

PMFA Series L-Band

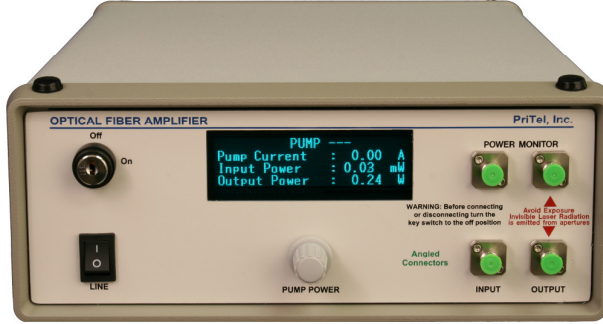
POLARIZATION MAINTAINING OPTICAL FIBER AMPLIFIERS

PriTel's PMFA-L Series of Polarization Maintaining Optical Fiber Amplifiers are based on well-established diode pumped pure Er and Erbium-Ytterbium co-doped optical fiber technology.

Input/output monitor option has optical taps in addition to digital display of input and output power levels. Output optical tap monitor eliminates accidental burning of connectors while trying to analyze optical spectrum.

Certified short pulse performance is available as an option for pulsewidths as short as 1 ps in L-Band.

PMFA-xx model without power monitor option



PMFA-xx model with power monitor option

Specifications

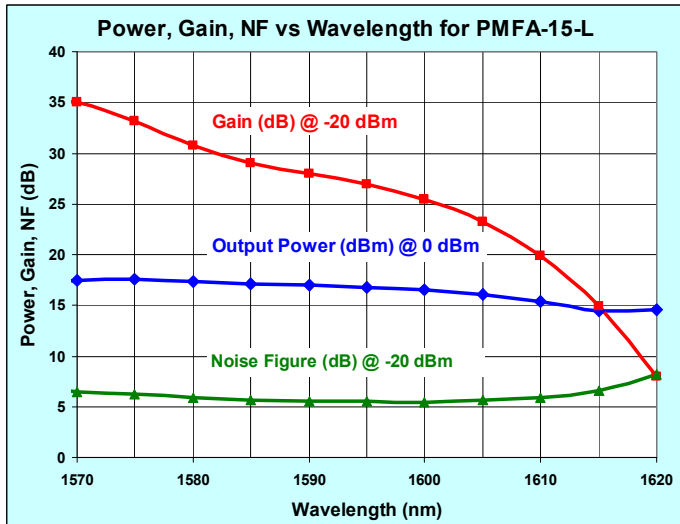
	<u>PMFA-15-L</u>	<u>PMFA-20-L</u>	<u>PMFA-24-L</u>	<u>PMFA-27-L</u>
Saturated output power	15 dBm	20 dBm	24 dBm	27 dBm
Signal gain	>23 dB @ -20 dBm	>25 dB @ -20 dBm	27 dB @ 0 dBm	30 dB @ 0 dBm
Optical noise figure @ 1590 nm	< 4 dB @ -20 dBm	< 5 dB @ -20 dBm	< 6 dB @ 0 dBm	< 7 dB @ 0 dBm
Input power range	-30 to +10 dBm	-20 to +10 dBm	-10 to +20 dBm	0 to +20 dBm
Wavelength range	1570-1615 nm	1565-1615 nm	1570-1615 nm	1570-1615nm
Dimensions	10 cm x 26 cm x 28 cm	10 cm x 26 cm x 28 cm	10 cm x 26 cm x 36 cm	10 cm x 26 cm x 36 cm
Optical				
Gain medium	Er doped core pumped silica fibers for models PMFA-15 to PMFA-20		Er/Yb, double-clad silica fiber for models PMFA-23-L to PMFA-27-L	
Pump source	Diode laser (910-980 nm)			
Connectors	FC/APC (other connectors available upon request)			
Environmental				
Operating temperature	+15 to 35°C			
Storage temperature	-20 to 50°C			
Electrical/ Mechanical				
Operating Voltage	85-264 VAC at 47-63 Hz			
Power consumption	< 50 W			



