

## Applications

- DWDM Applications
- SONET/SDH Systems
- Optical Communication
- Fiber Optic Sensing



## Description

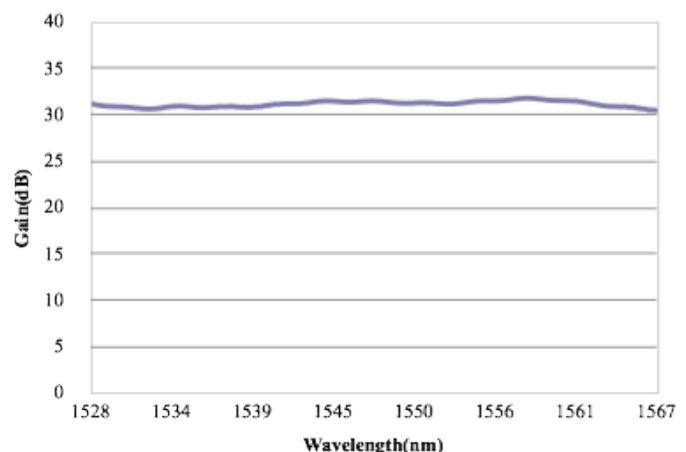
C-band and Extended C-band DWDM Erbium-doped Fiber Amplifiers (EDFA) are among the Amonics' specialist products. They are designed with high-power pump laser and high-stability pump combiners, renowned for robustness in high power boosting. The EDFAs feature high output power, high gain with very low noise, and they can be customized to accommodate a wide range of input signal levels. They are thus ideal for various demanding 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.

## Key Features

- Turnkey device
- RS232/Ethernet computer interface
- High output power
- High gain
- Low noise figure
- Highly reliable and durable

AEDFA-C-EX-DWDM-22 Gain Flatness



### Specifications

|                              | AEDFA-C-DWDM            |    |    | AEDFA-C-EX-DWDM         |    |    | Remark                        |
|------------------------------|-------------------------|----|----|-------------------------|----|----|-------------------------------|
| Saturation Output Power      | +22dBm                  |    |    | +22dBm                  |    |    | -                             |
| Wavelength                   | 1529 - 1563nm           |    |    | 1528 - 1567nm           |    |    | -                             |
| Gain (dB)                    | 21                      | 25 | 30 | 21                      | 25 | 30 | Input Power (dBm)<br>+1 -3 -8 |
| Noise Figure (typ.)          | 5.5dB                   |    |    | 5.5dB                   |    |    | -                             |
| Gain Flatness (peak to peak) | Typ. 1.0dB, Max. 2.0dB  |    |    | Typ. 1.0dB, Max. 2.0dB  |    |    | -                             |
| Input & Output Isolation     | >30dB                   |    |    | >30dB                   |    |    | -                             |
| Polarization Dependent Gain  | Typ. 0.3dB, Max. 0.5dB  |    |    | Typ. 0.3dB, Max. 0.5dB  |    |    | -                             |
| Control Mode                 | ACC, APC, AGC(optional) |    |    | ACC, APC, AGC(optional) |    |    | -                             |

\* 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)<br>1U Rackmount: 485(W) x 360(D) x 45(H)<br>Other standard rackmount sizes are also available |
| 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<br>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   |

### Option

- Gain flattening filtering



### Ordering Information

|              |   |   |
|--------------|---|---|
| Product Code | AEDFA-C-DWDM-aa-b-cc<br>AEDFA-C-EX-DWDM-aa-b-cc | aa: Saturated output power in dBm<br>b: B for Benchtop, R for 19" Rackmount<br>cc: FA for FC/APC, FC for FC/UPC<br>SA for SC/APC, SC for SC/UPC |
|--------------|---|---|

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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