6-2D-LM83-002 Rev.00

Ф9.0mm 830nm Laser Module With Random Dots Pattern

Features

Power set by user High quality Random pattern DOE Random Dot >30,000



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

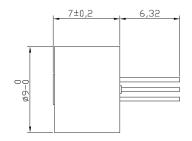


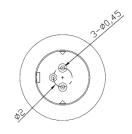
Electrical and optical characteristics (T_c=25 °C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Wavelength	λ	-	830	-	nm	Po= 150mW
Threshold Current	Ith	-	65	80	mA	
Operation Current	lop		260	350	mA	Po =150mw
Operation Voltage	Vop		2	2.4	Volt	Po =150mw
Monitor Current	lm	0.4	1.7	2.15	mA	Po =150mw VRD=5V
Random Dot	>30,000					
Field Of View(FOV)	80°					
Image Ratio(Diagonal)	4:3					

Sufficient heat dissipation is required for CW operation.

Outline dimensions (Units: mm)







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

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

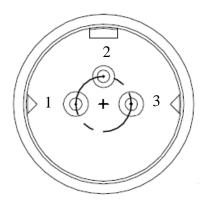


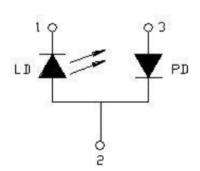


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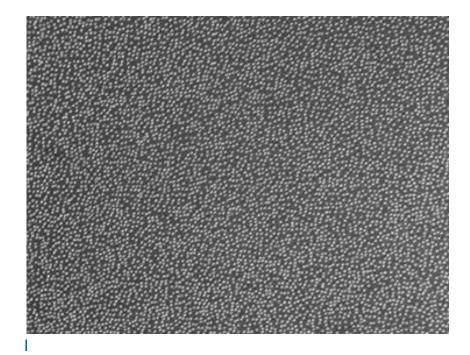
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PIN Assignment:





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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