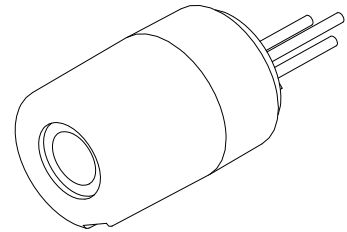


## Φ6.5mm 650nm Laser Module

### Features

APC (auto power control) IC inside  
Low current consumption of the APC circuit  
Surge current protection  
High quality lens for output beam



### Absolute maximum ratings

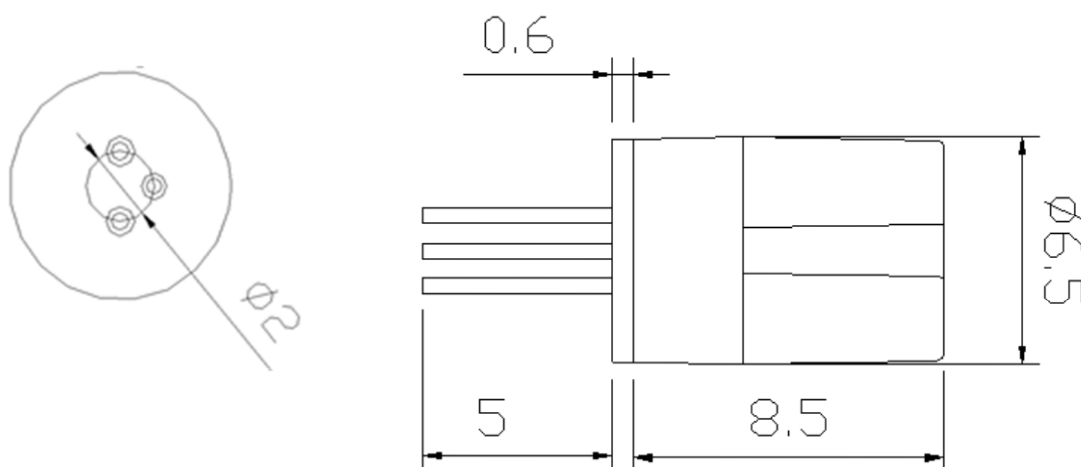
Parameter	Symbol	Rating	Unit
Power supply voltage	V <sub>cc</sub>	3.3	V
Laser Module optical output power	P <sub>o</sub>	<0.4	mW
Operation temperature	T <sub>opr</sub>	-10~50	°C
Storage temperature	T <sub>stg</sub>	-40~85	°C

### Electrical and optical characteristics (T<sub>c</sub>=25 °C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Wavelength	λ	640	655	660	nm	P <sub>o</sub> <0.4mW
Operation current	I <sub>op</sub>	-	20	30	mA	P <sub>o</sub> = 0.3mW ; V <sub>cc</sub> =3V
Optical output power	P <sub>out</sub>	0.2		0.38	mW	
Operation voltage	V <sub>op</sub>	2.8	-	3	Volt	
Laser Beam spot size at 10m		<13mm				
Divergence angle		1.3 mrad				

\* Sufficient heat dissipation is required for CW operation.

### Outline dimensions (Units: mm)



ARIMA LASERS CORP.

PHONE: 886-3-4699800 | FAX: 886-3-4699600

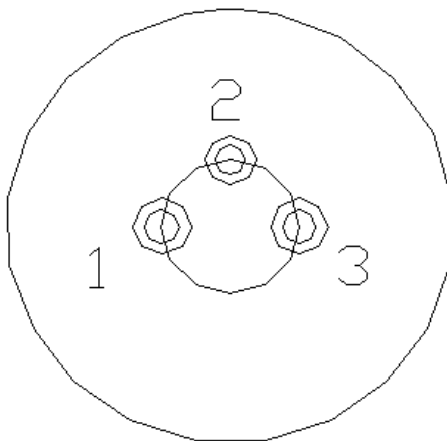
E-MAIL: Ldsales@arimalasers.com | www.arimalasers.com

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

**Arima**  
LASERS

## Φ6.5mm 650nm Laser Module

PIN Assignment:



**TA type :** Heat sink stand (–)

**Pin 1 :** Vcc

**Pin 2 :** GND

**Pin 3 :** NC (no external connection)

### • 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 that 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 latest specification by contacting us prior to purchase or use of the product.