

GDLM-T-0010-WTA-10-01


Key Features:

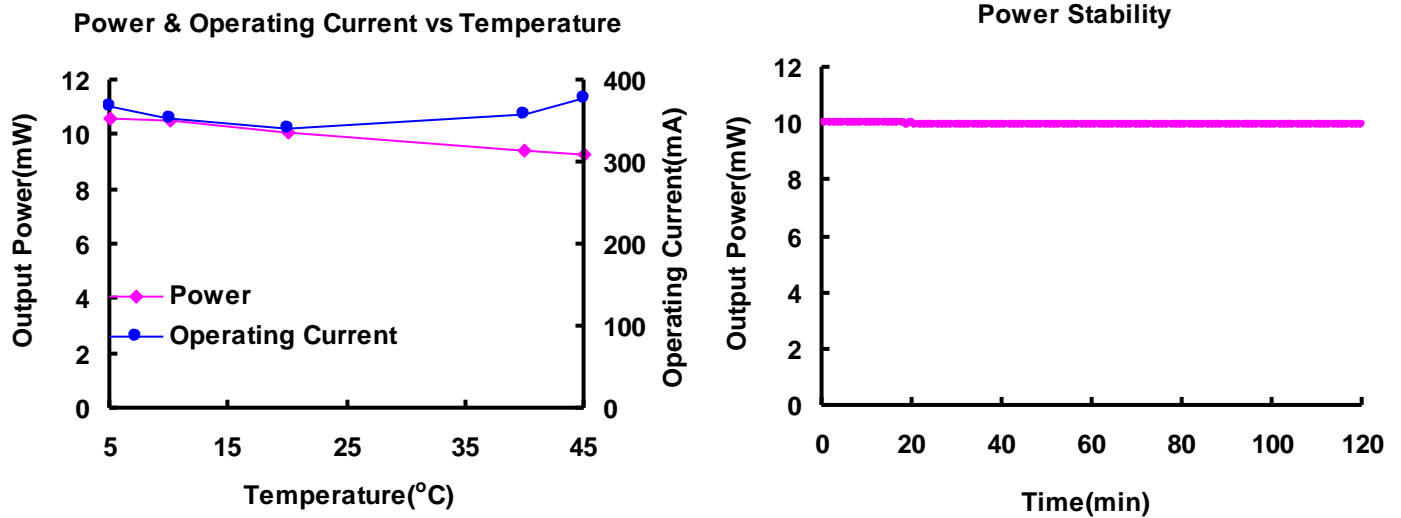
Mini Size
 High Reliability
 Low Power Consumption
 Internal PD for Green Laser
 Wide Operating Temperature
 Mode-hopping Suppression

Applications:

Laser Alignment & Pointing
 Surveying Equipment

Model Number		GDLM-T-0010-WTA-10-01			
Optical Parameters		Photop Specs			Conditions
		Min	Typ	Max	
Wavelength		531nm	532nm	533nm	
Output Power		3.75mW 7.5mW	5mW 10mW	6.25mW 12.5mW	At 25°C
Laser Power	2hours @ constant temp	-	+/-2%	+/-5%	APC from 5mW to 10mW
Stability	Over Operating Temp Range	-	+/-10%	+/-25%	
Operating Temperature (Case)		5~+45°C	-	-	APC
Residual IR		-	-	1.0%	
Beam Diameter		-	8mm	10mm	At 10m
Beam Divergence		-	0.8mrad	1.0mrad	Full angle@10mW
Beam Roundness		70%	80%	100%	APC from 5mW to 10mW
Warm Up Time		-	-	1s	From 5~45°C
Electrical Parameter (Without circuit)					
LD Working Current		-	315mA	500mA	At 10mW
LD Working Voltage		1.9V	2.0V	2.2V	
Monitor Current		50uA	94uA	300uA	10mW @ 25°C
		25uA	47uA	150uA	5mW @ 25°C
GDLM Power Consumption		-	0.63W	1.1W	
Mechanical Parameters					
Laser Head Dimensions	Length	-	-	36mm	
	Diameter	-	8.8mm	8.85mm	
Beam Alignment Tolerance	Position(Δr)	-	-	0.7mm	
	Angle	-	-	17.5mrad	
Laser Weight		-	7.45g	-	
Reliability					
Storage Temperature		-	-40 to +85°C	-	
Shock		-	1500g,0.5ms,6 shocks	-	3 axes, 2 shocks/axis
Vibration		-	20~2000Hz,0.02g ² /Hz	-	3 axes, 1hr/axis
Expected Lifetime(MTTF)		5000hrs	-	-	Room temperature

Typical Output Performance



Dimensions and Pin Configuration (Unit: mm)

