1.6X0.8mm SMD CHIP LED LAMP

Part Number: APT1608LQWF/D White



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Features

- 1.6mmX0.8mm SMT LED, 0.75mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package: 2000pcs / reel .
- Moisture sensitivity level : level 3.
- Low current IF=2mA operating.
- 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



SPEC NO: DSAI3975 APPROVED: WYNEC REV NO: V.4B CHECKED: Allen Liu DATE: AUG/27/2014 DRAWN: L.Q.Xie

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Selection Guide

Part No.	rt No. Dice		lv (mcd) [2] @ 2mA		Viewing Angle [1]			
			Min.	Тур.	201/2			
APT1608LQWF/D	White (InGaN)	Yellow Fluorescent	20	35	120°			

Notes:

1. θ 1/2 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 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	2.65	4.0	V	I⊧=2mA
IR	Reverse Current	White		50	uA	Vr = 5V
X [2]	Chromoticity Coordinates		0.31			
Y [2]	Chromaticity Coordinates	White	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.



APT1608LQWF/D



	х	у		х	у		х	У
	0.263	0.213	a0	0.282	0.245	b2	0.298	0.271
a2	0.282	0.245		0.298	0.271		0.313	0.296
az	0.265	0.265		0.286	0.299		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	00	0.363	0.400			
	0.306	0.332		0.329	0.371			

Notes:

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.

APT1608LQWF/D

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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