

GDLM-C-0005-MN-06


Key Features:

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

Applications:

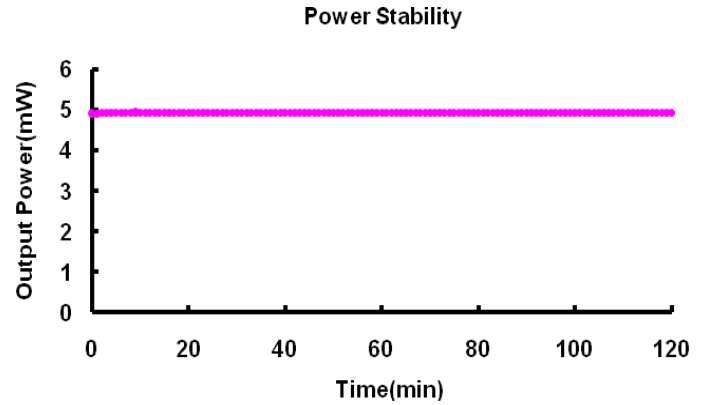
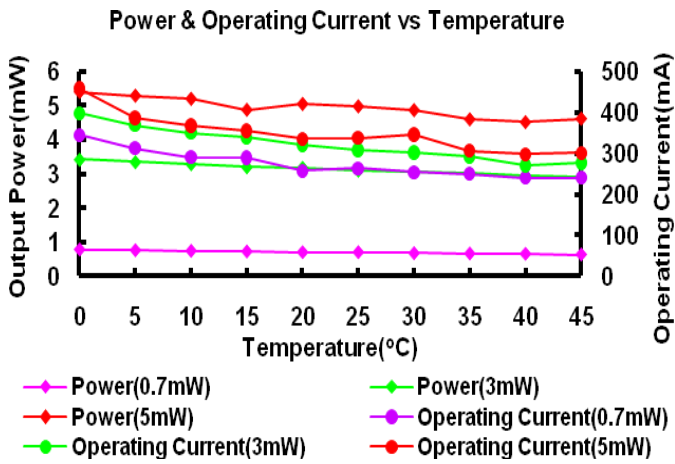
Laser Alignment & Pointing
 Surveying Equipment

Model Number		GDLM-C-0005-MN-06			
Optical Parameters		Photop Specs			Conditions
		Min	Typ	Max	
Wavelength		531nm	532nm	533nm	
Output Power		0.5mW 3.75mW	0.7mW 5mW ^①	0.9mW 6.25mW	At 25°C
Laser Power	2hours @ constant temp	-	+/-2%	+/-5%	APC
Stability	Over Operating Temp Range	-	+/-10%	+/-25%	
Operating Temperature (Case)		0~+45°C	-	-	APC
Residual IR		-	-	1.0%	
Beam Diameter		-	-	15mm	At 10m
Beam Divergence		-	-	1.5mrad	Full angle
Beam Roundness		70%	80%	100%	APC from 0.7mW to 5mW
Warm Up Time		-	-	1s	
Electrical Parameter (Without circuit)					
LD Working Current		-	300mA	500mA	APC from 0.7mW to 5mW
LD Working Voltage		1.9V	2.0V	2.2V	
Monitor Current		25uA	47uA	150uA	5mW @ 25°C
		3uA	6uA	21uA	0.7mW @ 25°C
GDLM Power Consumption		-	0.6W	1.1W	
Mechanical Parameters					
Laser Head Dimensions	Length	-	-	27.5mm	
	Diameter	-	-	6.3mm	
Beam Alignment Tolerance	Position(Δr)	-	-	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 ² /Hz	-	3 axes, 1hr/axis
Expected Lifetime(MTTF)		5000hrs	-	-	Room Temperature

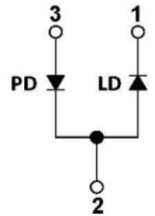
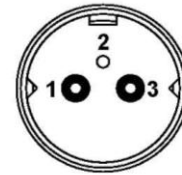
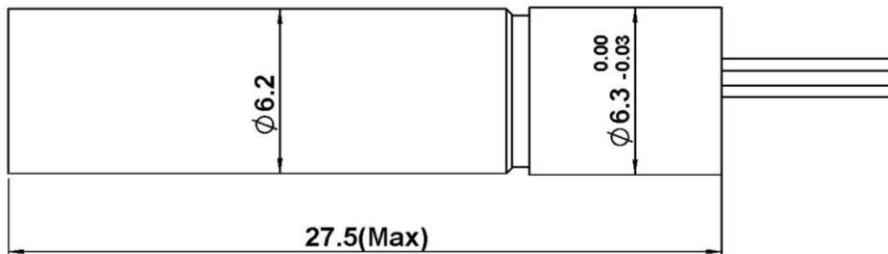
Note: ^①0.7~5mW is optional

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Typical Output Performance



Dimensions and Pin Configuration (Unit: mm)



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