

GDL-8100


Key Features:

Mini Size
 Low Cost
 Auto Power Control Function
 High Reliability

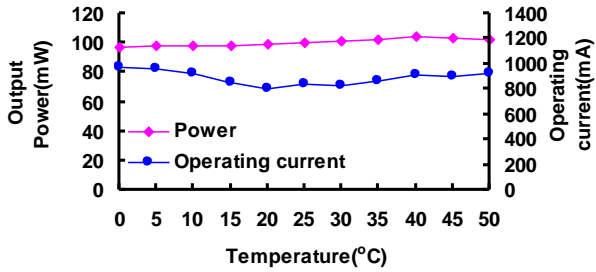
Applications:

Laser Display
 Surveying Equipment
 Laser Alignment & Pointing

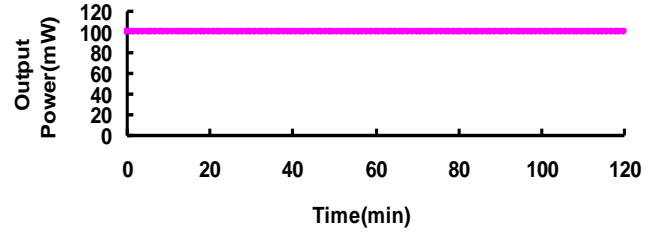
Model Number		GDL-8100			
Optical Parameters		Specs			Conditions
		Min	Typ	Max	
Wavelength		531nm	532nm	533nm	
Output Power		75mW	100mW	125mW	
Power Stability	2hours @ Constant Temp	-	+/-2%	+/-5%	APC
	Over Operating Temp Range	-	+/-10%	+/-25%	
Operating Temperature (Case)		20~+30 °C	-	5~+45 °C	APC
Residual IR		-	-	0.2%	
Beam Diameter		-	0.2mm	-	At output window
Beam Divergence		-	7mrad	10mrad	Full angle, 1/e ²
Roundness		70%	85%	100%	
M-Square		-	1.2	1.6	
Electrical Parameters					
LD Working Current		-	800mA	1400mA	
LD Working Voltage		1.9V	2.1V	2.5V	
Monitor Current		0.32mA	0.7mA	1mA	100mW @ 25 °C
GDL Power Consumption		-	1.7W	3.5W	
Mechanical Parameters					
Laser Head Dimensions	Length	-	22.2mm	22.7mm	
	Diameter	12.00mm	12.01mm	12.05mm	
Beam Alignment Tolerance	Position(Δr)	-	0.2mm	0.3mm	
	Angle	-	10mrad	17.5mrad	
Laser Weight		-	5.6g	-	
Reliability					
Operating Humidity		-	5%~85% R.H.	-	
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)		5000hrs	-	-	Room temperature

Typical Output Performance

Power & Operating current vs Temperature



Power Stability



Dimensions and Pin Configuration (Unit: mm)