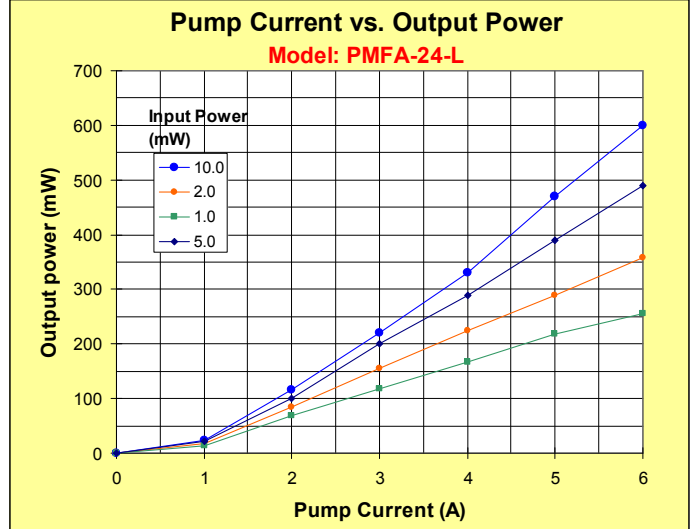
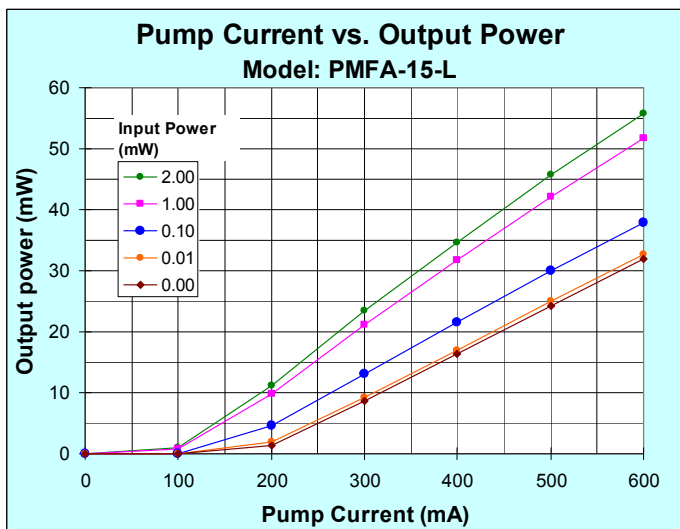
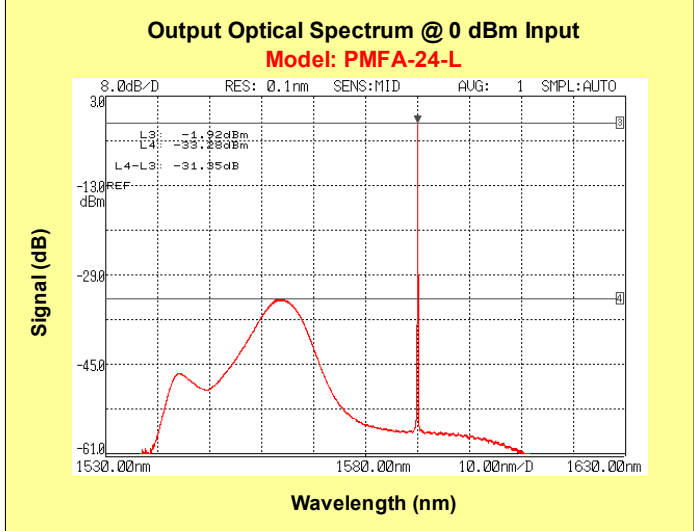
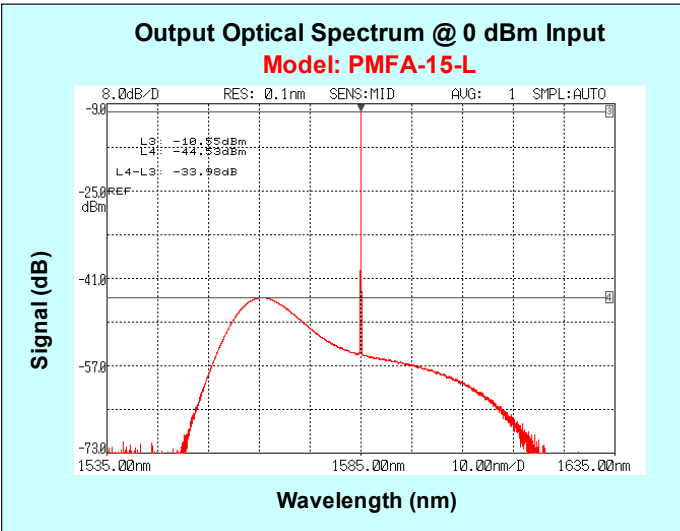
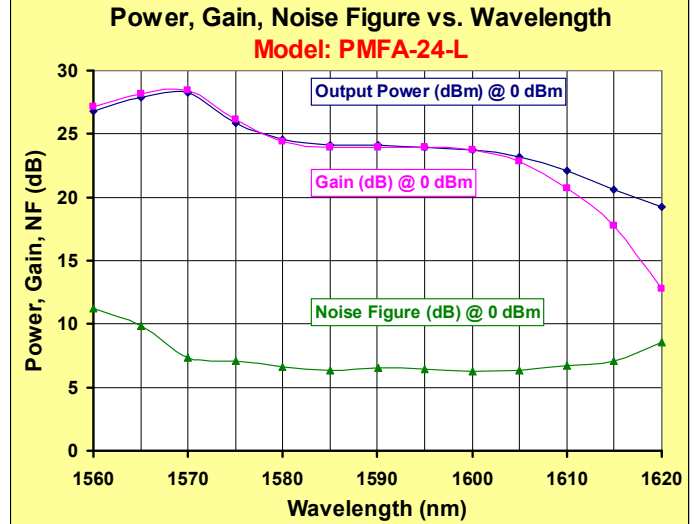
PriTel, Inc.
P.O. Box 4025,
Naperville, IL 60567-4025, USA
Ph: +1-630-983-2200, Fx: +1-630-983-2260
E-mail: PriTel@PriTel.com
Internet: www.PriTel.com

Typical Performance of Polarization Maintaining Optical Fiber Amplifiers

Er doped, Core Pumped Fibers



Er/Yb, Cladding Pumped Fibers



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PriTel, Inc.
 P.O. Box 4025, Naperville, IL 60567-4025, USA
 Ph: 630-983-2200, Fx: 630-983-2260 (USA)
 E-mail: PriTel@PriTel.com, Internet: www.PriTel.com