COTCO LUMINANT DEVICE (HUIZHOU) LTD.

SPECIFICATION FOR COTCO LED LAMP

Document No:	SPE/LP379PBL1-C0G-03
Model No :	LP379PBL1-C0G-03
Rev. No:	02
Date:	2005-07-07

Description:

120 Degree 7.6 x 7.6mm LED Lamp in Blue Color with Water Transparent Lens and Stopper

Dice Material: InGaN

Confirmed		
by Customer:		
Date:		







SPE/LP379PBL1-C0G-03 Document No. Rev. No. 02

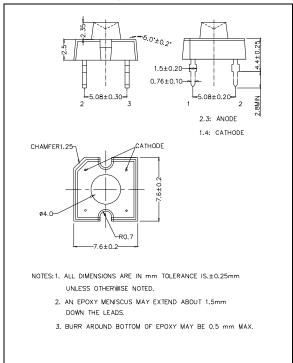
Applications:

- Advertising Signs
- Indicators
- Message Board

Absolute Maximum Ratings at Ta = 25°C

Items	Symbol	Absolute maximum Rating	Unit
Forward Current	I _F	30	mA
Peak Forward Current*	I _{FP}	100	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_{D}	132	mW
Operation Temperature	T _{opr}	-40 ~ +100	°C
Storage Temperature	T _{stg}	-40 ~ +100	°C
Lead Soldering Temperature	T _{sol}	Max.260°C for 3 sec Max. (3mm from the base of the epoxy bulb)	

Dimension Drawing



Typical Electrical & Optical Characteristics (Ta = 25°C)

Items	Symbol	Condition	Min.	Тур.	Max.	Unit
Forward Voltage	V_{F}	I _F = 30mA	I _F = 30mA		4.4	V
Reverse Current	I _R	V _R = 5V			100	μΑ
Dominant Wavelength	λ_{D}	I _F = 30mA	462	470	475	nm
Luminous Flux	Ф۷	I _F = 30mA	400	800		mlm
50% Power Angle	20½	I _F = 30mA		120		deg

^{*}pulse width <=0.1msec duty <=1/10



Document No.	SPE/LP379PBL1-C0G-03
Rev. No.	02

Standard bins for LP379PBL1-C0G-03 (I_F = 30mA):

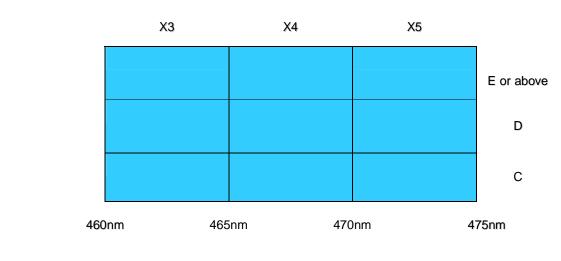
Lamps are sorted to Luminous Flux $-\Phi_V$, V_F & Dominant Wavelength $-\lambda_D$ bins shown.

Orders for LP379PBL1-C0G-03 may be filled with any or all bins contained as below.

All Luminous Flux $-\Phi_V$, V_F & Dominant Wavelength $-\lambda_D$ values shown and specified are at I_F=30mA.



Luminous Flux (Φ_V)



Dominant Wavelength (λ_D)

Rank	С	D
Luminous Flux	400-800 mlm	600-1200 mlm

^{*} C+ indicates Luminous Flux is at C bin or above.

Forward Voltage (V_F)

Rank	V7	V8	V9	V10	V11	V12	V13	V14
Voltage	2.8-3.0V	3.0-3.2V	3.2-3.4V	3.4-3.6V	3.6-3.8V	3.8-4.0V	4.0-4.2V	4.2-4.4V

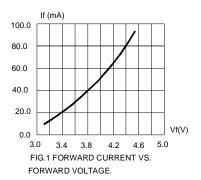
Important Notes:

- 1) All ranks will be included per delivery; rank ratio will be based on the Dices distribution.
- 2) No tolerance in the measurement of luminous flux.
- 3) Tolerance of measurement of dominant wavelength is ±1nm.
- 4) Tolerance of measurement of Vf is ±0.05 V.
- 5) Packaging methods are available for selection, Please refer to PACKAGING STANDARD.
- 6) Please refer to LED LAMP RELIABILITY TEST STANDARD for reliability test conditions.
- 7) Please refer to APPLICATION NOTES for Application.



Document No.	SPE/LP379PBL1-C0G-03
Rev. No.	02

Graphs



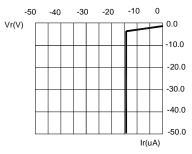
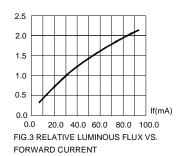
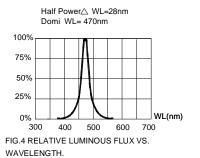
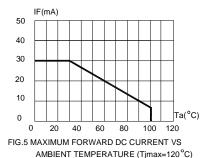
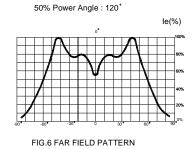


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.









Items	Signatures	Date	
Prepared by	LiuZM	2005-07-07	
Checked by	Aldosin	2005-07-07	
Approved by	David	2005-07-07	
FCN#	FCN20050221		

Revision History			
Rev. No	Date	Change Description	
02	2005-07-07	Release.	

Data is subject to change without prior notice; please refer to COTCO Website for the latest version. Copyright@2002 Cotco International Ltd.