

3mm RIGHT ANGLE LED INDICATOR

Part Number: WP42WUM/EYW

High Efficiency Red

Yellow

Features

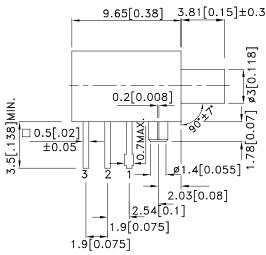
- PRE-TRIMMED LEADS FOR PC MOUNTING.
- I.C.COMPATIBLE.
- BLACK CASE ENHANCES CONTRAST RATIO.
- WIDE VIEWING ANGLE.
- HIGH RELIABILITY-LIFE MEASURED IN YEARS.
- UL RATING:94V-0.
- HOUSING MATERIAL: TYPE 66 NYLON.
- RoHS COMPLIANT.

Description

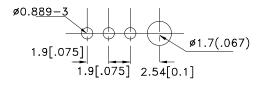
The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

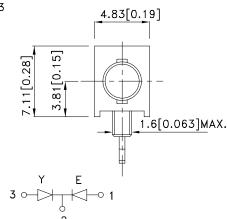
The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

Package Dimensions



RECOMMENDED PCB LAYOUT





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

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±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.





SPEC NO: DSAF1869 **REV NO: V.3** DATE: MAY/21/2007 PAGE: 1 OF 5 APPROVED: WYNEC CHECKED: Allen Liu DRAWN: Y.L.LI ERP: 1102005547

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		,	Min.	Тур.	201/2
WP42WUM/EYW	High Efficiency Red (GaAsP/GaP)	WHITE DIFFUSED	4	13	100°
	Yellow (GaAsP/GaP)	WHITE DIFFUSED	2.6	6	

- 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	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red Yellow	627 590		nm	IF=20mA
λD [1]	Dominant Wavelength	High Efficiency Red Yellow	625 588		nm	I=20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red Yellow	45 35		nm	I==20mA
С	Capacitance	High Efficiency Red Yellow	15 20		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	High Efficiency Red Yellow	2 2.1	2.5 2.5	V	I==20mA
lR	Reverse Current	High Efficiency Red Yellow		10 10	uA	V _R = 5V

Notes:

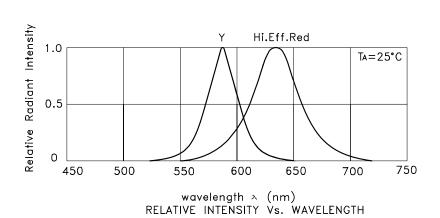
- 1.Wavelength: +/-1nm.
- 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

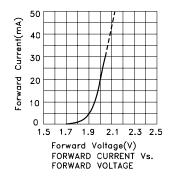
Parameter	High Efficiency Red	Yellow	Units		
Power dissipation	75	75	mW		
DC Forward Current	30	30	mA		
Peak Forward Current [1]	160	140	mA		
Reverse Voltage	ţ	V			
Operating / Storage Temperature	-40°C To +85°C				
Lead Solder Temperature [2]	260°C For 3 Seconds				
Lead Solder Temperature [3]	260°C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

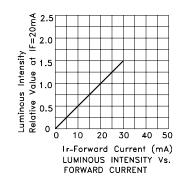
- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. 2mm below package base.
 3. 5mm below package base.

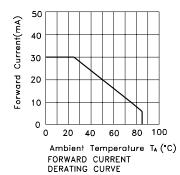
SPEC NO: DSAF1869 **REV NO: V.3** DATE: MAY/21/2007 PAGE: 2 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: Y.L.LI ERP: 1102005547

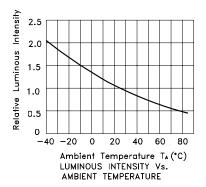


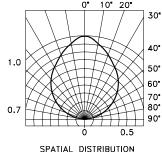
WP42WUM/EYW High Efficiency Red







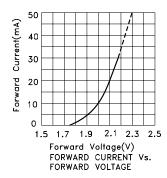


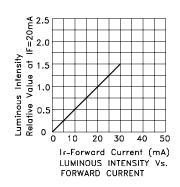


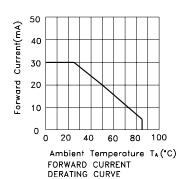
 SPEC NO: DSAF1869
 REV NO: V.3
 DATE: MAY/21/2007
 PAGE: 3 OF 5

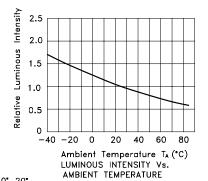
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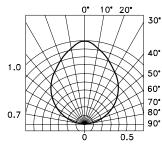
Yellow







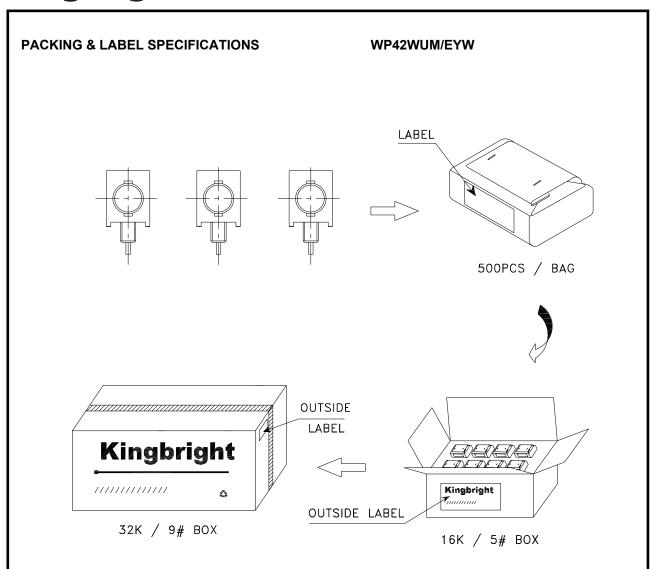




SPATIAL DISTRIBUTION

 SPEC NO: DSAF1869
 REV NO: V.3
 DATE: MAY/21/2007
 PAGE: 4 OF 5

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SPEC NO: DSAF1869 APPROVED: WYNEC REV NO: V.3 CHECKED: Allen Liu DATE: MAY/21/2007 DRAWN: Y.L.LI PAGE: 5 OF 5 ERP: 1102005547