



GLD-A050

Key Features:

- Mini Size
- Low Cost
- High Reliability
- Internal PD for Green Laser
- Wide Operating Temperature

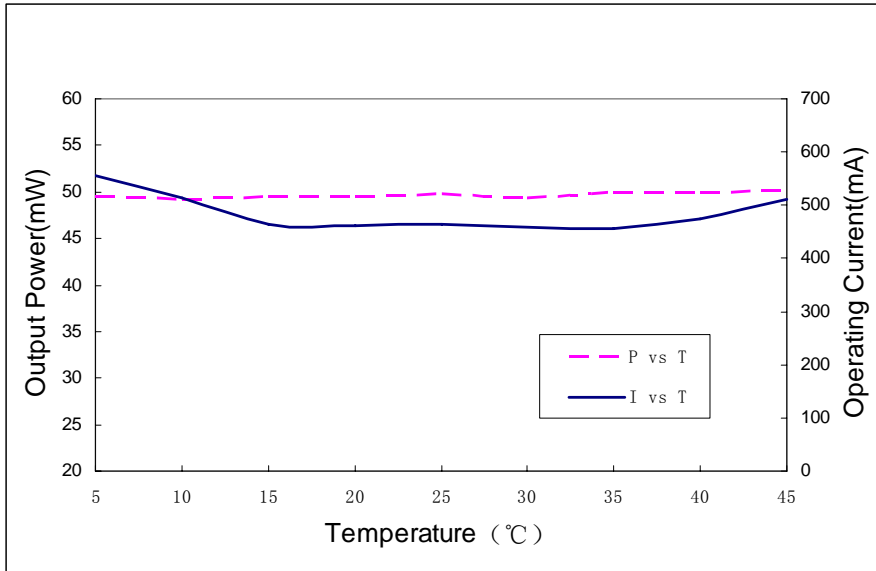
Applications:

- Laser Aiming
- Surveying Equipments
- Laser Alignment & Pointing

Model Number		GLD-A050	
Optical Parameters		Specs	Conditions
Wavelength		532+/-1nm	
Output Power		50mW	At 25 deg C
Power Stability	APC Over 2hours @ constant temp	+/-5%	After warm up
	Over Operating Temp range	+/-25%	
Operating Temperature (Case)		5~45 deg C (Grade A) 10~40 deg C (Grade B) 20~30 deg C (Grade C)	Working temperature range APC Mode
Residual IR		<0.5%	
Beam Diameter		0.2mm	At output window
Beam Divergence (Typ)		7.5mrad	Full angle, 1/e ²
Beam Mode Quality		<1.4	
Roundness		>70%	
Polarization Extinction Ratio		>100:1	
Electrical Parameters			
Laser Operating Mode		APC	
LD Working Current		<700mA	
LD Working Voltage		<2.3V	
Photo Diode		200~700uA	
Mechanical Parameters			
Laser Head Dimensions		Length: 17.6mm	
		Diameter: 10.5mm	
Beam Alignment	Position(Δr)	<0.5mm	
Tolerance	Angle	<20mrad	
Reliability			
Operating Humidity		5%~85% R.H.	
Storage Temperature		-20 to +60 deg C	
Shock		1000g, 1ms, 6 shock	
Vibration		20~2000Hz, 0.02g ² /Hz	
Expected Lifetime (MTTF)		>5000hrs	

Temperature Performance

Typical Output Performance



Mechanical Drawing

