

Erbium Doped Fiber Amplifier EFA-W Series, DWDM C-band EDFA

Features

- * Bit-rate transparency
- * Extremely flat gain and low noise profile
- * Highly accurate automatic gain control (AGC) capability
- * 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.
- * Options for transient suppression function
- * Redundant dual power supply

Applications

- * DWDM network systems
- * SAN applications
- * Metropolitan WAN network systems
- * Long-Haul transport systems

Description

GIP Technology W-series Erbium Doped Fiber Amplifiers (EDFAs) are gain-flattened and low noise, especially designed for dynamic DWDM optical networking systems. They operate in the conventional C-band (1530~1563nm). Packaged in a rack-mounted chassis, These series incorporate many flexible and special characteristics such as different amplifier configurations (booster, inline, and pre), automatic gain control (AGC), and widely variable gain range to simplify network designs. In addition, we also provide options for transient suppression to further maintain system performance as the wavelength numbers fluctuate.



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	In-line	Pre
Control mode			AGC		
Operating wavelength range		nm	1530~1563		
Input power range		dBm	-10 ~ +10	-20 ~ 0	-30 -10
Saturated output power*1	Max.	dBm	24	24	17
Signal gain	Typ.	dB	20	30	30
Noise figure	Typ.	dB	6.5	6.0	5.5
Gain flatness	Max.	dB	± 0.75		
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	35		
Environmental and Mechanical Information					
Operating temperature		°C	0 ~ 50		
Storage temperature		°C	-20 ~ 80		
Relative humidity (non-condense)		%	5 ~ 85		
Dimension		mm	19" or 23"		

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

