

Key Features

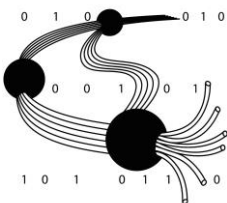
- Super C-band operating wavelength
- Flattened gain
- Low noise figure
- Turnkey device
- RS232/Ethernet interface

Description

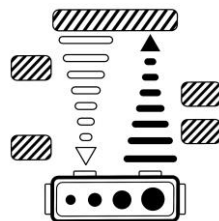
As the growing demand of data transmission capacity, Amonics' Super C-band (C++ band) DWDM Erbium-doped Fiber Amplifier (EDFA) is the ideal solution that features Super C-band operating range, i.e. 1524nm to 1572nm, in which can support up to 120 wavelengths. The transmission capacity is increased by 50% comparing to the traditional C-band. The EDFA adopts the design of high-power pump laser and high-stability pump combiners, renowned for robustness in high power boosting. It provides flattened gain across the operating wavelength range and very low noise figure.

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



- SONET/SDH Systems
- Optical Communications
- Booster, In-line & Pre-amp



- Fiber Optic Sensing



- DWDM applications
- Scientific applications

Benchtop Casing



1550nm - CW



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-C-SU-DWDM-17 | AEDFA-C-SU-DWDM-22 |
|------------------------------|---------------------------------|---------------------------------|
| Composite Output Power | Min. 17 dBm @ input power 0 dBm | Min. 22 dBm @ input power 0 dBm |
| Composite Input Power | -6 to +6 dBm | -6 to +6 dBm |
| Optical Input Wavelength | 1524 nm to 1572 nm | 1524 nm to 1572 nm |
| Optimal Optical Gain | Min. 17 dB | Min. 22 dB |
| Noise Figure | Max. 5.5 dB | Max. 6.0 dB |
| Gain Flatness (peak to peak) | Typ. 1.0 dB, Max. 2.0 dB | Typ. 1.5 dB, Max. 2.5 dB |
| Input / Output Isolation | 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 |
| Control Mode | ACC | 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 |
| Rackmount Dimensions | 1U: 485(W) x 360(D) x 45(H) mm; 2U: 485(W) x 360(D) x 90(H) mm |
| Mechanical Safety Control | Key-lock switch, BNC interlock key |
| LCD Display | Output power, Input power (optional) , Pump laser current |
| Computer Interface | RS232 (Control software & connection cable included) / Ethernet (option) |
| Protection | Pump laser overheat warning |
| Optical Connector | FC/APC, FC/UPC, SC/APC, SC/UPC |
| Optical Fiber | SMF-28 |

Ordering Information

| | | |
|--------------|-------------------------|---|
| Product Code | AEDFA-C-SU-DWDM-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 |
|--------------|-------------------------|---|

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.

Amonics Limited (Hong Kong)

14/F, Lee King Industrial Building, 12 Ng Fong Street,
San Po Kong, Kowloon, Hong Kong
Tel :+852 2428 9723 Fax :+852 2428 9704

Beijing Amonics Co. Ltd. (Beijing)

Room 902, Unit 1 Joy Mansion, NO.99 Chaoyang North Road, Beijing China 100123
Tel :+86 10 8478 3386 Fax :+86 10 8478 3396
Email: contact@amonics.com Website: www.amonics.com

