

GDL-8-0100-LNH-00-B


Key Features:

Mini Size
 Low Cost
 Low Noise
 High Power
 High Stability
 Auto Power Control Function
 High Reliability

Applications:

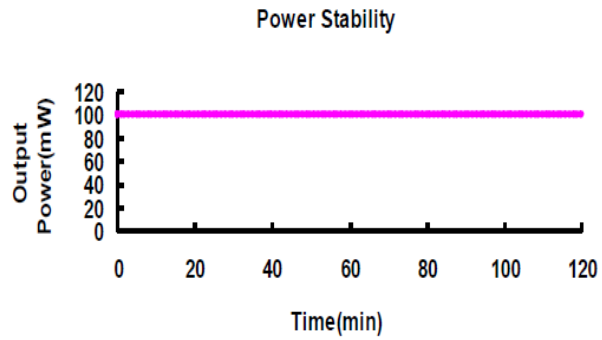
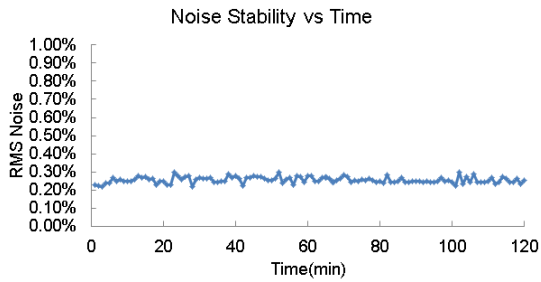
Biotechnology
 Laser Display
 Laser Printing
 Surveying Equipment

Model Number		GDL-8-0100-LNH-00-B			
Optical Parameters		Specs			Conditions
		Min	Typ	Max	
Wavelength		531nm	532nm	533nm	
Output Power		75mW	100mW	125mW	
Power Stability		-	+/-1%	+/-5%	APC, 2hours @ Constant Temp
Operating Temperature (Case)		Recommended temperature of data sheet			Within 20~40°C
Residual IR		-	-	1.0%	
Beam Diameter (At Output Window)			0.2mm		
Beam Divergence (Full Angle, 1/e ²)		-	7mrad	10mrad	
Roundness		80%	90%	100%	
M-Square		-	1.2	1.6	
RMS Noise(20Hz~4MHz)		-	0.30%	0.50%	At recommended temperature
Polarization Extinction Ratio		100:1	-	-	
Electrical Parameters					
LD Working Current		-	1300mA	2500mA	100mW at recommended temperature
LD Working Voltage		1.9V	2.2V	2.5V	
Monitor Current		320uA	700uA	1250uA	100mW at recommended temperature
GDL Power Consumption		-	2.86W	6.25W	
Mechanical Parameters					
Laser Head Dimensions	Length	22.0	22.2mm	22.4mm	
	Diameter	11.98mm	12.00mm	12.02mm	
Beam Alignment Tolerance	Off-axis Angle		10mrad	17.5mrad	
	Position(Δr)		0.2mm	0.3mm	
Laser Weight			5.8g		
Reliability					
Storage Humidity		5%~85% R.H ^①			
Storage Temperature		-40 to +85 °C			
Shock		1500g, 0.5ms, 6 shocks, 3 axes, 2 shocks/axis			
Vibration		20~2000Hz, 0.02g ² /Hz, 3 axes, 1hr/axis			

Expected Lifetime (MTTF)	10000hrs	-	-	@Rated Power & Room Temp.
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Note: ① Non-condensing

Typical Output Performance



Dimensions and Pin Configuration (Unit: mm)

