

Key Features

- High polarization extinction ratio
- Turnkey device
- High output power
- High gain
- Low noise figure
- Long operating life time

Benchtop Casing



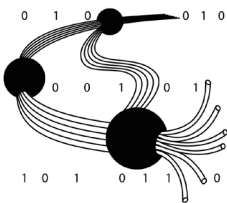
2U Rackmount Casing

1550nm - CW

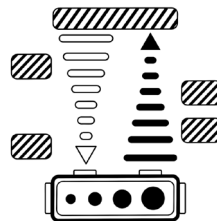
Description

Amonics' high power polarization maintaining EDFA can amplify polarized signal to very high power level. Our high power polarization maintaining EDFA can amplify optical signal up to 10 Watt optical power. The applications of our high power polarization maintaining EDFAs include fiber optic sensing, free space optical sensing, and experiments in nonlinear fiber optic.

Application



- SONET/SDH Systems
- Optical Communications
- CATV



- 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-PM-30-B	AEDFA-PM-33-B	AEDFA-PM-37-R	AEDFA-PM-40-R
Saturation Output Power	Min. +30 dBm (at 0dBm input signal)	Min. +33 dBm (at 0dBm input signal)	Min. +37 dBm (at 3dBm input signal)	Min. +40 dBm (at 3dBm input signal)
Input Signal Level	-6 to +3 dBm	-6 to +3 dBm	-6 to +10 dBm	0 to +13 dBm
Operation Wavelength	1535 nm to 1565 nm	1540 nm to 1565 nm	1545 nm to 1565 nm	1550 nm to 1565 nm
Noise Figure	Max. 6.0 dB (at 0dBm input signal)	Max. 6.5 dB (at 0dBm input signal)	Max. 7.0 dB (at 3dBm input signal)	Max. 7.5 dB (at 3dBm input signal)
Input Isolation	Min. 30 dB	Min. 30 dB	Min. 30 dB	Min. 30 dB
Output Isolation	Min. 30 dB	Min. 30 dB	Min. 25 dB	Min. 25 dB
Polarization Extinction Ratio	Typ. 23 dB, Min. 20 dB	Typ. 23 dB, Min. 20 dB	Typ. 23 dB, Min. 20 dB	Typ. 23 dB, Min. 20 dB
Control Mode	ACC, APC (optional)	ACC, APC (optional)	ACC, APC (optional)	ACC, APC (optional)

* L-Band or other output power models are available upon request
Option: Input Power Monitoring

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 [Output Power < 5W]*
2U Rackmount Dimensions	485(W) x 515(D) x 90(H) mm or 485(W) x 360(D) x 90(H)
Mechanical Safety Control	Key-lock switch
LCD Display	Input power [Output Power > 2W], Output power, Pump laser current
Computer Interface	RS232 (Control software & connection cable included) / Ethernet (Option)
Protection	Loss of Input Power, Output Power Protection [Output Power >33 dBm], Pump laser overheat warning
Optical Connector	FC/APC, FC/UPC, SC/APC, SC/UPC, bare fiber (No output connectors for output power > 2W)
Optical Fiber	PM 1550 Panda Fiber

* For output power > 2W, proper ventilation is advised

Ordering Information

Product Code	AEDFA-PM-aa-b-cc	aa : Saturation output power in dBm b : B for Benchtop, R for 19" Rackmount cc : FA for FC/APC, FC for FC/UPC, SA for SC/APC, SC for SC/UPC, NC for bare fiber
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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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