Infrared APC Laser Module AML-R090-940XXX-02

6-2D-LM90-004_Rev.00

Φ9.0mm 940nm Laser Module With Random Dots Pattern

Features

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

Absolute maximum ratings

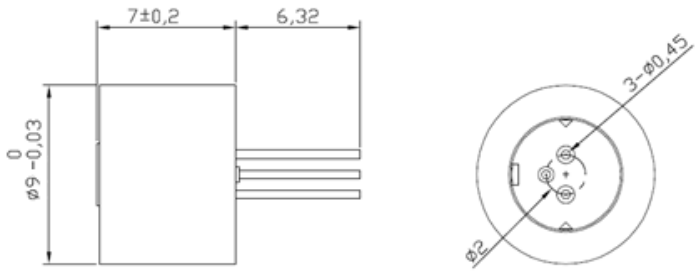
Parameter	Symbol	Rating	Unit
Laser Module Optical Output Power	Po	160	mW
Reverse Voltage (LD)	VRL	0	V
Reverse Voltage (PD)	VRD	30	V
Forward Current (PD)	IFD	10	mA
Operation Case Temperature	TC	-10~50	℃
Storage Temperature	Ts	-40~85	℃

Electrical and optical characteristics (T_c=25 °C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Wavelength	λ	930	940	950	nm	Po= 150mW
Threshold Current	Ith	-	45	65	mA	
Operation Current	Iop		300	350	mA	Po =150mw
Operation Voltage	Vop		2		Volt	Po =150mw
Monitor Current	Im	0.5	1.7	2.15	mA	Po =150mw VRD=5V
Random Dot	>15,000					
Field Of View (Diagonal)	(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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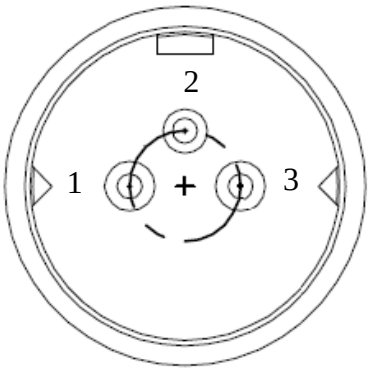
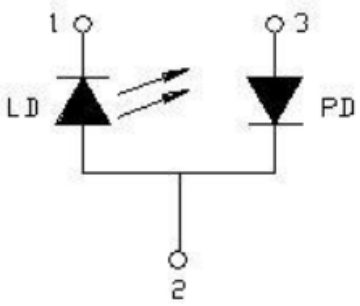
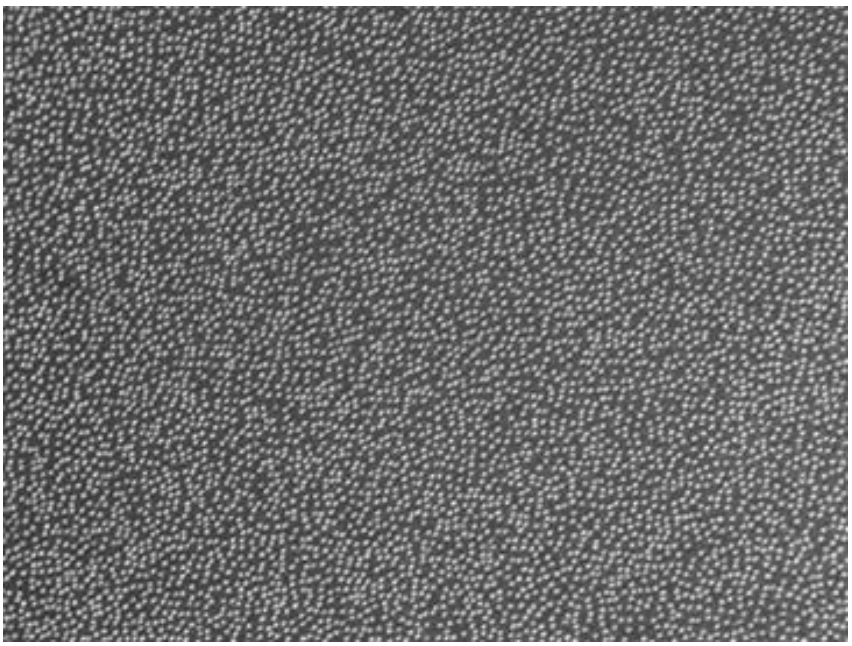
PIN Assignment:





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.

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