

## GDL-8-0050-WTB-PL-A


**Key Features:**

Mini Size  
 Mode Hopping Suppression  
 Low Cost  
 Auto Power Control Function  
 High Reliability

**Applications:**

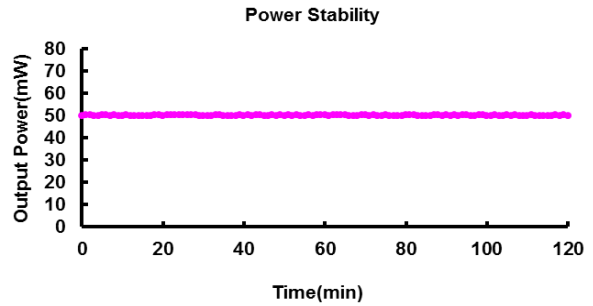
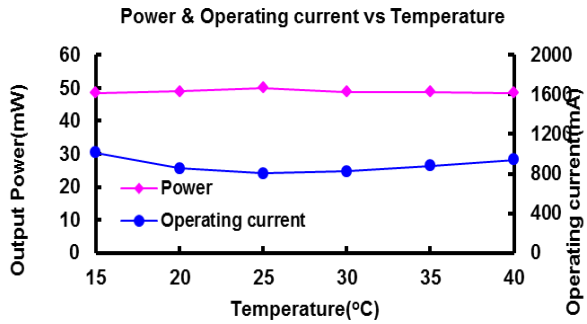
Biotechnology  
 Laser Display  
 Laser Printing  
 Surveying Equipment

Model Number		GDL-8-0050-WTB-PL-A			
Optical Parameters		Specs			Conditions
		Min	Typ	Max	
Wavelength		531nm	532nm	533nm	
Output Power		40mW	50mW	60mW	
Power	2hours @ Constant Temp	-	+/-2%	+/-5%	APC
Stability	Over Operating Temp Range	-	+/-10%	+/-25%	
Operating Temperature (Case)		15~+40 °C	-	-	APC
Residual IR		-	-	1.0%	
Beam Diameter (At Output Window)			0.2mm		
Beam Divergence (Full Angle, 1/e <sup>2</sup> )		-	7mrad	10mrad	
Roundness		70%	85%	100%	
M-Square		-	1.1	1.2	
Electrical Parameters					
LD Working Current		-	800mA <sup>①</sup>	1400mA	
LD Working Voltage		1.9V	2.2V	2.5V	
Monitor Current		100uA	350uA	800uA	
GDL Power Consumption		-	1.76W <sup>①</sup>	3.5W	
Mechanical Parameters					
Laser Head Dimensions	Length	-	22.2mm	22.7mm	
	Diameter	12.00mm	12.01 mm	12.05mm	
Beam Alignment Tolerance	Off-axis Angle		7mrad	10mrad	
	Position(Δr)		0.2mm	0.3mm	
Laser Weight			5.6g		
Reliability					
Storage Humidity		5%~85% R.H. <sup>③</sup>			
Storage Temperature		-40 to +85 °C			
Shock		1500g, 0.5ms, 6 shocks, 3 axes, 2 shocks/axis			
Vibration		20~2000Hz, 0.02g <sup>2</sup> /Hz, 3 axes, 1hr/axis			
Expected Lifetime (MTTF)		10000hrs	-	-	@50mW & 25 °C

 Note: <sup>①</sup>Tcase=25°C & P=50mW.

<sup>②</sup>Non-condensing

### Typical Output Performance



### Dimensions and Pin Configuration (Unit: mm)

