

## GDLM-T-0050-WTA-07


**Key Features:**

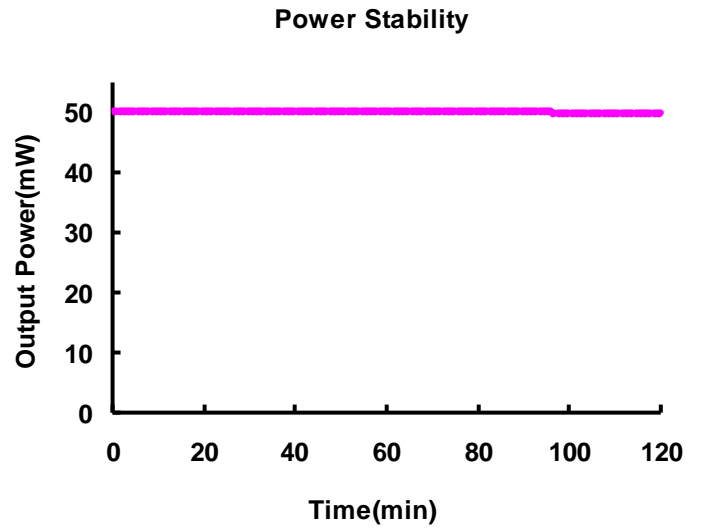
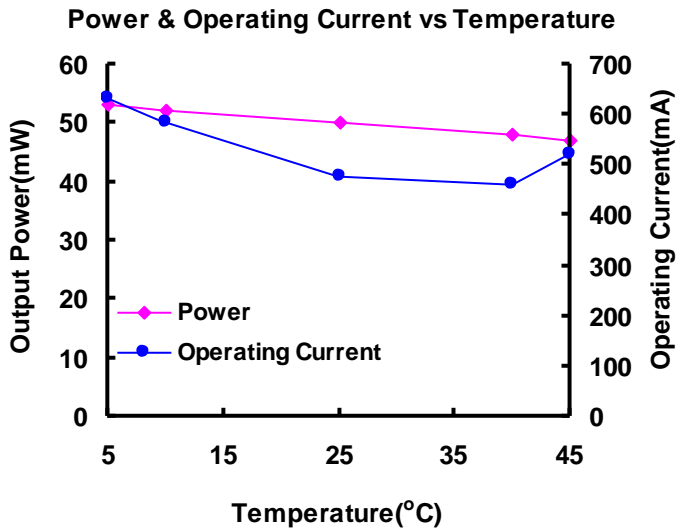
Mini Size  
 High Reliability  
 Low Power Consumption  
 Internal PD for Green Laser  
 Wide Operating Temperature  
 Mode-hopping Suppression

**Applications:**

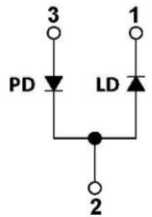
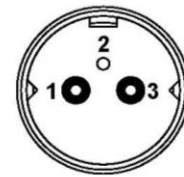
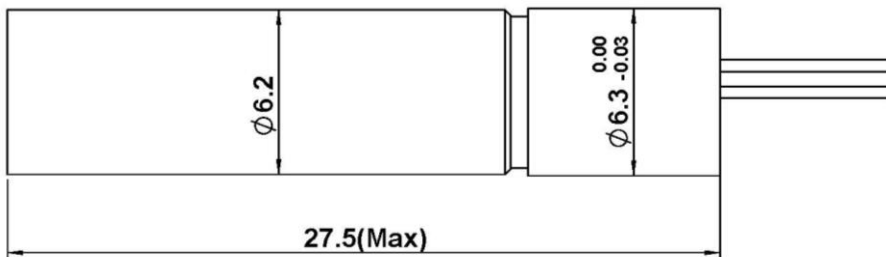
Laser Alignment & Pointing  
 Surveying Equipment

Model Number		GDLM-T-0050-WTA-07			
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
Laser Power Stability	2hours @ constant temp	-	+/-2%	+/-5%	APC Warm-up time<1s
	Over Operating Temp Range	-	+/-10%	+/-25%	
Operating Temperature (Case)		5~+45 °C	-	-	APC
Residual IR		-	-	1.0%	
Beam Diameter		-	-	15mm	At 10m
Beam Divergence		-	-	1.5mrad	Full angle
Beam Roundness		70%	80%	100%	
Warm Up Time		-	-	1s	
Electrical Parameter					
LD Working Current		-	450mA	700mA	APC at 50mW
LD Working Voltage		1.9V	2.0V	2.2V	
Monitor Current		9uA	19uA	69uA	2.3mW @ 25°C
		250uA	470uA	1500uA	50mW @ 25°C
GDLM Power Consumption		-	0.9W	1.54W	
Mechanical Parameters					
Laser Head Dimensions	Length	-	-	27.5mm	
	Diameter	-	-	6.3mm	
Beam Alignment Tolerance	Position( $\Delta r$ )	-	-	0.7mm	
	Angle	-	-	17.5mrad	
Laser Weight		-	3.4g	-	
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

## Typical Output Performance



## Dimensions and Pin Configuration (Unit: mm)



**PIN Configuration: 1. LD- 2. COM\* 3. PD+**  
Note: COM\* LD+ & PD-