

GDL-A-0050-WTA


Key Features:

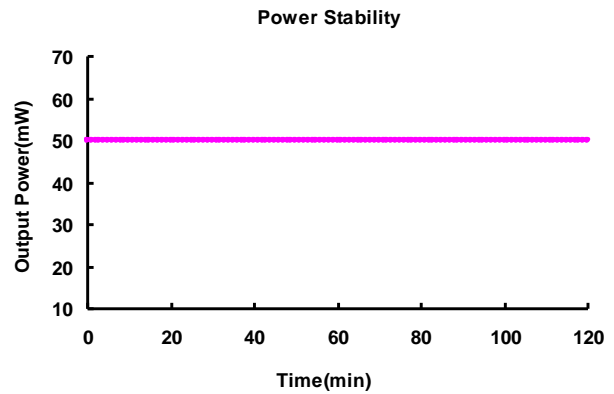
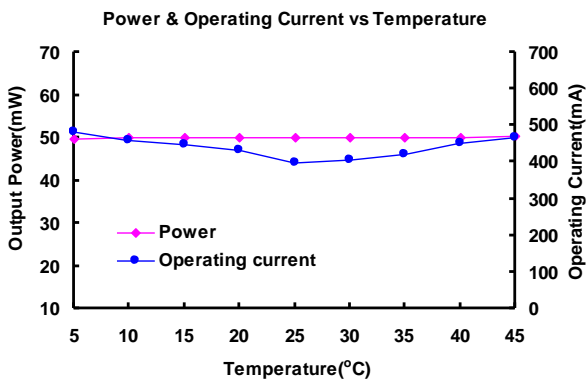
High Reliability
 Compactable size
 Auto Power Control
 Low Power Consumption
 Wide Operating Temperature

Applications:

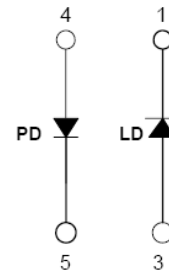
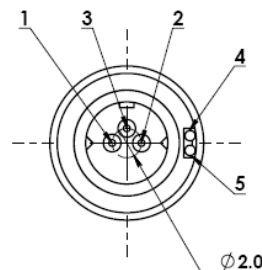
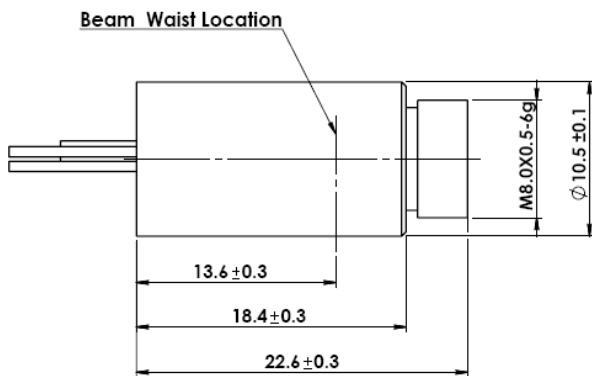
Surveying Equipment
 Laser Alignment & Pointing

Model Number		GDL-A-0050-WTA			
Optical Parameters		Photop Specs			Conditions
		Min	Typ	Max	
Wavelength		531nm	532nm	533nm	
Output Power		47.5mW	50mW	52.5mW	At 25 °C
Power Stability	2hours @ Constant Temp	-	-	+/-5%	APC
	Over Operating Temp Range	-	-	+/-25%	
Operating Temperature (Case)		5~+45 °C	-	-	APC
Residual IR		-	-	1%	
Beam Diameter		-	-	0.2mm	At output window
Beam Divergence		-	7.5mrad	9.5mrad	Full angle, 1/e ²
Roundness		70%	80%	100%	
M-Square		-	1.2	1.4	
Electrical Parameters					
LD Working Current		-	-	700mA	5~45 °C
LD Working Voltage		1.6V	1.9V	2.2V	
Monitor Current		200uA	-	700uA	
GDL Power Consumption		-	-	1.54W	5~45 °C
Mechanical Parameters					
Laser Head Dimensions	Length	22.3mm	22.6mm	22.9mm	
	Diameter	10.4mm	10.5mm	10.6mm	
Beam Alignment Tolerance	Position(Δr)	-	0.3mm	0.5mm	
	Angle	-	7mrad	20mrad	
Laser Weight		-	4.4g	-	
Reliability					
Operating Humidity		-	5%~85% R.H.	-	
Storage Temperature		-	-20 to +60 °C	-	
Shock		-	1000g, 1ms, 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



Dimensions and Pin Configuration (Unit: mm)



Pin Configurations : 1. LD- 2. None 3. LD+
 4. PD+ 5. PD-