### 3.4mm RIGHT ANGLE LED INDICATOR

Part Number: L-1387QMP/1GYW

Green 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.

#### 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



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Selection Guide								
Part No.	Emitting Color (Material)	Lens Type	@ 20mA		Angle [1]			
			Min.	Тур.	201/2			
L-1387QMP/1GYW	Green (GaP)	White Diffused	10	20	70°			
	Yellow (GaAsP/GaP)	white Dinused	5	10				

Notes:

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%.
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

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.

Parameter	Green	Yellow	Units				
Power dissipation	62.5	75	mW				
DC Forward Current	25	30	mA				
Peak Forward Current [1]	140	140	mA				
Operating / Storage Temperature	-40°C To +85°C						

### Absolute Maximum Ratings at TA=25°C

Notes:

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.



Yellow







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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



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