

Key Features

- Small foot print
- USB port control & monitor
- Stackable
- Low power consumption
- Reliable and durable



Description

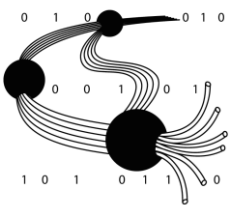
Amonics Mini EDFA is small in size, compact, stackable, and yet it comes with full and reliable EDFA performance. It is particularly suitable for scalable R&D experiments, quick testing in primitive working environment or budget laboratory setups.

The miniature EDFA is powered up by a 5V USB port. It can be connected to a computer directly through a USB cable in order to control and monitor output power. An uncooled pump laser is used to minimize power consumption and keep the EDFA on low maintenance. Not only limited to standard EDFA, the compact casing design is also suitable for optical packet switching system.



1550nm - CW

Application



- SONET/SDH Systems
- LAN and MANs



- Fiber Optic Sensing



- Laboratory



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-13-Mini	AEDFA-L-11-Mini	AEDFA-PKT-18-Mini
Saturation Output Power* (at 0 dBm input signal)	Typ. +13 dBm, Min. +12 dBm	Typ. +11 dBm, Min. +10 dBm	Typ. +18 dBm, Min. +17 dBm
Small Signal Gain	Min. 28 dB (Input: -30 dBm, 1550 nm)	Min. 22 dB (Input: -30 dBm, 1584 nm)	Min. 17 dB** (Input: 0 dBm)
Noise Figure (at -3dBm input signal)	Typ. 5.0 dB, Max. 5.5 dB	Typ. 6.0 dB, Max. 6.5 dB	Typ. 5.0 dB, Max. 5.5 dB
Operating Wavelength	1530 nm to 1565 nm	1570 nm to 1603 nm	1530 nm to 1565 nm
Input/Output Isolation	Min. 30 dB	Min. 30 dB	Min. 30 dB
Polarization Mode Dispersion	Typ. 0.3 ps, Max. 0.5 ps	Typ. 0.3 ps, Max. 0.5 ps	Typ. 0.3 ps, Max. 0.5 ps
Polarization Dependent Gain	Typ. 0.3 dB, Max. 0.5 dB	Typ. 0.3 dB, Max. 0.5 dB	Typ. 0.3 dB, Max. 0.5 dB
Control Mode	ACC, APC,	ACC, APC	ACC, APC

* Other output power models available upon request

** Gain Transient Error: Typ. ± 0.1 , Max. ± 0.2 dB/ μ s (@-3dBm input, 4096bit@10Gbps 100ns Guard time)

General Parameters

	Value
Operation Temperature	0 to 40 °C
Storage Temperature	-10 to 70 °C
Power Supply	5.0 \pm 0.1 VDC
Dimensions	M1: Φ 75 x 22 mm; M2: Φ 100 x 22 mm
Power Consumption	M1: Typ. 1.5, Max. 2.0 W; M2: Typ. 3, Max. 4.0 W
Mechanical Control	Emission button with LED
Optical Power Monitoring	Output power
Power Supply & Remote Control Port	M1: Micro USB; M2: USB (Type C) (Control Software included)
Optical Connector	FC/APC, FC/UPC, SC/APC, SC/UPC
Optical Fiber	Min. 0.5m SMF-28

Ordering Information

Product Code	C-Band: AEDFA-aa-Mini-bb L-Band: AEDFA-L-aa-Mini-bb C-Band PKT: AEDFA-PKT-aa-Mini-bb	aa : Saturation output power in dBm bb : 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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