

Femtosecond Erbium Fiber Seed Laser Module

LAS-EFL-FS-00-M

Features

- * All-fiber technology
- * 1.5 μ m eye-safe operation
- * Alignment-free all-fiber setup
- * Optically isolated output ports to minimize system susceptibility due to connector reflections.
- * USB interface for local supervision

Applications

- * Metrology
- * Terahertz Time-Domain Spectroscopy
- * Nonlinear Optics
- * Seeding
- * Harmonic Imaging
- * Supercontinuum generation

Description

GIP Technology Femtosecond Erbium Fiber Seed Laser Module (LAS-EFL-FS-00-M) are highly stable, fully fiber-based femtosecond laser systems with excellent amplitude and frequency jitter parameters. Applications that benefit from the most stable, compact, and cost-effective FemtoFerb laser solutions include terahertz systems or metrology systems. The LAS-EFL-FS-00-M integrates laser optics and driving electronics into a single box, requiring only a 12V external power supply, making it an ideal fiber-coupled laser source for OEM integrators.



This laser source, through a user-friendly interface, allows customers to quickly access and configure all FFLM data.



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Specifications

Optical Information		Unit	Description
Mode of operation			Pulsed
Operating wavelength		nm	1560±10
Output power ^{*1}	Min.	mW	100
Pulse repetition rate ^{*2}		MHz	50 ~ 100
Pulse duration	Max	fs	200 (Typ. 150)
Polarization			Linear
Polarization extinction ratio	Min.	dB	20
Fiber type			PM Panda fiber, with 3mm cable
Connector			FC/APC
Electrical Information			
Operating voltage	Typ.	Volt	+12V
Control mode			ACC
Environmental Information			
Operating case temperature		°C	20 ~ 30
Storage temperature		°C	0 ~ 40
Relative humidity (non-condense)		%	5 ~ 85 (operating)
Cooling			Air FAN + heat sink cooling
User Interface Information			
Status supervisory, local			USB

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

*2. Pulse repetition rate is fixed