

## GDLM-MA-0050-WTA-10-00-A


**Key Features:**

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

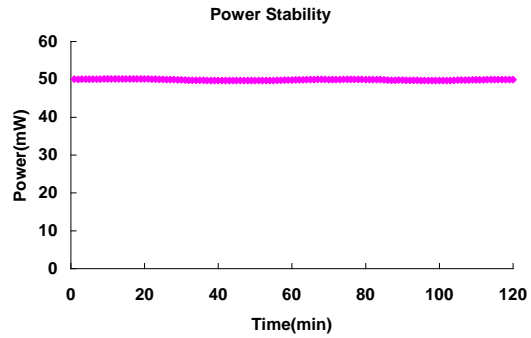
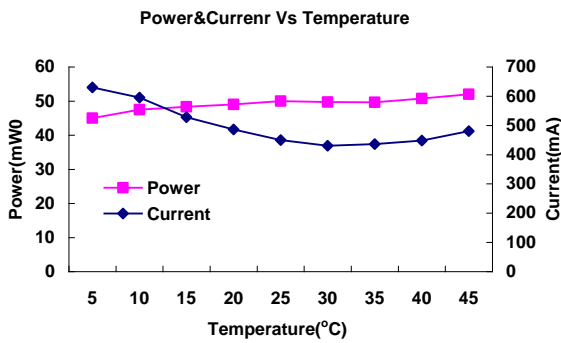
**Applications:**

Laser Alignment & Pointing  
 Surveying Equipment

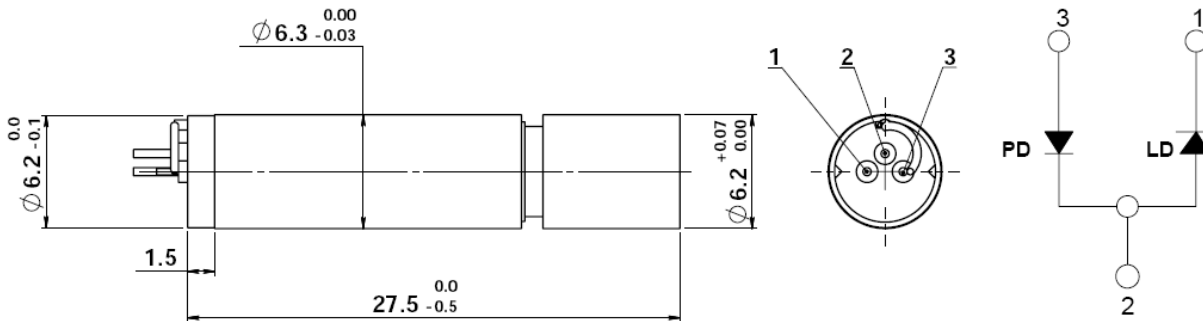
Model Number		GDLM-MA-0050-WTA-10-00-A			
Optical Parameters		Photop Specs			Conditions
		Min	Typ	Max	
Wavelength		531nm	532nm	533nm	
Output Power		1.7mW 37.5mW	2.3mW 50mW	2.9mW 62.5mW	At 25°C
Power Stability	2hours @ constant temp	-	+/-2%	+/-5%	APC
	Over Operating Temp Range	-	+/-10%	+/-25%	
Operating Temperature (Case)		5~45°C	-	-	APC
Residual IR		-	-	1%	
Beam Diameter		-	-	15mm	At 10m, 1/e <sup>2</sup>
Beam Divergence		-	-	1.5mrad	Full angle, 1/e <sup>2</sup>
Beam Roundness		70%	80%	100%	
Warm Up Time		-	-	1s	5~45°C
Electrical Parameter (Without circuit)					
LD Working Current		-	450mA <sup>①</sup>	700mA	
LD Working Voltage		-	2.0V	2.2V	
Monitor Current		11uA	58uA	115uA	2.3mW @ 25°C
		250uA	1250uA	2500uA	50mW @ 25°C
GDLM Power Consumption		-	0.9W <sup>③</sup>	1.54W	
Mechanical Parameters					
Laser Head Dimensions	Length	-	-	27.5mm	
	Diameter	-	-	6.3mm	
Beam Alignment Tolerance	Position(Δ r)	-	-	0.7mm	
	Angle	-	-	17.5mrad	
Reliability					
Storage Temperature		-	-40 to +85°C	-	
Shock		-	1500g,0.5ms,6 shock	-	3 axes, 2 shocks/axis
Vibration		-	20~2000Hz, 0.02g <sup>2</sup> /Hz	-	3 axes, 1hr/axis
Expected Lifetime(MTTF)		5000hrs	-	-	Room Temperature

①50mW at 25 °C

### Typical Output Performance



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



Pin Configurations : 1. LD - 2. LD + ,PD- 3.PD+ (Green cable)