

High Power C-Band Gain Flattened DWDM EDFA

Key Features

- High output power
- Flattened gain
- Low noise figure
- Turnkey device
- RS232/Ethernet interface
- Back Reflection Monitoring (Optional)



2U Rackmount Casing

1550nm - CW

Description

Amonics' High Power C-band Gain Flattened DWDM Erbium-doped Fiber Amplifier (EDFA) delivers output power up to 37 dBm, combining 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. This product is an ideal choice for the next-generation optical communication system.

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

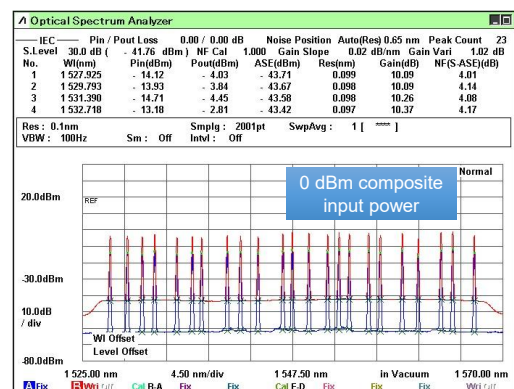
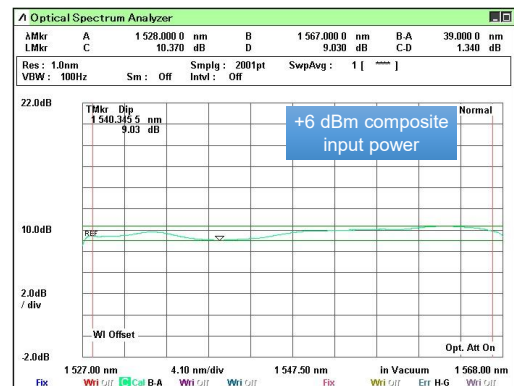
Application

- 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.



*The optical spectra were measured with attenuated output.

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Specifications

Model	AEDFA-C-DWDM-37
Composite Output Power	Min. 36 dBm, Typ. 37 dBm @ +6 dBm composite input power
Composite Input Power	0 to +7 dBm
Operation Wavelength	1528 nm to 1567 nm
Optimal Optical Gain	Min. 30 dB @ +6 dBm composite input power
Noise Figure	Typ. 5.5 dB, Max. 6.0 dB @ 0 dBm composite input power
Gain Flatness (peak to peak)	Typ. 1.0 dB, Max. 2.5 dB
Input & Output Isolation	Min. 30 dB
Polarization Dependent Gain	Typ. 0.3 dB, Max. 0.5 dB
Control Mode	ACC, APC (optional)

General Parameters

	Value
Operation Temperature	22 ± 2.0 °C
Storage Temperature	-10 to 70 °C
Power Supply	90 – 240 VAC, 47 – 63 Hz
Dimensions	485(W) x 360(D) x 90(H) mm
Mechanical Safety Control	Key-lock switch, BNC interlock key
Optical Power Monitoring	Output power, Input power, Back Reflection (optional)
Remote Control Port	DB-9 female (RS232), Control software included, RJ-45 (TCP/IP Ethernet) (optional)
Protection	Pump laser (TEC) overheat, Pump Power Protection, Loss of Input Signal
Optical Input/Monitoring Port*	FC/APC, FC/UPC Receptacle
Optical Output Terminal*	Min. 1 m 3mm PVC cable with FC/APC, FC/UPC, Bare fiber
Optical Fiber	SMF-28

*E2000 connector is available upon request. Please contact us for more details.

Ordering Information

Product Code	AEDFA-C-DWDM-aa-b-cc	aa : Composite output power in dBm b : R for 19" Rackmount cc : FA for FC/APC, FC for FC/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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