

1.0 μm Fiber Laser

Features

- All-fiber technology.
- Up to 50w optical output power.
- 1060nm wavelength.
- CW or pulsed mode
- High output power stability.
- Maintenance free.
- Compact package.
- No water cooling.
- RS232 interface for local supervision.
- Collimator and Isolator are optional.

Applications

- Laser marking.
- LIDAR.
- Instrumentation.
- Sensing.

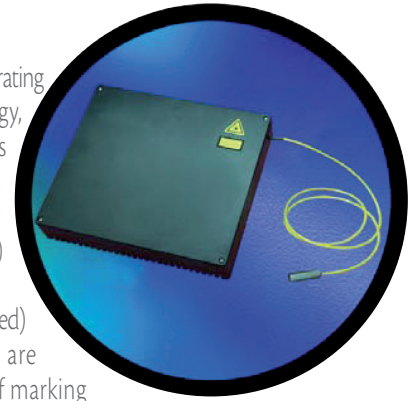
Fiber Laser

Description

GIP Technology FLM or FLU series are high-power fiber laser modules operating around 1.06μm wavelength. Based on proprietary all-fiber technology, they have been designed as a robust, compact, and reliable laser sources with actively air-cooled and maintenance free operation.



The flexible package (module or unit) and operational mode (CW or pulsed) of laser modules are useful in a variety of marking systems, military, research, and medical applications. With built-in controlled electronics, these laser modules can be effectively controlled and monitored by RS232 interface.



1.0 μm Fiber Laser CW Mode

Specifications

Optical Information		Unit	Description	
			FLM	FLU
Mode of Operation			CW	
Center wavelength		nm	1030 ~1100	
Emission bandwidth (FWHM)	Max.	nm	5	
Total Output Power	Max.	W	10	
Output Power Tunability		%	10 ~100	
Output Power Stability *	Max.	dB	±0.1	
Beam Quality (M ²)	Max.		1.2	
State of Polarization			Random	
Output			Connector or Collimator	
Electrical Information				
Power supply		V	+5, +12, +24 VDC	110 ~ 220 VAC
Control interface			RS-232	
Environmental Information				
Operating temperature		°C	0 ~ 50 (case)	0 ~ 35
Storage temperature		°C	-20 ~ 80	
Relative humidity (non-condense)		%	5 ~ 85	
Outline Information				
Physical dimension			19" or customerized	

* RMS, over 1h@25°C

1.0 μm Fiber Laser Pulsed Mode

Fiber Laser

Specifications

Optical Information		Unit	Description	
			FLM	FLU
Mode of Operation			Pulsed	
Center wavelength		nm	1064 \pm 5	
Emission bandwidth (FWHM)	Max.	nm	5	
Average Output Power	Max.	W	10	
Repetition Rate		kHz	10 ~ 100	
Pulse Width		ns	10 ~ 100	
Output Power Tunability		%	10 ~ 100	
Output Power Stability *	Max.	dB	\pm 0.1	
Beam Quality (M^2)	Max.		1.5	
State of Polarization			Random	
Output			Connector or Collimator	
Electrical Information				
Power supply		V	+5, +12, +24 VDC	110 ~ 220 VAC
Control interface			RS-232	
Environmental Information				
Operating temperature		$^{\circ}\text{C}$	0 ~ 50 (case)	0 ~ 35
Storage temperature		$^{\circ}\text{C}$	-20 ~ 80	
Relative humidity (non-condense)		%	5 ~ 85	
Outline Information				
Physical dimension			19" or customerized	

* RMS, over 1h@25 $^{\circ}\text{C}$