

1.6X0.8mm SMD CHIP LED LAMP (0.2mm Height)

Part Number: KPG1-1608CGC-TT Green

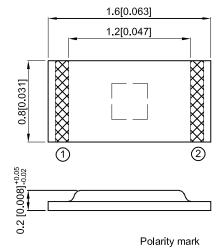
Features

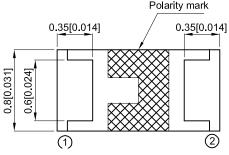
- 1.6mmX0.8mm SMD LED, 0.2mm thickness.
- Low power consumption.
- Wide viewing angle.
- Compatible with automatic placement equipment.
- Ideal for backlight and indicator.
- Package: 4000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

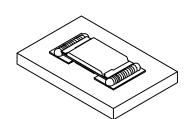
Description

The Green source color devices are made with AlGalnP on GaAs substrate Light Emitting Diode.

Package Dimensions







- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.1(0.004")$ unless otherwise noted.
- The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
 The device has a single mounting surface. The device must be mounted according to the specifications.

DATE: OCT/14/2015 SPEC NO: DSAO4097 **REV NO: V.1B** PAGE: 1 OF 5 **APPROVED: Wynec CHECKED: Allen Liu** DRAWN: L.Q.Xie ERP: 1203015083



Selection Guide

Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		2.	Min.	Тур.	201/2
KPG1-1608CGC-TT	Green (AlGaInP)	Water Clear	12	35	130°

Notes:

- 1. θ 1/2 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	Emitting Color	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green	572		nm	IF=20mA
λD [1]	Dominant Wavelength	Green	571		nm	I==20mA
Δλ1/2	Spectral Line Half-width	Green	20		nm	IF=20mA
С	Capacitance	Green	15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Green	2	2.4	V	IF=20mA
lr	Reverse Current	Green		10	uA	VR=5V

Notes

- 1. Wavelength: +/-1nm.
- 2. Forward Voltage: +/-0.1V.
- 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.
- 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	Values		
Power dissipation	60	mW	
DC Forward Current	25	mA	
Peak Forward Current [1]	120	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

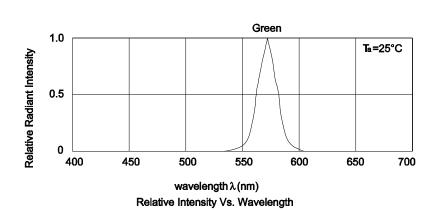
Note:

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

 SPEC NO: DSAO4097
 REV NO: V.1B
 DATE: OCT/14/2015
 PAGE: 2 OF 5

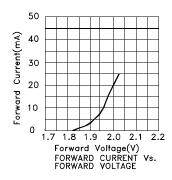
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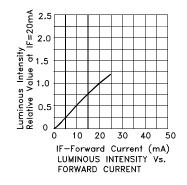
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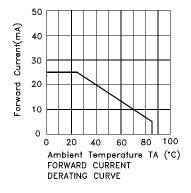


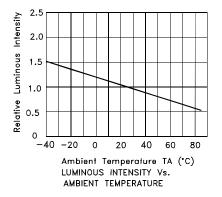
Green

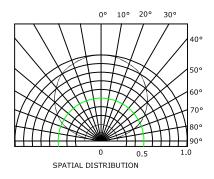
KPG1-1608CGC-TT











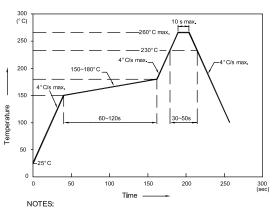
SPEC NO: DSAO4097 APPROVED: Wynec REV NO: V.1B CHECKED: Allen Liu DATE: OCT/14/2015 DRAWN: L.Q.Xie PAGE: 3 OF 5 ERP: 1203015083

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KPG1-1608CGC-TT

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.

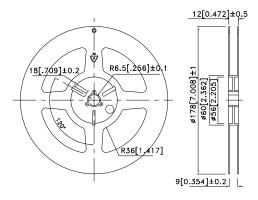


- 1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.
- 2 Don't cause stress to the epoxy resin while it is exposed
- to high temperature.
 3.Number of reflow process shall be 2 times or less.

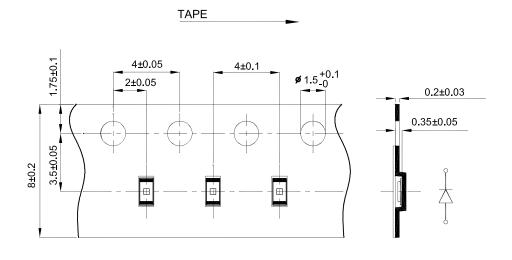
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

Mask open area ratio:80%; Mask thickness:80~100um;

Reel Dimension



Tape Dimensions (Units : mm)



 SPEC NO: DSAO4097
 REV NO: V.1B
 DATE: OCT/14/2015
 PAGE: 4 OF 5

 APPROVED: Wynec
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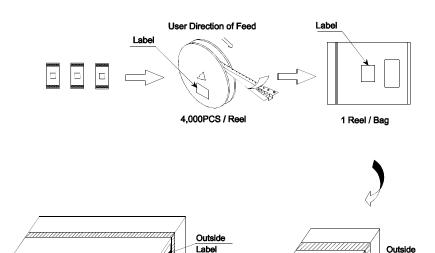
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PACKING & LABEL SPECIFICATIONS

KPG1-1608CGC-TT

Label

60K / 55# Box





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 SPEC NO: DSAO4097
 REV NO: V.1B
 DATE: OCT/14/2015
 PAGE: 5 OF 5

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