

# Kingbright

## 2x3mm QUAD-LEVEL RECTANGULAR LED LAMP

Part Number: WP917CK/4YGWT

YELLOW / GREEN

### Features

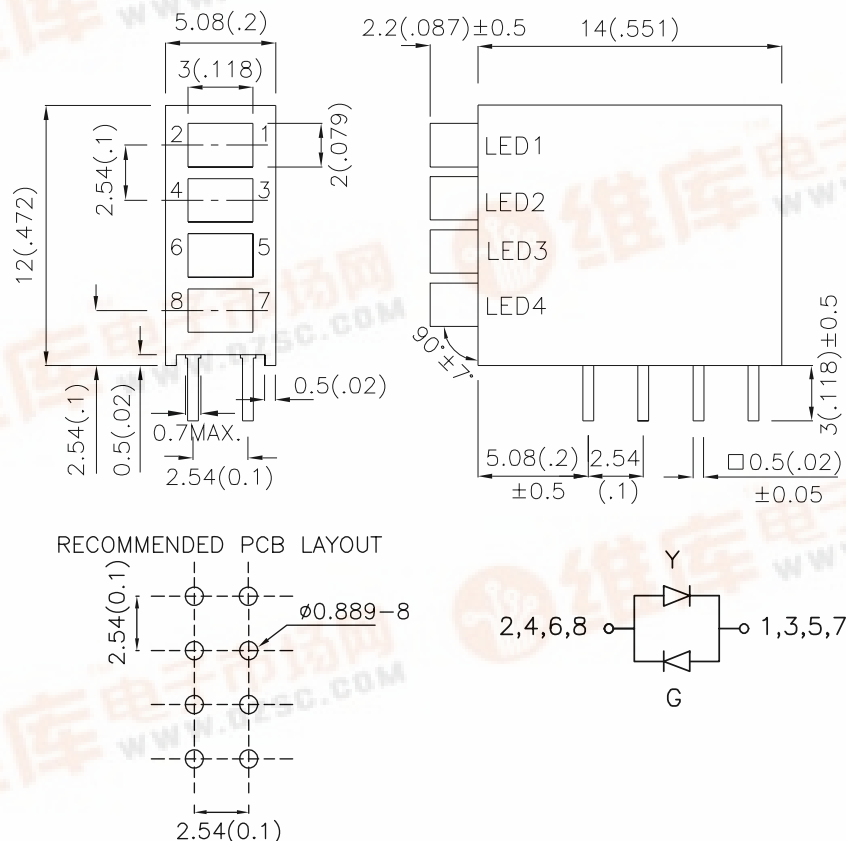
- UNIFORM LIGHT OUTPUT.
- SUITABLE FOR LEVEL INDICATOR.
- LOW POWER CONSUMPTION.
- I.C. COMPATIBLE.
- LONG LIFE - SOLID STATE RELIABILITY.
- UL RATING :94V-0.
- HOUSING MATERIAL : TYPE 66 NYLON.
- RoHS COMPLIANT.

### Description

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

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

### Package Dimensions



## Selection Guide

| Part No.      | Dice               | Lens Type      | Iv (mcd) [2]<br>@ 20mA |      | Viewing<br>Angle [1] |
|---------------|--------------------|----------------|------------------------|------|----------------------|
|               |                    |                | Min.                   | Typ. | 2 $\theta$ 1/2       |
| WP917CK/4YGWT | YELLOW (GaAsP/GaP) | WHITE DIFFUSED | 2.6                    | 6    | 100°                 |
|               | GREEN (GaP)        |                | 4                      | 10   |                      |

Notes:

1.  $\theta$ 1/2 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          | Yellow<br>Green | 590<br>565 |            | nm    | I <sub>F</sub> =20mA      |
| $\lambda_D$ [1]       | Dominant Wavelength      | Yellow<br>Green | 588<br>568 |            | nm    | I <sub>F</sub> =20mA      |
| $\Delta\lambda_{1/2}$ | Spectral Line Half-width | Yellow<br>Green | 35<br>30   |            | nm    | I <sub>F</sub> =20mA      |
| C                     | Capacitance              | Yellow<br>Green | 20<br>15   |            | pF    | V <sub>F</sub> =0V;f=1MHz |
| V <sub>F</sub> [2]    | Forward Voltage          | Yellow<br>Green | 2.1<br>2.2 | 2.5<br>2.5 | V     | I <sub>F</sub> =20mA      |

