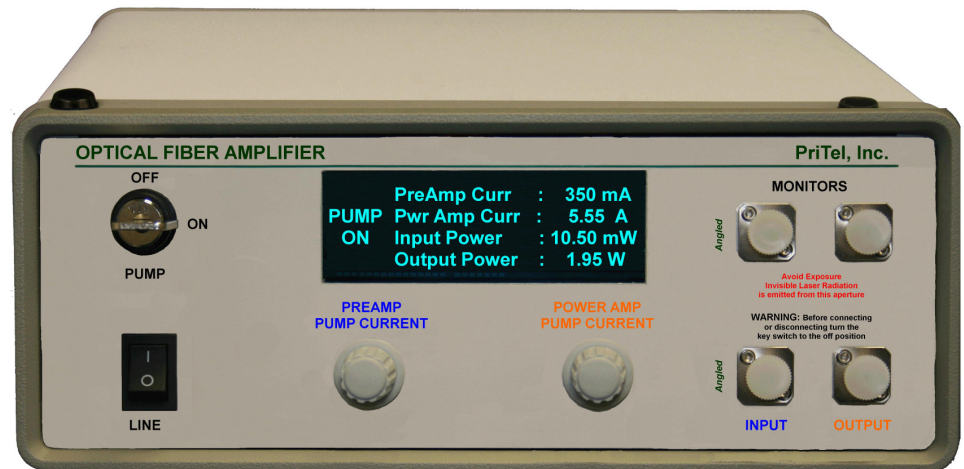


LNHPFA Series

LOW-NOISE HIGH POWER OPTICAL FIBER AMPLIFIERS

PriTel's LNHPFA Series of Low-Noise High Power Optical Fiber Amplifiers are designed for R&D applications in 1550 nm telecommunications, fiber lasers, and optical switching. The input signal is first amplified in a low-noise preamplifier and then boosted in a power amplifier. The Noise Figure is determined by the preamplifier. By inserting an optical bandpass filter between the preamp and power amp, the out of band noise is greatly diminished.



