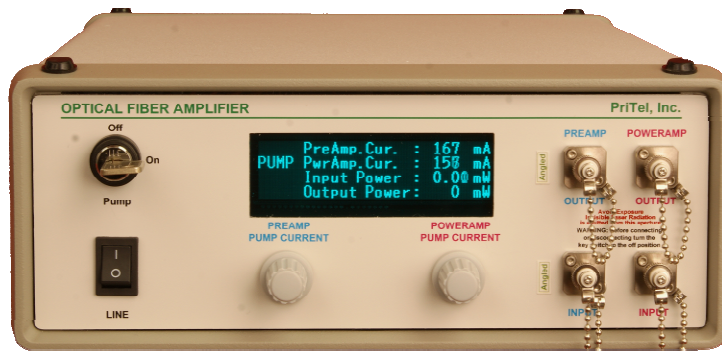


LNHP-PMFA-Series

LOW NOISE, HIGH POWER-POLARIZATION MAINTAINING OPTICAL FIBER AMPLIFIERS

PriTel's LNHP-PMFA-Series of Low-Noise High Power, Polarization Maintaining 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. The preamp and power-amp have independent access. By inserting an optical band-pass filter between the preamp and power amp, the out of band noise is greatly diminished.



LNHP-PMFFA-xx model with Input/Output power monitor option



Specifications

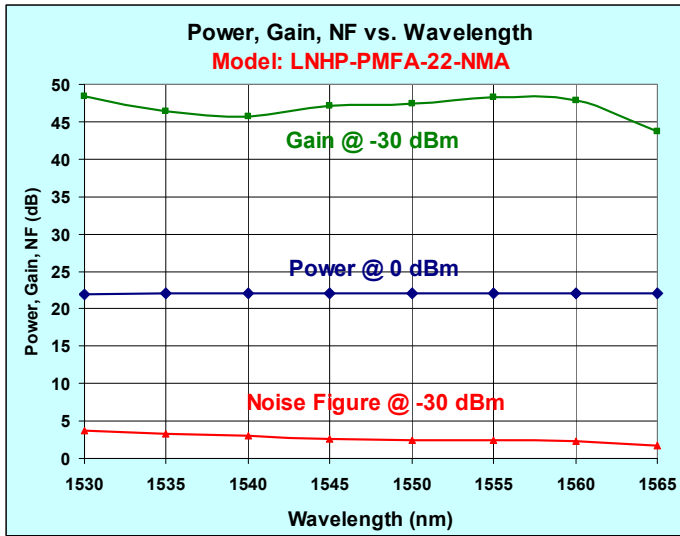
	<u>LNHP-PMFA-15</u>	<u>LNHP-PMFA-20</u>	<u>LNHP-PMFA-23</u>
Saturated output power	15 dBm	20 dBm	23 dBm
Signal gain	> 40 dB @ -30 dBm	> 43 dB @ -30 dBm	> 45 dB @ -30 dBm
Optical noise figure	< 2.5 dB @ -30 dBm	< 2.5 dB @ -30 dBm	< 3.0 dB @ -30 dBm
Input power range	-40 to +10 dBm	-40 to +20 dBm	-40 to +20 dBm
Wavelength range	1527-1565 nm	1527-1565 nm	1527-1565 nm
ACC	Standard	Standard	Standard
APC, ALC	Optional	Optional	Optional
Dimensions	10 cm x 26 cm x 28 cm	10 cm x 26 cm x 28 cm	10 cm x 26 cm x 28 cm
Optical			
Gain medium	Er doped core pumped silica fibers		
Pump source	Singlemode Diode laser (980 nm)		
Connectors	FC/APC (other connectors available upon request)		
Environmental			
Operating temperature	+15 to 30°C	Storage temperature	-20 to 50°C
Electrical/ Mechanical			
Operating Voltage	85-264 VAC at 47-63		
Power consumption	< 50 W		



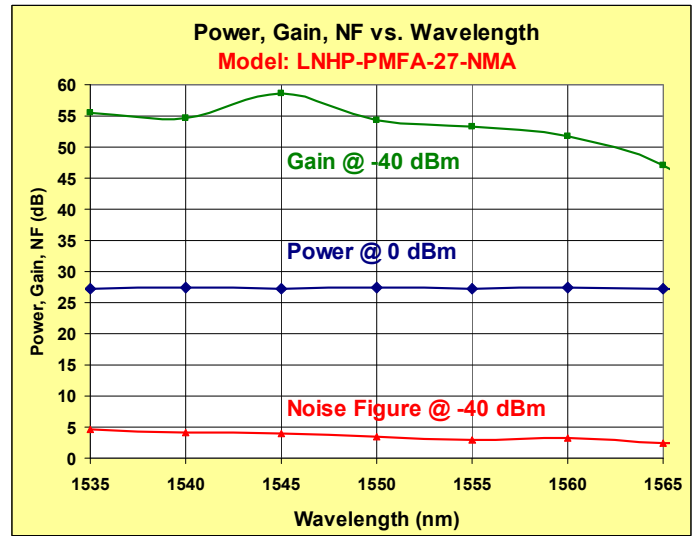
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E-mail: PriTel@PriTel.com
Internet: www.PriTel.com

