment.**
- 3. The graphs shown in this datasheet are representing typical data only and do not show guaranteed values.**
- 4. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. Our department assumes no responsibility for any damage resulting from the use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.**
- 5. These specification sheets include materials protected under copyright of our department.
Reproduction in any form is prohibited without obtaining our department's prior consent.**
- 6. This product is not intended to be used for military, aircraft, automotive, medical, life sustaining or life saving applications or any other application which can result in human injury or death. Please contact authorized our department sales agent for special application request.**

Precautions in Use:

During shipment and storage , the methods must not affect the product's quality ◦

●Inner package: Antistatic sponge PVC Box

●Outer package: Hard paper box ◦

