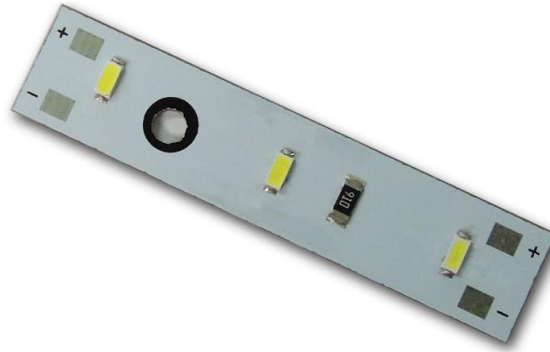


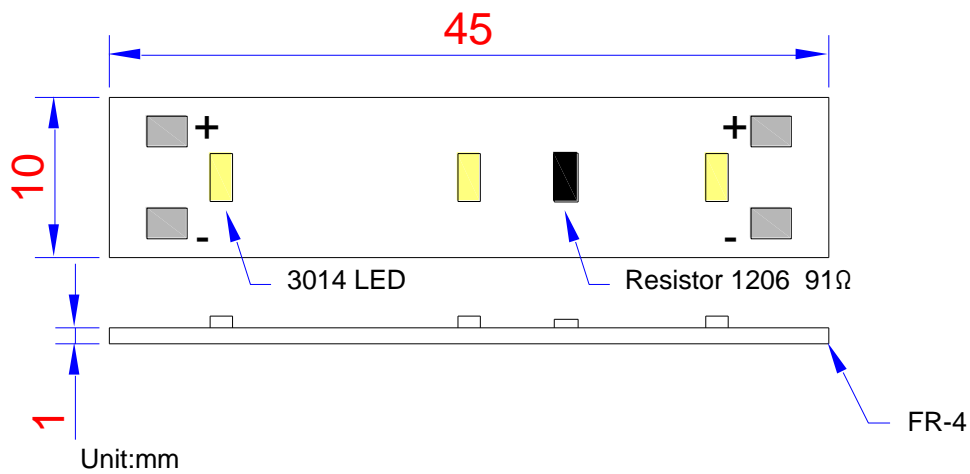
P/N: TY-4510FR-3014CW

Assemble

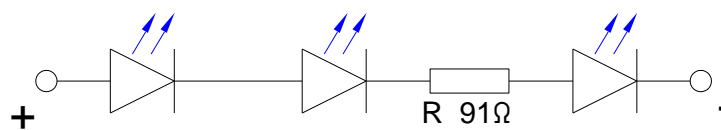
◆ Photo

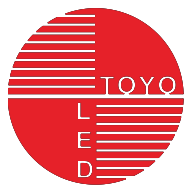


◆ Physical Dimensions



◆ Circuit Diagram





P/N: TY-4510FR-3014CW

Assemble

◆ Maximum Ratings(Ta=25°C)

| Item | Symbol | Maximum | Unit |
|---|-------------------|--------------------------|------|
| Input Voltage | V _{in} | 13.5 | V |
| Power Dissipation | PD | 0.48 | W |
| Forward Current | I _{Fmax} | 35 | mA |
| Peak Forward Current(1/10 Duty Cycle 0.1ms Pulse Width) | I _{FP} | 100 | mA |
| Operating Temperature Range | T _{opr} | -30 to +80 | °C |
| Storage | T _{stg} | -40 to +100 | °C |
| Handmade Soldering Temperature | T _{sol} | Max. 350°C for 5sec Max. | |
| Electrostatic discharge (HBM) | ESD | 2000V | |

◆ Electrical/Optical Characteristics(Ta=25°C)

| Item | Symbol | Condition | Min. | Typ. | Max. | Unit |
|-----------------------|----------------|-----------------------|------|------|-------|------|
| Forward Current | I _F | V _F =12Vdc | --- | 30 | --- | mA |
| Luminous Flux | Φ | V _F =12Vdc | --- | 32 | --- | lm |
| Color Temperature | CCT | V _F =12Vdc | 8000 | --- | 12000 | K |
| Color Rendering Index | CRI | V _F =12Vdc | --- | 70 | --- | |
| Viewing Angle | 2θ1/2 | V _F =12Vdc | --- | 120 | --- | Deg |

NOTES:

