



amonics

AMONICS LTD.



ISO 9001 : 2008
Certificate No.: CC 5346

Standard Erbium Doped Fiber Amplifier (EDFA)

Applications

- SONET/SDH Systems
- Optical Communication
- Fiber Optic Sensing
- CATV
- Laboratory

Description

Erbium-doped Fiber Amplifiers (EDFAs) are our core products. With years of experience on design and products, our EDFAs excel in stability, reliability and robustness. They have excellent track records with happy users around the world and enjoy huge success in various applications. The EDFAs feature high output power, high gain with very low noise, and they can be customized to accommodate a wide range of input signal levels.

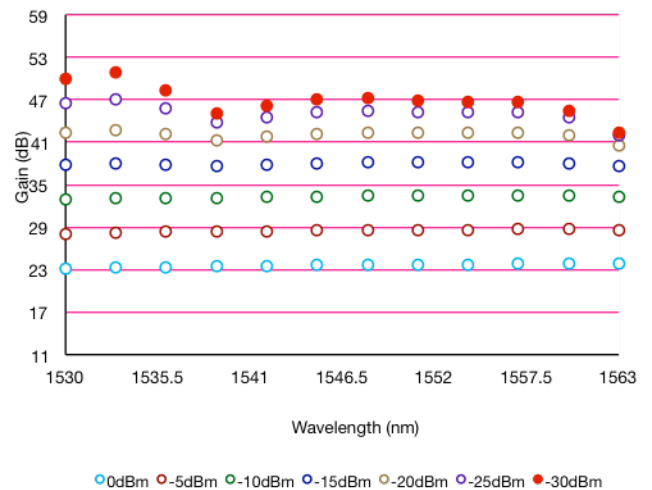
The turnkey microprocessor-controlled EDFAs provide illustrative alarms and status indicators. An integrated RS232 computer interface enables easy control, diagnostic functions and data acquisition. All EDFAs are available in both benchtop and rackmount casings.

Key Features

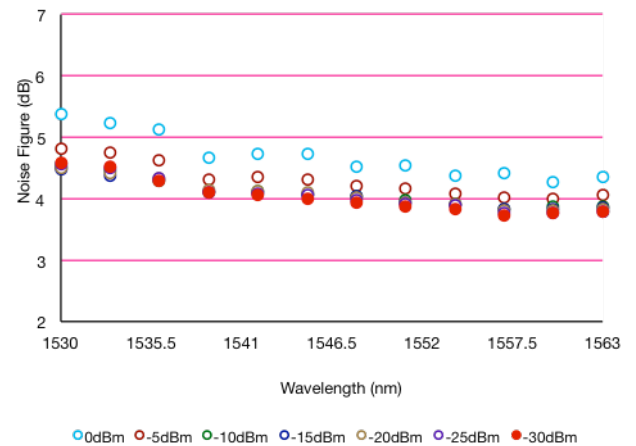
- Turnkey device
- RS232/Ethernet computer interface
- High output power
- High gain
- Low noise figure
- Highly reliable and durable



AEDFA-23-B-FA Gain



AEDFA-23-B-FA Noise Figure



Specifications

	AEDFA-13	AEDFA-18	AEDFA-23
Saturation Output Power (at -3dBm input signal)	> +13dBm	> +18dBm	> +23dBm
Small-Signal gain at 1550nm (at -30dBm input signal)	> 30dBm	> 32dBm	> 37dBm
Noise Figure (typ.) (at -3dBm input signal)	5.0dB	5.5dB	6.0dB
Operating Wavelength	1528nm – 1565nm		
Input Isolation	> 30dB		
Output Isolation	> 30dB		
Polarization Dependent Gain	Typ. 0.3dB, Max. 0.5dB		
Control Mode	ACC, APC, AGC(optional)		

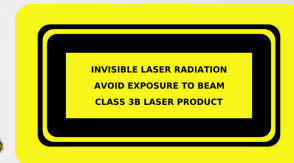
* Other output power models available upon request

General Parameters

Parameters	Unit	Specifications
Operation Temperature	°C	0 to +40
Storage Temperature	°C	-10 to +70
Power Supply	VAC	90 – 240, 47 – 63Hz
Dimensions	mm	Benchtop: 260(W) x 330(D) x 120(H) 1U Rackmount: 485(W) x 360(D) x 45(H) Other standard rackmount sizes are also available
Mechanical Safety Control	-	Key-lock switch, BNC interlock key
Optical Power Monitoring	-	Output power, Input power (optional)
Remote Control Port	-	DB-9 female (RS232), LabView control software included RJ-45 (TCP/IP Ethernet) (optional)
Protection	-	Pump laser (TEC) overheat
Optical Connector	-	FC/APC, FC/UPC, SC/APC, SC/UPC
Optical Fiber	-	SMF-28

Option

- Gain flattening filtering



Ordering Information

Product Code	AEDFA-xx-y-zz	xx : Saturation output power in dBm y : B for Benchtop, R for 19" Rackmount zz : FA for FC/APC, FC for FC/UPC SA for SC/APC, SC for SC/UPC
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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.

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