### **3mm RIGHT ANGLE LED INDICATOR**

Part Number: WP42WUM/GYW

Green Yellow

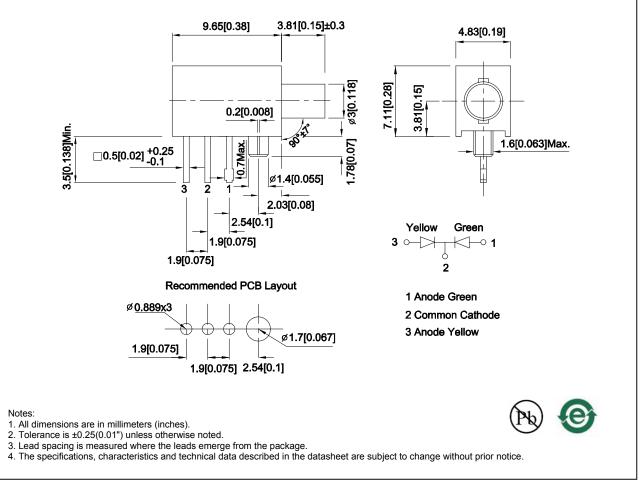
#### Features

- Pre-trimmed leads for pc mounting.
- Black case enhances contrast ratio.
- Wide viewing angle.
- High reliability-life measured in years.
- Housing UL rating:94V-0.
- Housing material: type 66 nylon.
- RoHS compliant.

#### **Descriptions**

- 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**



DATE: APR/20/2016 DRAWN: L.T.Zhang PAGE: 1 OF 6 ERP: 1102005029

Selection Guide         Part No.       Emitting Color (Material)         Lens Type       @ 20mA								
i un no.			Min.	Тур.	201/2			
WP42WUM/GYW	Green (GaP)	Milita Diffused	4	10	100°			
	Yellow (GaAsP/GaP)	White Diffused	2	6				

Notes:

1. 01 / 2 is the angle from optical centerline where the luminous intensity is 1 / 2 of the optical peak value.
 Luminous intensity / luminous Flux: + / -15%.

3. Luminous intensity value is traceable to CIE127-2007 standards.

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

Symbol	Parameter	Emitting Color	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green Yellow	565 590		nm	IF=20mA
λD [1]	Dominant Wavelength	Green Yellow	568 588		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Green Yellow	30 35		nm	IF=20mA
С	Capacitance	Green Yellow	15 20		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Green Yellow	2.2 2.1	2.5 2.5	V	IF=20mA
IR	Reverse Current	Green Yellow		10 10	uA	VR = 5V

Notes:

Wavelength: + / -1nm.
 Forward Voltage: + / -0.1V.
 Wavelength value is traceable to CIE127-2007 standards.

4. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

### 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	Į	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				

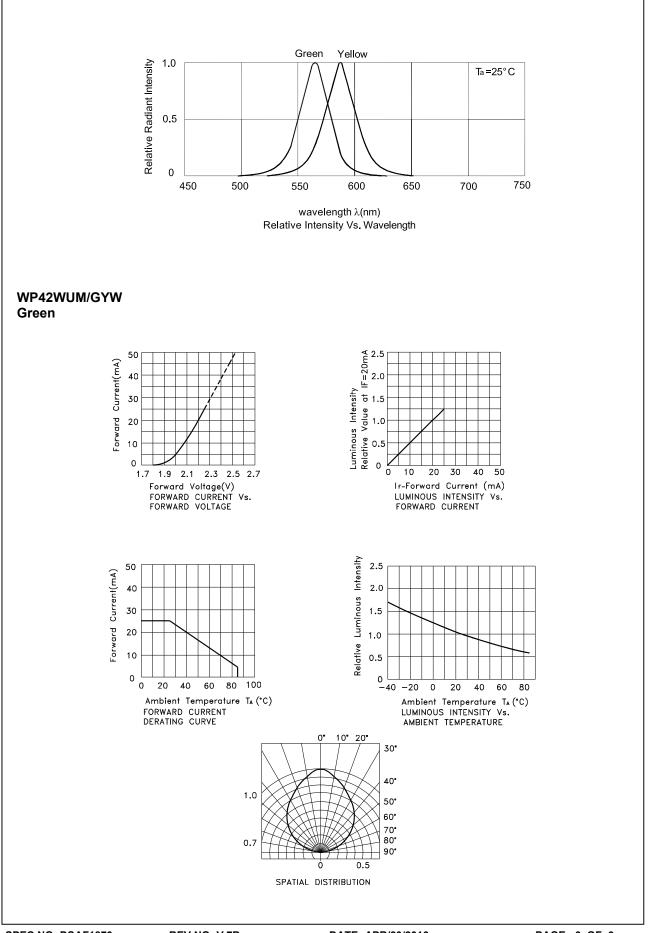
Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.

