

GDLM-5020FLN


Key Features:

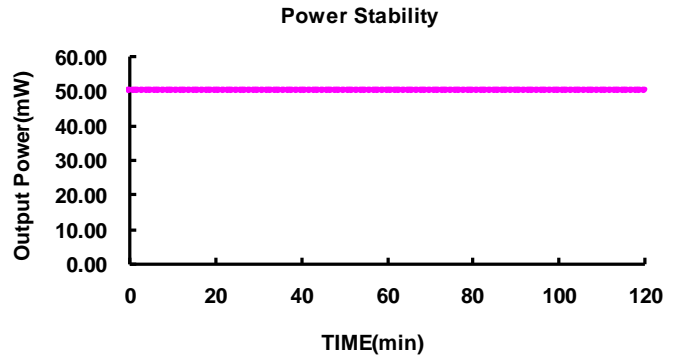
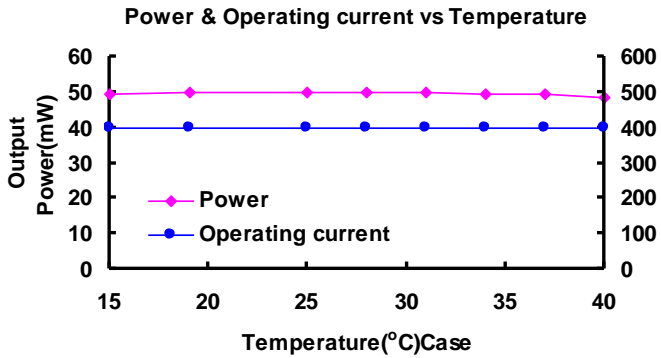
Low Cost
 Low Noise
 High Reliability
 High Power Stability
 Auto Power Control Function

Applications:

Laser Display
 Biotechnology
 Digital Printing
 Laser Scanning
 Material Inspection

Model Number		GDLM-5050FLN			
Optical Parameters		Specs			Conditions
		Min	Typ	Max	
Wavelength		531nm	532nm	533nm	
Output Power		-	50mW	-	
Power Stability	2hours @ Constant Temp	-	+/-1%	-	
Operating Temperature (Case)		-	15~40 °C	-	APC
RMS noise (20Hz~20MHz)		-	-	0.5%	
Residual IR		-	-	0.5%	
Beam Diameter		-	1.0mm	1.2mm	At output window
Beam Divergence		-	1.0mrad	1.2mrad	Full angle, 1/e ²
Roundness		85%	90%	100%	
M-Square		-	-	1.4	
Electrical Parameters					
LD Working Current		-	400mA	600mA	
LD Working Voltage		1.9V	2.2V	2.5V	
Monitor Current		300uA	500uA	750uA	50mW @ 25 °C
Warm Up Time		-	-	10minutes	At 40 °C
Mechanical Parameters					
Laser Head Dimensions	Length	-	100mm	105mm	
	Width	-	45mm	46mm	
	Height	-	45mm	48mm	
Beam Alignment Tolerance	Position(Δr)	-	-	1mm	
	Angle	-	-	10mrad	
Laser Weight		-	320g	-	
Reliability					
Operating Humidity		-	5%~85% R.H.	-	
Storage Temperature		-	-20 to +60 °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 (Unit: mm)

