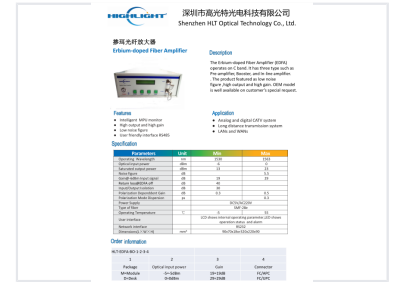


C-Band Erbium-Doped Fiber Amplifier

The erbium-doped fiber amplifier operates on the C band and is available in pre-amplifier, booster, and in-line amplifier types. This amplifier features low noise figure, high output, and high gain.



Overview

High-Performance C-Band EDFA

The Erbium-doped Fiber Amplifier (EDFA) is designed for high-performance operation within the C-band. Available in Pre-amplifier, Booster, and In-line configurations, this unit features a low noise figure, high output power, and high gain. It is an ideal solution for long-distance transmission systems, CATV networks, and LAN/WAN infrastructures.

Key Features

Core Capabilities

Intelligent MPU Monitor, High Output, High Gain, Low Noise Figure, RS485 Interface

Optical Performance

Performance Metrics

1530 nm

Min Wavelength

1563 nm

Max Wavelength

5.5 dB

Max Noise Figure

29 dB

Max Gain

Technical Specifications

Parameter	Value/Range
Optical Input Power	-6 to 0 dBm
Saturated Output Power	13 to 23 dBm
Return Loss (EDFA Off)	≥ 40dB
Input/Output Isolation	≥ 30dB
Polarization Dependent Gain	≤ 0.3 to 0.5 dB
Polarization Mode Dispersion	≤ 0.3ps

Physical & Environmental

Physical Specifications

Attribute	Specification
Fiber Type	SMF-28e
Power Supply	DC5V / AC220V
Operating Temperature	-5°C to 55°C
Dimensions	90x70x18mm or 320x220x90mm

System Integration

Interfaces

- User Interface: LCD (Parameters) & LED (Status/Alarm)
- Network Interface: RS232
- Control Interface: RS485

Applications

Typical Applications

Analog CATV • Digital CATV • Long Distance Transmission • LANs • WANs