



C-BAND DWDM BENCHTOP EDFA

200 mW Output Power



Erbium-Doped DWDM Fiber Amplifier

- o Composite Output Power: 200 mW (23 dBm)
- o Composite Input Power: -10 dBm to 10 dBm
- o Low Power Input Signal
- o 6.0 dB Noise Figure
- o Part Number: AMN-EDFA-C-DWDM-200mW



C-BAND DWDM COMPACT BENCHTOP EDFA

C-band and Extended C-band DWDM Erbium-doped Fiber Amplifiers (EDFA) are specialist products for demanding applications. They are designed with high-power pump lasers and high-stability pump combiners, renowned for robustness in high power boosting. The EDFAs feature high output power and high gain with very low noise.

EASY TO USE, FRONT PANEL OR REMOTE OPERATION

These units provide the user with full control of the output power level by controlling the current of the internal pump lasers. The user can also control the instrument in a power feedback mode, and can optionally be ordered with gain-feedback operating mode. The amplifier is controlled via an intuitive front menu and control knob interface. It can also be operated using the RS232 rear panel interface, or can be ordered with an optional ethernet interface. LabVIEW based control software is included with the unit, and ships free of charge.

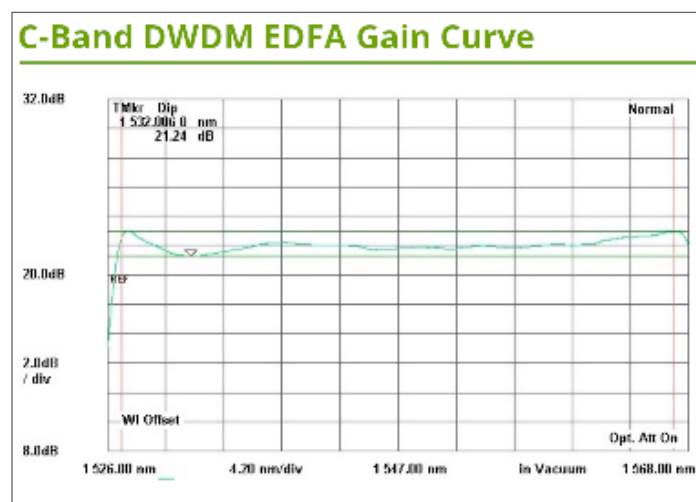
TELCORDIA-QUALIFIED COMPONENTS & THOUGHTFUL DESIGN

These amplifier utilize high reliability Telcordia-qualified 976nm high power pump lasers and Telcorida-qualified combiners. In principle, the light from the pump lasers excite the erbium ions embedded in the fiber from their ground state to high excitation levels, and the result is high gain – up to 30 dB. Optical isolators are integrated for both the input and the output.

Careful attention to component selection and circuit board design allow the C-band EDFA to produce high gain at a low noise level. Noise levels of < 6.0 dB with a flat gain profile over the frequency range make these instruments ideal for many applications.

MULTIPLE POWER OPTIONS

The DWDM EDFA systems are available with an extended wavelength amplification range of 1527 nm - 1567 nm. Inquire directly for details.





OPTICAL SPECIFICATIONS

- Composite Output Power: 200 mW (23 dBm)
- Composite Input Signal Level: -10 dBm to 10 dBm
- Small Signal Gain (at -6 dBm Input): min 29 dBm
- Operating Wavelength: 1529 nm to 1563 nm
- Gain: 21, 25, 30 dBm (Input Power +1, -1, -8 dBm)
- Noise Figure: 5.5 dB (typ), 6.0 dB (max)
- Polarization Dependent Gain: 0.3 dB (typ), 0.5 dB (max)
- Input Isolation: > 30 dB
- Output Isolation: > 30 dB

USER INTERFACE (ALL MODELS)

- Alphanumeric Color Front Panel Interface w/ Adjust Knob
- Remote: RS232, LabView Control Software Included
- Remote: RJ-45 (TCP/IP Ethernet optional)
- Optical Connectors In / Out: FC/APC
- Optional Fiber Connectors: FC/UPC, SC/APC, SC/UPC

GENERAL SPECIFICATIONS (ALL MODELS)

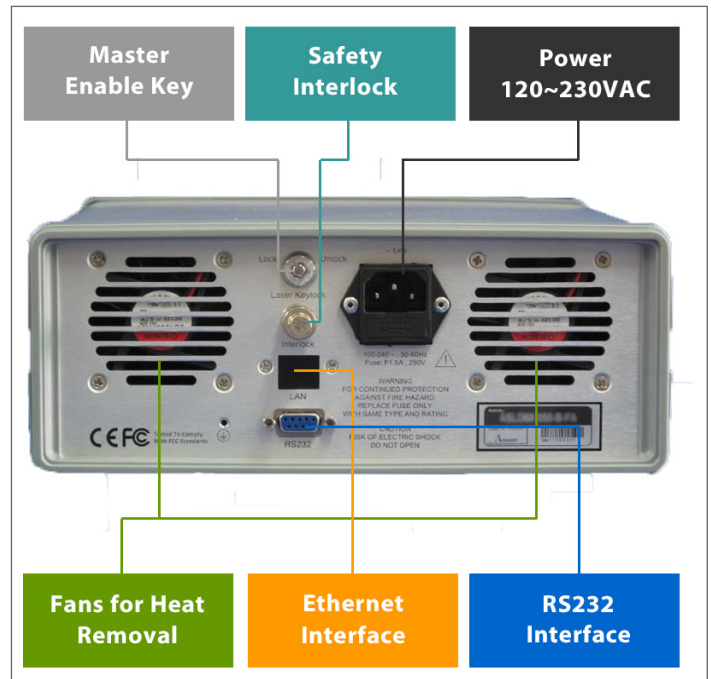
- Operation Temperature: 0 to 40 °C
- Required Shore Power: 90 - 240 (VAC), 47 - 63 Hz
- Dimensions: 260 mm x 330 mm x 120 mm
- Remote Control RS232 Port: DB-9 female
- TCP/IP/Ethernet optional
- Protection: Pump Lasers (TEC) Over-Temperature, Pump Lasers Current Limit
- Safety Controls: Key-Lock Switch, BNC Interlock, Loss of Input Power Detection and Pump Shut Down

APPLICATIONS FOR C-BAND DWDM EDFA

- Laboratory R&D
- SONET/SDH System
- Optical Communications
- Booster, In-Line, and Pre-Amp

EXTENDED C-BAND DWDM EDFA MODEL ALSO AVAILABLE

- AMN-EDFA-EX-C-DWDM-200mW; 1527nm to 1567nm Range





PRODUCT SALES AND SERVICE:

Orders for this product are fulfilled by Laser Lab Source in North America and select international regions. It is manufactured by Amonics, Ltd..

PRODUCT WARRANTY:

This product is sold with a full one-year warranty. It is warranted to be free from defects in material and/or workmanship for a period of one year from the date of shipment.



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