



## GDL-T-0050-WT

### Key Features:

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

### Applications:

Laser Aiming  
Surveying Equipments  
Laser Alignment & Pointing

Model Number		GDL-T-0050-WT	
Optical Parameters		Photop Specs	Conditions
Wavelength		532+/-1nm	
Output Power		50mW	At 25 deg C
Power	2hours @ constant temp	+/-5%	APC
Stability	Over Operating Temp range	+/-25%	Warm-up time <1s
Operating Temperature (Case)		5~45 deg C (Grade A) 10~40 deg C (Grade B) 20~30 deg C (Grade C)	APC
Residual IR		<1%	
Beam Diameter		0.2mm	At output window
Beam Divergence (Typ)		<9mrad	Full angle, 1/e <sup>2</sup>
Roundness		>70%	
Electrical Parameters			
LD Working Current		<700mA	
LD Working Voltage		<2.3V	
Monitor Current		375~1375uA	@ 50mW
Mechanical Parameters			
Laser Head Dimensions	Length	13.6mm	
	Diameter	5.6mm	
Beam Alignment	Position( $\Delta r$ )	<0.3mm	
Tolerance	Angle	<17.5mrad	
Reliability			
Operating Humidity		5%~85% R.H.	
Storage Temperature		-40 to +85 deg 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