Typical Performance of C-Band Low Noise High Power Optical Fiber Amplifiers

Er doped, Core Pumped Fibers

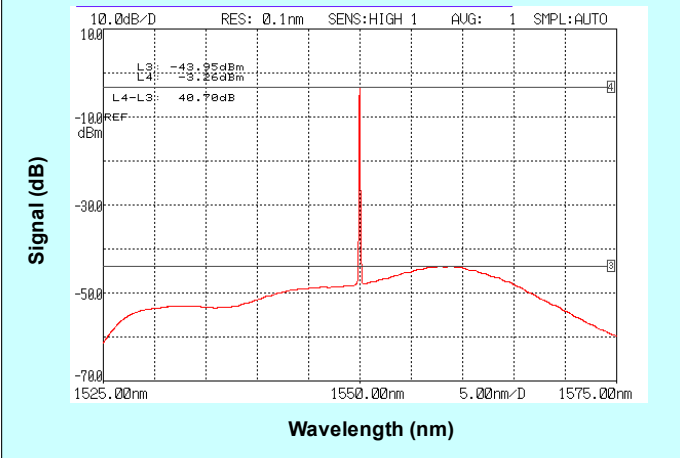


Er/Yb, Cladding Pumped Fibers



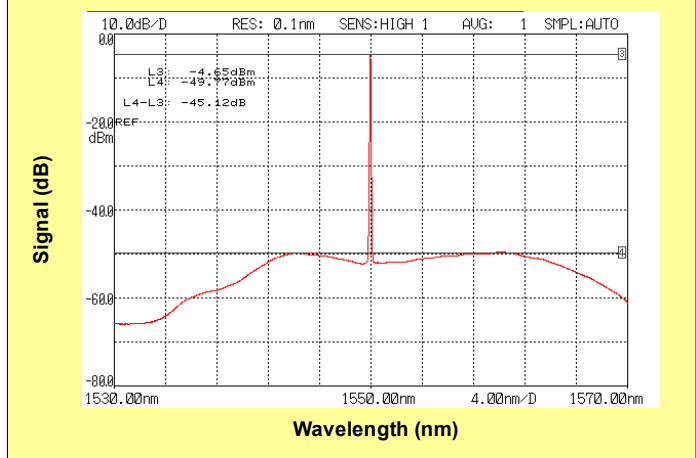
Output Optical Spectrum @ -10 dBm Input

Model: LNHP-PMFA-22-NMA



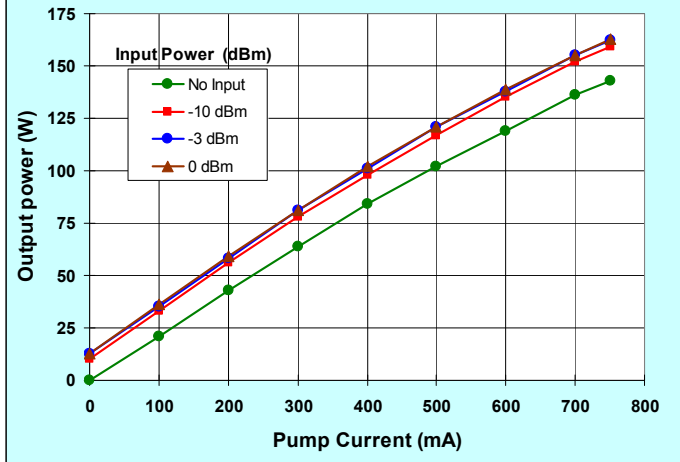
Output Optical Spectrum @ -10 dBm Input

Model: LNHP-PMFA-27-NMA



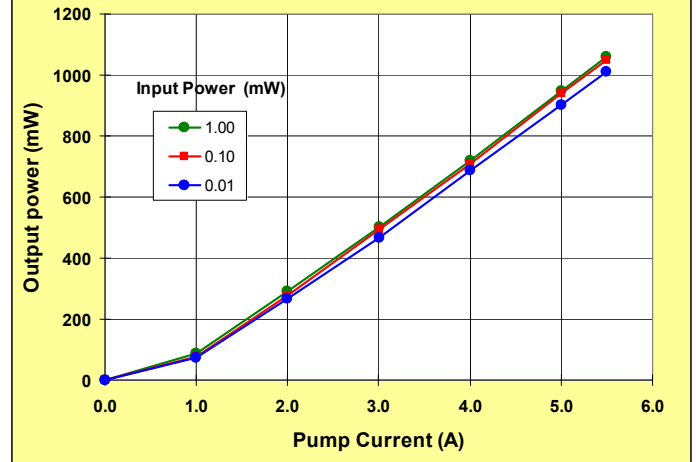
Pump Current vs Output Power

Model: LNHP-PMFA-22-NMA



Pump Current vs Output Power

Model: LNHP-PMFA-30-NMA



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.

