

QT-Brightek PLCC Series Dome Type PLCC2 LED

Part No.: QBLP670D-IW-NW-2897

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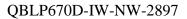




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Introduction

Feature:

- Ultra bright dome type PLCC2 LED
- InGaN technology
- Clear lens
- Viewing angle: 30 deg typ.

Description:

This dome type PLCC2 LED has a narrow viewing angle. Combination of high brightness output and robust package, this LED is ideal for architecture lighting, status indication, and color mixing applications.

Application:

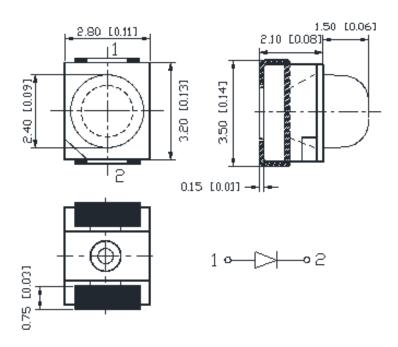
- Status indication
- Industrial equipment backlighting
- Architecture lighting

Certification & Compliance:

- TS16949
- ISO9001
- RoHS Compliant



Dimension:



Units: mm / tolerance = ± -0.2 mm

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Electrical / Optical Characteristic (Ta=25 °C)

Product	Color	I _F (mA)	V _F (V) CIE Coordinates Typ. Max. Typ.		V _F (V)		lv (r	ncd)
Product	Coloi	IF (IIIA)			Тур.	Min.	Тур.	
QBLP670D-IW-	Natural	20	2.8	3.3	X=0.365, Y=0.385	6800	9500	
NW-2897	White	20	2.0	3.3	CCT: 4500K	0000	9500	

Absolute Maximum Rating

Material	P _d (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	T _{OP} (°C)	T _{ST} (°C)
InGaN	99	30	125	5	-40 ~+80	-40 ~+85

^{*}Duty 1/8 @ 1KHz

Forward Voltage V_F @ I_F=20mA

Bin	Min.	Max.	Unit
Α	2.5	2.7	
В	2.7	2.9	V
С	2.9	3.1	V
D	3.1	3.3	

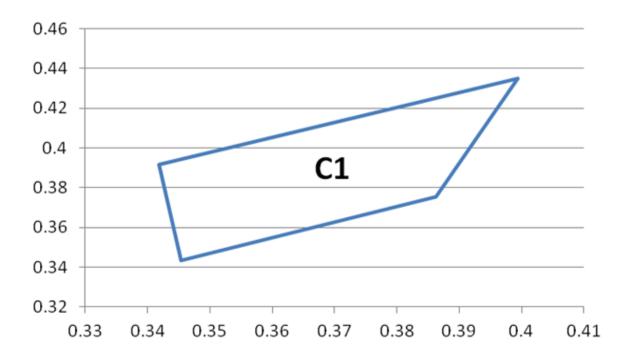
Luminous Intensity I_V @ I_F=20mA

Bin	Min.	Max.	Unit
b	6800	8800	
С	8800	11200	mad
d	11200	14200	mcd
е	14200	18000	

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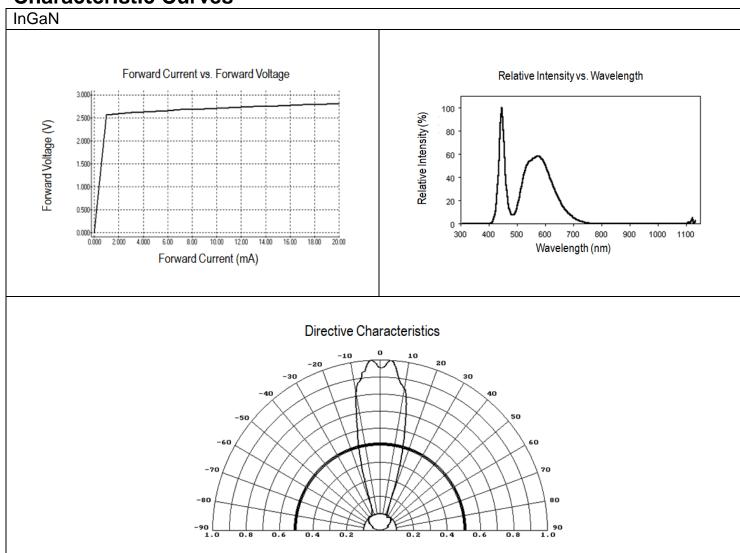
CIE Chromaticity Diagram



