



YDFA-PA-BM



DEVICE

Pre-Amp YDFA Big Module, PM Output

OVERVIEW

The Optilab YDFA-PA-BM is a Polarization Maintaining high-gain Dual Stage Pre-amplifier module in a Big Module housing. It is an easy-to-use touchscreen control and cost-efficient solution for photonic subsystems, and fiber optic system integration. Using a high gain design, this pre-amp module provides over 30 dB gain with a 4.5 dB noise figure, good for input power level as low as -40 dBm. Software control via an a standard TTL RS-232 interface is available for status monitoring and pump current adjustments. It also features pump laser protection and alarms to ensure the reliability and safety of the device. Contact Optilab for more information.

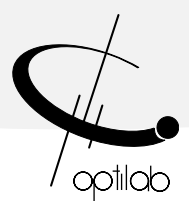
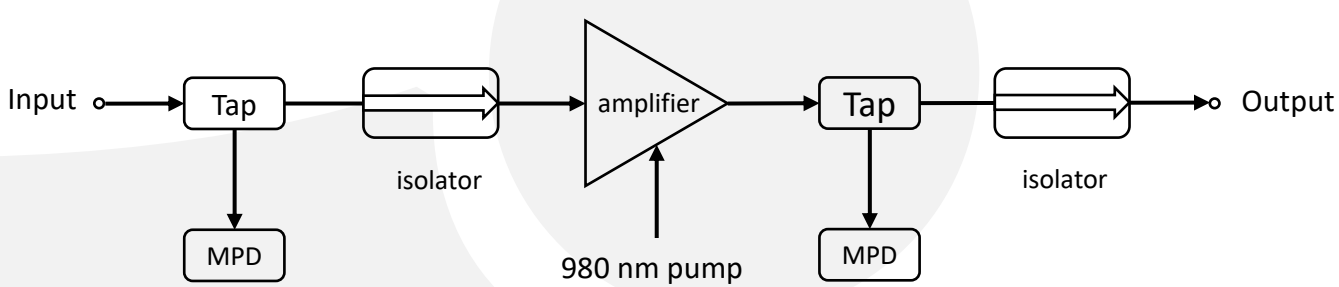
FEATURES

- RS-232 standard for remote control
- Wide wavelength operation range
- 25 dB gain
- PM Output
- Low noise figure
- Designed for low input level

USE IN

- Photonic subsystems
- Fiber optic link amplification
- OEM integration for
 - DWDM networks
 - DFC/CATV
 - RFoG/PON

FUNCTIONAL DIAGRAM





YDFA-PA-BM

SPECIFICATIONS

GENERAL

Operating Range	1045 nm – 1070 nm
Saturation Output Power	+15 dBm min. +18 dBm typical
Optical Gain	25 dB typ. @ -30 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.
Polarization Mode Dispersion	0.1 ps max.
Polarization Dependent Gain	0.1 dB max.
Input Power Range	-40 dBm to +5 dBm
Output Power Stability	0.15 dB over 8 hours
Operation Mode	ACC
Input/Output Fiber Type	PM 980

MECHANICAL

Operating Temperature	-10°C to +50°C
Power Supply	100 to 240 VAC
Power Consumption	20 W max.
Fiber Type	PM 980
Fiber Jacket	900 um loose tube
Connector Type	FC/APC
Remote Control	RS-232 for laser control, status monitoring
Touch Screen	5 inch LCD
Dimensions	380(L) x 190(W) x 95(H) (mm)



GAIN SPECTRUM

