

Part Number: APT3216QWF/G White



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

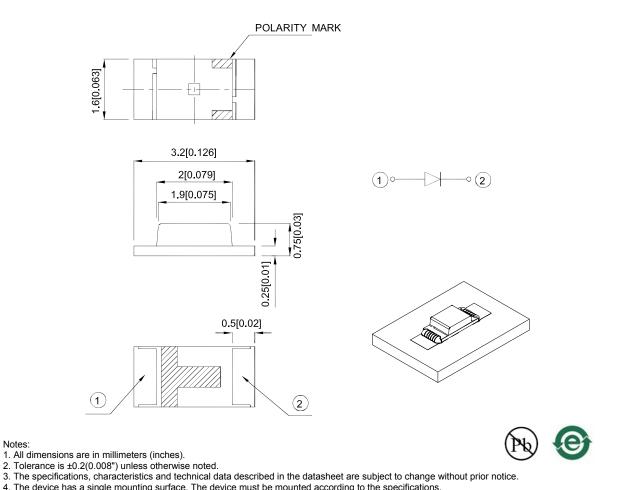
Features

- 3.2mmx1.6mm SMT LED, 0.75mm thickness.
- Low power consumption.
- · Wide viewing angle.
- Ideal for backlight and indicator.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- · RoHS compliant.

Descriptions

- The source color devices are made with InGaN Light Emitting Diode.
- Electrostatic discharge and power surge could damage the LEDs.
- It is recommended to use a wrist band or antielectrostatic glove when handling the LEDs.
- All devices, equipments and machineries must be electrically grounded.

Package Dimensions



4. The device has a single mounting surface. The device must be mounted according to the specifications.

SPEC NO: DSAJ9204 **APPROVED: WYNEC** **REV NO: V.4B CHECKED: Allen Liu** DATE: APR/08/2015 DRAWN: Q.M.Chen

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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
APT3216QWF/G	White (InGaN)	Yellow Fluorescent	400	550	120°

Notes:

1. θ1/2 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 the CIE127-2007 compliant national standards.

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	IF=20mA
lr	Reverse Current	White		50	uA	VR = 5V
x [2]	Chromaticity Coordinates	White	0.31			
y [2]	Chromaticity Coordinates	Winte	0.31			
С	Capacitance	White	100		pF	VF=0V;f=1MHz

Notes:

1. Forward Voltage: + / -0.1V.

2. Measurement tolerance of the chromaticity coordinates is ± 0.01 .

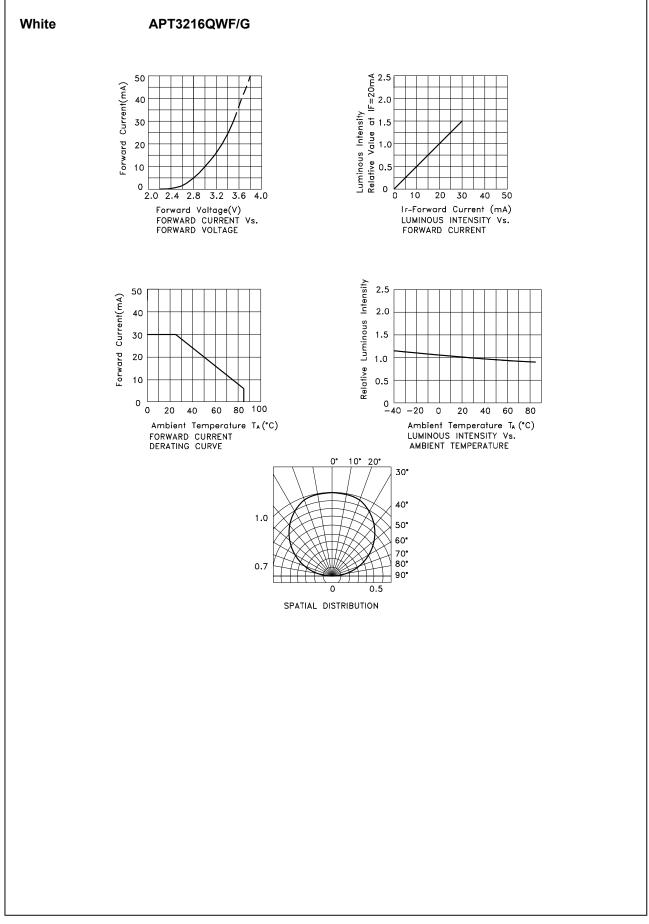
3. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