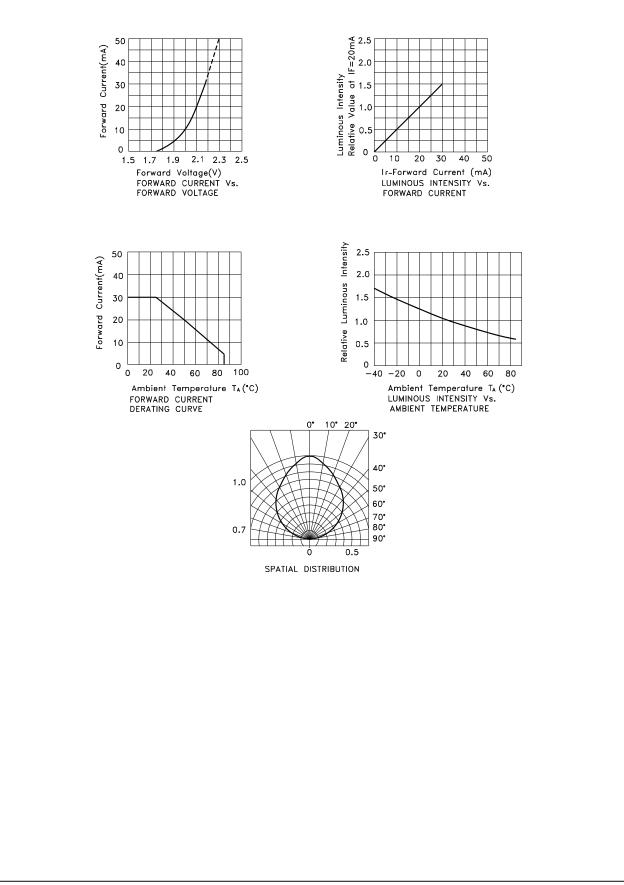
2. 2mm below package base.

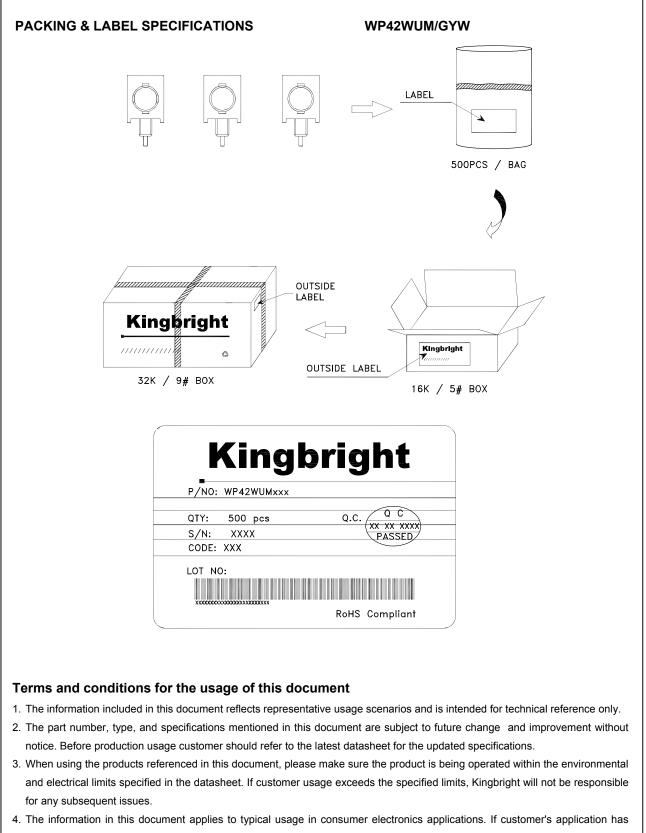
 Smm below package base.
 Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity - Ref JEDEC/JESD625-A and JEDEC/J-STD-033.

