

GDL-8-0500-WT


Key Features:

High Power
 Mini Size
 Auto Power Control Function
 Mode-hopping Suppression
 High Reliability

Applications:

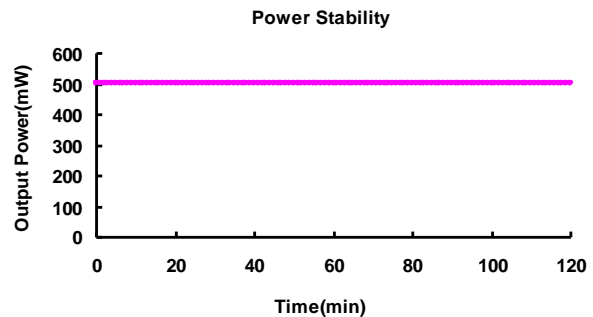
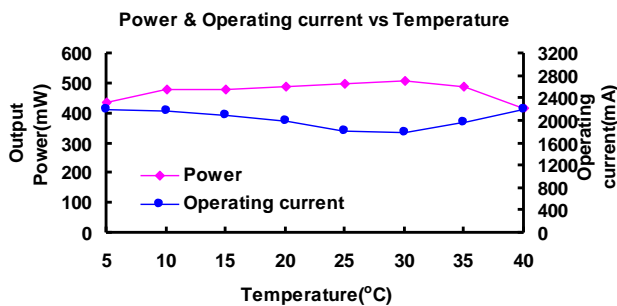
Laser Display
 Surveying Equipment
 Laser Alignment & Pointing

Model Number		GDL-8-0500-WT			
Optical Parameters		Photop Specs			Conditions
		Min	Typ	Max	
Wavelength		531nm	532nm	533nm	
Output Power		375mW	500mW ^①	625mW	Output power may be close to 375mW at 5°C & 40°C
Power Stability	2hours@ Constant Temp	-	-	TBD	
	Over Operating Temp Range	-	+/-20%	+/-25%	
Operating Temperature (Case)		10-40°C	-	-	APC
Residual IR		-	-	0.2%	
Beam Divergence		-	12mrad	20mrad	Full angle, 1/e ²
Roundness		70%	-	-	
M-Square		-	2.5	3	
Polarization Extinction Ratio		150:1	-	-	
Electrical Parameters					
LD Working Current		-	1900mA ^②	2200mA	
LD Working Voltage		-	2.2V ^③	2.6V	
Monitor Current		1600uA	3200uA	4000uA	500mW @ 25 °C
GDL Power Consumption		-	4.2W ^④	5.7W	
Warm Up Time		1second	-	1 minute	Lower temperature, longer warm up time

Mechanical Parameters					
Laser Head Dimensions	Length	-	22.3mm	22.8mm	
	Diameter	12.00mm	12.01mm	12.05mm	
Beam Alignment Tolerance	Position(Δr)	-	0.2mm	0.3mm	
	Angle	-	10mrad	17.5mrad	
Laser Weight		-	5.7g	-	
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)		TBD			Room temperature

①②③④
 500mW @25°C

Typical Output Performance



Dimensions and Pin Configuration (Unit: mm)

