



# FODII-EDFA

## Erbium-Doped Fiber Amplifier



### Product Description

The Erbium-Doped Fiber Amplifier (EDFA) is used to amplify the optical signal with wavelength range from 1530 ~ 1560nm. The EDFA utilizes highly stable 980 nm pump laser and well design to provide excellent performance. All the parameters of output power, operating current, and operating temperature are well controlled by the control circuit and microprocessor to assure the stable operation. Additionally, the microprocessor monitors the corresponding parameters and sends the status to network according to SNMP protocol. When the operating parameters are abnormal, microprocessor sends alarms and forces to turn off the laser following the setting threshold to prevent damage at the abnormal operation.

### Optical Specifications

Wavelength range	1530 ~ 1560nm
Input power	-5 ~ +10dBm
Output power	$\geq 13 \sim 23\text{dBm} (@\text{Input} \geq -5\text{dBm})$
Output power stability	$\leq 0.5\text{dB}$
Polarization dependent gain	$\leq 0.5\text{dB}$
Return loss	$\geq 45 \text{ dB}$
Noise figure @0dBm input power	$\leq 5\text{dB}(\text{for output power} = 13\sim 18\text{dBm})$ $\leq 5.5\text{dB}(\text{for output power} = 19\sim 23\text{dBm})$
Input isolation	$\geq 25\text{dB}$
Output isolation	$\geq 25\text{dB}(13\sim 18\text{dBm})$ $\geq 45\text{dB}(19\sim 23\text{dBm})$

### General Specifications

DC input power	+24V ( $\pm 1\text{V}$ )
Control mode	AOC (Auto Output-Power Control)
Number of outputs	1
Operation temperature	0° to 50°C
Operating humidity	20~80%(Non-Condensing)
Storage temperature	-40° to 80°C
Storage humidity	20~80%(Non-Condensing)
Dimensions	30.5 W x 402.8 D x 130 H mm
Power consumption	Max (23dBm) < 24W (FODII-PF Max=24W for 1-slot module)



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### Ordering Information

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Output Power	Connector
13 : 13dBm	SS: SC/APC with shutter
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23 : 23dBm	