DATE: APR/20/2016 DRAWN: L.T.Zhang



Yellow



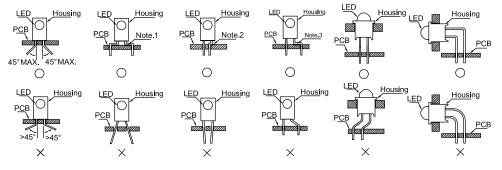


- special reliability requirements or have life-threatening liabilities, such as automotive or medical usage, please consult with Kingbright representative for further assistance.
- 5. The contents and information of this document may not be reproduced or re-transmitted without permission by Kingbright.
- 6. All design applications should refer to Kingbright application notes available at http://www.KingbrightUSA.com/ApplicationNotes

DATE: APR/20/2016 DRAWN: L.T.Zhang

### PRECAUTIONS

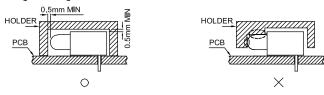
- 1. Storage conditions:
  - a.Avoid continued exposure to the condensing moisture environment and keep the product away from rapid transitions in ambient temperature.
  - b.LEDs should be stored with temperature  $\leq 30^{\circ}$  C and relative humidity < 60%.
  - c.Product in the original sealed package is recommended to be assembled within 72 hours of opening. Product in opened package for more than a week should be baked for 30 (+10/-0) hours at 85 ~ 100°C.
- The lead pitch of the LED must match the pitch of the mounting holes on the PCB during component placement. Lead-forming may be required to insure the lead pitch matches the hole pitch. Refer to the figure below for proper lead forming procedures.



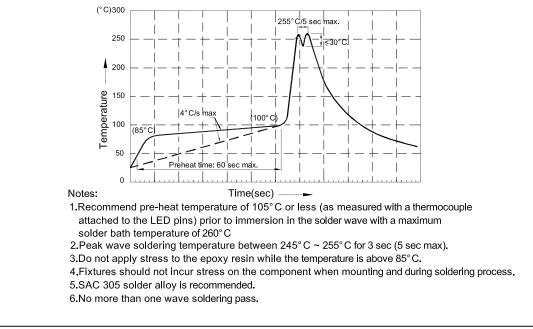
" ( ) " Correct mounting method " imes " Incorrect mounting method

Note 1-3: Do not route PCB trace in the contact area between the leadframe and the PCB to prevent short-circuits.

During soldering, component covers and holders should leave clearance to avoid placing damaging stress on the LED during soldering.



- 4. The tip of the soldering iron should never touch the lens epoxy.
- 5. Through-hole LEDs are incompatible with reflow soldering.
- 6. If the LED will undergo multiple soldering passes or face other processes where the part may be subjected to intense heat, please check with Kingbright for compatibility.
- 7. Recommended Wave Soldering Profiles:



DATE: APR/20/2016 DRAWN: L.T.Zhang

### **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for LED Circuit Board Indicators category:

Click to view products by Kingbright manufacturer:

Other Similar products are found below :

 568-0701-841F
 LTL-4221NH129
 LTL-42DGNMHDP1
 HLMP1521101
 HLMP1523802F
 HLMP1700101F
 HLMP1700104F
 BHA-1564-G

 SMF-HM1530YD-305
 SSF-LXH409SYSUGW
 AM2520EHSGD
 HLMP1301104F
 HLMP1385101F
 HLMP1421101
 HLMP1503103F

 HLMP1503104F
 HLMP1700102F
 HLMP1700106F
 HLMP1700107F
 HLMP1790101F
 HLMP1790103F
 LTL-4211NHBP
 5390H3
 5390H5

 551-2802F
 552-0794-810F
 553-0222-812F
 HT3-BC-T
 564-0700-831F
 WP59BLGEW
 103-3101-1231-403
 5502407811F
 550-3007-810F

 551-3307MF
 552080-1
 573-2399-100F
 592-2020-302F
 5932-927-2701-3F
 SMF-HM1530SRD-509
 SSF-LXH100MID
 SSF 

 LXH2103SRSRDRP
 SSF-LXH555USBW
 WP937SB/4YGW
 WP937EB2EGW
 HT3-BLU-T
 551-0312-802F
 553-0110-802F
 6202T3-5VLC

 LTL-307G08A-D
 CMD57164
 CMD57164
 CMD57164
 CMD57164
 CMD57164
 CMD57164