Notes:

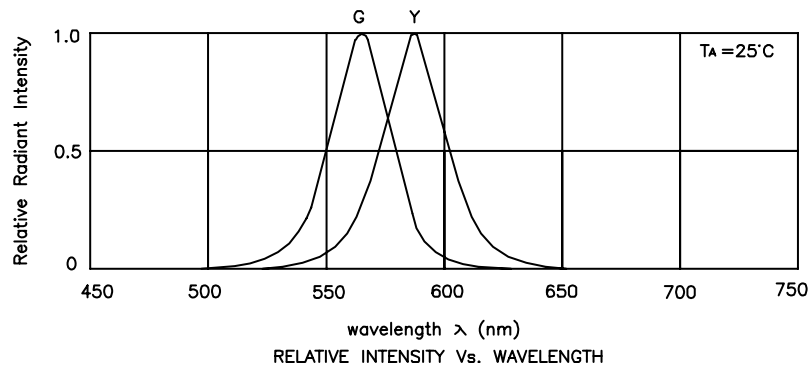
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

## Absolute Maximum Ratings at TA=25°C

| Parameter                       | Yellow              | Green | Units |
|---------------------------------|---------------------|-------|-------|
| Power dissipation               | 75                  | 62.5  | mW    |
| DC Forward Current              | 30                  | 25    | mA    |
| Peak Forward Current [1]        | 140                 | 140   | mA    |
| 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 |       |       |

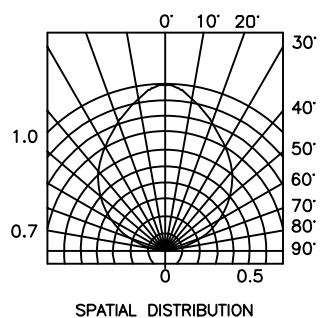
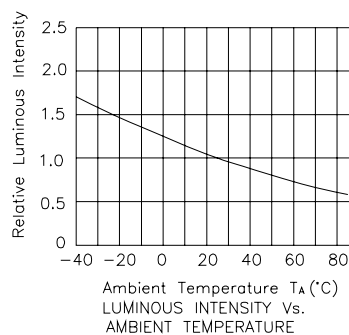
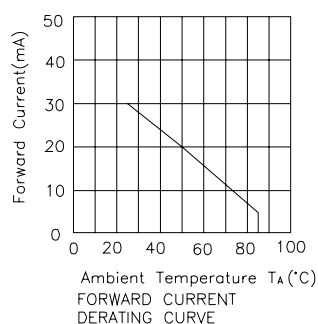
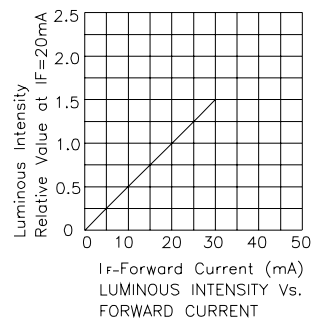
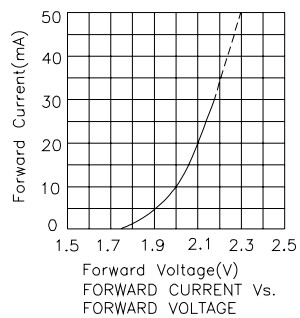
Notes:

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

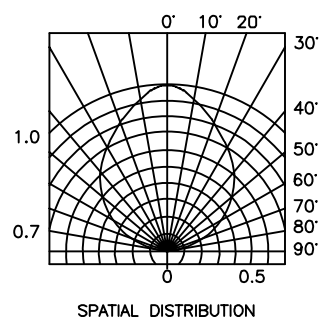
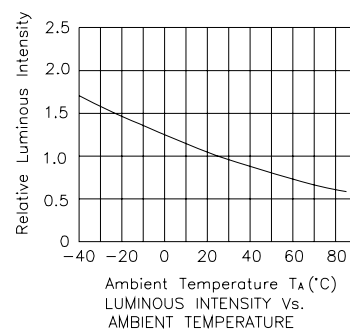
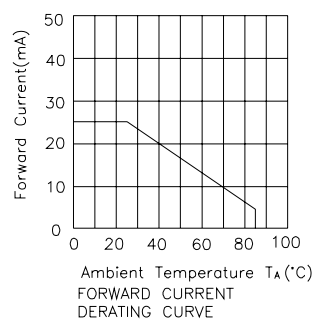
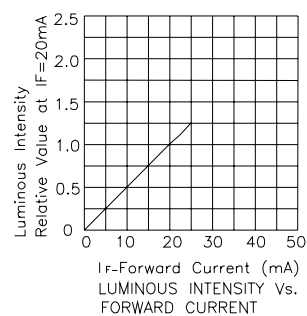
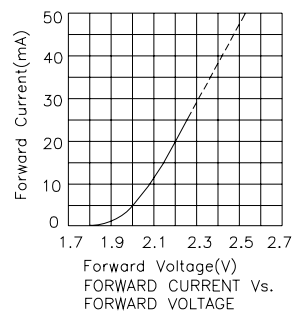


