1.0 μm Fiber Laser

Features

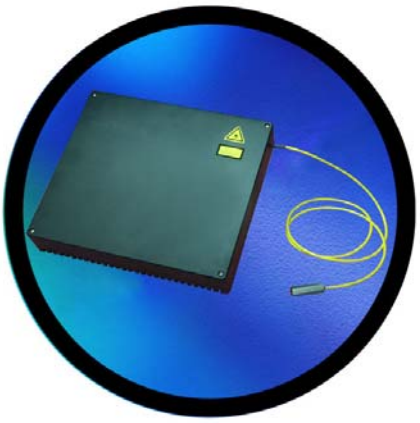
- All-fiber technology
- Up to 50W optical output power
- 1060nm wavelength
- CW or pulsed mode
- High output power stability
- Maintenance free
- Compact package
- No water cooling
- RS232 interface for local supervision
- Collimator and Isolator are optional

Applications

- Laser marking
- LIDAR
- Instrumentation
- Sensing

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.

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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	50	
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		℃	0 ~ 50 (case)	0 ~ 35
Storage temperature		℃	-20~80	
Relative humidity (non-condense)		%	5~85	
Outline Information				
Physical dimension			19” or Customerized	

* RMS, over 1h@25℃

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Specifications

Optical Information		Unit	Description	
			FLM	FLU
Mode of Operation			Pulsed	
Center Wavelength		nm	1064±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	±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
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