

3.0mmx1.0 mm RIGHT ANGLE SMD **CHIP LED LAMP**

Part Number: APA3010QWF/D-GX White



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING **ELECTROSTATIC** DISCHARGE SENSITIVE **DEVICES**

Features

- 3.0mmx1.0mm right angle SMT LED, 2.0mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for back light and indicator.
- Various colors and lens types available.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- Tinned pads for improved solderability.
- RoHS compliant.

Description

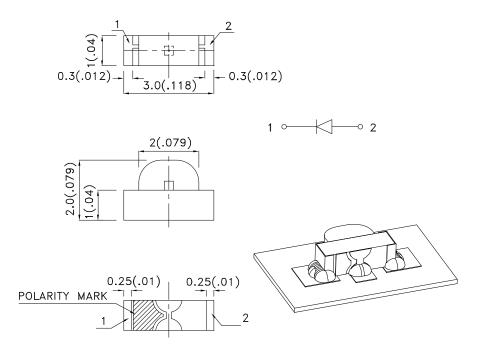
The source color devices are made with InGaN Light Emitting Diode.

Static electricity and surge damage the LEDS.

It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

Package Dimensions



- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.15(0.006") unless otherwise noted.
- 3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice. 4.The device has a single mounting surface. The device must be mounted according to the specifications.

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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		2.	Min.	Тур.	201/2
APA3010QWF/D-GX	White (InGaN)	Yellow Fluorescent	110	180	120°

- 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%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions	
VF [1]	Forward Voltage	White	3.3	4.0	V	I==20mA	
lR	Reverse Current	White		50	uA	V _R = 5V	
x [2]	Characterists Consuling to	White	0.31				
y [2]	Chromaticity Coordinates		0.31				
С	Capacitance	White	100		pF	VF=0V;f=1MHz	

- 1. Forward Voltage: +/-0.1V.
- 2: Measurement Tolerance Of The Chromaticity Coordinates Is ±0.01.

Absolute Maximum Ratings at TA=25°C

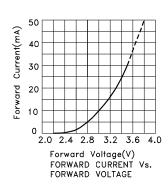
Abbolato maximam ratingo at 177 20 0					
Parameter	White				
Power dissipation	120	mW			
DC Forward Current	30	mA			
Peak Forward Current [1]	150	mA			
Reverse Voltage	5	V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

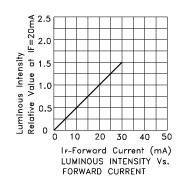
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

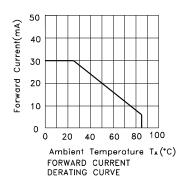
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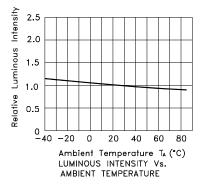
White

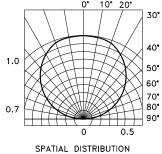
APA3010QWF/D-GX







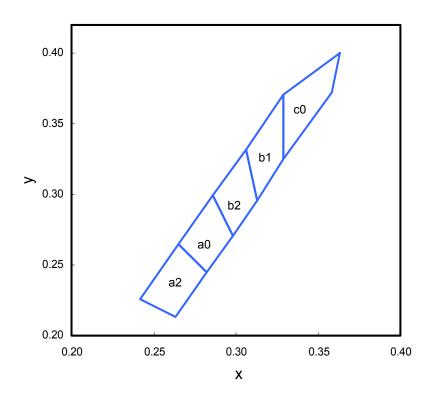




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APA3010QWF/D-GX

White CIE



	х	У		х	у		х	у
	0.263	0.213	a0	0.282	0.245		0.298	0.271
a2	0.282	0.245		0.298	0.271	b2	0.313	0.296
u_	0.265	0.265		0.286	0.299	UZ	0.306	0.332
	0.242	0.226		0.265	0.265		0.286	0.299
	0.313	0.296	c0	0.329	0.325			
b1	0.329	0.325		0.358	0.372			
	0.329	0.371		0.363	0.400			
	0.306	0.332		0.329	0.371			

Shipment may contain more than one chromaticity regions. Orders for single chromaticity region are generally not accepted. Measurement tolerance of the chromaticity coordinates is ± 0.01 .

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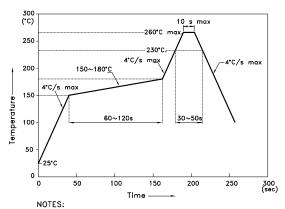
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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



- NOTES:

 1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.

 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

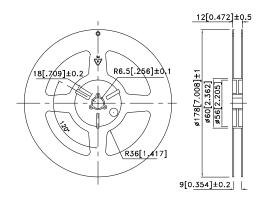
 3.Number of reflow process shall be 2 times or less.

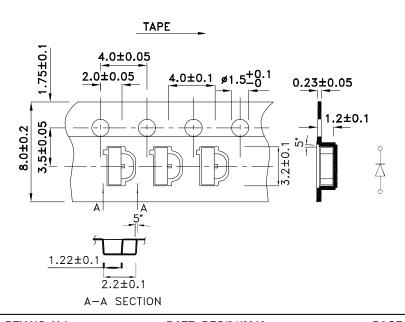
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

1.5 1.5 5.0

Tape Dimensions (Units : mm)

Reel Dimension

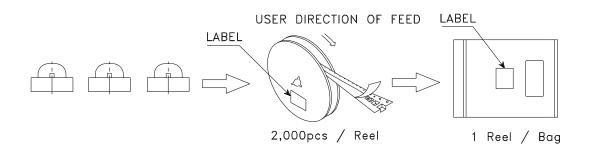


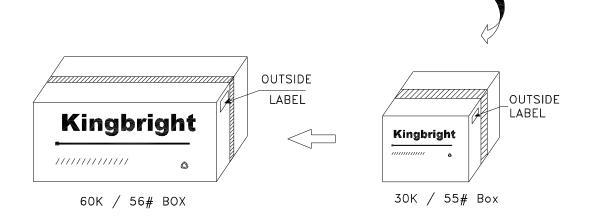


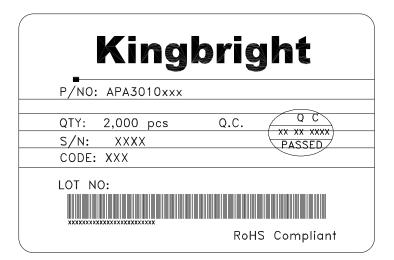
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PACKING & LABEL SPECIFICATIONS

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