

YDFA



YDFA

Ytterbium-Doped Fiber Amplifier, Rackmount

The Ytterbium-Doped Fiber Amplifiers (YDFA) series utilize Ytterbium (Yb) doped fiber technologies to achieve optical amplification in 1064 nm wavelength range. The all-fiber-based product are extremely reliable and requires no routine maintenance. Commercially proven 915 nm pump laser sources ensure long-term reliability. RS-232 computer interface allows for remote control via Labview software. These units are well-suited for Bio-medical, SHG, fiber sensors, LIDAR pulse amplification and free space communications. Contact Optilab for more information.

The YDFA is available in three different operating range options:

- Standard range: 1055 nm to 1080 nm
- Long range: 1055 nm to 1090 nm
- Short range: 1035 to 1070 nm

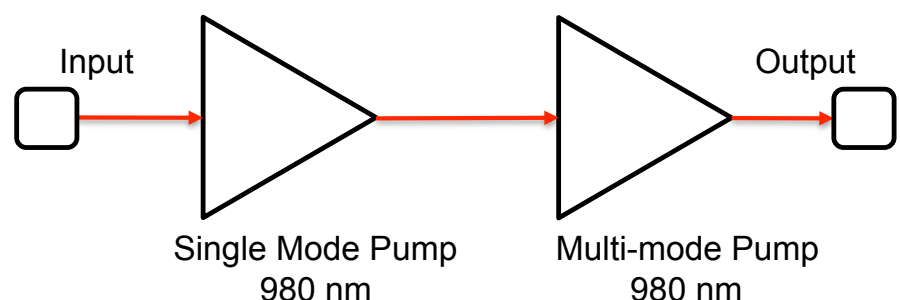
Features

- High output to +43 dBm
- Three wavelength range options
- Very high optical gain > 30 dB
- 0.2 dB over 8 hours stability
- PM output available
- RS-232 Labview Interface
- Collimator output available
- **3 year warranty standard**

Applications

- SHG Application
- Medical equipment
- Industrial lasers
- Material processing
- Laboratory

Functional Diagram



Ytterbium-Doped Fiber Amplifier, Rackmount | YDFA

OPTIONS

YDFA-r-xx-y-z

- xx Output Power: 30 dBm to 43 dBm
- Wavelength Range;
R: regular (1055 nm to 1080 nm)
y L: long (1055 nm to 1090 nm)
S: short (1035 nm to 1070 nm)
- z PM

TECHNICAL INFO

For technical info and support:

sales@optilab.com

www.optilab.com

WEB ORDER

To order, please click below.



Optilab Advantage

- Innovation
- Performance
- Quality
- Customization
- Warranty

Optical Specifications	
Operating Range	R: 1055 nm to 1080 nm L: 1055 nm to 1090 nm S: 1035 nm to 1070 nm
Output Power Levels	+20 to +43 dBm, user specified
Optical Gain	30 dB min. @ 0 dBm input
Number of Outputs	1 to 4, user specified
Optical Return Loss	30 dB min.
Input/Output Optical Isolation	27 dB min.
Polarization Dependent Gain	0.3 dB max.
Input Power Range	-6 dBm to +13 dBm, lower input available
Output Power Stability	0.2 dB over 8 hours
Input/Output Fiber Type	Hi 1060 (SM), Hi 1060-PM (PM)
Polarization Maintaining Specifications	
Polarization Dependent Gain	0.3 dB max.
Polarization Maintaining ER	20 dB typ.
Mechanical Specifications	
Operating Temperature	10° C to +40° C
Storage Temperature	-10° C to +70° C
Power Supply	80 - 240 V, 43 - 63 Hz AC
Power Consumption	150 W max.
Control	Keylock switch, optical output power
Monitoring	Pump Laser Temperature, Output Power (optional)
Computer Interface	RS232 (Labview control software and cable)
Display	Output Power Level, TEC Temperature
Alarms	Temperature and Current Threshold
Optical Connectors	Bare fiber collimator
Dimensions	2RU: 19" x 14.5" x 3"