



0402 LED

QT-Brightek Chip LED Series

SMD 0402 Green LED

Part No.: QBLP595-AG15

AG1: 566 to 575nm 5: 5mA

Product: QBLP595-AG15	Date: July 12, 2022	Page 1 of 9
	Version# 1.0	





Table of Contents:	
Introduction	3
Electrical / Optical Characteristic (Ta=25 °C)	4
Absolute Maximum Rating	
Solder Profile & Footprint	
Packing	7
Ordering Information	8
Revision History	9
Disclaimer	9

Product: QBLP595-AG15	Date: July 12, 2022	Page 2 of 9
	Version# 1.0	



0402 LED



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Introduction

Feature:

- Water clear lens
- Color: Green
- 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:

QBLP595-AG15

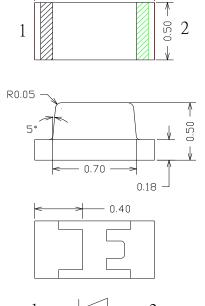
- Status indication
- Back lighting application

Certification & Compliance:

- ISO9001
- RoHS Compliant



Dimension:



- 1.00 -

Units: mm / tolerance = +/-0.1mm

Product: QBLP595-AG15	Date: July 12, 2022	Page 3 of 9
	Version# 1.0	







Electrical / Optical Characteristic (Ta=25 °C)

Droduct	Color	I _F (mA)	V _F	(V)		λ _D (nm)		I _V (n	ncd)
Product	COIOI IF (III)	IF (IIIA)	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.
QBLP595-AG15	Green	5	1.9	2.3	566	570	575	5.0	9.5

Absolute Maximum Rating

Material	P _d (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	T _{OP} (°C)	T _{ST} (°C)	T _{SOL} (°C)**
AllnGaP	69	30	125	5	-40 ~ +80	-40 ~ +85	260

^{*}Duty 1/8 @ 1KHz

Forward Voltage V_F @ I_F=5mA

Bin	Min.	Max.	Unit
	1.7	2.3	V

Luminous Intensity I_V @ I_F=5mA

Bin	Min.	Max.	Unit
8	5.0	8.0	
9	8.0	12.5	mad
Α	12.5	16	mcd
В	16	20	

Dominant Wavelength λ_D @ $I_F=5mA$

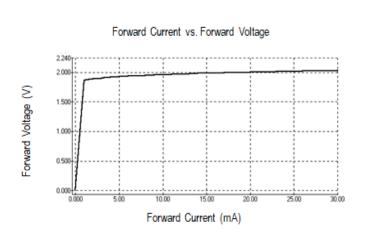
Bin	Min.	Max.	Unit
Н	566	569	
1	569	572	nm
J	572	575	

Product: QBLP595-AG15	Date: July 12, 2022	Page 4 of 9
	Version# 1.0	

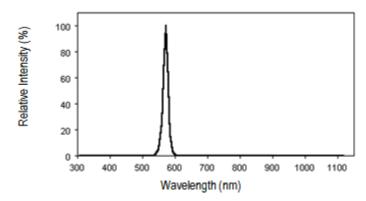
^{**}IR Reflow for no more than 10 sec @ 260 °C



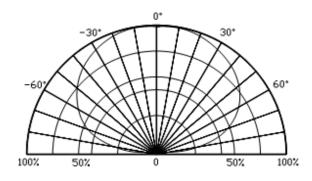
Characteristic Curves







Directive Characteristics

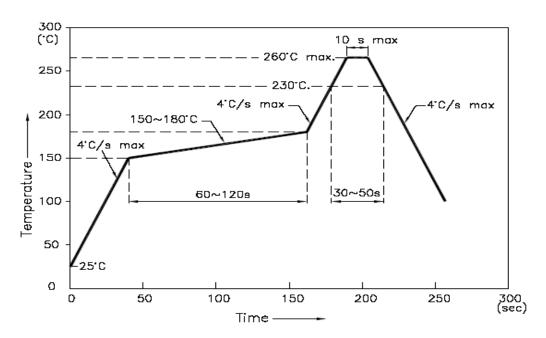


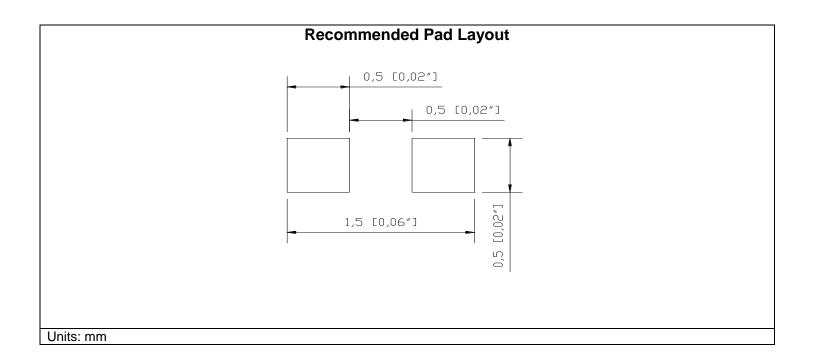
Product: QBLP595-AG15	Date: July 12, 2022	Page 5 of 9
	Version# 1.0	



Solder Profile & Footprint

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



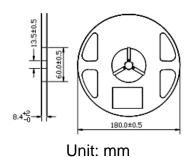


Product: QBLP595-AG15	Date: July 12, 2022	Page 6 of 9
	Version# 1.0	

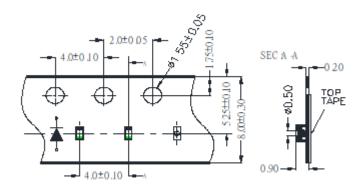


Packing

Reel Dimension:

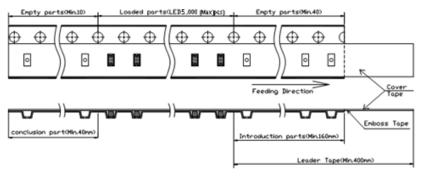


Tape Dimension:

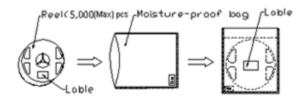


Unit: mm

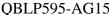
Arrangement of Tape:



Packaging Specifications:



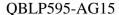
Product: QBLP595-AG15	Date: July 12, 2022	Page 7 of 9
	Version# 1.0	



Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per reel
QBLP595-AG15	QBLP595-AG15	Iv=9.5mcd typ. @ I _F =5mA / Color=566 to 575nm	5,000 units

Product: QBLP595-AG15	Date: July 12, 2022	Page 8 of 9
	Version# 1.0	





Revision History

Description:	Revision #	Revision Date
New Release of QBLP595-AG15	V1.0	07/12/2022

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-AG15	Date: July 12, 2022	Page 9 of 9
	Version# 1.0	