Linear Erbium Doped Amplifier (EDFA)

Amonics
Specialist in Optical Amplifiers

1550nm - CW

Key Features

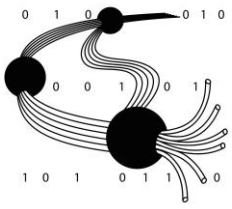
- Turnkey device
- RS232/Ethernet computer interface
- High output power
- Linear gain
- Low noise figure

Benchtop Casing

Description

Amonics' specialist products, Erbium-doped Fiber Amplifiers(EDFA), are made with high power pump laser and high stability pump combiners, robust in high power boosting. The result are EDFAs that possess high output power, linear gain with very low noise, and are ideal for high power EDFA applications. The turnkey microprocessor controlled benchtop EDFAs manage alarms and status indicators. An integrated RS232 computer interface enables easy control, diagnostic functions and data acquisition. The benchtop EDFA series consist of different type of EDFAs for various applications such as general purpose, pre-amplifier, booster, in-line, polarization maintaining, C+L band amplification.

Application



- SONET/SDH Systems
- Optical Communications
- CATV

- Fiber Optic Sensing

ISO 9001 : 2015
Certificate No.: CC 5346

Our product is manufactured under a HKQAA ISO 9001 certified quality management system. The ISO 9001:2015 certification applies to the Hong Kong production site only.

Linear Erbium Doped Amplifier (EDFA)

Amonics
Specialist in Optical Amplifiers

Specifications

Model	AEDFA-LI-20	AEDFA-LI-23
Input Signal Level	-40 to -20 dBm	-40 to -20 dBm
Small-Signal gain (at all operating wavelength)	Min. 20 dB	Min. 23 dB
Noise Figure @1550nm	Max. 5.5 dB	Max. 6.0 dB
Gain Linearity @1550nm	Typ. 0.8 dB, Max. 1.2 dB	Typ. 0.8 dB, Max. 1.2 dB
Operating Wavelength	1550 ± 5 nm	1550 ± 5 nm
Input Isolation	Min. 30 dB	Min. 30 dB
Output Isolation	Min. 30 dB	Min. 30 dB
Polarization Dependent Gain	Typ. 0.3 dB, Max. 0.5 dB	Typ. 0.3 dB, Max. 0.5 dB
Control Mode	ACC (Option: APC, AGC)	ACC (Option: APC, AGC)

* Other output power models available upon request

Option:
1) Gain Flattening Filtering
2) APC or AGC Control Mode
3) Input Power Monitoring
4) Benchtop or 19 inches Rackmount Housing

General Parameters

	Value
Operation Temperature	0 to 40 ˚C
Storage Temperature	-10 to 70 ˚C
Power Supply	90 – 240 VAC, 47 – 63 Hz
Dimensions	260(W) x 330(D) x 120(H) mm
Control	Keylock switch, Optical output power
LCD Display	Output power, Pump laser current
Computer Interface	RS232 (Control software & connection cable included) / Ethernet (Option)
Protection	Pump laser overheat warning
Optical Connector	FC/APC, FC/UPC, SC/APC, SC/UPC
Optical Fiber	SMF-28

Ordering Information

Product Code	AEDFA-LI-aa-b-cc	aa: Gain Linear in dB b : B for Benchtop case, R for 19” Rackmount case cc : FA for FC/APC, FC for FC/UPC, SA for SC/APC, SC for SC/UPC

Amonics undertakes continuous and intensive product development to ensure its product performance at the highest technical standards. As a result, the specifications in this document are subject to change without notice.

Amonics Limited (Head Office)
14/F, Lee King Industrial Building, 12 Ng Fong Street,
San Po Kong, Kowloon, Hong Kong
Tel :+852 2428 9723 Fax :+852 2428 9704

Beijing Amonics Co. Ltd. (Sales & Operation)
Room 902, Unit 1 Joy Mansion, NO.99 Chaoyang North Road, Beijing China 100123
Tel :+86 10 8478 3386 Fax :+86 10 8478 3396
Email: contact@amonics.com Website: www.amonics.com