

1.6x0.8x0.25mm (0603) SMD CHIP LED LAMP

Part Number: KPG-1608CGKC-T Green

Features

- 1.6mmX0.8mm SMD LED, 0.25mm thickness.
- Low power consumption.
- Wide viewing angle.
- Compatible with automatic placement equipment.
- Ideal for backlight and indicator.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

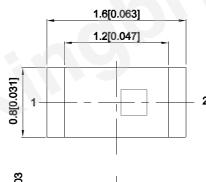
Description

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

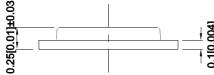
Applications

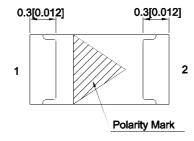
- 1. Mobile phone Keypad indicator and backlight.
- 2.Flat backlight for LCD, switch and symbol.
- 3.Toys.

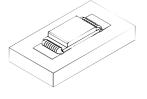
Package Dimensions











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- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±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.

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Selection Guide

Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		-	Min.	Тур.	201/2
KPG-1608CGKC-T	Green (AlGaInP)	Water Clear	20	50	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 CIE127-2007 standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Emitting Color	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green	574	10	nm	IF=20mA
λD [1]	Dominant Wavelength	Green	570		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Green	15		nm	IF=20mA
С	Capacitance	Green	15		pF	V _F =0V;f=1MHz
VF [2]	Forward Voltage	Green	2.1	2.6	V	IF=20mA
lr	Reverse Current	Green		10	uA	V _R =5V

- Notes:
 1. Wavelength: +/-1nm.
 2. Forward Voltage: +/-0.1V.
 3. Wavelength value is traceable to CIE127-2007 standards.
- Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

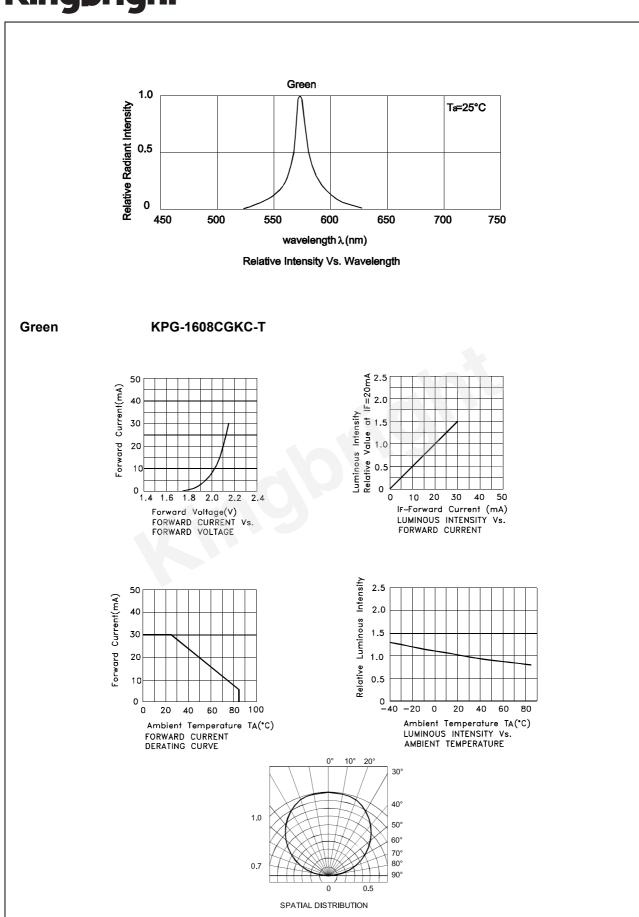
Absolute Maximum Ratings at TA=25°C

Parameter	Values	Units	
Power dissipation	78	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		

- 1.110 Duty Cycle, 0.1ms Pulse Width.
 Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity Ref JEDEC/JESD625-A and JEDEC/J-STD-033.

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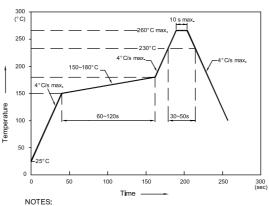
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KPG-1608CGKC-T

Reflow soldering is recommended and the soldering profile is shown below.

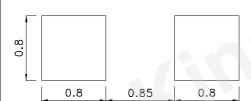
Other soldering methods are not recommended as they might cause damage to the product.

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.

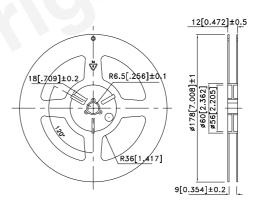
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

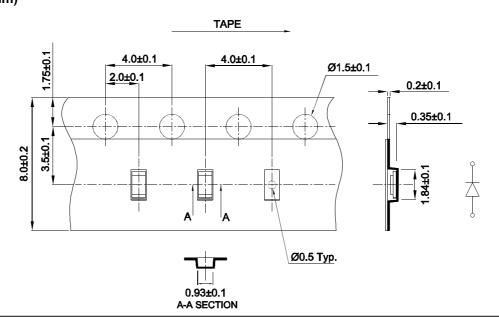


Mask open area ratio:80% Mask thickness:80~100um

Tape Dimensions (Units: mm)

Reel Dimension





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PACKING & LABEL SPECIFICATIONS KPG-1608CGKC-T **USER DIRECTION OF FEED** LABEL LABEL 2,000pcs / Reel 1 Reel / Bad OUTSIDE OUTSIDI LABEL LABEL Kingbright Kinabriaht 60K / 56# BOX 30K / 55# Box Kingbright P/NO: KPG-1608xxx ac QTY: 2,000 pcs XX XX XXXX S/N: XXXX

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RoHS Compliant

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