

Part Number: WP130WCP/2GYW

Green
Yellow

Features

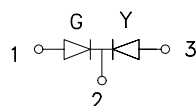
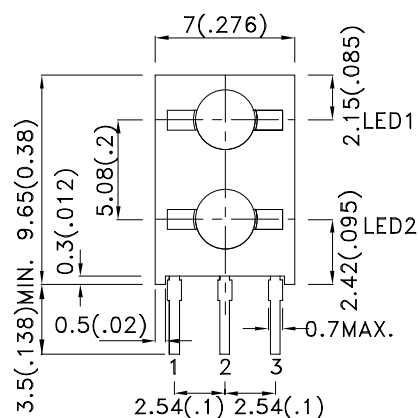
- BI-LEVEL RIGHT ANGLE HOUSING LED.
- PRE-TRIMMED LEADS FOR PC BOARD MOUNTING.
- I.C. COMPATIBLE.
- BLACK CASE ENHANCES CONTRAST RATIO.
- HIGH RELIABILITY.
- UL RATING: 94V-0.
- HOUSING MATERIAL: TYPE 66 NYLON.
- RoHS COMPLIANT.

Description

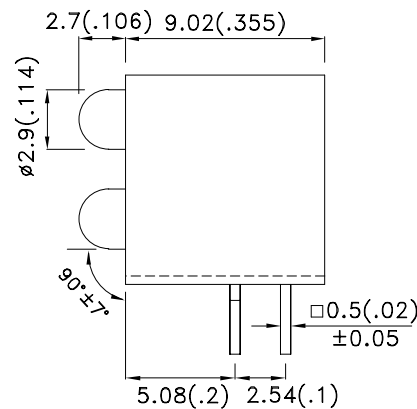
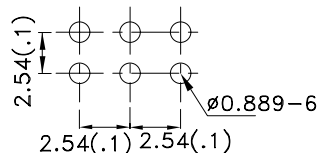
The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

Package Dimensions



RECOMMENDED PCB LAYOUT



- ```
1 ANODE GREEN
2 COMMON CATHODE
3 ANODE YELLOW
```

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25(0.01")$  unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.



## Selection Guide

| Part No.      | Dice               | Lens Type      | Iv (mcd) [2]<br>@ 20mA |      | Viewing<br>Angle [1] |
|---------------|--------------------|----------------|------------------------|------|----------------------|
|               |                    |                | Min.                   | Typ. | 2θ1/2                |
| WP130WCP/2GYW | Green (GaP)        | WHITE DIFFUSED | 7                      | 25   | 60°                  |
|               | Yellow (GaAsP/GaP) |                | 7                      | 20   |                      |

### Notes:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
2. Luminous intensity/ luminous Flux: +/-15%.

## Electrical / Optical Characteristics at TA=25°C

| Symbol                | Parameter                | Device          | Typ.       | Max.       | Units | Test Conditions           |
|-----------------------|--------------------------|-----------------|------------|------------|-------|---------------------------|
| $\lambda_{peak}$      | Peak Wavelength          | Green<br>Yellow | 565<br>590 |            | nm    | I <sub>F</sub> =20mA      |
| $\lambda_D$ [1]       | Dominant Wavelength      | Green<br>Yellow | 568<br>588 |            | nm    | I <sub>F</sub> =20mA      |
| $\Delta\lambda_{1/2}$ | Spectral Line Half-width | Green<br>Yellow | 30<br>35   |            | nm    | I <sub>F</sub> =20mA      |
| C                     | Capacitance              | Green<br>Yellow | 15<br>20   |            | pF    | V <sub>F</sub> =0V;f=1MHz |
| V <sub>F</sub> [2]    | Forward Voltage          | Green<br>Yellow | 2.2<br>2.1 | 2.5<br>2.5 | V     | I <sub>F</sub> =20mA      |
| I <sub>R</sub>        | Reverse Current          | Green<br>Yellow |            | 10<br>10   | uA    | V <sub>R</sub> = 5V       |

