

PRODUCT SPECIFICATION

Part Number **PLC762-WCW04**

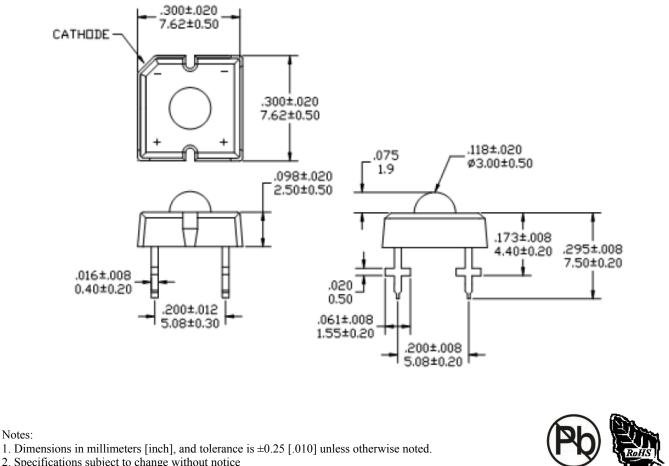
Details

Features

- Piranha LED .
- 7.62 x 7.62 x 9.4mm •
- **Emitting Color White** •
- InGaN Dice Used •

Mechanical Dimensions

- 3mm Lens •
- High Luminous Output •
- High Current Operation •
- **RoHS** Compliant



2. Specifications subject to change without notice



Device Selection Guide

Model Number	Chip		
Wodel Number	Material	Emitting Color	
PLC762-WCW04	InGaN	White	

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Unit
		W	
Power Dissipation	Pad	152	mW
Continuous Forward Current	IAF	40	mA
Peak Current (duty cycle 1/10, 1KHz)	IPF	100	mA
Reverse Voltage	VR	5	V
Operating Temperature	Topr	-30~+80	°C
Storage Temperature	Tstg	-40~+100	°C
Soldering Conditions	Max. 260°C for	5 sec Max.(3mm from the epoxy body)	

Electrical and Optical Characteristics at $Ta=25^{\circ}C$

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Forward Voltage	VF		3.3	3.8	V	
Luminous Flux	Iv	3500	5000		mlm	IF=30mA
Chromacity Coordinates	X/Y		0.31/0.32		nm	1r-30111A
Viewing Angle	2θ1/2		70		deg	
Reverse Current	IR			50	μΑ	VR=5V

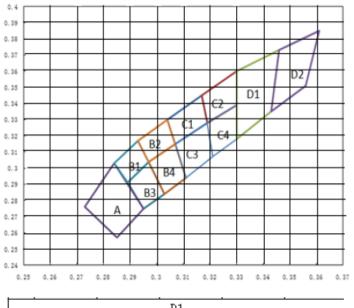


Luminous Flux Rank Limits (IF = 30mA)

Code	Unit: mlm		
Coue	Min.	Max.	
Н	4000	5000	
J	5000	6000	
Κ	6000	7000	
L	7000	8000	

Color Rank Limits (IF = 30mA)

			A		
X	0.285	0.295	0.284	0.273	0.285
Y	0.257	0.275	0.303	0.276	0.257
			B1		
X	0.289	0.297	0.293	0.284	0.289
Y	0.291	0.304	0.317	0.303	0.291
L			B2		
X	0.297	0.307	0.304	0.293	0.297
Y	0.304	0.315	0.33	0.317	0.304
			B3		
X	0.295	0.303	0.297	0.289	0.295
Y	0.275	0.284	0.304	0.291	0.275
			B4		
X	0.303	0.311	0.307	0.297	0.303
Y	0.284	0.294	0.315	0.304	0.284
			C1		
X	0.307	0.319	0.317	0.304	0.307
Y	0.315	0.328	0.345	0.33	0.315
			C2		
X	0.319	0.33	0.33	0.317	0.319
Y	0.328	0.339	0.36	0.345	0.328
			C3		
X	0.311	0.321	0.319	0.307	0.311
Y	0.294	0.307	0.328	0.315	0.294
			C4		
X	0.321	0.33	0.33	0.319	0.321
Y	0.307	0.318	0.339	0.328	0.307



