

EDFA-PA-PM-B



DEVICE

25 dB Gain Pre-Amp EDFA Benchtop w/PM Output, C-band

OVERVIEW

The Optilab EDFA-PA-PM-B Pre-Amp EDFA is a high-gain Benchtop for amplifying low input level signals that is an easy-to-use and cost-efficient solution for photonic subsystems and fiber optic system integration. Using a high gain design, this benchtop provides over 25 dB gain with a 4.5 dB noise figure and is designed to amplify signal with a low input level as low as -40 dBm. Software control is standard via an RS- 232 port for status monitoring and pump current adjustments, and pump laser protection and alarms are equipped to ensure the reliability and safety of the device. Contact Optilab for more information.

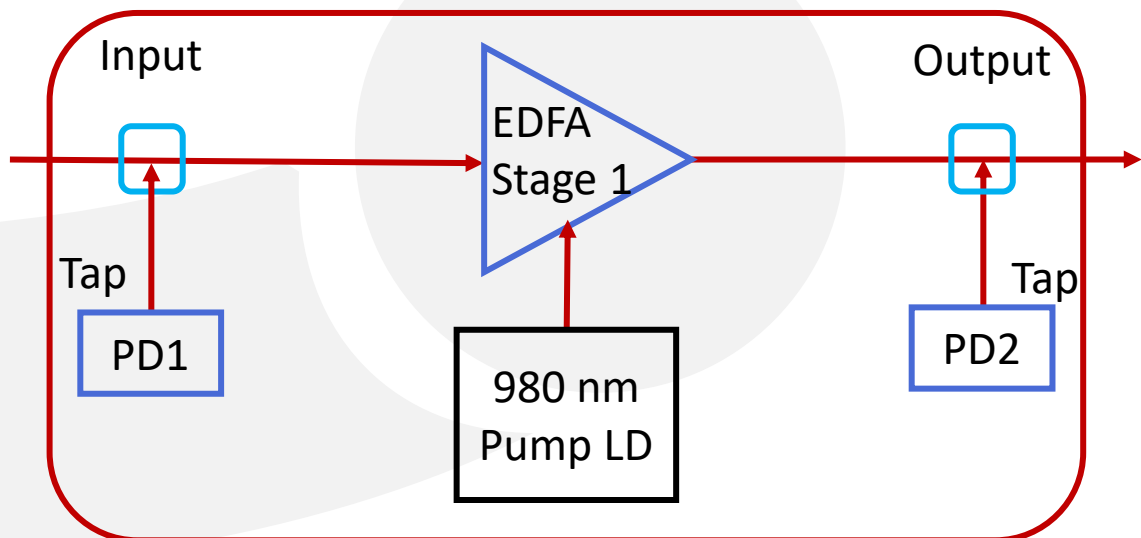
FEATURES

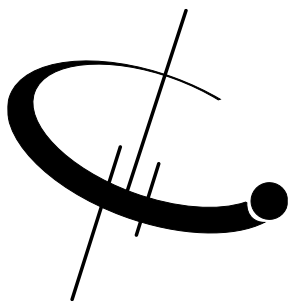
- High gain of more than 25 dB
- Low noise figure
- Designed for low input level
- PM Output
- RS-232 standard for remote control
- 10+ years of operation life

USE IN

- OEM integration for
 - Optical Networks
 - Research and Development
 - RF over Fiber
- Pulse Amplification

FUNCTIONAL DIAGRAM





EDFA-PA-PM-B

SPECIFICATIONS

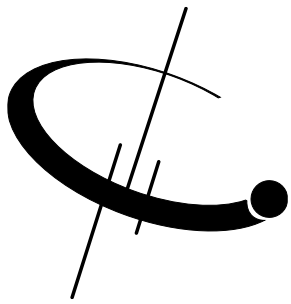
GENERAL

Operating Range	1528nm to 1563nm
Output Power Levels	+15 dBm @ 0 dBm typ.
Optical Gain	25 dB min. @ -40 dBm input
Noise Figure	4.5 dB typ. 5.0 dB max.
Optical Return Loss	50 dB min
Input Optical Isolation	30 dB min.
Output Optical Isolation	30 dB min.
Polar. Mode Dispersion	0.1 ps max.
Polar. Dependent Gain	0.1 dB max.
Input Power Range	-40 dBm to +5 dBm
Output Power Stability	0.15 dB over 8 hours
Input/Output Fiber Type	PANDA PM

MECHANICAL

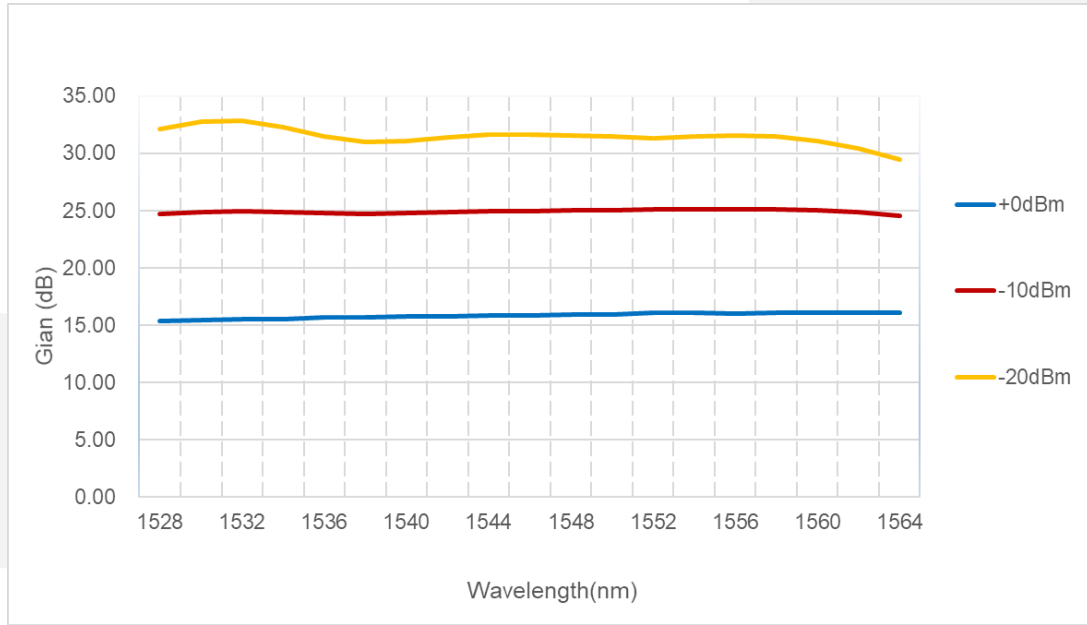
Operating Temperature	-10°C to +60°C
Storage Temperature	-40°C to +70°C
Power Supply Requirements	80 - 240 V, 43 - 63 Hz AC
Power Consumption	60 W max.
Output Level Control	Pump Lasers Current Adjustment
Monitoring	Pump Laser Temperature
Computer Interface	RS232 via USB
Display	Input/Output Power Level, TEC Temperature
Alarms	Temperature and Input Power
Optical Connectors	FC/APC, Other Option Available
Housing Dimensions	250mm (W) x 300mm (L) x 100mm (H)





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GAIN SPECTRUM



RELATED AMPLIFIER

- **EDFA-PA-PM-M**



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