

# T-1 (3mm) BI-LEVEL LED INDICATOR

Part Number: WP130WCP/2EGW

High Efficiency Red

#### **Features**

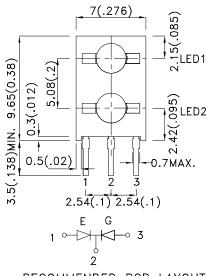
- BI-LEVEL RIGHT ANGLE HOUSING LED.
- PRE-TRIMMED LEADS FOR PC BOARD MOUNTING.
- I.C. COMPATIBLE.
- BLACK CASE ENHANCES CONTRAST RATIO.
- HIGH RELIABILITY.
- UL RATING: 94V-0.
- HOUSING MATERIAL: TYPE 66 NYLON.
- RoHS COMPLIANT.

### Description

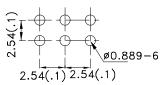
The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

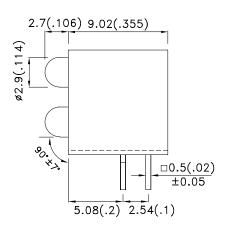
The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

# **Package Dimensions**



RECOMMENDED PCB LAYOUT





- 1 ANODE RED
- 2 COMMON CATHODE
- 3 ANODE GREEN

- 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.





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### **Selection Guide**

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		,,	Min.	Тур.	201/2
WP130WCP/2EGW	High Efficiency Red (GaAsP/GaP)	WHITE DIFFUSED	7	30	60°
	Green (GaP)	WHITE DIFFOSED	7	25	

- 1. 01/2 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	Тур.	Max.	Units	Test Conditions	
λpeak	Peak Wavelength	High Efficiency Red Green	627 565		nm IF=20mA		
λD [1]	Dominant Wavelength	High Efficiency Red Green	625 568		nm	IF=20mA	
Δλ1/2	Spectral Line Half-width	High Efficiency Red Green	45 30		nm	IF=20mA	
С	Capacitance	High Efficiency Red Green	15 15		pF	VF=0V;f=1MHz	
VF [2]	Forward Voltage	High Efficiency Red Green	2 2.2	2.5 2.5	V	V IF=20mA	
lR	Reverse Current	High Efficiency Red Green		10 10	uA	V <sub>R</sub> = 5V	

### Notes:

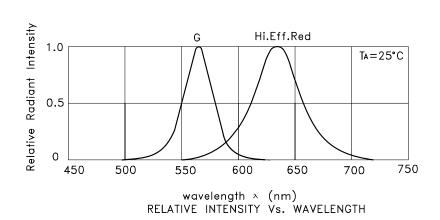
- 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

# Absolute Maximum Ratings at TA=25°C

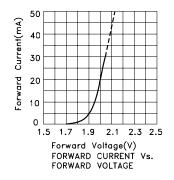
Parameter	High Efficiency Red	Green	Units		
Power dissipation	75	62.5	mW		
DC Forward Current	30	25	mA		
Peak Forward Current [1]	160	140	mA		
Reverse Voltage	ţ	V			
Operating / Storage Temperature	-40°C To +85°C				
Lead Solder Temperature [2]	260°C For 3 Seconds				
Lead Solder Temperature [3]	260°C For 5 Seconds				

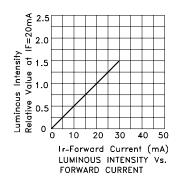
- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
  2. 2mm below package base.
  3. 5mm below package base.

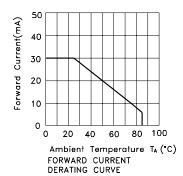
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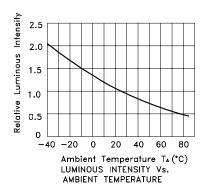


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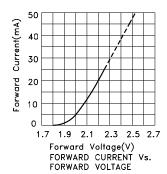


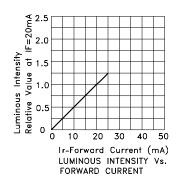
0° 10° 20°
30°
40°
50°
60°
70°
80°
90°
SPATIAL DISTRIBUTION

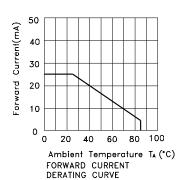
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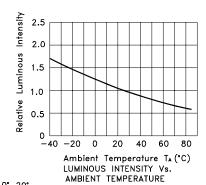
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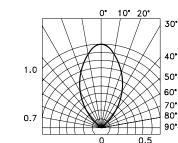
### Green







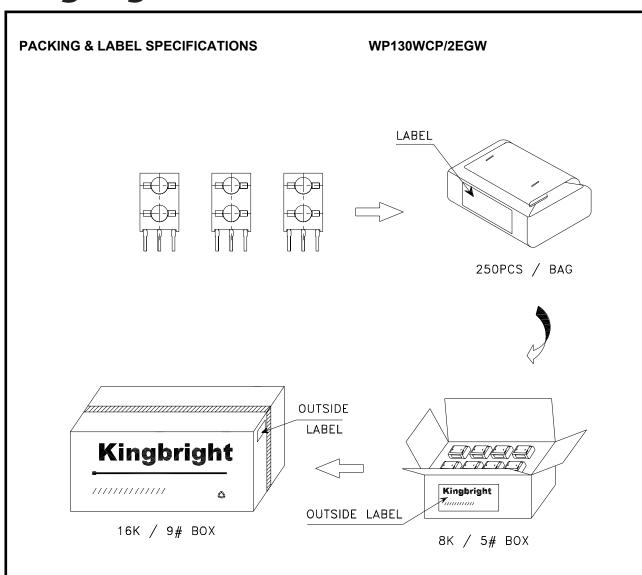


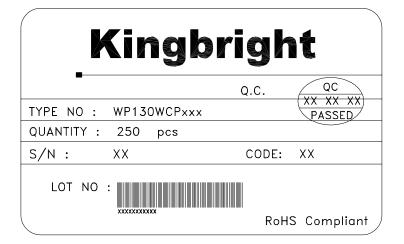


SPATIAL DISTRIBUTION

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