

Features

- * All-fiber technology
- * 1.5 μm eye-safe operation
- * Pulse energy up to 8 μJ
- * Near-diffraction-limited beam quality
- * Maintenance free
- * Optically isolated output ports to minimize system susceptibility due to connector reflections.
- * RS-232 interface for local supervision.

Applications

- * LIDAR
- * Detection system
- * 3D scanning
- * Supercontinuum generation
- * Telemetry
- * Fiber optics sensing
- * Test and measurement

Description

GIP Technology Nanosecond Erbium Fiber Laser Module (LAS-EFL-NS-00-M) is a wavelength of 1550nm, high pulse energy laser sources. Its energy per pulses up to 8 μJ is available with excellent beam quality. The pulse FLM can reduce the ASE under low repetition rate operation by modulation pump function.

The pulsed FLM not need water-cooling or replacement parts and

requires only a +24V DC power source to provide amplification for the low power signal. It can be used in the LIDAR, 3D scanning, non-linear optics as well as research and development (R&D) environments.

The compact, robust, and reliable package design is flexible and easy to be integrated with any complicated system. Via the friendly user-interface, the customer can quickly access and set all FLM data.



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Specifications

Optical Information		Unit	Description
Mode of operation			Pulsed
Operating wavelength	Normal	nm	1550
Output power* ¹	Max.	mW	400
Pulse repetition rate		kHz	50-100
Pulse energy* ¹	Max.	μJ	8
Peak power* ¹	Max.	kW	1
Pulse duration* ²		ns	4-10
Beam quality	Max.	M2	1.1
Polarization			Random or Linear
Power tunability		%	10 ~ 100
Seed tap			1M, FC/APC
Output termination			0.35M, FC/APC
Electrical Information			
Power supply voltage	Typ.	Volt	+24V
Control mode			ACC
External trigger			TTL3.3V
Sync. signal output			TTL signal
Connector			Male header with 20 pins
Environmental Information			
Ambient temperature		°C	10 ~ 35
Storage temperature		°C	-20 ~ 80
Relative humidity (non-condense)		%	5 ~ 85
Mechanical Information			
Dimension (W x L x H)		mm	200 x 150 x 40

*1. Saturated power, pulse energy, and pulse peak power are composed of optical signal and ASE power.

*2. Calculated by full width at half maximum (FWHM).