


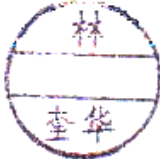
## APPROVAL SHEET

(承认书)

**ITEM: ADL-66505TL**

版本 (Version) : 6-2D-LD66-010\_Rev.00

日期 (Date) : 2011-11-23

Prepared By (制订)	Confirmed By (确认)	Approved By (承认)
		
Date (日期)	Date (日期)	Date (日期)

## RED LASER DIODE

ADL-66505TL

6-2D-LD66-010\_Rev.00

660nm/50mW 60°C Reliable Operation Design

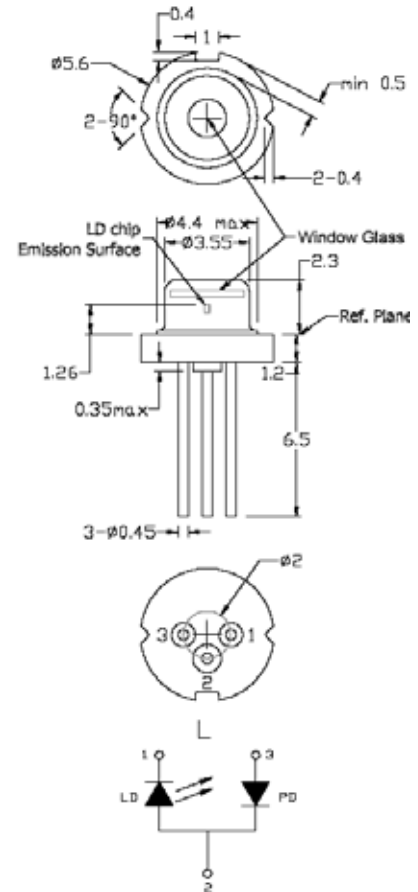
Dimension

### ◆ Features

- Highly reliable
- Higher power
- High efficiency
- Low operating current

### ◆ Applications

- High power laser modules
- Industrial laser markers / measuring instruments
- Medical applications



### ◆ Absolute maximum ratings

(TC=25°C)

Parameter	Symbol	Condition	Rating	Unit
Light output power	$P_0$	CW	52	mW
Reverse voltage (LD)	$V_{RL}$	-	2	V
Case Temperature	$T_C$	-	-10~+60	°C
Storage temperature	$T_S$	-	-40~+85	°C

\*\*\*Reverse voltage (PD) = 30V, Forward current (PD) = 10mA

### ◆ Electrical and optical characteristics

(TC=25°C)

Parameter	Symbol	Min	Typ.	Max.	Unit	Condition (CW)
Peak wavelength	$\lambda$	650	660	670	nm	Po = 50mW CW, Kink Free
Threshold current	$I_{th}$	-	45	60	mA	
Operating current	$I_{op}$	-	90	120	mA	
Operating voltage	$V_{op}$	2	2.5	3	V	Po = 45-50mW
Differential efficiency		0.7	1	1.4	mW/mA	
Monitor current	$I_m$	0.05	0.2	0.5	mA	Po = 50mW, VRD=5V
Parallel divergence angle		6.0	9.0	13.0	deg	Po = 50mW
Perpendicular divergence angle		13	17	22	deg	
Parallel FFP deviation angle		-3.0	0.0	+3.0	deg	
Perpendicular FFP deviation angle		-3.0	0.0	+3.0	deg	
Emission Point Accuracy	$\Delta x \Delta y \Delta z$	-80	0	+80	um	

#### ●Precautions

- \* Do not operate the device above maximum ratings. Doing so may cause unexpected and permanent damage to the device.
- \* Take precautions to avoid electrostatic discharge and / or momentary power spikes. A change in the characteristics of the laser or premature failure may result.
- \* Proper heat sinking of the device assures stability and lifetime. Always ensure the maximum operating temperatures are not exceeded.
- \* Observing visible or invisible laser beams with the human eye directly, or indirectly, can cause permanent damage. Use a camera to observe the laser.
- \* No laser device should be used in any application or situation where life or property is at risk in event of device failure.
- \* Specifications are subject to change without notice. Ensure that you have the laser specification by contacting us prior to purchase or use of the product

**Notice : A-LASER proposes to operate ADL-66505TL by the external APC circuit.**

*\*For reference only. Contents above are subject to change without notice.*