



## CHIP-650-P30

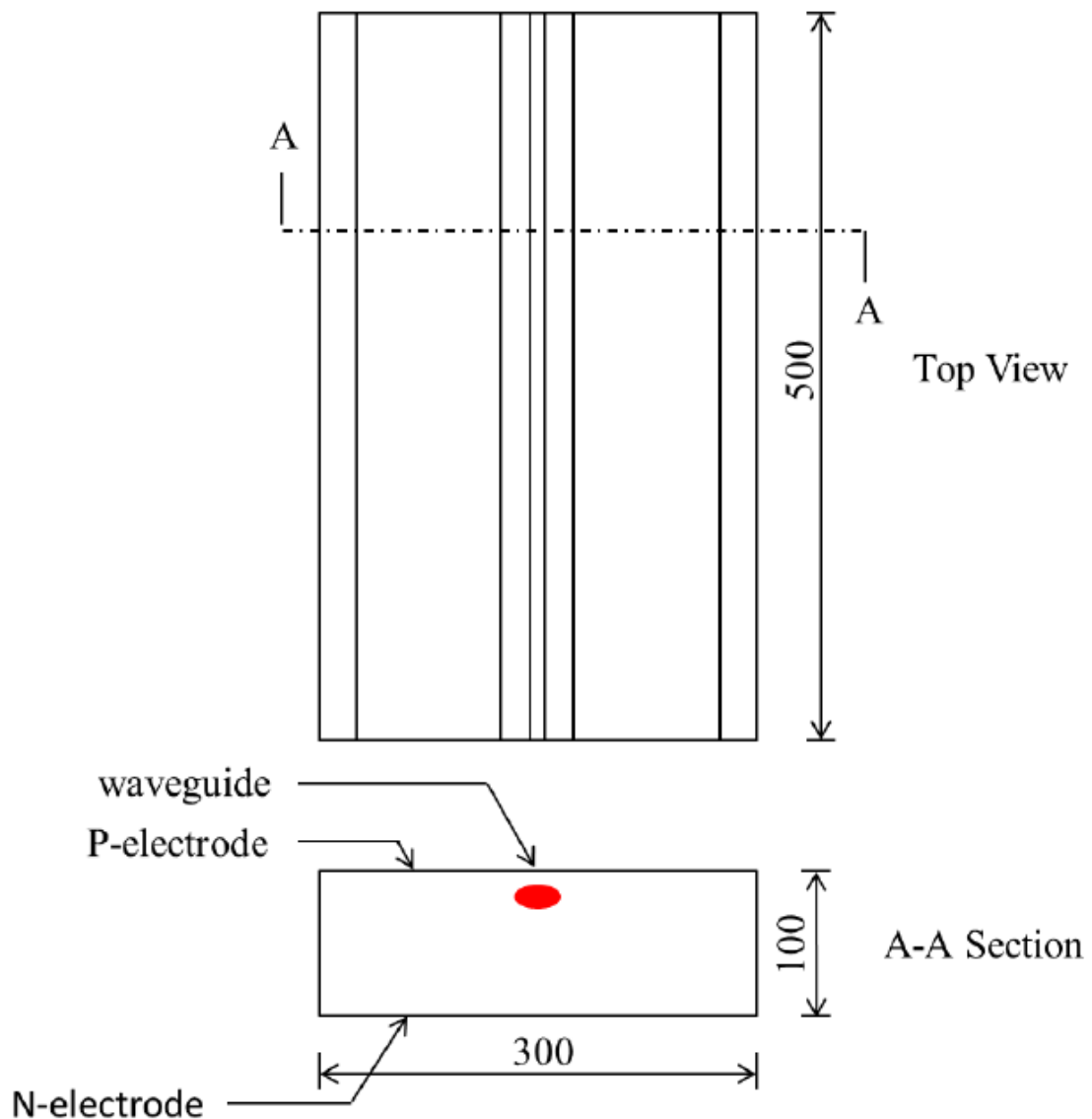
### ■ Features

1. Low operation current
2. Standard optical power output : 30mW

### ■ Applications

1. Laser module
2. Laser pointer
3. Industrial module
4. Medical application

### ■ External dimensions(Unit : $\mu\text{m}$ )



**P-electrode and N-electrode are both gold pads.**



## ■ Electrical and Optical Characteristics(Tc=25 °C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit	
Threshold Current	I <sub>th</sub>	P <sub>o</sub> =30mW	-	40	50	mA	
Operating Current	I <sub>op</sub>	P <sub>o</sub> =30mW	-	70	80	mA	
Operating Voltage	V <sub>op</sub>	P <sub>o</sub> =30mW	-	2.3	2.5	V	
Slope Efficiency	$\eta$	P <sub>o</sub> =7.5-22.5mW	0.8	1.0	-	mW/mA	
Beam Divergence (FWHM)	Parallel	$\theta //$	P <sub>o</sub> =30mW	7	8	10	deg.
	Perpendicular	$\theta \perp$	P <sub>o</sub> =30mW	-	28	35	deg.
Lasing Wavelength	$\lambda$	P <sub>o</sub> =30mW	640	645	655	nm	

©  $\theta //$  and  $\theta \perp$  are defined as the angle within which the intensity is 50% of the peak value.

© Measuring Conditions : Pulse width=5  $\mu$ s , Duty cycle=1%

## ■ Quality Notice

This device is still under product development.

© All Rights Reserved

The above specifications are for reference purpose only and subjected to change without prior notice