

# Infrared APC Laser Module

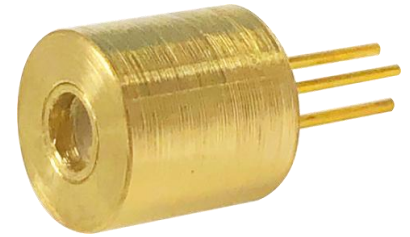
AML-R065-940XXX-02

6-2D-LM90-002\_Rev.00

## Φ6.5mm 940nm Laser Module With Random Dots Pattern

### Features

Power set by user  
High quality Random pattern DOE  
Random Dot >15,000



### Absolute maximum ratings

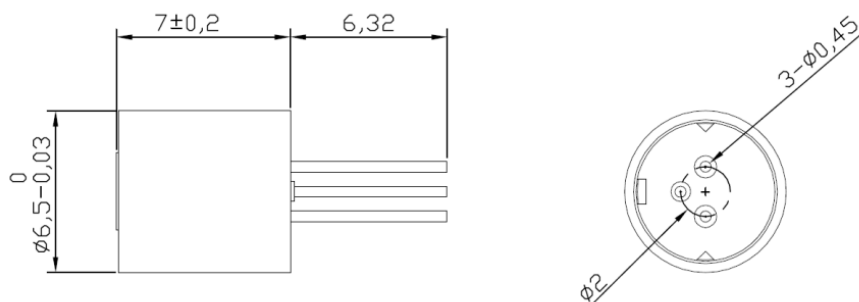
Parameter	Symbol	Rating	Unit
Laser Module optical output power	P <sub>o</sub>	160	mW
Reverse voltage (PD)	V <sub>RL</sub>	0	V
Reverse voltage (PD)	V <sub>RD</sub>	30	V
Forward current (PD)	I <sub>FD</sub>	10	mA
Operation temperature	T <sub>c</sub>	-10~50	°C
Storage temperature	T <sub>s</sub>	-40~85	°C

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Wavelength	λ	930	940	950	nm	P <sub>o</sub> = 150mW
Threshold current	I <sub>th</sub>	-	45	65	mA	
Optical output power	I <sub>op</sub>		300	350	mA	P <sub>o</sub> =150mw
Operation voltage	V <sub>op</sub>		2		Volt	P <sub>o</sub> =150mw
Monitor current	I <sub>m</sub>	0.5	1.7	2.15	mA	P <sub>o</sub> =150mw V <sub>RD</sub> =5V
Random Dot			>15,000			
Field Of View			(H)70° x (V)55°			
Image Ratio			4:3			

\* Sufficient heat dissipation is required for CW operation.

### Outline dimensions (Units: mm)



ARIMA LASERS CORP.

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

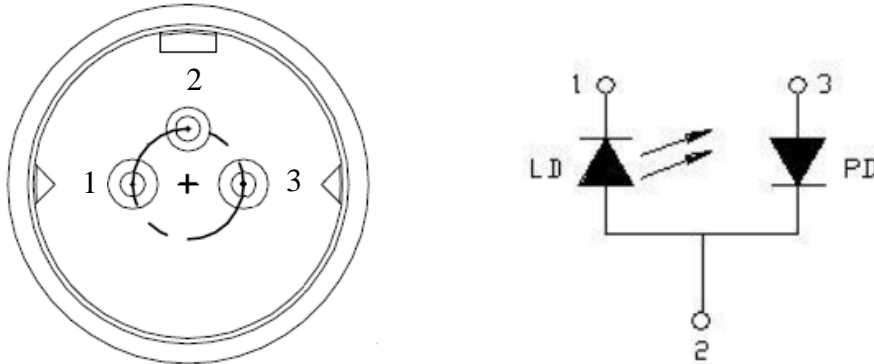
E-MAIL: Ldsales@arimalasers.com | www.arimalasers.com

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

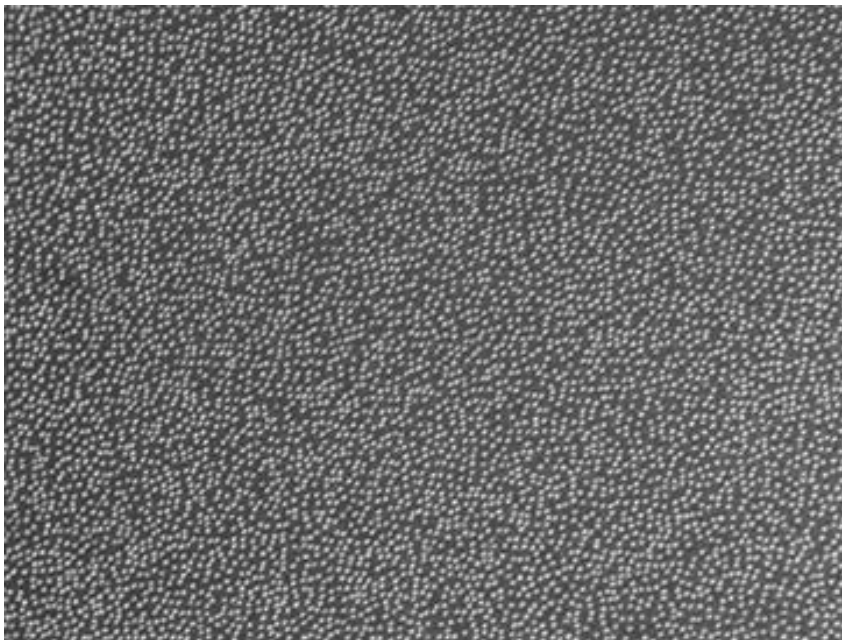
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### PIN Assignment:



### DOE Pattern



#### • 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.

#### ARIMA LASERS CORP.

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