

63.5\*46 mm Single Color LCD Backlight  
Technical Data Sheet

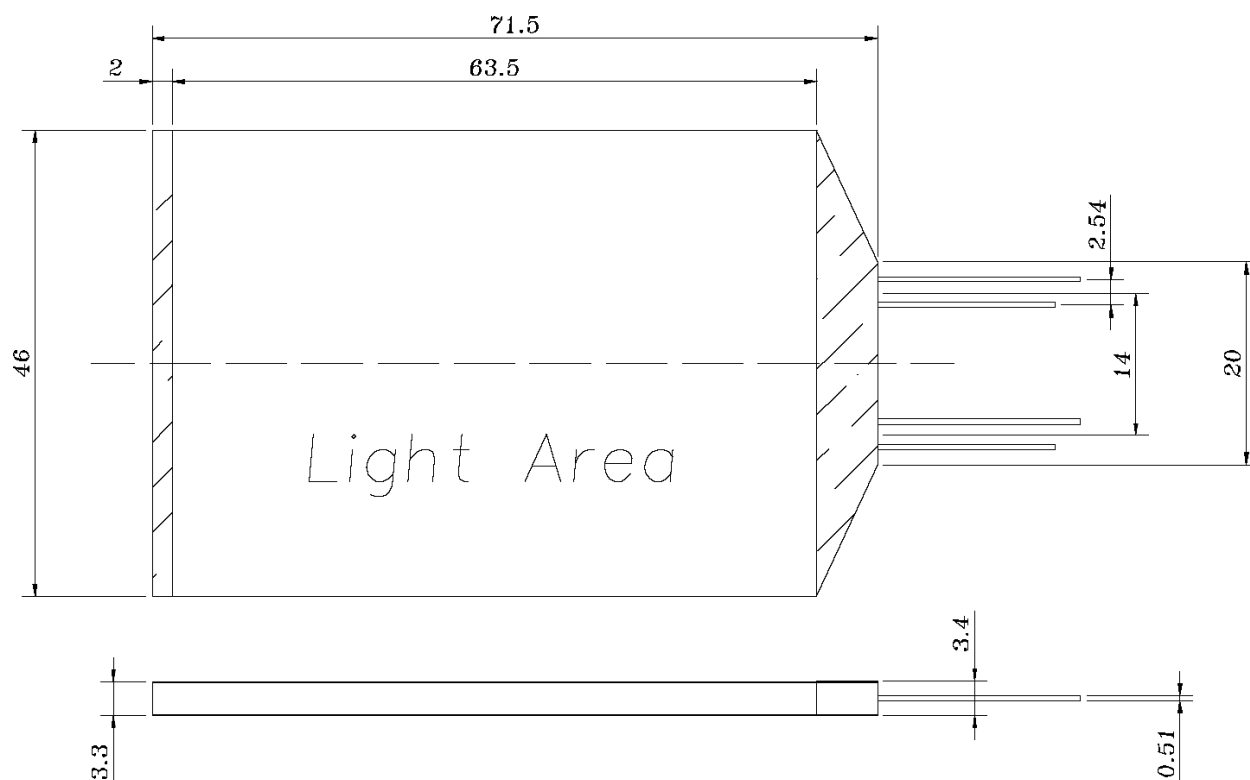
Part No: KWB-R6446W-2W

Color : White

LED Chip Material: InGaN



## Mechanical Outline



### Notes:

1. LED Lamp Q'ty : 2 pcs (White LED Lamp)
2. All dimensions are in millimeters .
3. Tolerance is  $\pm 0.3$  mm unless otherwise noted.
4. Specifications are subject to change without notice.

## Absolute Maximum Ratings at Ta=25°C

| Parameter                  | Symbol | Condition                  | Rating  | Unit |
|----------------------------|--------|----------------------------|---------|------|
| Continuous Forward Current | Ifm    | ---                        | 30      | mA   |
| Peak forward Current       | Ifp    | 1 msec Plus 10% Duty Cycle | 50      | mA   |
| Reverse Voltage            | Vr     |                            | 5       | V    |
| Power Dissipation          | Pd     |                            | 100     | mW   |
| Operating Temperature      | Topr   |                            | -20~+70 | °C   |
| Storage Temperature        | Tstg   |                            | -20~+75 | °C   |

## Electrical Optical Characteristics at Ta=25°C

| Parameter                 | Symbol | Min. | Typ. | Max. | Unit              | Test Condition |
|---------------------------|--------|------|------|------|-------------------|----------------|
| Forward Current           | If     | 15   | 20   | 25   | mA                | Vf=3.3V        |
| Forward Voltage           | Vf     | 2.8  | 3.3  | 4.0  | V                 | IF=20mA*2      |
| Reverse Current           | Vr     | --   | --   | 10   | μA                | Vr=5V          |
| Luminance (Without Glass) | Lv     | 56   | 66   | 75   | cd/m <sup>2</sup> | IF=20mA        |
| Chromaticity Coordinates  | X      | ---  | 0.27 | ---  |                   | IF=20mA        |
|                           | Y      | ---  | 0.27 | ---  |                   |                |

### Note:

- The dominant wavelength ( $\lambda_d$ ) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

## Cautions

### ■ Storage:

- ◇ Storing the units in bad condition will cause the reflector sheet and decrease it's adhesive power. Storage the products under the condition: temperature ( $25^{\circ}\text{C} \pm 10^{\circ}\text{C}$ ) and humidity ( $65^{\circ}\text{CRH} \pm 20^{\circ}\text{CRH}$ ) our recommendation.

### ■ Soldering:

- ◇ The soldering Temperature is  $260 \pm 5^{\circ}\text{C}$  and Soldering Time should be less than 3 sec, and soldering iron power should be less than 30W.
- ◇ The soldering point should be farther than 1.6mm from body.

### ■ ESD (Electrostatic Discharge)

- ◇ Static electricity and surge will damage the LEDs. It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.
- ◇ All devices, equipment and machinery must be properly grounded.