

Erbium Doped Fiber Amplifier EFA-S Series, Single Channel C-band EDFA

Features

- * Bit-rate transparency
- * High saturated output power up to 23dBm
- * Wide operating wavelength range
- * 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 or Ethernet interface for remote supervision.
- * Redundant dual power supply

Applications

- * Access, metro, and long-haul networks
- * Single-channel and narrow-band networks
- * Power compensation of OADM and OXC systems
- * Booster and pre-amplifier amplification

Description

GIP Technology S-series Erbium Doped Fiber Amplifiers (EDFAs) are designed for use in the single-channel applications. They amplify optical signals across the third or fourth telecommunication window. 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 different configurations, booster, in-line or pre.

The compact rack-mounted unit serves the area size. In addition, these units also provide a user-friendly status monitoring via an LCD display, LED indicators, and various communication interfaces (RS-232 and SNMP).



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Specifications

Optical Information		Unit	Description	
			Booster	Pre
Operating wavelength range		nm	1528 ~ 1562	
Input power range		dBm	-10 ~ +10	-30 ~ -10
Saturated output power*1	Max.	dBm	23	13
Signal gain	Typ.	dB	25	30
Noise figure	Typ.	dB	6	5.5
Polarization dependent gain	Max.	dB	0.5	
Polarization mode dispersion	Max.	ps	0.5	
Return loss	Min.	dB	45	
Connector			SC or FC	
Electrical Information				
Operating voltage		Volt	-48VDC and 100~240 VAC	
Pump LD ON/OFF switch			Key type	
Control interface			RS232 & SNMP	
Power consumption	Typ.	W	30	
Environmental and Mechanical Information				
Operating temperature		°C	0 ~ 50	
Storage temperature		°C	-20 ~ 80	
Relative humidity (non-condense)		%	5 ~ 85	
Outline Information				
Dimension		mm	19" or 23"	

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



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