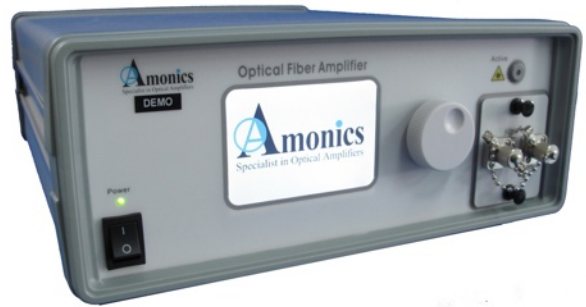


Applications

- SONET/SDH Systems
- Optical Communications
- Fiber Optic Sensing
- CATV
- Laboratory

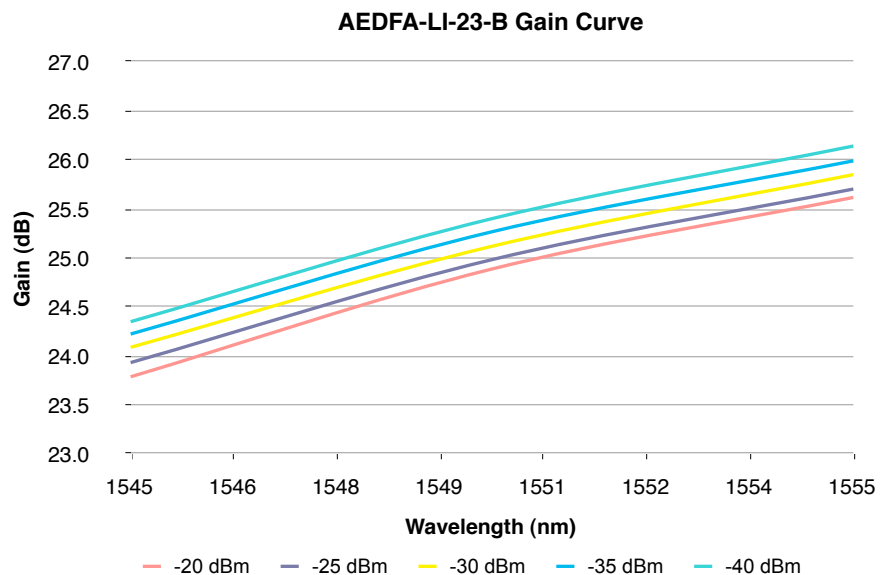


Description

Amonics' specialist products, Erbium-doped Fiber Amplifiers(EDFA), are made with high power pump laser and high stability pump combiners, robust in high power boosting. The result are EDFAs that possess high output power, linear gain with very low noise, and are ideal for high power EDFA applications. The turnkey microprocessor controlled benchtop EDFAs manage alarms and status indicators. An integrated RS232 computer interface enables easy control, diagnostic functions and data acquisition. The benchtop EDFA series consist of different type of EDFAs for various applications such as general purpose, pre-amplifier, booster, in-line, polarization maintaining, C+L band amplification.

Key Features

- Turnkey device
- RS232/Ethernet computer interface
- High output power
- Linear gain
- Low noise figure
- Two year warranty



Linear EDFA Specifications

| | AEDFA-LI-20 | AEDFA-LI-23 |
|--|--------------------------|----------------|
| Input Signal Level | -40 to - 20dBm | -40 to - 20dBm |
| Small-Signal gain (at all operating wavelength) | > 20dBm | > 23dBm |
| Noise Figure @ 1550nm (Typ) | 5.5dB | 6.0dB |
| Gain Linearity @ 1550nm (Typ) | 0.8 dB | |
| Operating Wavelength | 1550 +/- 5 nm | |
| Input Isolation | > 30dB | |
| Output Isolation | > 30dB | |
| Polarization Dependent Gain | Typ. 0.3dB | |
| Control Mode | ACC, (Option : APC. AGC) | |

* Other output power models available upon request

General Environmental Parameters

| Parameter | Unit | Specification |
|-----------------------------|------|---|
| Operation Temperature Range | °C | 0 to +40 |
| Storage Temperature Range | °C | -10 to +70 |
| Power Supply | VAC | 90 – 240, 47 – 63Hz |
| Dimensions | mm | 260(W) x 330(L) x 120(H) |
| Control | - | Keylock switch, optical output power |
| LCD Display | - | Output power, Pump laser current |
| Computer Interface | - | RS232 (Labview contro software & connection cable included) / Ethernet (option) |
| Protection | - | Pump laser over heat warning |
| Optical Connector | - | FC/APC, FC/UPC, SC/APC, SC/UPC |
| Optical Fiber | - | SMF - 28 |

Option:

- Gain Flattening Filtering
- APC or AGC Control Mode
- Input Power Monitoring
- Benchtop or 19" Rackmount Housing



Ordering Information

| | | |
|--------------|------------------|--|
| Product Code | AEDFA-LI-xx-y-zz | xx : Gain Linear in dB y : B for Benchtop case, R for 19" Rackmount case zz : FA for FC/APC, FC for FC/UPC SA for SC/APC, SC for SC/UPC |
|--------------|------------------|--|

Amonics undertakes a continuous and intensive product development to ensure its products perform to highest technical standards. As a result, the specifications in this document are subject to change without notice.

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