



FGSM-G-50

Key Features:

Low Cost
 Mini Size
 High Reliability
 High Stability

Applications:

Laser Alignment
 Raman Spectrometer
 Biomedical Instrumentation
 Digital Printing

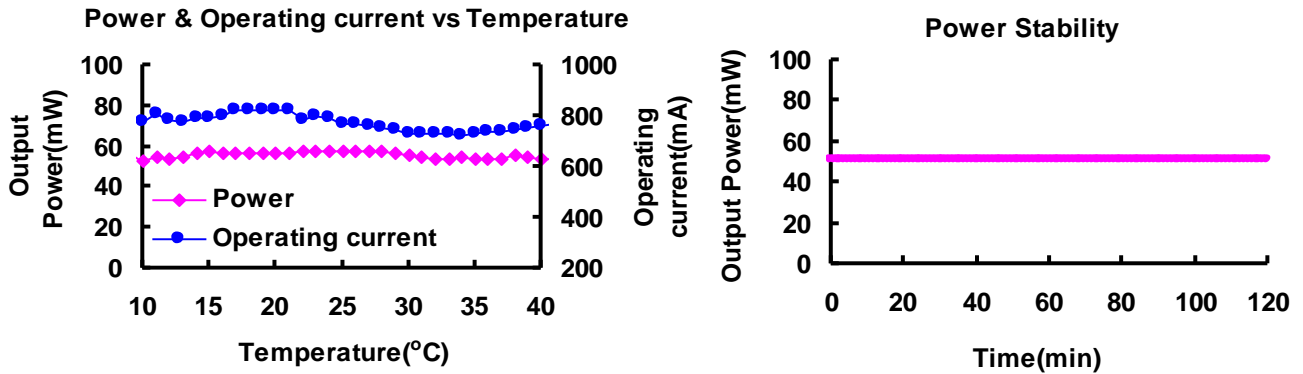
Model Number		FGSM-G-50			
Optical Parameters		Specs			Conditions
		Min	Typ	Max	
Wavelength		531nm	532nm	533nm	
Output Power		45mW	50mW ^①	60mW	At 25 °C
Power Stability	2hours @ Constant Temp	+/-0.5%	+/-1%	+/-5%	
	Over Operating Temp Range	+/-10%	+/-20%	+/-25%	
Operating Temperature (Case)		20~+30 °C	10~+40 °C	-	APC
M-Square		-	-	1.1	
Residual IR		-	-	0.5%	
Fiber Coupling Efficiency		60%	70%		
Electrical Parameters					
LD Working Current		-	800mA ^②	1400mA	
LD Working Voltage		1.9V	2.1V	2.5V	
Monitor Current		0.32mA	0.75mA	1.25mA	
Fiber Parameters					
Fiber Type		-	3.5/125μm SM Fiber	-	
Fiber Numerical Aperture		-	0.13	-	
Mechanical Parameters					
Laser Head Dimensions	Length	-	52mm	-	
	Diameter	-	15 mm	-	
Reliability					
Operating Humidity		-	5%~85% R.H.	-	
Storage Temperature		-	-40 to +85 °C	-	
Shock		150m/s ² , 6ms, semisinusoidal, 4000 shocks, z-axis 75m/s ² , 6ms, semisinusoidal, 1000 shocks, x,y-axis			
Vibration		Amplitude = ±0.75mm, 10 Hz to 57 Hz sinusoidal, 20 cycles per axis Acceleration 1g, 57 to 500 Hz sinusoidal, Sweep Rate 1 Oct/min			
Expected Lifetime (MTTF)		5000hrs	-	-	Room temperature

Note: ^①30~50mW is optional

^②50mW at 25 °C

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Typical Output Performance



FGSM-G-50-LL-JJ-TT

G: Operating Temperature Grade	B=10~40°C
	C=20~30°C
LL: Fiber Length	05=0.5M
	10=1M
	00= To be Customized
JJ: Fiber Jacket (diameter)	01= 900μm buffer
	02=2.8mm PVC Jacket
	00= To be Customized
TT: Fiber Termination	01=No Connector
	02= FC/APC Connector
	03= FC/PC Connector
	04=SMA Connector
	00= To be Customized

Dimensions and Pin Configuration (Unit: mm)

