

C-Band Erbium-Doped Fiber Amplifier

This C-band erbium-doped fiber amplifier (EDFA) is available in pre-amplifier, booster, and in-line configurations. It features a user-friendly RS485 interface and is suitable for analog and digital CATV systems, long-distance transmission, LANs, and WANs.



Overview

C-Band Erbium-Doped Fiber Amplifier (EDFA)

This C-band Erbium-doped Fiber Amplifier is a high-performance solution designed for long-distance transmission, CATV systems, and LAN/WAN networks. It features an intelligent MPU monitor, low noise figure, and high gain, ensuring reliable signal amplification. Available in Pre-amplifier, Booster, and In-line amplifier configurations, this unit offers flexible deployment options with OEM customization available upon request.

Optical Performance

Operating Wavelength

1530 nm

Min Wavelength

1563 nm

Max Wavelength

Saturated Output Power

13 dBm

Min Power

23 dBm

Max Power

Gain @ -25dBm Input

25 dB

Min Gain

35 dB

Max Gain

Technical Specifications

Noise Figure	5.5 dB
Return Loss (EDFA off)	40 dB
Input/Output Isolation	30 dB
Polarization Dependent Gain	0.3 - 0.5 dB
Polarization Mode Dispersion	0.3 ps
Fiber Type	SMF-28e

Physical & Environmental

Power Supply	DC5V / AC220V
Operating Temperature	-5°C to 55°C

Interface & Control

User Interface

- LCD for internal operating parameters
- LED for operation status and alarm

Network Interface

RS232 / RS485

Applications

Supported Applications

Analog CATV, Digital CATV, Long Distance Transmission, LAN, WAN