



monics

AMONICS LTD.



ISO 9001 : 2008
Certificate No.: CC 5346

Polarization Maintaining EDFA

Applications

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



Description

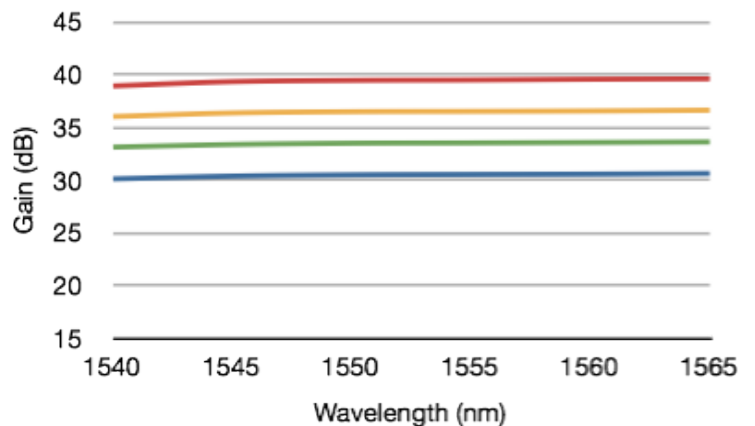
Amonics offers polarization maintaining EDFAs for various applications including free space communications, coherent beam combining, and detection system.

The output light is linearly polarized with high polarization extinction ratio. The compact turnkey benchtop or rackmount unit incorporates a user-friendly front panel housing a LCD monitor display, key switch, power control knob and optical connectors. A RS232 computer interface is also equipped to facilitate control and monitoring.

Key Features

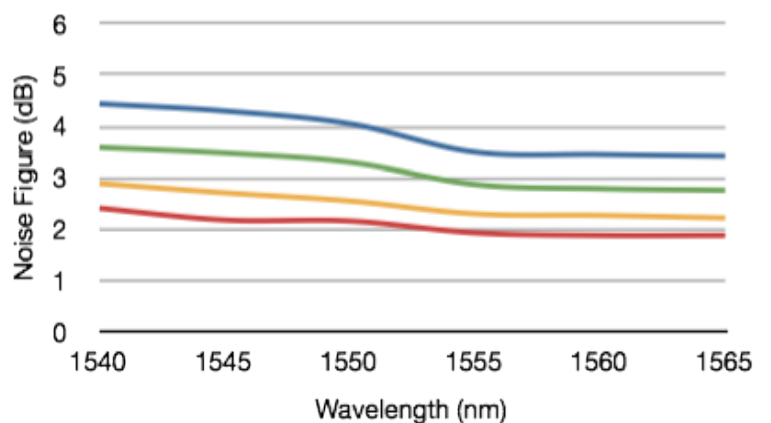
- High polarization extinction ratio
- Turnkey device
- High output power, up to 10W
- High gain
- Low noise figure, under 3.5dB
- Long operating life

AEDFA-PM-33-B-FA Gain



— 3 dBm — 0 dBm — -3 dBm — -6 dBm

AEDFA-PM-33-B-FA Noise Figure



— 3 dBm — 0 dBm — -3 dBm — -6 dBm

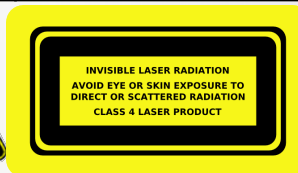
Specifications

	AEDFA-PM-18	AEDFA-PM-20	AEDFA-PM-23	AEDFA-PM-30	AEDFA-PM-33
Saturation Output Power (at 0dBm input signal)	> +18dBm	> +20dBm	> +23dBm	> +30dBm	> +33dBm
Input Signal Level	-6 to +3dBm	-6 to +3dBm	-6 to +3dBm	-6 to +3dBm	-6 to +3dBm
Operation Wavelength	1530nm to 1563nm	1530nm to 1563nm	1530nm to 1563nm	1535nm to 1563nm	1540nm to 1563nm
Noise Figure (at 0dBm input signal)	< 4.5dB	< 4.5dB	< 4.5dB	< 4.5dB	< 5dB
Input / Output Isolation	> 30dB				
Control Mode	ACC, APC, AGC (optional for AEDFA-PM-18, 20 and 23)				

* Other output power models are 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) for for AEDFA-PM-18, 20, 23 2U Rackmount: 485(W) x 360(D) x 90(H) for for AEDFA-PM-30, 33
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



Class 4 for AEDFA-PM-30, 33
Class 3B for AEDFA-PM-18, 20, 23

Ordering Information

Product Code	AEDFA-PM-bb-c-dd	bb : Saturated output power in dBm c : B for Benchtop, R for 19" Rackmount 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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