### Notes:

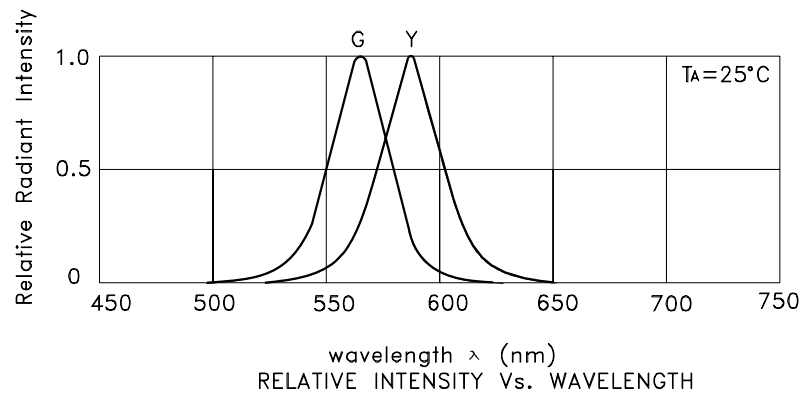
- 1.Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

## Absolute Maximum Ratings at TA=25°C

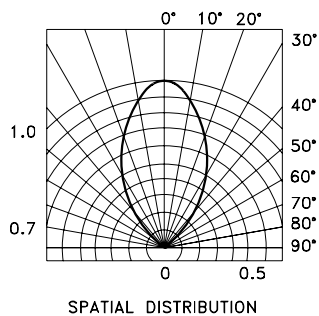
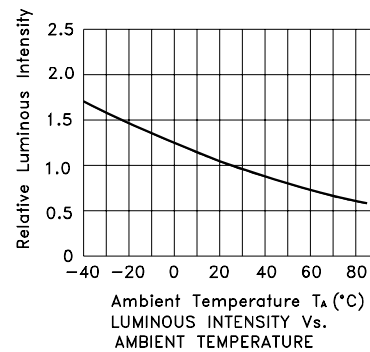
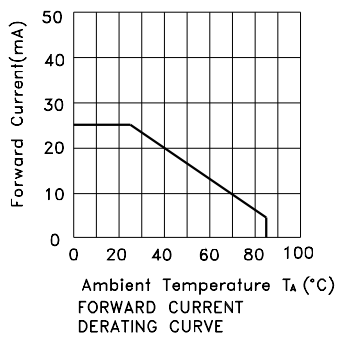
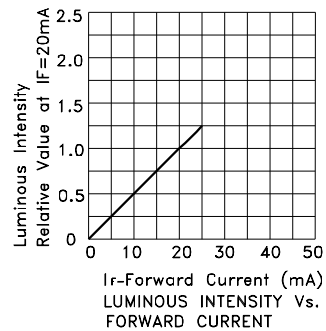
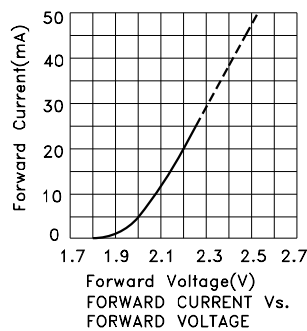
| Parameter                       | Green               | Yellow | Units |
|---------------------------------|---------------------|--------|-------|
| Power dissipation               | 62.5                | 75     | mW    |
| DC Forward Current              | 25                  | 30     | mA    |
| Peak Forward Current [1]        | 140                 | 140    | mA    |
| Reverse Voltage                 | 5                   |        | V     |
| Operating / Storage Temperature | -40°C To +85°C      |        |       |
| Lead Solder Temperature [2]     | 260°C For 3 Seconds |        |       |
| Lead Solder Temperature [3]     | 260°C For 5 Seconds |        |       |

### Notes:

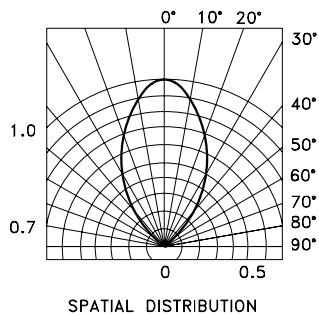
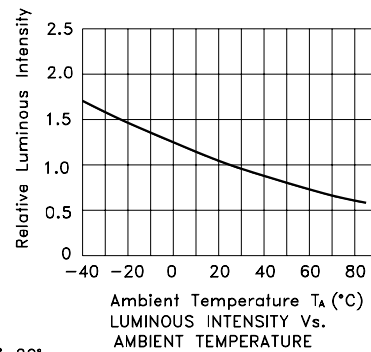
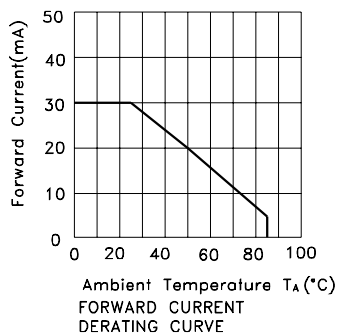
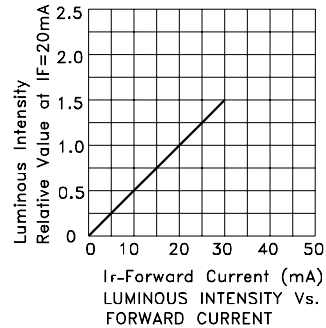
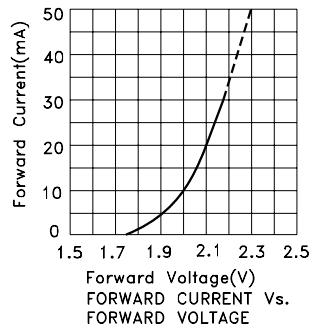
1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.
3. 5mm below package base.



