



QT-Brightek Chip LED Series 0805 IR LED

Part No.: QBLP630-IR2

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	Version# 1.1	

080	15	LED

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Introduction

Feature:

- Water clear lens
- Package in tape and reel
- 0805 Package
- AlGaAs technology
- Viewing Angle = 140 deg

Description:

This 0805 IR LED has a height profile of 1.1mm. With a small footprint, this IR LED is ideal for smaller equipment and miniature application.

Application:

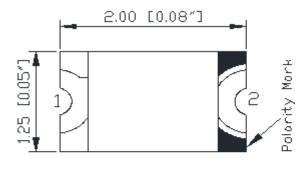
- Infrared Sensor
- Optoelectronic Switch
- Smoke detector
- Drive sensor

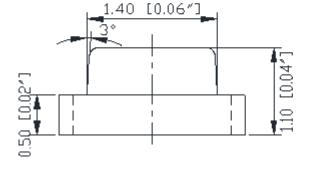
Certification & Compliance:

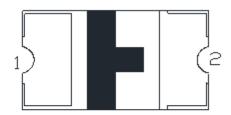
- TS16949
- ISO9001
- RoHS Compliant

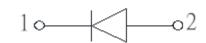


Dimension:









Units: mm / tolerance = +/-0.1mm

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QDE1 050 IN2

Electrical / Optical Characteristic (Ta=25 °C)

Product	Color	lor I _F (mA)	V _F (V)			λ _P (nm)		I	e (mW/s	r)
	Color		Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.
QBLP630-IR2	Infrared	20	1.4	1.8	-	880	-	0.2	0.95	2.10

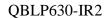
Absolute Maximum Rating

Material	P _d (mW)	I _F (mA)	I _{FP} (A)*	V _R (V)	T _{OP} (°C)	T _{ST} (°C)	T _{SOL} (°C)**
AlGaAs	90	50	1	5	-40 ~ +80	-40 ~ +85	260

^{*}Duty cycle=1%, Pulse width 100us

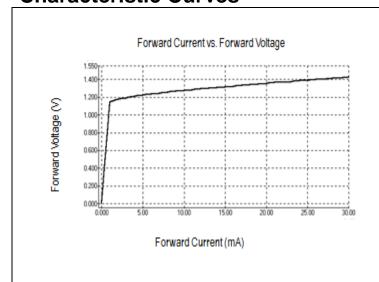
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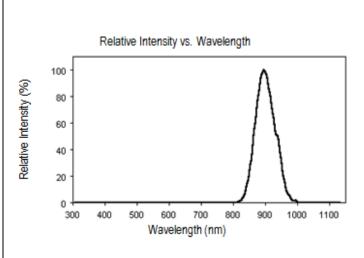
^{**}IR Reflow for no more than 10 sec @ 260 °C

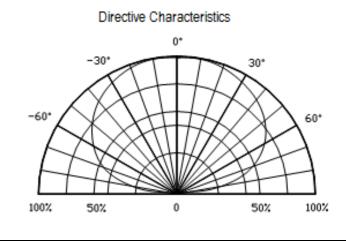




Characteristic Curves





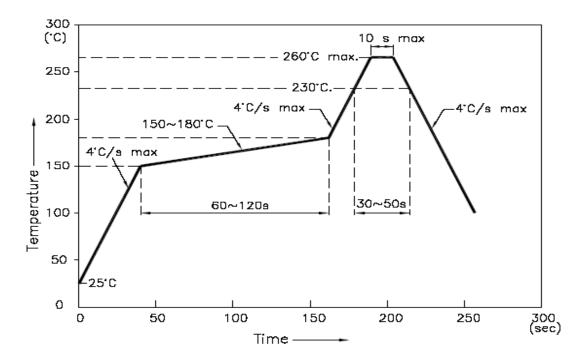


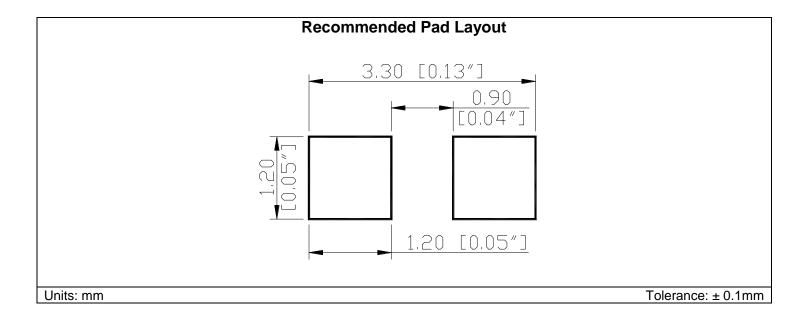
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Solder Profile & Footprint

- -Recommended tin solder specifications: melting temperature in the range of 178~192 $^{\rm O}{\rm C}$
- -The recommended reflow soldering profile is as follows (temperatures indicated are as measured on the surface of the LED resin):





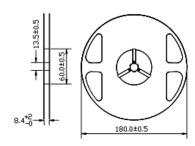
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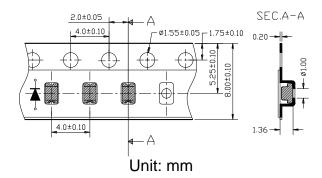
Packing

Reel Dimension:

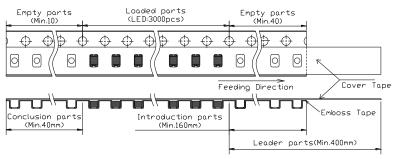


Unit: mm

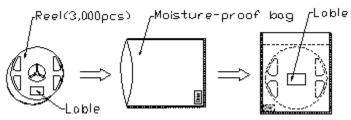
Tape Dimension:



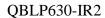
Arrangement of Tape:



Packaging Specification:



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Labeling

Part No:
Customer P/N:
ltem:
Q'ty:
Vf:
lv:
WI:
Date:

Made in China

Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per reel
QBLP630-IR2	QBLP630-IR2	le=0.95mW/sr typ. @ I_F =20mA / λ_P =880nm typ.	3,000 units

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Revision History

Description:	Revision #	Revision Date
New Release of QBLP630-IR2	V1.0	05/04/2015
Datasheet pin out & polarity correction. Update Logo	V1.1	05/14/2018

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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