Erbium Doped Fiber Amplifier
CGB/EFA-PM Series, Polarization Maintaining EDFA

Features

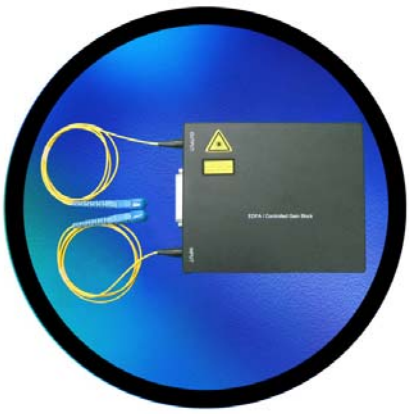
- Bit-rate transparency
- Wide operating wavelength range
- Stable saturated output power
- High PER
- Exceptionally low noise figure
- Optically isolated input and output ports to minimize system susceptibility due to connector reflections
- Input and output signal monitoring
- Front panel LCD display and status LED indicators for quick access of unit's status
- RS-232 for local supervision

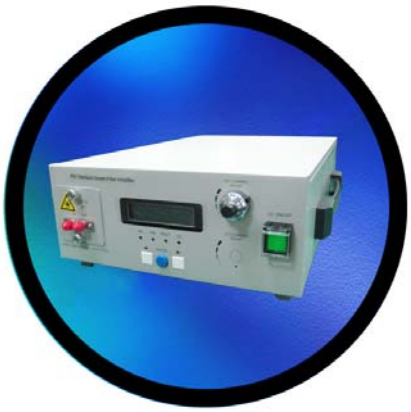
Applications

- Ultra high speed transmission systems
- Wide band PM transmission systems
- Test and instrument measurements
- Optical sensor
- Lab research

Description

GIP Technology PM-series Polarization Maintaining Erbium Doped Fiber Amplifiers (PM EDFAs) are designed for use in the high speed and wide bandwidth applications. They amplify optical signals across the conventional communication band. These series incorporate a special, unique, and flexible structure to produce maximum signal gain and saturated output power while minimizing noise figure. Through optimization of these important amplifier parameters, this module will be easily deployed into any of high-quality telecommunication platforms.





This model is offered as C-band in power booster configuration.

This series is available in a variety of packaging choices, ranging from the gain block module, stand-alone desktop. The flexible package size provides solutions for multiple applications and serving area. In addition, these units also provide a user-friendly status monitoring via an LCD display, LED indicators, and various communication interfaces.

July 2013, V2.1

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Specifications

Optical Information		Unit	Description	
			CGB	EFA
Operating wavelength range		nm	1530 ~ 1562	
Input power range	Max.	dBm	-10 ~ +10	
Saturated output power*1	Max.	dBm	25	
Signal gain	Typ.	dB	25	
Noise figure	Typ.	dB	6	
Polarization extinction ratio	Min.	dB	20	
Return loss	Min.	dB	45	
Fiber type			PMF, 900 μ m loose tube	-
Fiber length*2		m	1.0	-
Connector			FC or SC	
Electrical Information				
Operating voltage		V	+5 VDC	100~240 VAC
Control interface			RS232	
Environmental and Mechanical Information				
Operating temperature		°C	0 ~ 50 (Case)	0~35 (Ambient)
Storage temperature		°C	-20~80	
Relative humidity (non-condensing)		%	5~85 (operating)	
Dimension (W x L x H)		mm	127 x 152.4 x 25	Benchtop or Customerized

*1: Saturated power is composed of optical signal and ASE power.

*2: Other fiber length also available by request.

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