



GLD-9500

Key Features:

Compact
Wide Operating Temperature

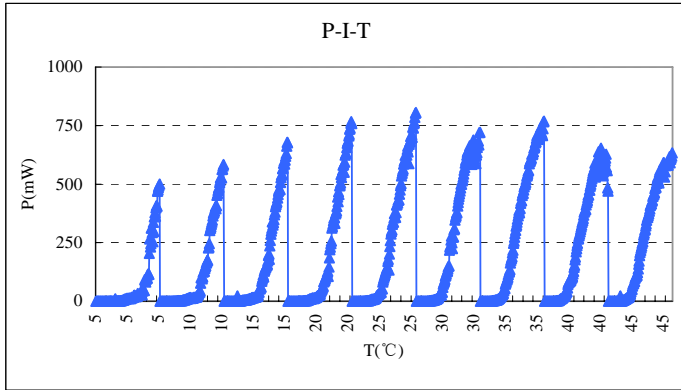
Applications:

Laser Aiming
Laser Entertainment

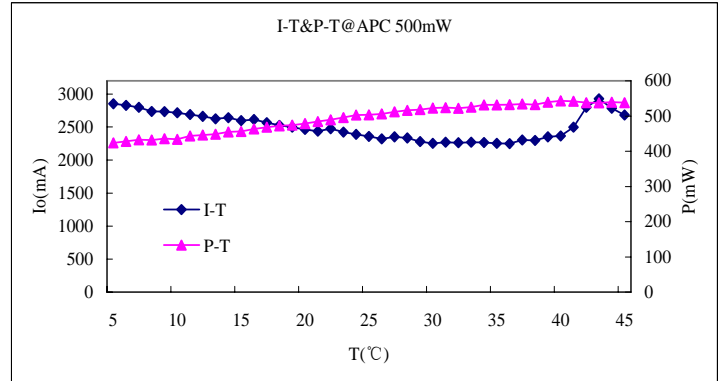
Model Number		GLD-90	
Optical Parameters		Specs	Conditions
Wavelength		532+/-1nm	
Output Power		500mW	At 25 deg C
Power Stability	APC Over 2hours @ constant temp	+/-5%	After warm up
	Over Operating Temp range	+/-15%	
Operating Temperature (Case)		50~45 deg C (Grade A) 10~40 deg C (Grade B) 20~30 deg C (Grade C)	Working temperature range APC Mode
Residual IR		<1%	
Beam Diameter		0.105+/-0.01 mm	At output window
Beam Divergence		5~10mrad	Full angle, 1/e ²
Beam Mode Quality		<3	
Electrical Parameters			
LD Working Current		<3000mA	
LD Working Voltage		<2.6V	
Photo Diode		Internal to laser package	
Mechanical Parameters			
Laser Head Dimensions		40*40*16mm ³ (L * W * H)	
Beam Direction Angle		<15mrad	
Reliability			
Storage Temperature		-40 to +80 deg C	
Shock		1500g, 1ms,6 shock	
Vibration		20~2000Hz, 0.02g ² /Hz,	3 axes, 1hr/axis
Expected Lifetime (MTTF)		>2000hrs	

Typical Performance

P-I-T of the GDL

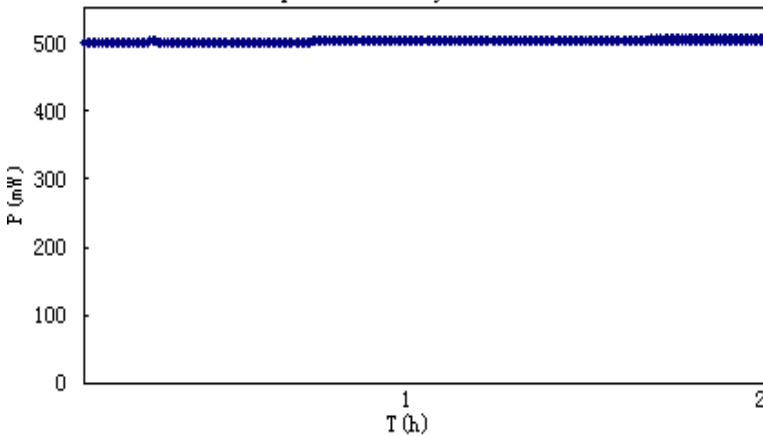


Current and Power vs. Temperature at APC Mode



2hrs Power Stability of the GDL(Tc=25°C)

2hrs power stability @ APC 500mW



Mechanical Drawing