Yellow

WP937RS/YGW

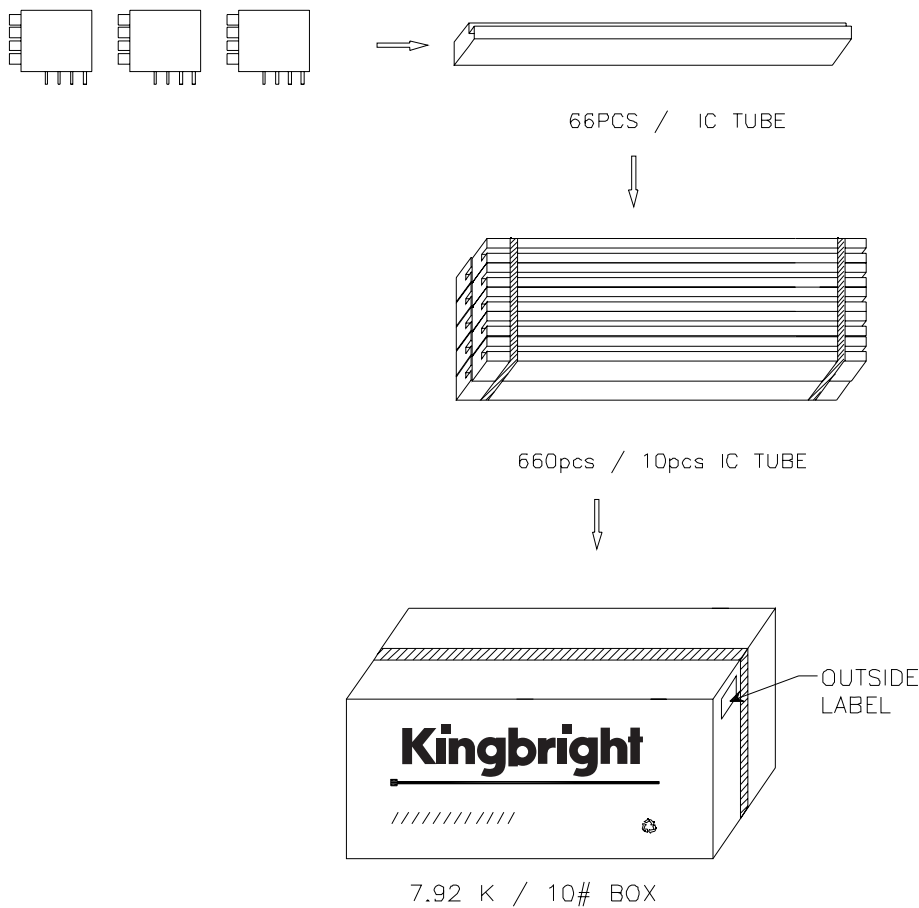


## Green



PACKING & LABEL SPECIFICATIONS

WP917CK/4YGWT



|                                                                                            |                            |
|--------------------------------------------------------------------------------------------|----------------------------|
| <b>Kingbright</b>                                                                          |                            |
| Q.C.                                                                                       | QC<br>XX XX XXXX<br>PASSED |
| TYPE NO : WP917CK/4XXX                                                                     |                            |
| QUANTITY : 660 pcs                                                                         |                            |
| S/N : XXX                                                                                  | CODE: XXXX                 |
| LOT NO  |                            |
| MADE IN CHINA                                                                              | RoHS Compliant             |