



Wide Temperature Operating GDL Module



GDLM2000 series is wide temperature operating laser module without TEC needed . Its operating temperature range is wider than 40degrees . This outstanding performance is specially designed for outdoor application such as laser surveying; aiming and laser alignment . Internal photodiode is included for stabilizing output power. Compact design and low power consumption are both the advantages for OEM use.

Key Features:

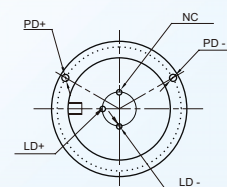
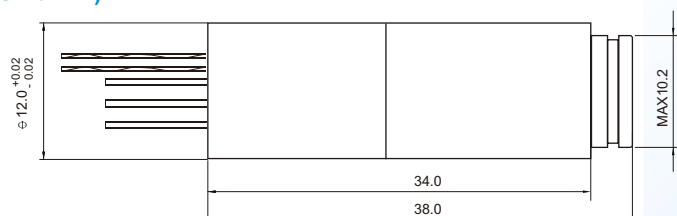
- Wide Temperature Operating(No TEC)
- Auto Power Control Function
- High Reliability
- Low Cost

Applications:

- Surveying Equipments
- Laser Alignment and Positioning
- Laser Aiming
- Machine vision

Specifications		GDLM-2005	GDLM-2020	GDLM-2050
Output Power (Typ)		5mW	20mW	50mW
Wavelength		532+/-1nm		
Beam Mode		TEM ₀₀		
Beam Diameter (1/e ²)		1.0+/-0.2mm		
Beam Divergence (Full Angle)		1.0+/-0.2mrad		
Mode Quality (M ²)		<1.4		
Beam Roundness		>80%		
Power Stability	APC, over 2hrs at Ambient temperature +/-2°C after warm up	<+/-5%		
	APC, over typical operating temperature range	<± 10%		
Beam Alignment Tolerance	Position (Δ r)	<0.5mm		
	Angle	<10mrad		
Linear Polarization		Unpolarized		
LD Operating Voltage		<2.5V		
LD Operating current (Over typical operating temperature range)		350mA	550mA	600mA
Operating Temperature	Typ	0~45°C	0~45°C	5~45°C
	Max	-10~50°C	-5~50°C	0~50°C
Operating Humidity		5%~95%		
Storage Temperature		-20~+60°C		
Residual IR		<0.2%		
Expected Operating Lifetime		>5000 hours		
Laser head Dimension		∅ 12*38mm		

Package Drawing (Unit:mm)



Bottom View