

# **QT-Brightek Chip LED Series**

# SMD 0402 Orange LED

Part No.: QBLP595-O5

5: 5mA

Product: QBLP595-O5	Date: July 20, 2022	Page 1 of 9
	Version# 1.0	



Table of Contents:	
Introduction	3
Electrical / Optical Characteristic (Ta=25 °C)	4
Absolute Maximum Rating	4
Solder Profile & Footprint	
Packing	
Ordering Information	8
Revision History	9
Disclaimer	

Product: QBLP595-O5	Date: July 20, 2022	Page 2 of 9
	Version# 1.0	



### Introduction

#### Feature:

- Water clear lens
- Color: orange
- Package in tape and reel
- Compact 0402 package
- AlInGaP technology
- Viewing angle: 140° typ.

#### **Description:**

These ultra bright 0402 LEDs have a height profile of 0.50mm. Combination of high brightness output and small footprint, these LEDs are ideal for keypad backlighting and status indication.

#### **Application:**

- Status indication
- Back lighting application

#### **Certification & Compliance:**

- ISO9001
- RoHS Compliant



#### **Dimension:**



#### Units: mm / tolerance = +/-0.1mm

Product: QBLP595-O5	Date: July 20, 2022	Page 3 of 9
	Version# 1.0	



### Electrical / Optical Characteristic (Ta=25 °C)

Product Color	Color	L (m A)	V <sub>F</sub> (V)			λ <sub>D</sub> (nm)		l <sub>v</sub> (n	ncd)
	Color I <sub>F</sub> (mA) T	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	
QBLP595-O5	Orange	5	1.85	2.3	600	605	610	16	30

## **Absolute Maximum Rating**

Material	P <sub>d</sub> (mW)	I <sub>F</sub> (mA)	I <sub>FP</sub> (mA)*	V <sub>R</sub> (V)	Т <sub>ОР</sub> (°С)	Т <sub>sт</sub> (°С)	T <sub>SOL</sub> (°C)**
AllnGaP	69	30	125	5	-40 ~ +80	-40 ~ +85	260

\*Duty 1/8 @ 1KHz

\*\*IR Reflow for no more than 10 sec @ 260 °C

### Forward Voltage V<sub>F</sub> @ I<sub>F</sub>=5mA

Bin	Min.	Max.	Unit
	1.7	2.3	V

## Luminous Intensity I<sub>V</sub> @ I<sub>F</sub>=5mA

Bin	Min.	Max.	Unit
В	16	20	
С	20	25	
D	25	32	mcd
E	32	40	
F	40	50	

## Dominant Wavelength $\lambda_D @ I_F = 5 mA$

Bin	Min.	Max.	Unit
р	600	605	200
q	605	610	nm

Product: QBLP595-O5	Date: July 20, 2022	Page 4 of 9
	Version# 1.0	



# **Characteristic Curves**



Product: QBLP595-O5	Date: July 20, 2022	Page 5 of 9
	Version# 1.0	



# **Solder Profile & Footprint**

-The recommended reflow soldering profile is as follows (temperatures indicated are as measured on the surface of the LED resin):





Product: QBLP595-O5	Date: July 20, 2022	Page 6 of 9
	Version# 1.0	



# Packing

#### **Reel Dimension:**



Unit: mm

#### Tape Dimension:



Unit: mm

#### Arrangement of Tape:



#### Packaging Specifications:



Product: QBLP595-O5	Date: July 20, 2022	Page 7 of 9
	Version# 1.0	



## **Ordering Information**

Part #	Orderable Part #	Spec Range	Quantity per reel
QBLP595-O5	QBLP595-O5	Iv=30mcd typ. @ I <sub>F</sub> =5mA / Color=600 to 610nm	5,000 units

Product: QBLP595-O5	Date: July 20, 2022	Page 8 of 9
	Version# 1.0	



#### **Revision History**

Description:	Revision #	Revision Date
New Release of QBLP595-O5	V1.0	07/20/2022

## Disclaimer

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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.

Product: QBLP595-O5	Date: July 20, 2022	Page 9 of 9
	Version# 1.0	