			D1		
Х	0.33	0.343	0.346	0.33	0.33
Y	0.318	0.335	0.373	0.36	0.318
			D2		
X	0.343	0.356	0.361	0.346	0.343
Y	0.335	0.351	0.385	0.373	0.335



Forward Voltage Rank Limits (IF = 30mA)

Code	Unit: V		
Coue	Min.	Max.	
Н	2.8	3.0	
J	3.0	3.2	
Κ	3.2	3.4	
L	3.4	3.6	
М	3.6	3.8	

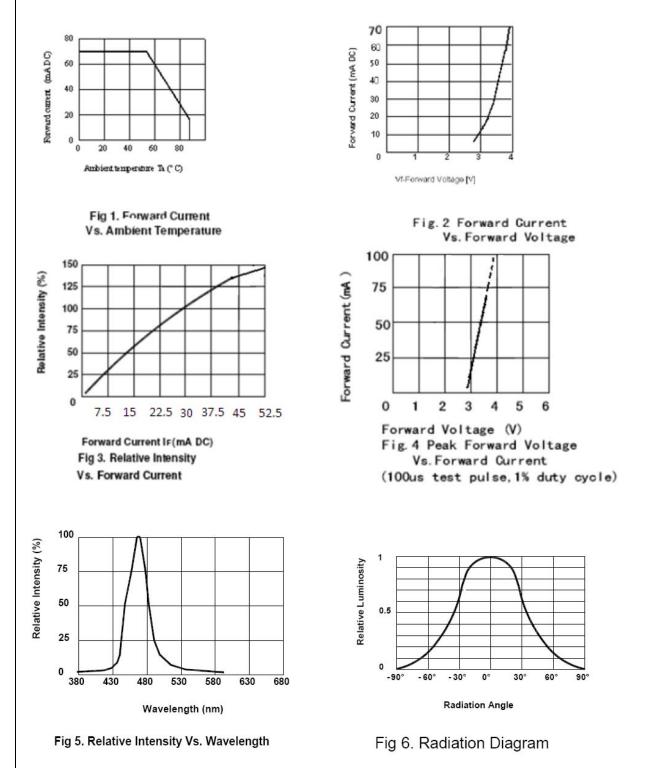
Notes:

- 1. Tolerance of measurement of luminous Flux: $\pm 15\%$
- 2. Tolerance of measurement of Dominant wavelength: ±2nm
- 3. Tolerance of measurement of forward voltage: $\pm 0.05v$
- 4. All data measured by P-tec's test equipment
- 5. One delivery will include several color rank, VF and Iv ranks of the products.
- 6. The quantity-ratio of the ranks is decided by P-tec
- 7. Please confirm with P-tec salesman, if your request differs from standard specifications.



Typical Electrical/Optical Characteristic Curves

• Ta=25°C Unless Otherwise Noted

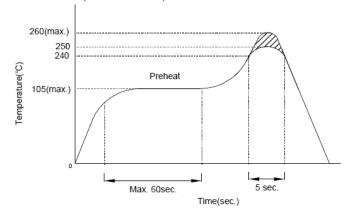




Precautions for Use

- 1. Recommended soldering conditions
 - 1.1. Wave soldering





1.2. Recommended Soldering:

Power dissipation of iron should be smaller than 15W and temperature should be controllable. Soldering temperature should be under 230, time 3sec.

- 2. Static Electricity
 - 2.1 Static electricity or surge voltage damages LEDs.It is recommended that a wrist band or an anti-electrostatic glove be used when handling the LEDs.
 - 2.2 All devices, equipment and machinery must be properly grounded. It is recommended that measures be taken against surge voltage to the equipment that mounts the LEDs.



	Approved By	Checked By	Prepared By
Customer Approval			
Signatures			

Record Of Revisions				
Rev.	Comments	Page	Date	
0	Released Spec		10/08/14	