

1.0X0.5mm SMD CHIP LED LAMP

Part Number: APHHS1005QWF/D

White



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

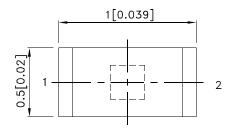
Features

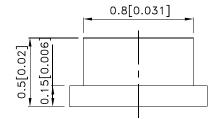
- 1.0mmX0.5mm SMT LED, 0.5mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package: 2000pcs / reel .
- Moisture sensitivity level : level 3.
- RoHS compliant.

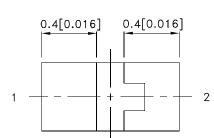
Descriptions

- 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.

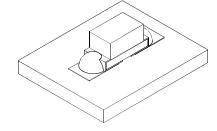
Package Dimensions











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- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.1 (0.004")$ 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
APHHS1005QWF/D	White (InGaN)	Yellow Fluorescent	120	200	120°

Notes:

- 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 the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур. Мах.		Units	Test Conditions
VF [1]	Forward Voltage	White	3.3	4.0	V	I==20mA
IR	Reverse Current	White		50	uA	V _R = 5V
x [2]	Chus maticity Canadia to	White	0.31			
y [2]	Chromaticity Coordinates		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

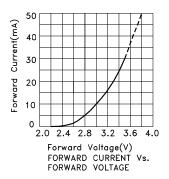
Absolute Maximum Ratings at TA=25°C

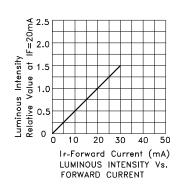
Parameter	White	Units		
Power dissipation	120	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	150	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

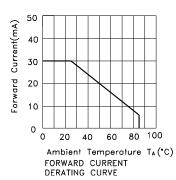
Note: 1.1/10 Duty Cycle, 0.1ms Pulse Width.

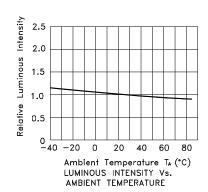
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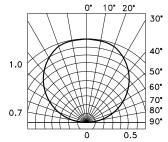
White APHHS1005QWF/D









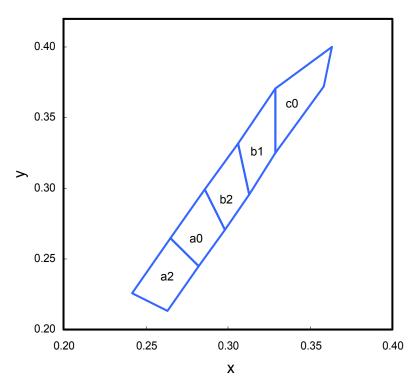


SPATIAL DISTRIBUTION

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	х	У		х	у		х	у
	0.263	0.213	а0	0.282	0.245		0.298	0.271
a2	0.282	0.245		0.298	0.271	b2	0.313	0.296
az	0.265	0.265		0.286	0.299	IJŹ	0.306	0.332
	0.242	0.226		0.265	0.265		0.286	0.299
b1	0.313	0.296	c0	0.329	0.325			
	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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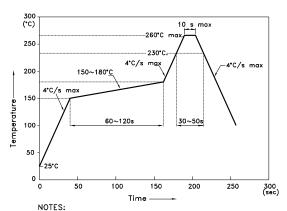
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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



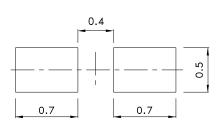
- NOTES:

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

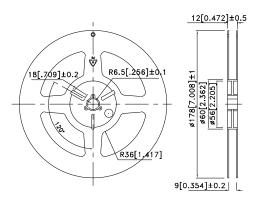
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

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

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



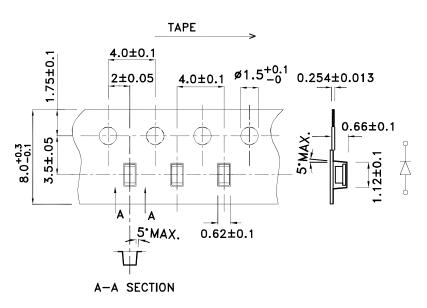
Reel Dimension



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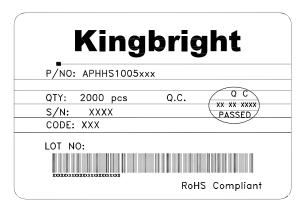
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Tape Dimensions (Units: mm)



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PACKING & LABEL SPECIFICATIONS APHHS1005QWF/D USER DIRECTION OF FEED LABEL LABEL 2,000pcs / Reel 1 Reel / Bag OUTSIDE LABEL Kingbright Kingbright



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