## WP130WCP/2GYW Green

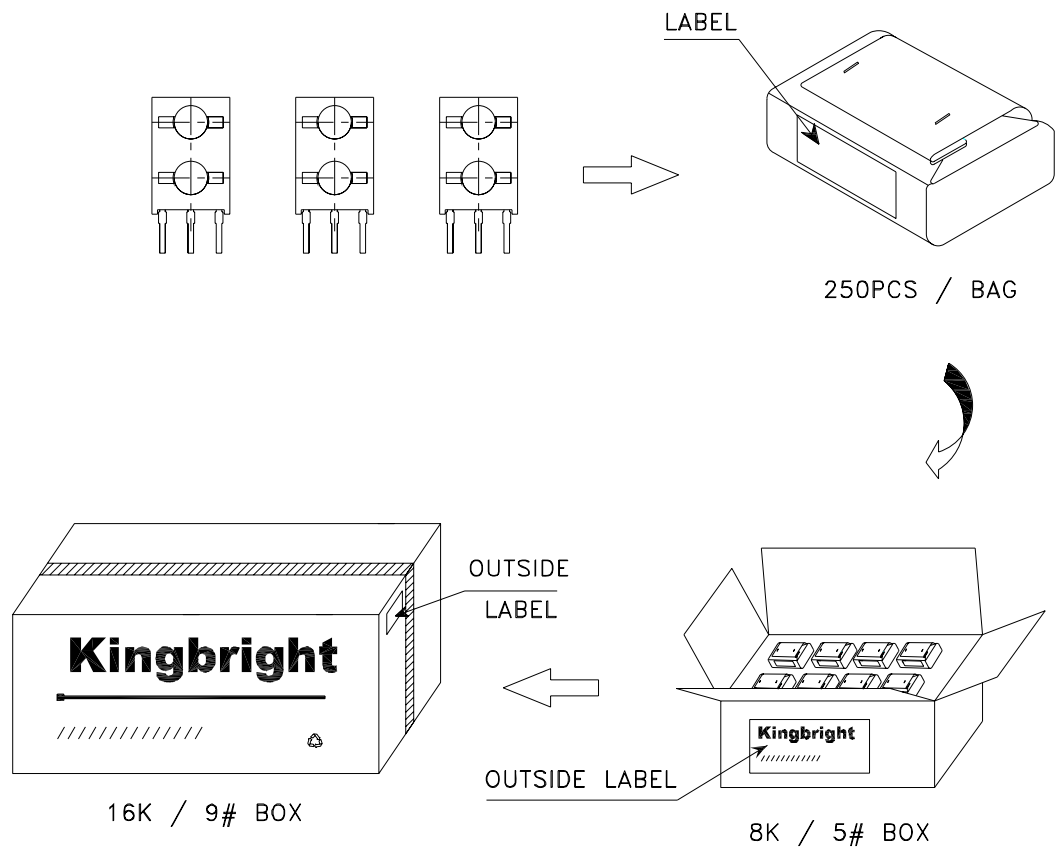


## Yellow



PACKING & LABEL SPECIFICATIONS

WP130WCP/2GYW



|                                                                                                            |          |
|------------------------------------------------------------------------------------------------------------|----------|
| <b>Kingbright</b>                                                                                          |          |
| Q.C.                                                                                                       |          |
| TYPE NO : WP130WCPxxx                                                                                      |          |
| QUANTITY : 250 pcs                                                                                         |          |
| S/N : XX                                                                                                   | CODE: XX |
| LOT NO : <br>xxxxxxxxxx |          |
| RoHS Compliant                                                                                             |          |