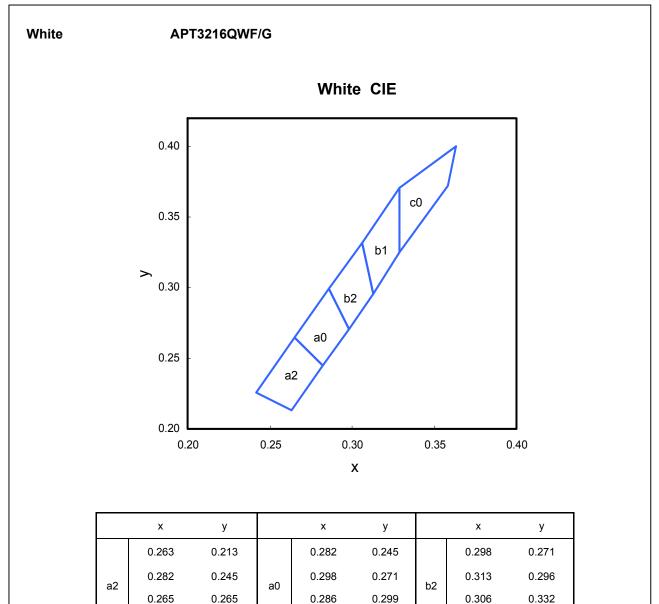
Absolute Maximum Ratings at TA=25°C

Parameter	White	Units		
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			

Note:

1.1 / 10 Duty Cycle, 0.1ms Pulse Width.





0.265

0.329

0.358

0.363

0.329

c0

0.265

0.325

0.372

0.400

0.371

0.286

0.299

Notes:

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 .

0.242

0.313

0.329

0.329

0.306

b1

0.226

0.296

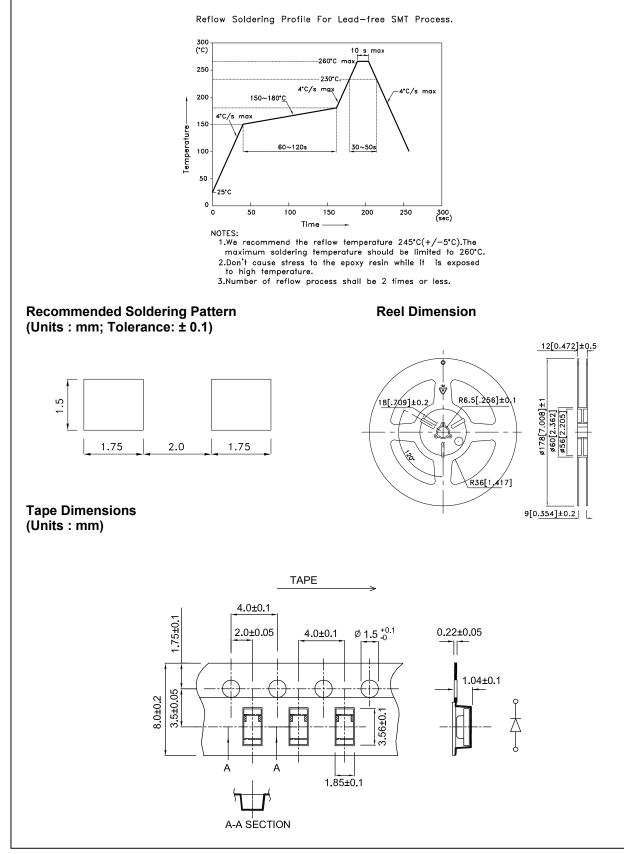
0.325

0.371

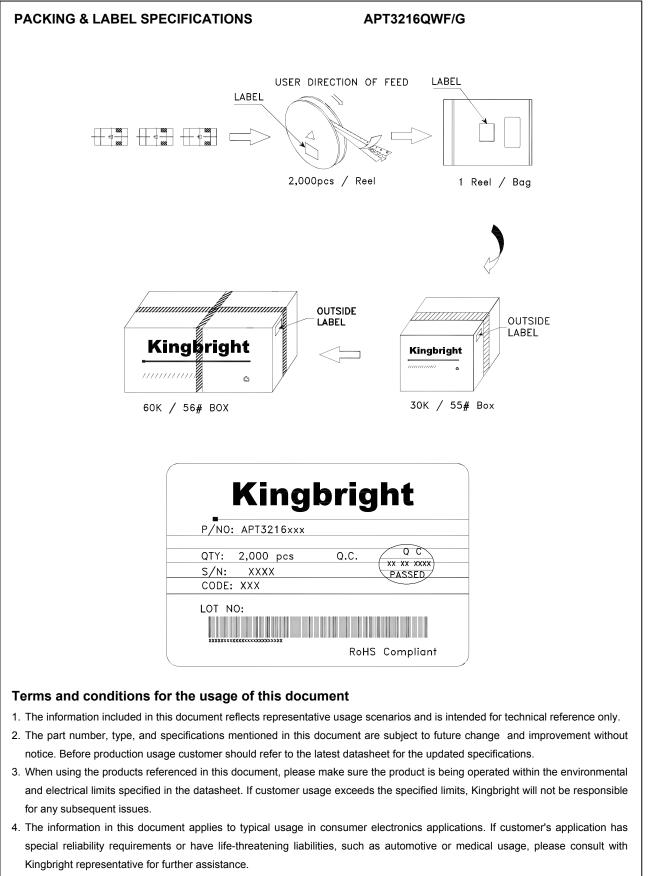
0.332

APT3216QWF/G

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.



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- 6. All design applications should refer to Kingbright application notes available at http://www.KingbrightUSA.com/ApplicationNotes

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