LNHPFA Series

LOW-NOISE HIGH POWER OPTICAL FIBER AMPLIFIERS

Shown with power monitor option

PriTel's LNHPFA-XX-NMA 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 amplied in a booster amplifier. The Noise Figure is determined by the preamplifier.

Specifications

	LNHPFA-22-NMA	LNHPFA-30-NMA
Saturated output power	22 dBm	30 dBm
Small signal gain	25 to 50 dB (adjustable)	25 to 50 dB (adjustable)
Optical noise figure	≤5.0 dB	≤5.5 dB
Polarization sensitivity	<0.3 dB	<0.3 dB
Input power range	-40 to +10 dBm	-30 to +10 dBm
Wavelength range	1528-1565 nm	1535-1565 nm
Spectral gain flatness	≤1 dB (1540-1560 nm)	≤1 dB (1540-1560 nm)
Dimensions	15 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
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

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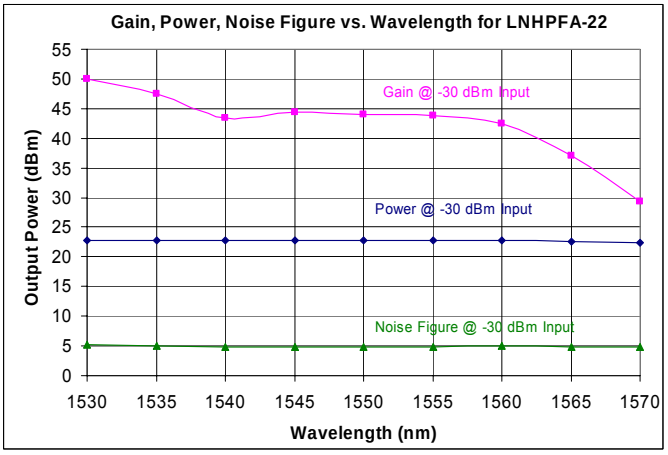
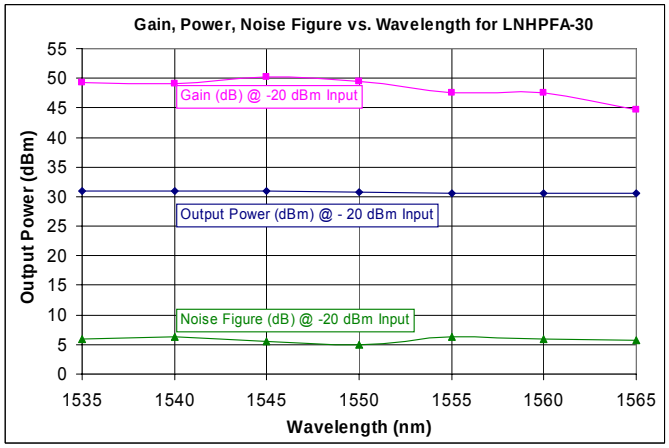
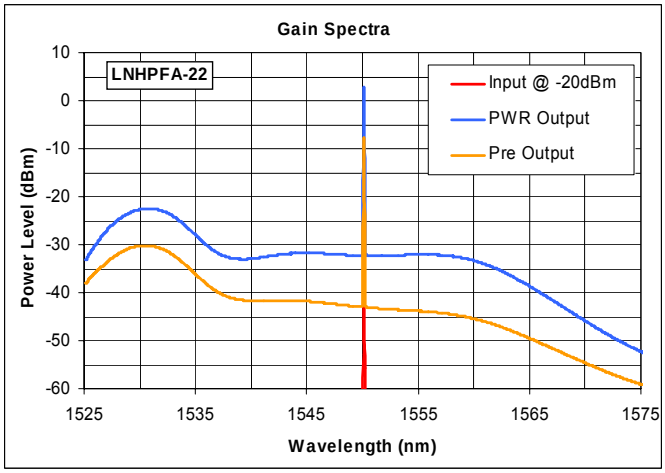
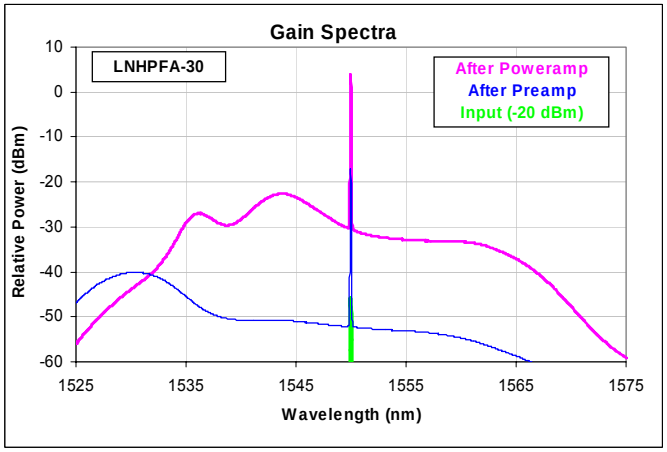
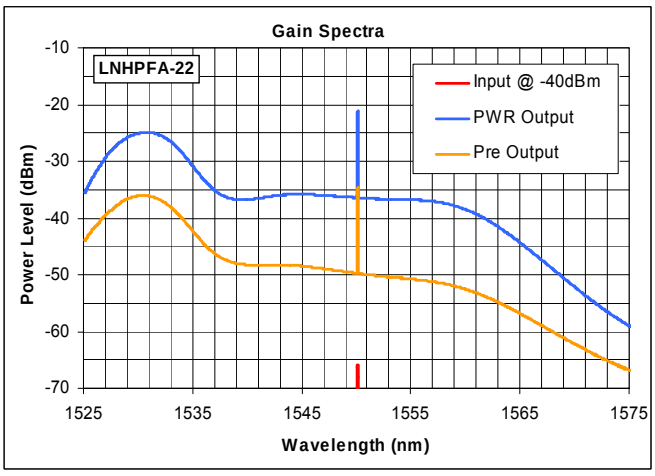
Typical Performance of PriTel's Low-Noise High Power Optical Fiber Amplifier

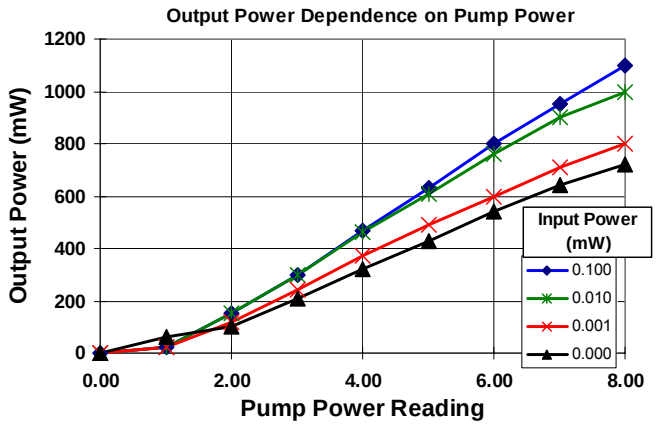












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