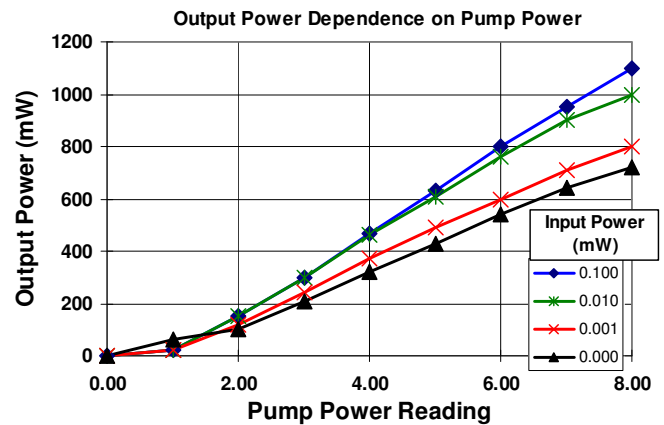
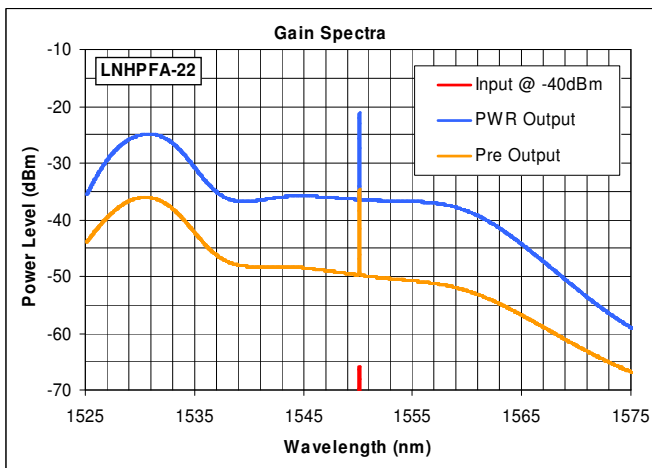
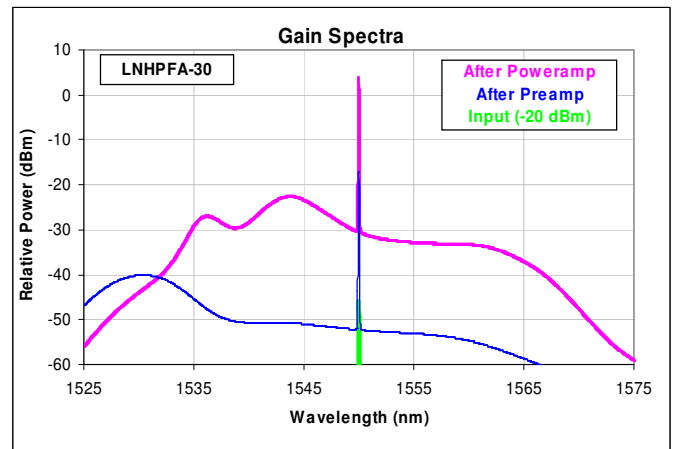
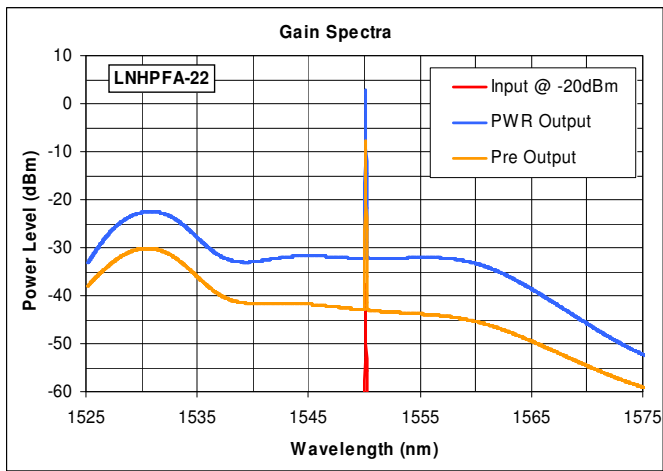
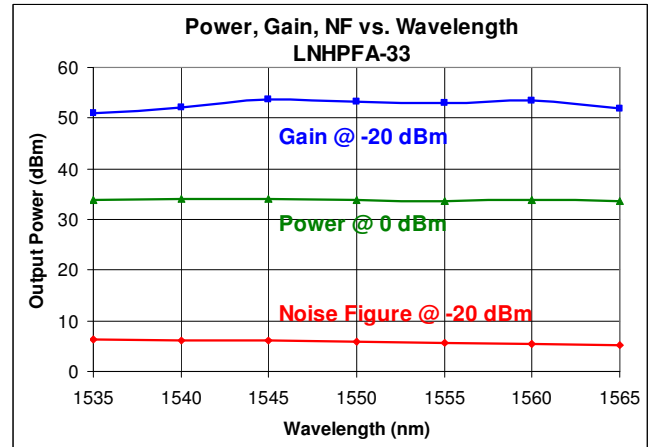
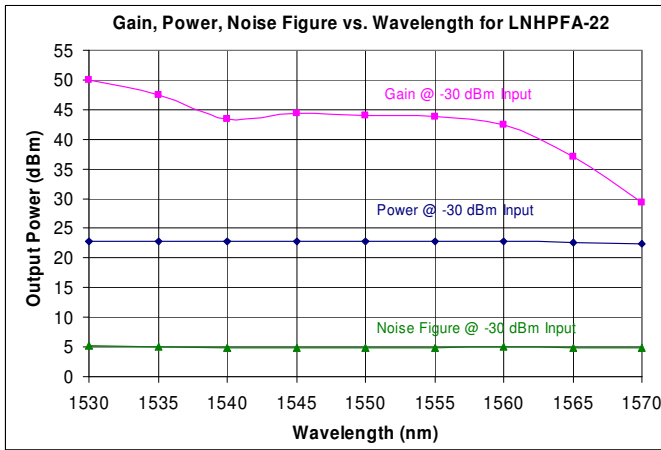
Specifications

	<u>LNHPFA-23</u>	<u>LNHPFA-30</u>	<u>LNHPFA-33</u>
Saturated output power	23 dBm	30 dBm	33 dBm
Small signal gain	0 to 50 dB (adjustable)	0 to 50 dB (adjustable)	0 to 50 dB (adjustable)
Optical noise figure	≤4.5 dB	≤5.5 dB	≤ 6.0 dB
Polarization sensitivity	<0.3 dB	<0.3 dB	<0.3 dB
Input power range	-40 to +10 dBm	-30 to +10 dBm	-30 to +20 dBm
Wavelength range	1528-1565 nm	1535-1565 nm	1535-1565 nm
Spectral gain flatness	≤1 dB (1540-1560 nm)	≤1 dB (1540-1560 nm)	≤1 dB (1540-1560 nm)
Dimensions	10 cm x 26 cm x 38 cm	10 cm x 26 cm x 38 cm	15 cm x 26 cm x 38 cm
Optical			
Gain medium	Er-doped silica fiber	Er- and Er/Yb-doped silica fiber	Er- and Er/Yb-doped silica fiber
Pump source	Diode laser		
Connectors	FC/APC (other connectors available on request)		
Environmental			
Operating temperature	+15 to 30 °C		
Storage temperature	-20 to 50 °C		
Electrical/ Mechanical			
Operating Voltage	85-264 VAC at 47-63 Hz		
Power consumption	<100 W		

PriTel, Inc.

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Typical Performance of PriTel's Low-Noise High Power Optical Fiber Amplifiers



Information contained herein is deemed to be reliable and accurate. PriTel, Inc. assumes no responsibility and shall have no liability relating to its use. PriTel, Inc. reserves the right to change product specifications at any time without notice.

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