

Infrared APC Laser Module

AML-R065-940XXX-01

6-2D-LM90-001_Rev.00

Φ6.5mm 940nm Laser Module

Features

High quality Random pattern DOE
Random Dot >30,000



Absolute maximum ratings

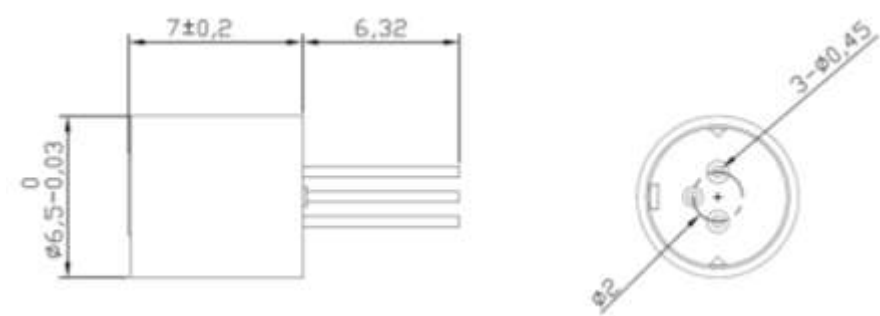
Parameter	Symbol	Rating	Unit
Laser Module optical output power	P _o	160	mW
Reverse voltage (PD)	V _{RL}	0	V
Reverse voltage (PD)	V _{RD}	30	V
Forward current (PD)	I _{FD}	10	mA
Operation temperature	T _c	-10~50	°C
Storage temperature	T _s	-40~85	°C

Electrical and optical characteristics (T_c=25 °C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Wavelength	λ	930	940	950	nm	P _o = 150mW
Threshold current	I _{th}	-	45	65	mA	
Optical output power	I _{op}		300	350	mA	P _o =150mw
Operation voltage	V _{op}		2		Volt	P _o =150mw
Monitor current	I _m	0.5	1.7	2.15	mA	P _o =150mw V _{RD} =5V
Random Dot		>30,000				
Field Of View		(H)70° x (V)55°				
Image Ratio		4:3				

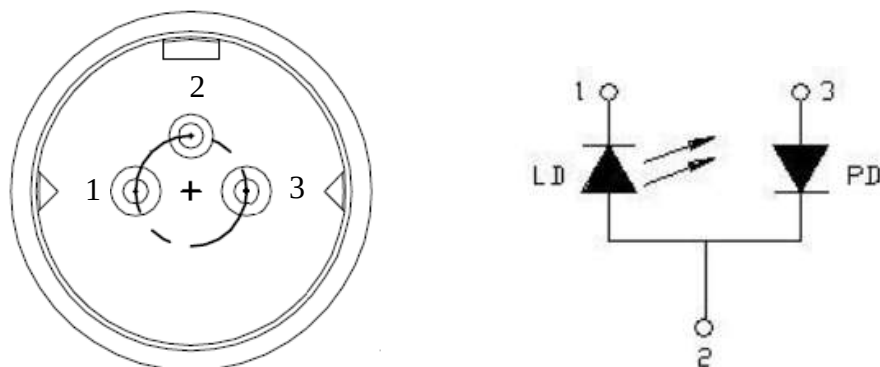
* Sufficient heat dissipation is required for CW operation.

Outline dimensions (Units : mm)

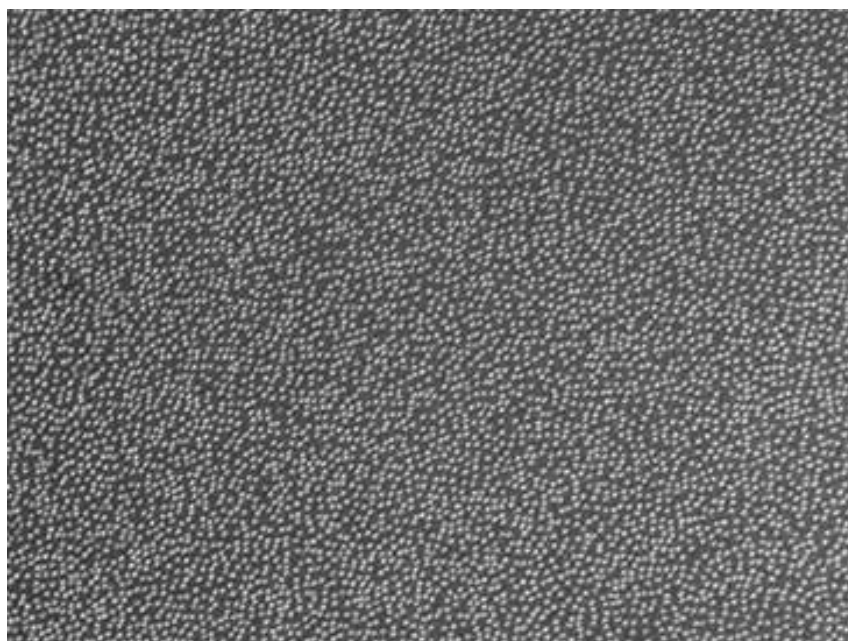


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PIN Assignment :



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.

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

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

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