

Part Number: WP130WCP/2EYW

High Efficiency Red
Yellow

Features

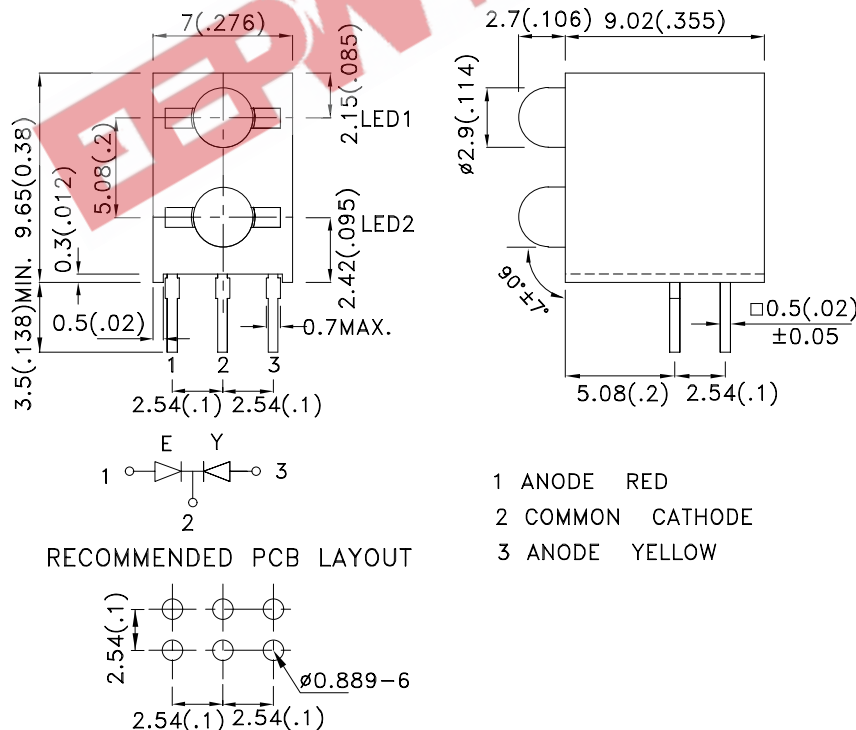
- BI-LEVEL RIGHT ANGLE HOUSING LED.
- PRE-TRIMMED LEADS FOR PC BOARD MOUNTING.
- I.C. COMPATIBLE.
- BLACK CASE ENHANCES CONTRAST RATIO.
- HIGH RELIABILITY.
- UL RATING: 94V-0.
- HOUSING MATERIAL: TYPE 66 NYLON.
- RoHS COMPLIANT.

Description

The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

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

Package Dimensions



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] @ 20mA | | Viewing Angle [1] |
|---------------|---------------------------------|----------------|------------------------|------|----------------------|
| | | | Min. | Typ. | 2θ1/2 |
| WP130WCP/2EYW | High Efficiency Red (GaAsP/GaP) | WHITE DIFFUSED | 7 | 30 | 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 |
|--------------------|--------------------------|-------------------------------|------------|------------|-------|---------------------------|
| λ _{peak} | Peak Wavelength | High Efficiency Red Yellow | 627 590 | | nm | I _F =20mA |
| λ _D [1] | Dominant Wavelength | High Efficiency Red Yellow | 625 588 | | nm | I _F =20mA |
| Δλ _{1/2} | Spectral Line Half-width | High Efficiency Red Yellow | 45 35 | | nm | I _F =20mA |
| C | Capacitance | High Efficiency Red Yellow | 15 20 | | pF | V _F =0V;f=1MHz |
| V _F [2] | Forward Voltage | High Efficiency Red Yellow | 2 2.1 | 2.5 2.5 | V | I _F =20mA |
| I _R | Reverse Current | High Efficiency Red Yellow | | 10 10 | uA | V _R = 5V |

Notes:

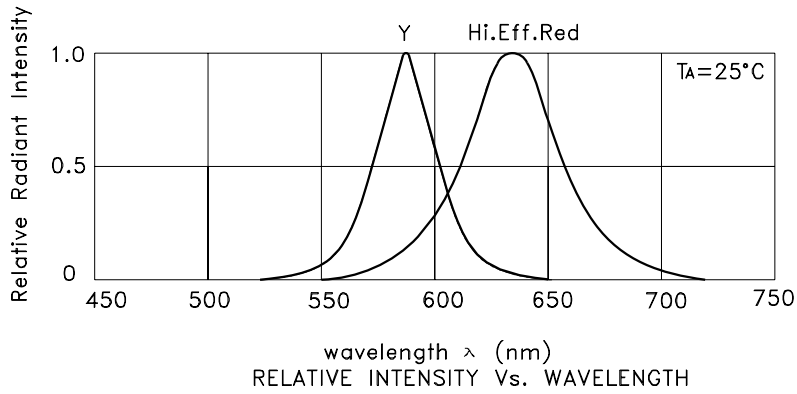
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

