

Erbium Doped Fiber Amplifier AGB/CGB/EFA-V Series, CATV EDFA

Features

- * Wide operating wavelength range
- * Different pump options giving saturated output power up to 25dBm
- * Exceptionally low noise figure
- * Optimum CNR/CSO for AM-VSB CATV transmission
- * Input and output signal monitoring
- * Optically isolated input and output ports to minimize system susceptibility due to connector reflections.
- * Front panel LCD display or status LED indicators for quick access of unit's status
- * RS-232 or Ethernet interface for remote supervision.
- * Redundant dual power supply
- * Options for rapid gain control and transient suppression.

Applications

- * PON network systems
- * CATV/Hybrid Fiber Coaxial (HFC) network systems
- * Low noise power booster for transport systems

Description

GIP Technology V-series Erbium-Doped Fiber Amplifiers (EDFAs) are mainly designed for use in the CATV transmission systems. The V-series utilizes the highly reliable optical components and the unique design to achieve the lowest noise figure and gain tilt for ensuring the minimal degradation of the CNR and CSO.

The flexible package size (compact, and rack-mounted) provides solutions for multiple applications and serving area sizes.

This series is available in a variety of packaging choices, ranging from the gain block module, stand-alone desktop, to rack-mounted in an EIA 19" or 23" rack. In addition, these units also provide a user-friendly status monitoring via an LCD display, LED indicators, and various communication interfaces.



Erbium Doped Fiber Amplifier AGB/CGB/EFA-V Series, CATV EDFA

Specifications

Optical Information		Unit	Description		
			AGB-V	CGB-V	EFA-V
Operating wavelength range		nm	1540 ~ 1560		
Input power range	Max.	dBm	-5 ~ +10		
Saturated output power*1	Max.	dBm	25	25	25
Noise figure	Typ.	dB	5 (@Pin=0dBm); 6 (@Pin=+6dBm)		
Polarization dependent gain	Max.	dB	0.3		
Polarization mode dispersion	Max.	ps	0.3		
Return loss	Min.	dB	45		
Fiber type			SMF-28, 900 μ m loose tube		-
Fiber length*2		m	1.0		-
Connector			FC or SC		
Electrical Information					
Operating voltage		V		+5V	-48VDC and 100~240 VAC
Pump LD ON/OFF switch			-		Key type
Power consumption	Typ.	W	-	30	40
Control interface			30-pins Connector	RS232	RS232 & SNMP
Environmental and Mechanical Information					
Operating temperature		°C	0 ~ 70 (Case)	0 ~ 65 (Case)	0 ~ 50
Storage temperature		°C	-20~80		
Relative humidity (non-condense)		%	5~85		
Dimension (W x L x H)		mm	80 x 120 x 16	85 x 200 x 18	19" or 23"

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

*2: Other fiber length also available by request.



GIP Technology Corporation

6F, No. 112, Shin Min. St., Chung Ho Dist., New Taipei City, Taiwan

Tel: 886-2-82267855

www.giptek.com

Fax: 886-2-82267955

e-mail: sales@giptek.com