

PRELIMINARY SPEC

Part Number: WP7113WYP/PBC/Z

BLUE



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Features

- OUTSTANDING MATERIAL EFFICIENCY.
- RELIABLE AND RUGGED.
- IC COMPATIBLE/LOW CURRENT CAPABILITY.
- HOUSING MATERIAL: PPA.
- PACKAGE : 65 PCS/TUBE.
- HIGH TEMPERATURE RESISTANT HOUSING.
- RoHS COMPLIANT.

Description

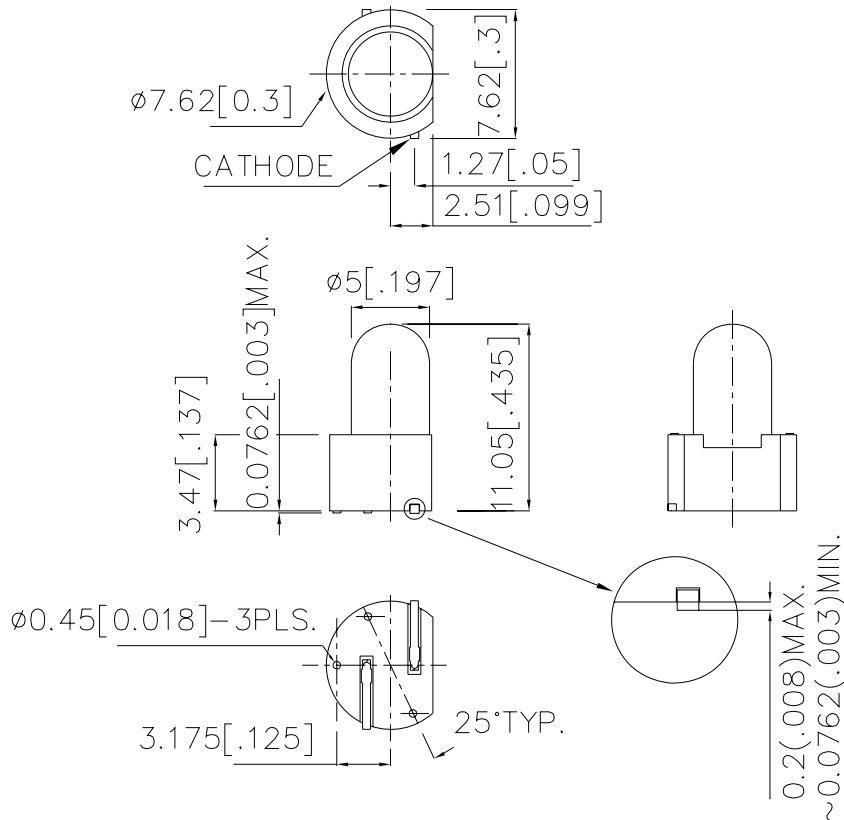
The Blue source color devices are made with InGaN Light Emitting Diode.

Static electricity and surge damage the LEDs.

It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25 (0.01)$ unless otherwise noted.
3. Specifications are subject to change without notice.



Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	2 θ 1/2
WP7113WYP/PBC/Z	Blue (InGaN)	WATER CLEAR	2800	5500	20°

Notes:

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
2. Luminous Intensity / Luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Blue	458		nm	IF=20mA
λ_D [1]	Dominant Wavelength	Blue	465		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Blue	22		nm	IF=20mA
C	Capacitance	Blue	110		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Blue	3.2	3.7	V	IF=20mA
IR	Reverse Current	Blue		10	uA	VR = 5V

Notes:

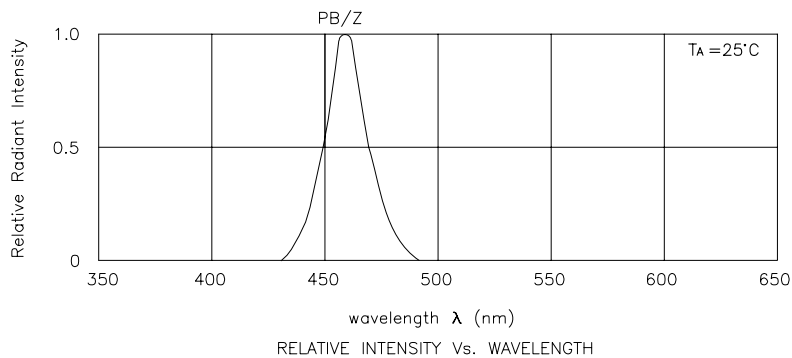
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

Parameter	Blue	Units
Power dissipation	111	mW
DC Forward Current	30	mA
Peak Forward Current [1]	100	mA
Reverse Voltage	5	V
Operating / Storage Temperature	-40°C To +85°C	

