

High Power Extended C-Band and Extended L-Band DWDM EDFA

Key Features

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

2U Rackmount Casing



Benchtop Casing



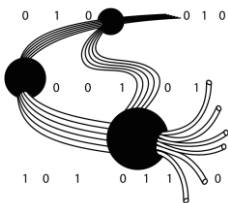
1550nm - CW

Description

Amonics Extended C-band and Extended L-band DWDM Erbium-doped Fiber Amplifier (EDFA) can provide output power up to 30 dBm and 27 dBm respectively. The product adopts the design of high-power pump laser and high stability pump combiner, which has the characteristics of high output power, high gain and very low noise. The amplified power can be evenly distributed with high signal-to-noise ratio in each channel even when there are more channels. In order to deal with massive data transmission in complex communication system, the number of channels of DWDM erbium-doped fiber amplifier is required to be more. This product is an ideal choice for various strict applications.

The turnkey microprocessor-controlled EDFAs provide illustrative alarms and status indicators. An integrated RS232 computer interface enables easy control, diagnostic functions and data acquisition. The EDFAs are available in both benchtop and rackmount casings.

Application



- SONET/SDH Systems
- Optical Communications
- Booster, In-line & Pre-amp
- Fiber Optic Sensing
- DWDM applications
- Scientific 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.

High Power Extended C-Band and Extended L-Band DWDM EDFA

Specifications

Model	AEDFA-C-EX-DWDM-27	AEDFA-C-EX-DWDM-30	AEDFA-L-EX2-DWDM-27-R
Composite Output Power	Min. 26 dBm, Typ. 27 dBm @ 0 dBm input power	Min. 29 dBm, Typ. 30 dBm @ 0 dBm input power	Min. 26dBm, Typ. 27dBm @ +2 dBm input power
Composite Input Power	-6 to +6 dBm	-6 to +6 dBm	-6 to +6 dBm
Optical Input Wavelength	1527 nm to 1567 nm	1528 nm to 1567 nm	1570 nm to 1620 nm
Gain	Min. 26 dBm, Typ. 27 dBm @ 0 dBm input power	Min. 29 dBm, Typ. 30 dBm @ 0 dBm input power	Min. 25 dBm, Typ. 26 dBm @ +2 dBm input power
Noise Figure	Typ. 5.5 dB, Max. 6.0 dB	Typ. 5.5 dB, Max. 6.0 dB	Typ. 7.0 dB, Max. 7.5 dB
Gain Flatness (peak to peak)	Typ. 1.0 dB, Max. 2.0 dB	Typ. 1.0 dB, Max. 2.0 dB	Typ. 1.0 dB, Max. 2.0 dB
Input & Output Isolation	Min. 30 dB	Min. 30 dB	Min. 30 dB
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, AGC(optional)	ACC, APC, AGC(optional)	ACC, APC, AGC(optional)

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
Mechanical Safety Control	Key-lock switch, BNC interlock key
Optical Power Monitoring	Output power, Input power
Remote Control Port	DB-9 female (RS232), 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

Ordering Information

Product Code	AEDFA-C-EX-DWDM-aa-b-cc AEDFA-L-EX2-DWDM-aa-R-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
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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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