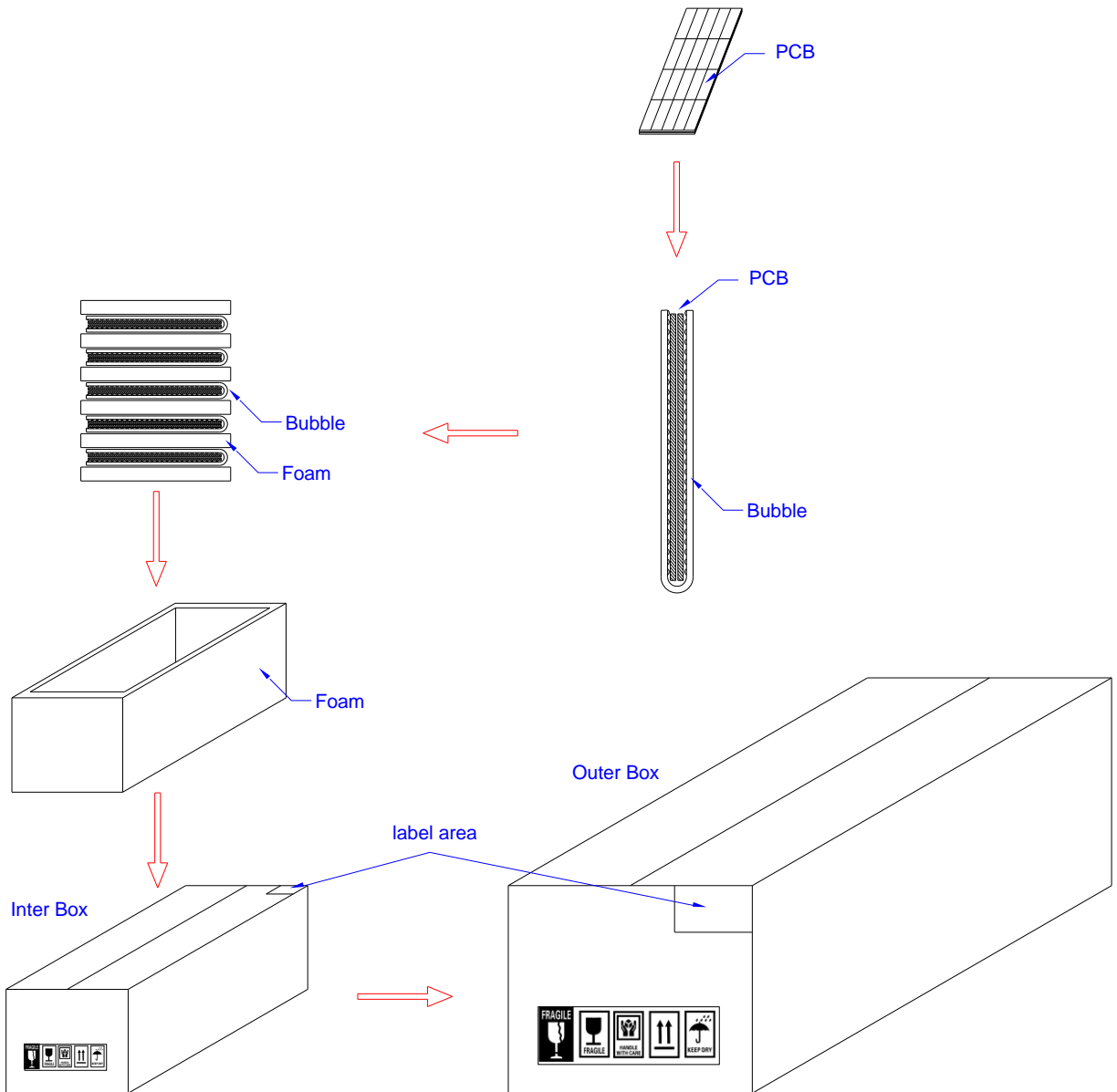
- 1.All dimensions are in millimeter;
- 2.Tolerance is ±0.25mm unless other specified;
- 3.Luminous intensity testing tolerance is ±10%;
- 4.Dominant Emission Wavelength testing tolerance is ±5%;
- 5.Specifications are subject to change without notice



P/N: TY-4510FR-3014CW

Assemble

◆ Packing Detail





P/N: TY-4510FR-3014CW

Assemble

◆ Precautions

1. Cautions of use

- Products run off at high voltage.
- Long time exposure to sunlight or UV may discolor the lens.
- Do not use adhesives to attach the LED that outgas organic vapor.
- Do not use together with the materials containing Sulfur.
- Soldering to board so as not to create a short between different trace pat-terns.
- Do not assemble in conditions of high moisture and/or oxidizing gas such as Cl, H₂S, NH₃, SO₂, NOX, etc.

2. Handing of silicone resin for LEDs

- Do not touch the silicone resin area with sharp objects such as pincette (tweezers).
- Finger prints on silicone resin area may affect the performance.
- Store LEDs in covered containers to prevent dust accumulation as this may affect perform-ance.
- Excessive force more than 3000PA to the silicone lens can result in fatal or permanent damage to LEDs.
- Do not cover the silicone resin area with any other resins such as epoxy, urethane, etc

3. Storage

- Do not impact or place pressure on this product because even a small amount of pressure can damage the product. The product should not be placed in high temperatures, high humidity or direct to sunlight.
- The devices should be stored in the anti-static bag .
- If the anti-static bag has been opened, re-seal preventing air and moisture from being present in the bag.