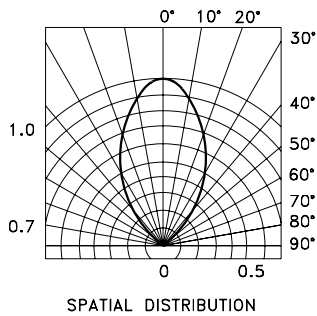
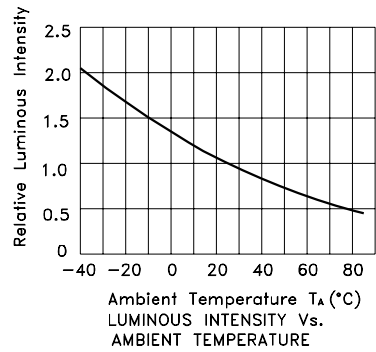
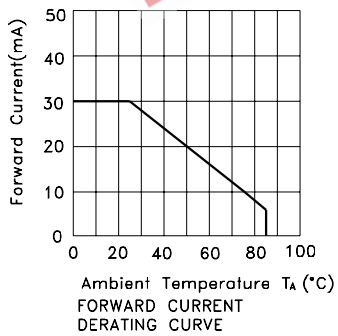
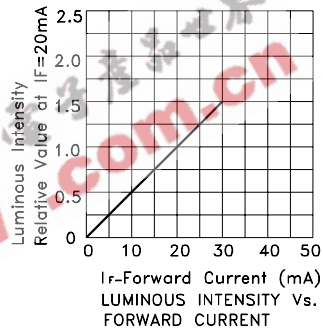
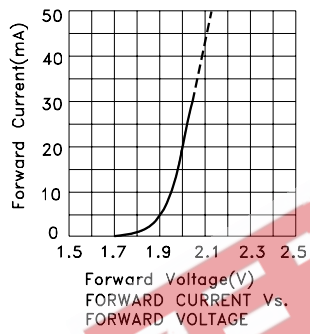
| Parameter | High Efficiency Red | Yellow | Units |
|---------------------------------|---------------------|--------|-------|
| Power dissipation | 75 | 75 | mW |
| DC Forward Current | 30 | 30 | mA |
| Peak Forward Current [1] | 160 | 140 | mA |
| Reverse Voltage | 5 | | V |
| Operating / Storage 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.

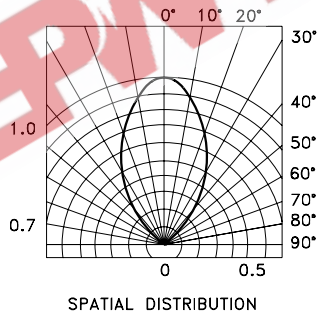
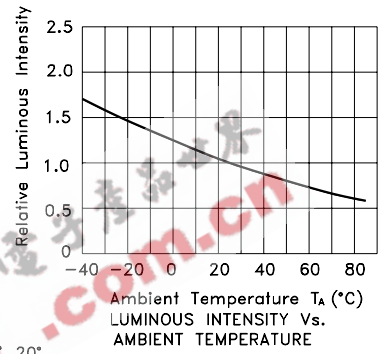
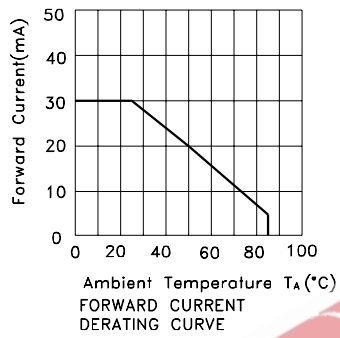
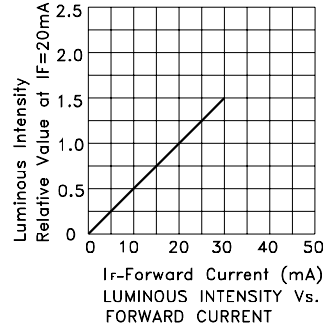
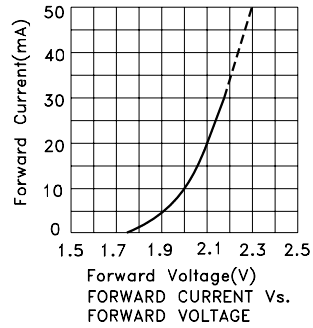


WP130WCP/2EYW High Efficiency Red



Kingbright

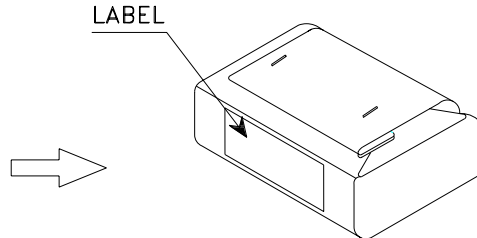
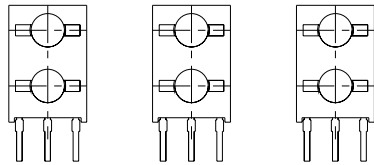
Yellow



Kingbright

PACKING & LABEL SPECIFICATIONS

WP130WCP/2EYW

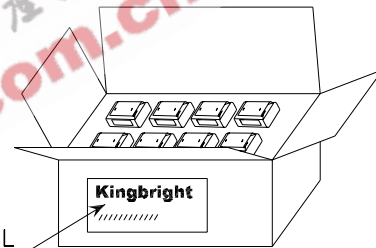


250PCS / BAG




16K / 9# BOX

OUTSIDE LABEL



OUTSIDE LABEL

8K / 5# BOX

| | | | | |
|--|--|----|----------|--------|
| <h1>Kingbright</h1> | | | | |
| Q.C. | <table border="1"> <tr> <td>QC</td> </tr> <tr> <td>XX XX XX</td> </tr> <tr> <td>PASSED</td> </tr> </table> | QC | XX XX XX | PASSED |
| QC | | | | |
| XX XX XX | | | | |
| PASSED | | | | |
| TYPE NO : WP130WCPxxx | | | | |
| QUANTITY : 250 pcs | | | | |
| S/N : XX | CODE: XX | | | |
| LOT NO :  | | | | |
| RoHS Compliant | | | | |