Super C-Band DWDM EDFA

Amonics
Specialist in Optical Amplifiers

1550nm - CW

Key Features

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

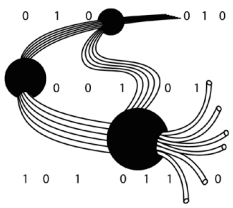
Benchtop Casing

Description

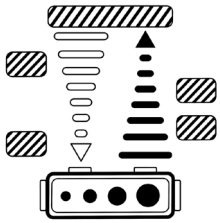
As the growing demand of data transmission capacity, Amonics' Super C-band (C++ band) DWDM Erbium-doped Fiber Amplifier (EDFA) is the ideal solution that features Super C-band operating range, i.e. 1524nm to 1572nm, in which can support up to 120 wavelengths. The transmission capacity is increased by 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

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	AEDFA-C-SU-DWDM-17	AEDFA-C-SU-DWDM-23
Composite Output Power	Min. 17 dBm @ input power 0 dBm	Min. 23 dBm @ input power 6 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. 17 dB
Noise Figure	Max. 5.5 dB	Max. 6.5 dB
Gain Flatness (peak to peak)	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
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
Control	Key-lock switch, Optical output power
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.

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