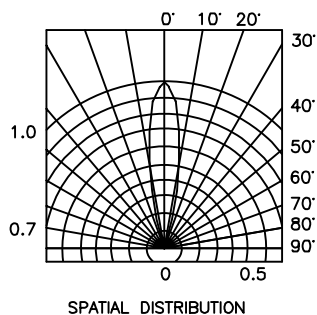
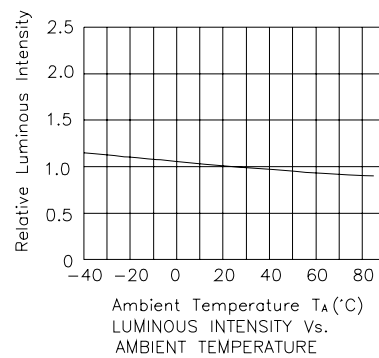
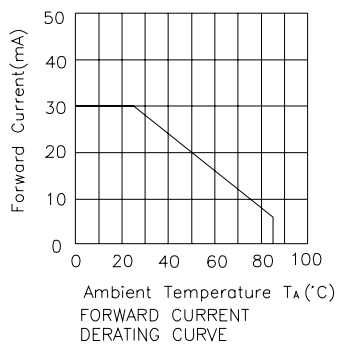
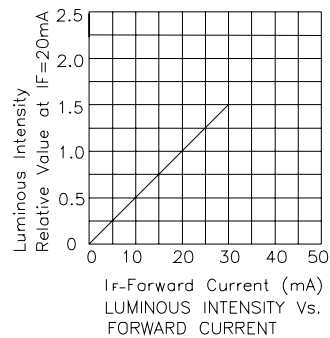
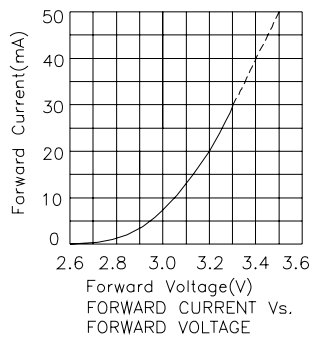
Note:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.

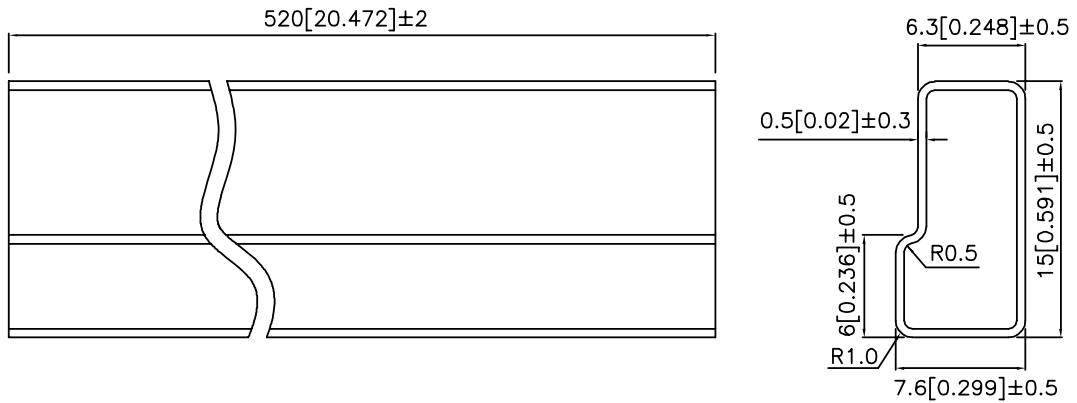


Blue

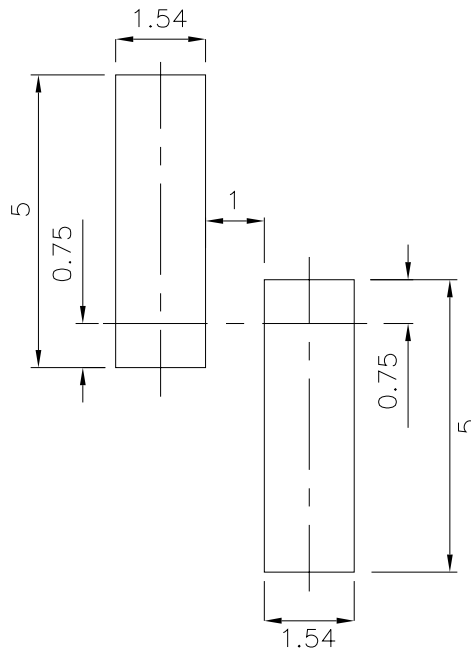
WP7113WYP/PBC/Z



WP7113WYP/PBC/Z
IC Tube Dimensions



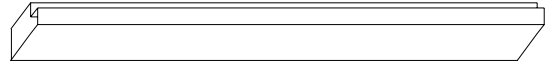
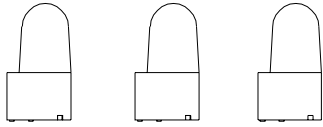
Recommended Soldering Pattern
(Units : mm; Tolerance: ± 0.1)



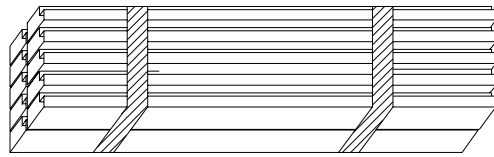
Kingbright

PACKING & LABEL SPECIFICATIONS

WP7113WYP/PBC/Z




65PCS / IC TUBE



650pcs / 10pcs IC TUBE



Kingbright	
Q.C.	QC XXXX-XX-XXXX PASSED
TYPE NO : WP7113WYPXXX	
QUANTITY : 650 pcs	
S/N : XXX	CODE: XX
LOT NO: 	
RoHS Compliant	

Date



OUTSIDE LABEL

20.8K / 10# BOX