

GDL-A-0005-WTB-00


Key Features:

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

Applications:

Laser Display
 Surveying Equipment
 Laser Alignment & Pointing

Model Number		GDL-A-0005-WTB-00			
Optical Parameters		Specs			Conditions
		Min	Typ	Max	
Wavelength		531nm	532nm	533nm	
Output Power		4.5mW	5mW ^①	5.5mW	@25 °C
Power Stability	2hours @ Constant Temp	-	-	+/-5%	APC
	Over Operating Temp Range	-	-	+/-25%	
Operating Temperature (Case)		10~+40 °C	-	-	APC
Residual IR		-	-	1%	
Beam Diameter		-	-	0.2mm	@Output window
Beam Divergence		-	5.6mrad	7.6mrad	Full angle, 1/e ²
Roundness		70%	80%	100%	
M-Square		-	1.1	1.3	
Electrical Parameters					
LD Working Current		-	260mA ^②	400mA	
LD Working Voltage		1.6V	1.9V	2.2V	
Monitor Current		5uA	-	140uA	
GDL Power Consumption		-	0.49W ^③	0.88W	
Mechanical Parameters					
Laser Head Dimensions	Length	17.4mm	17.6mm	17.8mm	
	Diameter	10.4mm	10.5mm	10.6mm	
Beam Alignment Tolerance	Position(Δr)	-	0.3mm	0.5mm	
	Angle	-	7mrad	17.5mrad	
Laser Weight		-	6.4g	-	
Reliability					
Storage Humidity		-	5%~85% R.H. ^④	-	
Storage Temperature		-	-20 to +60 °C	-	
Shock		-	1000g, 1ms, 6 shocks	-	3 axes, 2 shocks/axis
Vibration		-	20~2000Hz, 0.02g ² /Hz	-	3 axes, 1hr/axis
Expected Lifetime (MTTF)		10000hrs	-	-	@5mW & 25°C

Note: ^①0.5~5mW is optional

^②5mW at 25 °C

^③5mW at 25 °C

