



C- & L-BAND BENCHTOP EDFA

200 mW Output Power



Erbium-Doped Fiber Amplifier

- o Output Power: 200 mW (23 dBm)
- o Low Power Input Signal
- o 5.5 dB Noise Figure at -0 dBm Input
- o Part Number: AMN-EDFA-CL-200MW



C- and L-BAND COMPACT BENCHTOP EDFA

These versatile benchtop EDFAs amplify low-power C- and L-band signals with a very low noise figure. They are simple to operate, affordable benchtop instruments for laboratory research or manufacturing test applications.

EASY TO USE, FRONT PANEL OR REMOTE OPERATION

These units provide the user with full control of the internal 976nm pump laser diode current levels. The user can also control the instrument in a gain feedback or power feedback 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

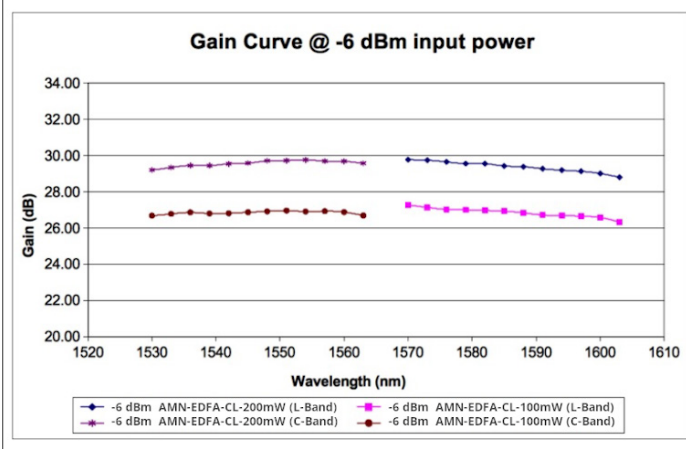
These amplifier utilize high reliability Telcordia-qualified 976nm high power pump lasers and Telcordia-qualified combiners. In principle, the light from the pump lasers excite the erbium ions embedded in the fiber from their ground state to high excitation levels, and the result is high gain – up to 29 dB. Optical isolators are integrated for both the input and the output.

Careful attention to component selection and circuit board design allow these C- & L-Band range EDFA to produce high gain at a low noise level. Noise levels of < 6.5 dB with a flat gain profile over the frequency range make these instruments ideal for many applications.

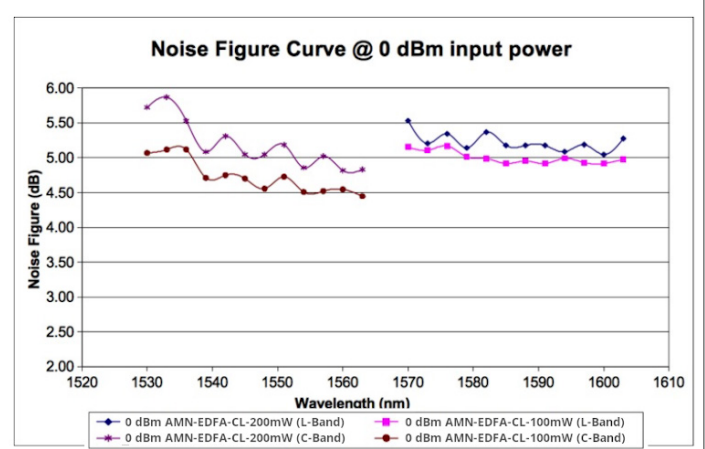
MULTIPLE POWER OPTIONS

The polarization-maintaining EDFA systems are available with output power levels from 17 dBm to 23 dBm. Inquire directly, or find these products on LaserLabSource.com.

C-L Band EDFA Gain Curve



C-L Band EDFA Noise Figure





OPTICAL SPECIFICATIONS

- Output Power Range: Adjustable up to 200 mW (23 dBm)
- Input Signal Level: -6 to +3 dBm
- Small Signal Gain (at -6 dBm Input): min 29 dBm
- Operating Wavelength: 1528 nm to 1563 nm; 1570 nm to 1603 nm
- Input Isolation: > 30 dB
- Output Isolation: > 30 dB
- Noise Figure: 5.5 dB (typ), 6.5 dB (max)

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)

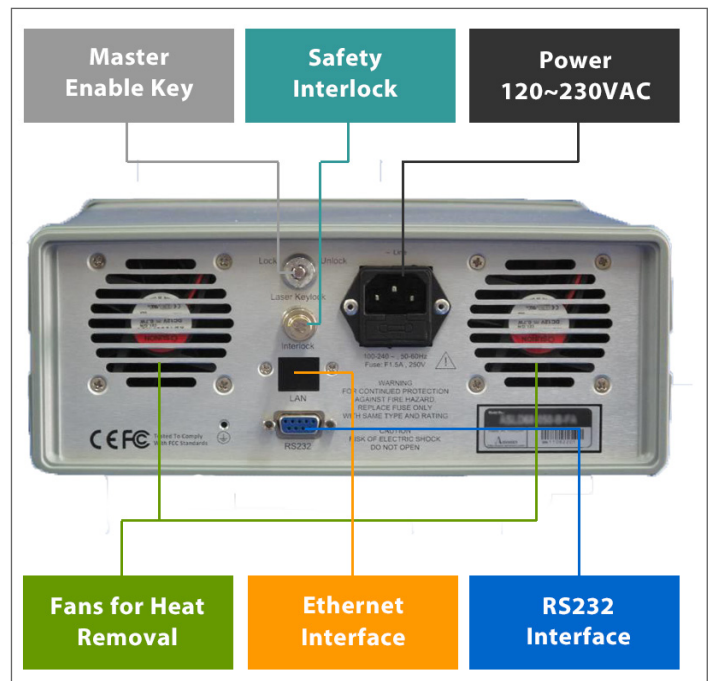
- Operation Temperature: 0 to 40 °C
- Required Shore Power: 90 - 240 (VAC), 47 - 63 Hz
- Dimensions: 260 mm x 330 mm x 120 mm
- Remote Control RS232 Port: DB-9 female
- TCP/IP/Ethernet optional
- Protection: Pump Lasers (TEC) Over-Temperature
- Protection: Pump Lasers Current Limit
- Safety Control 1: Key-Lock Switch
- Safety Control 2: BNC Interlock
- Safety Control 4: Loss of Input Power Detection and Pump Shut Down

APPLICATIONS FOR C- & L-BAND EDFA

- Laboratory R&D
- SONET/SDH System
- Optical Communications
- Fiber Optic Sensing
- CATV and Telecommunications R&D

C & L-BAND EDFA MODELS AVAILABLE

- AMN-EDFA-CL-50MW; 17 dBm Output
- AMN-EDFA-CL-100MW; 20 dBm Output
- AMN-EDFA-CL-200MW; 23 dBm Output





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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