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Find the *MPB Communications EFA-R35/130* at our website: *Click HERE*

Erbium Fiber Amplifiers

EFA-Series

The EFA series of benchtop amplifiers are essentially repackaged versions of the erbium-doped fiber amplifiers found in MPB Communications Inc.'s field-tested telecom equipment.



Erbium-doped fiber amplifiers (EDFAs) are playing a pivotal role in the explosive growth of telecom networks worldwide as they allow an increase in transmission distances and support densely packed WDM channels. The fortuitous match of the broad erbium gain curve with the minimum-loss window of silica fiber at 1.55 µm, the ease with which erbium can be doped into fiber, as well as the availability of reliable semiconductor pump lasers, have all contributed to the rapid incorporation of EDFAs into new systems.

The EFA series of benchtop amplifiers satisfy the requirements of the associated growing market of EDFAs for laboratory use and production testing. With standard or flattened preamplifiers and boosters amplification in the Conventional (C) band and the Long-wavelength (L) band, the EFA line covers most EDFA applications in terrestrial, undersea and inter-satellite telecommunications. The recent addition of flattened, C+L double band boosters to the EFA family now offers twice the operational bandwidth in the same instrument. All amplifiers feature RS-232 communication ports for easy remote control. In addition, boosters are equipped with a user-friendly front-panel readout and control.

Should you have any specific requirements, the flexibility of MPB Communications' manufacturing process allows simple customization of the optical specifications of our benchtop amplifiers. Do not hesitate to contact our Head Office to discuss your application.

MPB Communications Inc.

www.mpbcommunications.com

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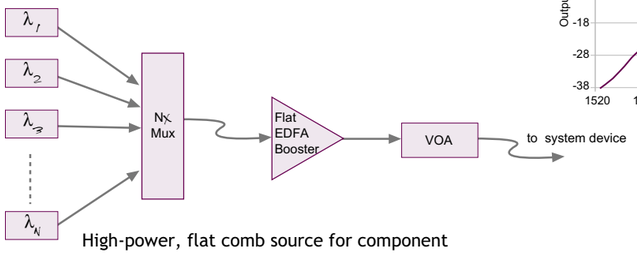
EFA-P15, P18, P21 & P23

Power Amplifiers

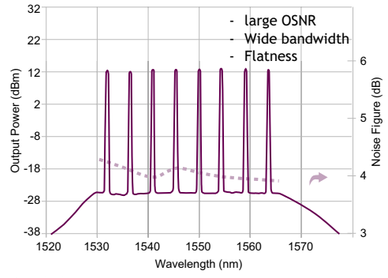
These one- to four-pump boosters are ideally suited to calibration of instruments at high-power level and linearity checks.

Features

- 1525 – 1565-nm typical operational range
- Up to 23-dBm saturated output power
- Input & output isolators
- Low noise figure
- Front-panel readout and control



High-power, flat comb source for component evaluation and optical system compliance tests



EFA-P15LF, P18LF, P21LF

L-Band Gain-Flattened Amplifiers

Spanning the L band, these units offer flat, high gain for DWDM applications

Features

- 1570 - 1600-nm minimum flat-gain operational range
- ≤ 1-dB flatness over bandwidth with DWDM signals
- Up to 21 dBm saturated output power
- Input & output isolators
- Low noise figure
- Front-panel readout and control

EFA-P15F, P18F, P21F & P22F

C-Band Gain-Flattened Amplifiers

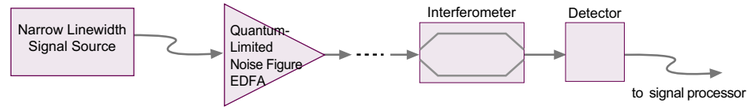
Flattened up to 40 nm, these units offer high output power in the C band for DWDM applications, with the same user-friendly features of their non-flattened cousins.

Features

- Up to 1527 – 1567-nm flat-gain operational range
- ≤ 1-dB flatness over bandwidth with DWDM signals
- Up to 22-dBm saturated output power
- Input & output isolators
- Low noise figure
- Front-panel readout and control

Applications

- Compliance tests of telecom links
- DWDM component evaluation
- High-power calibration
- Coherent spectroscopy
- Coherent transmission
- Biomedical imaging
- Sensors and radars



Coherent test setup (long base-line interferometry, coherent spectroscopy or coherent transmission)

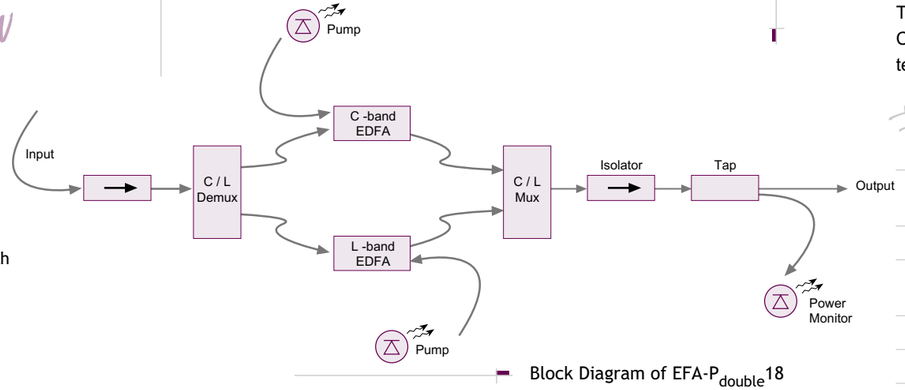
EFA-R35, R35/100, R35/130, R35W & R35LW

PreAmplifiers

These popular models offer extremely high-gain and almost quantum-limited noise figure in one turn-key package.

Features

- 1542-1160 nm, 1530-1565 nm or 1570-1600 nm wavelength range
- Near quantum-limited noise figure
- Up to 45-dB small-signal gain
- Output isolator (input optional)



Block Diagram of EFA-P$_{double}$18

EFA-P$_{double}$15, EFA-P$_{double}$18

C+L-Band Gain-Flattened Amplifiers

These instruments combine a C/L demultiplexer, a C- and a L-band amplifier and a C/L multiplexer to offer versatile amplification in both main bands of the 1550-nm telecom window.

Features

- 1530-1565 + 1570-1600-nm minimum flat-gain operational range
- ≤ 1-dB flatness over bandwidth with DWDM signals
- Up to 21-dBm saturated output power, combining two 18-dBm bands
- Input & output isolators
- Low noise figure
- Front-panel readout and control

EFA-Series



Optical Safety Classification

21 CFR 1040.10 and 1040.11	CLASS IIIb LASER PRODUCT
IEC 60825-1: 1993 + A1: 1997	CLASS 3B LASER PRODUCT





All EFA-series benchtop optical amplifiers are standalone units, requiring only an optical input, optical output, and an AC wallplug. Detailed specifications for these amplifiers are available.

CE

MPB Communications Inc

In addition to its line of benchtop EDFAs, MPB Communications Inc. offers EDFA gain blocks, sources for Raman amplification as well as a complete line of fiber-Bragg grating products and telecom devices.

Polytec

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