

3.4mm RIGHT ANGLE LED INDICATOR

Part Number: WP138A8QMP/YD/TG Yellow

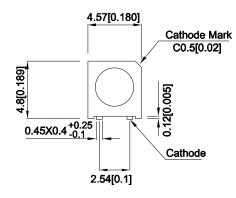
Features

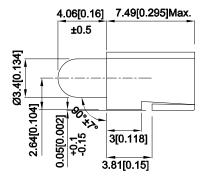
- Surface mount type.
- Black case enhances contrast ratio.
- Wide viewing angle.
- High reliability life measured in years.
- Package:1000pcs / reel.
- Moisture sensitivity level : level 3.
- Housing UL rating:94V-0.
- Housing material: PPA.
- · High temperature resistant housing.
- High glass transition temperature epoxy.
- RoHS compliant.

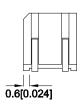
Description

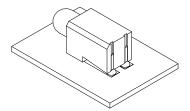
The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

Package Dimensions









Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
- 3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

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 CHECKED: Allen Liu
 DRAWN: L.T.Zhang
 ERP: 1102000504



Selection Guide

Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 10mA		Viewing Angle [1]
			Min.	Тур.	201/2
WP138A8QMP/YD/TG	Yellow (GaAsP/GaP)	Yellow Diffused	4	8	40°

- 1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
 2. 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	Yellow	590		nm	IF=10mA
λD [1]	Dominant Wavelength	Yellow	588		nm	IF=10mA
Δλ1/2	Spectral Line Half-width	Yellow	35		nm	IF=10mA
С	Capacitance	Yellow	20		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Yellow	1.95	2.5	V	IF=10mA
lr	Reverse Current	Yellow		10	uA	VR = 5V

Notes:

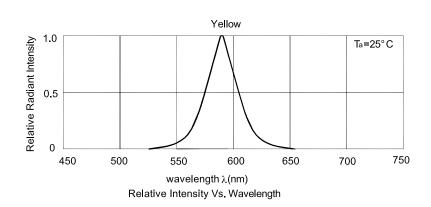
- Wavelength: +/-1nm.
 Forward Voltage: +/-0.1V.
- 3. Wavelength value is traceable to CIE127-2007 standards.
- 4. Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

Units		
mW		
mA		
mA		
V		
-40°C To +85°C		
-40°C To +85°C		

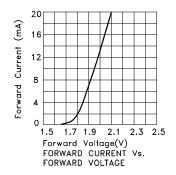
- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity Ref JEDEC/JESD625-A and JEDEC/J-STD-033.

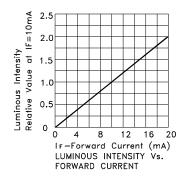
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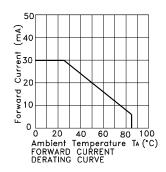


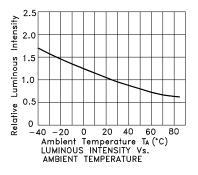
Yellow

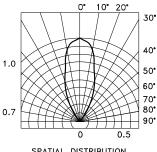
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SPATIAL DISTRIBUTION

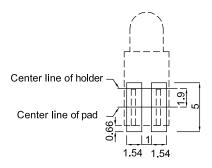
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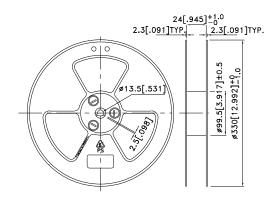
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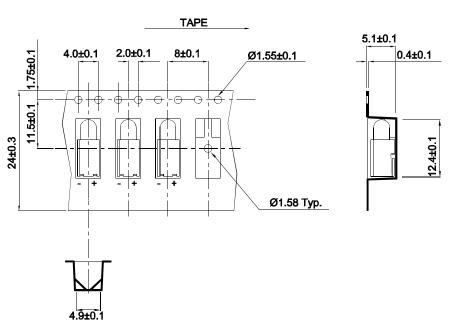
Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)



Reel Dimension



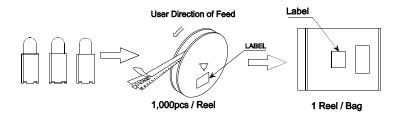
Tape Dimensions (Units : mm)

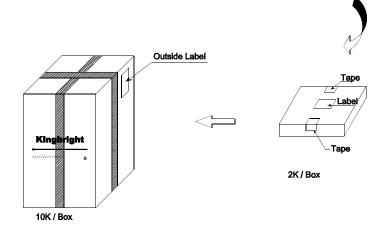


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PACKING & LABEL SPECIFICATIONS

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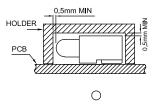
Terms and conditions for the usage of this document

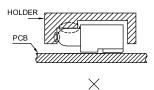
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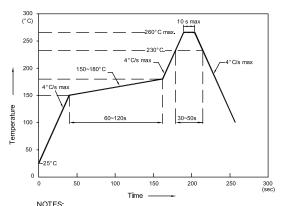
PRECAUTIONS

- 1.A moisture barrier bag (MBB) containing LEDs shall be kept in an environment with temperature below 40°C and humidity below 90% RH.
- A MBB shall be kept sealed until the LEDs contained in that bag are to be used immediately. Storge in an environment with temperature 5~30°C and humidity below 60% RH.
- 2.After a MBB has been opened, all LEDs contained in that bag shall complete soldering process within according to the conditions listed on the Kingbright MBB.
- 3.If the 10% spot of a humidity indicator card (HIC) indicates wet, LEDs shall be baked according to the conditions listed on the Kingbright MBB.
- 4.During soldering, component covers and holders should leave clearance to avoid placing damaging stress on the LED during soldering.





- 5. The tip of the soldering iron should never touch the lens epoxy.
- 6.After soldering, allow at least three minutes for the component to cool down to room temperature before further operations.
- 7.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.
- 8. Recommended Reflow Soldering Profiles For SMD Housing LEDs



- 1.We recommend the reflow temperature 245° C(±5° C).The maximum soldering temperature should be limited to 260 $^{\circ}$ C.
- 2.Don't cause stress to the epoxy resin while it is exposed
- to high temperature.

 3.Recommended Solder: Sn/Cu/Ag.
- 4.No more than once.

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