

Key Features

- High output power
- High gain
- Wide operation range
- Highly reliable and durable

Benchtop Casing



1550nm - Pulsed

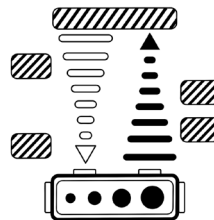
Description

Amonics' Pulse EDFA is designed for amplifying optical short pulse to high pulse energy level. Amonics' engineers have extensive knowledge in designing pulse optical amplifier, especially handling the nonlinearity in optical fiber due to high pulse peak power of the optical short pulse. We can design custom pulsed EDFA for different applications, such as fiber optic sensing and free space optical sensing. Our pulse EDFA has been widely used in industrial fiber laser based Lidar systems for wind velocity detection.

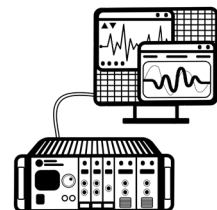
Application



- Laboratory



- Fiber Optic Sensing



- High power ultrashort pulse amplification
- High-resolution optical time domain reflectometry(OTDR)



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.

Specifications

Model	AEDFA-FS	AEDFA-PM-FS
Operating wavelength	Typ. 1540 nm to 1560 nm	Typ. 1540 nm to 1560 nm
Operating Bandwidth	Typ. 1.5 nm to 6.0 nm	Typ. 1.5 nm to 6.0 nm
Saturated Output Power up to (at 1mW peak input power)	Typ. 50 mW to 200 mW	Typ. 50 mW to 200 mW
Input average power	Typ. -5 dBm to 0 dBm	Typ. -5 dBm to 0 dBm
Pulse Width	Typ. 100 fs to 1000 fs	Typ. 100 fs to 1000 fs
Pulse Repetition Rate	Typ. 10 MHz to 25 MHz	Typ. 10 MHz to 25 MHz
Input / Output isolation	Min. 30 dB	Min. 30 dB
Polarization dependent gain	Typ. 0.3 dB, Max. 0.5 dB	NA
Polarization mode dispersion	Typ. 0.3 ps, Max. 0.5 ps	NA
Polarization Extinction Ratio	NA	Typ. 23 dB, Min. 20 dB
Optical Fiber	SMF-28	PM 1550 Panda Fiber

* Other output power models available upon request
Option: Chirped pulse amplification (CPA) Technology

General Parameters

	Value
Operation Temperature	0 to 40 °C
Storage Temperature	-10 to 70 °C
Power Supply	90 – 240 VAC, 47 – 63 Hz
Benchtop Dimensions	260(W) x 330(D) x 120(H) mm
Control	Keylock switch, Pump laser current
LCD Display	Output power, Pump laser current, Input power (Optional)
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

Ordering Information

Product Code	AEDFA(-PM)-FS-aaa-bb-cc-B-dd	aaa: Pulse Width in fs bb : Repetition Rate in MHz cc : Average Output Power in dBm dd : 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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