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Introduction	
 Feature: Clear lens Ultra bright dome type PLCC2 LED InGaN technology Viewing angle: 30deg typ. 	 Application: Status indication Industrial equipment backlighting Architecture lighting
Description: This dome type PLCC2 LED has a height profile of 3.6mm. Combination of high brightness output and robust package, this LED is ideal for architecture lighting, status indication, and color mixing applications.	Certification & Compliance: • TS16949 • ISO9001 • RoHS Compliant
Dimension:	·







Units: mm / tolerance = +/-0.2mm

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Electrical / Optical Characteristic (Ta=25 °C)

Product	Color	I _F (mA)	V _F (V) Typ. Max.		CIE Coordinates	lv (r	ncd)		
FIOUUCI	000	1F (111A)			Тур.	Min.	Тур.		
QBLP670D-IW-	Warm	20	2.1	27	X=0.4338, Y=0.4030	2500	6800		
WW	White	20	3.1 3.7 –		3.1	3.7	CCT: 3000K	2500	0000

Absolute Maximum Rating

Material	P _d (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	Т _{оР} (°С)	Т _{sт} (°С)
InGaN	111	30	125	5	-40 ~+80	-40 ~+85

*Duty 1/8 @ 1KHz

Forward Voltage V_F @ I_F=20mA

Bin	Min.	Max.	Unit
f	2.8	3.1	
g	3.1	3.4	V
h	3.4	3.7	

Luminous Intensity I_V @ I_F=20mA

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Bin	Min.	Max.	Unit
D	2500	3500	
E	3500	5000	mad
F	5000	7000	mcd
G	7000	10000	

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CIE Chromaticity Diagram



Chromaticity coordinates Ranks combination (IF=20mA)					
Rank			Chromaticit	y coordinates	
	X	0.3841	0.4063	0.4947	0.4496
E	Y	0.3543	0.4218	0.4547	0.3779

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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% RH</p>
- Temperature: 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 $\leq 20\%$ 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): $60\pm3^{\circ}$ 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:



Unit: mm

Arrangement of Tape:



Packaging Specifications:



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Labeling

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III II IIII IIIIIIIIIIIIIIIIIIIIIIIIII
Customer P/N:
Item:
<u>Q'ty:</u>
<u>Vf:</u>
<u>WI:</u>
Date: Made in China

Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per Reel
QBLP670D-IW- WW	QBLP670D-IW- WW	Iv=6800mcd typ. @ I _F =20mA / CCT Coordinate: (0.438, 0.4030) typ. / CCT: 3000K typ.	2,000 units

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Revision History

Description:	Revision #	Revision Date
New Release of QBLP670D-IW-WW	V1.0	11/26/2014
Update logo and format	V1.1	04/06/2021
Brightness update	V1.2	08/24/2021

Disclaimer

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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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