Rank	Chromaticity coordinates				
C1	Χ	0.3454	0.3419	0.3994	0.3863
	Υ	0.3435	0.3917	0.4349	0.3755



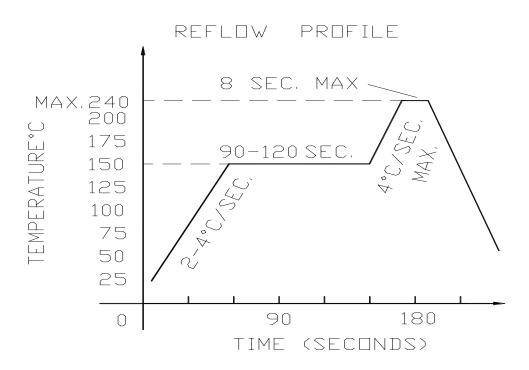
Characteristic Curves

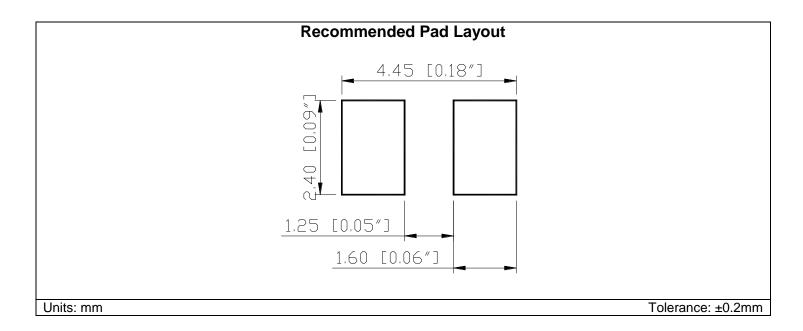


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Solder Profile & Footprint





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Recommended Handling Precautions

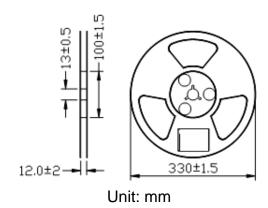
- 1. It is recommended to store the products in sealed and anti-static bags with desiccant inside at the following condition:
 - Humidity: <60% RHTemperature: 5°C~30°C
- 2. Shelf life in sealed bag: 12 month at 5°C~30°C and <60% R.H
- 3. After the package is opened:
 - 3.1 The products should be used within a week (168 hours)
 - 3.2 Or product should be stored at ≤ 20% RH and (5°C~30°C) with zip-lock sealed bag
 - 3.3 It is recommended to bake before soldering when the package is unsealed after 72hrs; 3.3.1 Baking condition (Tape and Reel Type): 60±3°C (24~36 hrs) and < 5% RH
 - 3.4 Products require baking before soldering/mounting if **3.1** or **3.2** is not met. Baking condition refers to **3.3.1**
- 4. If the product is not used within 3 months since manufacturing date, it is recommended to bake for 24 hrs @ 60°C before use.
- 5. If the product is not used after 3 months since manufacturing date, it is recommended to bake for 36~48 hrs @ 60°C before use.

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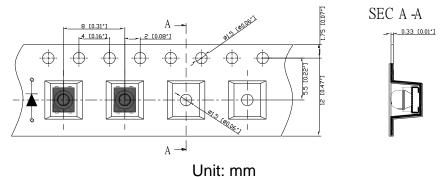


Packing

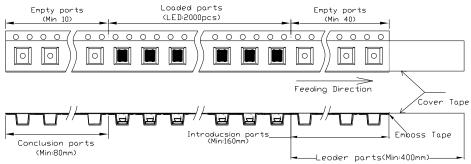
Reel Dimension:



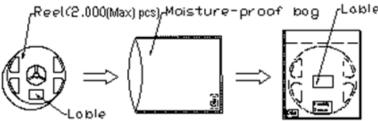
Tape Dimension:



Arrangement of Tape:



Packaging Specifications:



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Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per Reel
QBLP670D-IW-	QBLP670D-IW-	Iv=9500mcd typ. @ I _F =20mA / CIE	2,000 units
NW-2897	NW-2897	Coordinates: (X=0.365, Y=0.385) typ.	

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Revision History

Description:	Revision #	Revision Date
New Release of QBLP670D-IW-NW-2897	V1.0	3/17/2021

Disclaimer

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QT-BRIGHTEK's products are not authorized for use as critical components in life support devices or systems without the express written approval of QT-BRIGHTEK. As used herein:

- 1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, and (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury of the user.
- 2. A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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