Gain Flattened DWDM YDFA

Amonics
Specialist in Optical Amplifiers

1060nm - CW

Key Features

- High output power
- Optimal and flattened gain
- Low noise figure
- Turnkey device
- RS232/Ethernet interface

2U Rackmount Casing





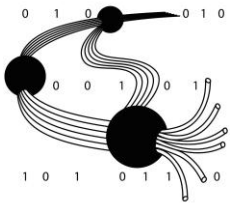
Benchtop Casing

Description

Amonics' Gain Flattened DWDM Ytterbium-doped Fiber Amplifier (YDFA) delivers high output power, high gain with a low noise figure for superior OSNR and stable signal quality. Its gain-flattened design ensures uniform amplification across all DWDM channels, preventing imbalance and maximizing data capacity. Different output power options are available to meet diverse application requirements, from long-haul transmission to advanced optical amplification systems. A pre-amplifier version is also available for enhanced signal sensitivity. This product is an ideal choice for the next-generation optical communication system.

The turnkey microprocessor-controlled YDFAs provide illustrative alarms and status indicators. An integrated RS232 computer interface enables easy control, diagnostic functions and data acquisition.

Application



- Hollow core transmission system
- Long-haul transmission system



- DWDM applications

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.

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Specifications

Model	AYDFA-PA-DWDM-25	AYDFA-DWDM-20	AYDFA-DWDM-25	AYDFA-DWDM-36
Composite Output Power @ 0 dBm composite input power	Min. 20 dBm	Min. 20 dBm	Min. 25 dBm	Min. 36 dBm
Composite Input Power	-30 to 0 dBm	-20 to +3 dBm	-10 to +10 dBm	0 to +13 dBm
Operation Wavelength	1030 nm to 1080 nm	1030 nm to 1080 nm	1030 nm to 1080 nm	1030 nm to 1080 nm
Optimal Optical Gain	Min. 25 dB @ -10 dBm composite input power	Min. 25 dB@ -5 dBm composite input power	Min. 20 dB@ +5 dBm composite input power	Min. 25 dB@ +11 dBm composite input power
Noise Figure	Max. 5.0 dB @ -20 dBm composite input power	Max. 6.0 dB @ 0 dBm composite input power	Max. 6.0 dB @ 0 dBm composite input power	Max. 6.5 dB @ 0 dBm composite input power
Gain Flatness	Typ. 2.5 dB	Min. 2.5 dB	Min. 2.5 dB	Typ. 2.5 dB
Input & Output Isolation	Min. 25 dB	Min. 25 dB	Min. 25 dB	Min. 25 dB
Polarization Dependent Gain	Typ. 0.3dB, Max. 0.5dB	Typ. 0.3dB, Max. 0.5dB	Typ. 0.3dB, Max. 0.5dB	Typ. 0.3dB, Max. 0.5dB
Control Mode	ACC, APC	ACC, APC	ACC, APC	ACC

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
2U Rackmount Dimensions	485(W) x 360(D) x 90(H) mm (for AYDFA-DWDM-36)
Mechanical Safety Control	Key-lock switch, BNC interlock key
Optical Power Monitoring	Output power, Input power (optional)
Remote Control Port	DB-9 female (RS232), Control software included, RJ-45 (TCP/IP Ethernet) (optional)
Protection	Pump laser (TEC) overheat , Reflection protection (optional)
Optical Input/Monitoring Port	FC/APC, FC/UPC Receptacle
Optical Output Terminal	FC/APC, FC/UPC Receptacle, Min. 1 m 3mm PVC cable with FC/APC, FC/UPC, Bare fiber
Optical Fiber	HI 1060

Ordering Information

Product Code	AYDFA-DWDM-aa-c-dd AYDFA-PA-DWDM-bb-c-dd	aa : Composite output power in dBm bb : Optical gain in dB c : B for Benchtop, R for 19” Rackmount dd : FA for FC/APC, FC for FC/UPC, NC for bare fiber

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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*Class 4 product for AYDFA-DWDM-36