

PMFA Series

POLARIZATION MAINTAINING OPTICAL FIBER AMPLIFIERS

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

PriTel also manufactures amplifiers with excellent short-pulse performance. Certified shortpulse performance is available for PriTel SP-PMFA High Power Optical Fiber Amplifiers for pulsewidths down to 300 fs.



*2U Rack Mountable
PMFA-xx model with
power monitor option*

Specifications

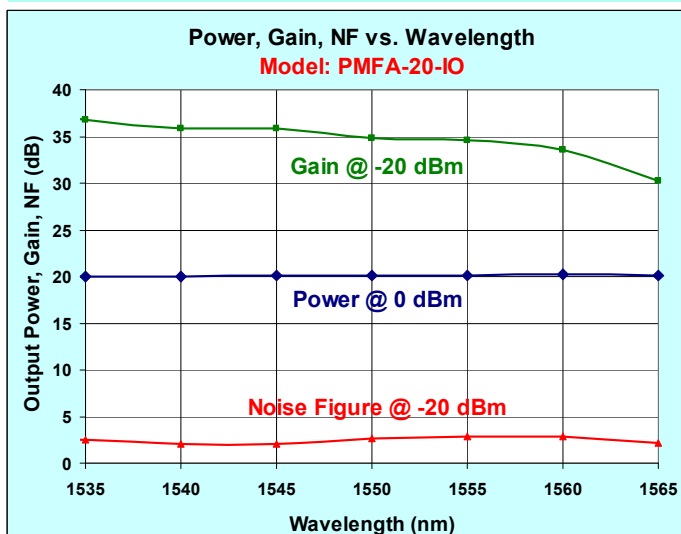
	<u>PMFA-23</u>	<u>PMFA-27CP</u>	<u>PMFA-33</u>	<u>PMFA-37</u>
Saturated output power	23 dBm @ +3 dBm	27 dBm @ +3 dBm	33 dBm @ + 6 dBm	37 dBm @ +17 dBm
Signal gain	36 dB @ -20 dBm	> 36 dB @ -20 dBm	32 dB @ 0 dBm	37 dBm @ +17 dBm
Optical noise figure	< 4 dB @ -20 dBm	< 5 dB @ -20 dBm	< 10 dB @ 0 dBm	< 12 dB @ +15 dBm
Input power range	None +20 dBm	None - +20dbm	-3 to +20 dBm	+15 to +23 dBm
Wavelength range	1527-1565 nm	1527-1565 nm	1535-1565 nm	1535-1565 nm
Spectral gain flatness (single channel input)	0.5 dB typical	0.5 dB typical	1.0 dB typical	1.0 dB typical
Minimum distortion-free pulse width (standard)	1.0 ps	1.0 ps	2 ps	2 ps
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	15 cm x 26 cm x 36 cm
Optical				
Gain medium	Er doped core pumped silica fibers for models PMFA-15 to PMFA-27		Er/Yb, double-clad silica fiber for models PMFA-27 to PMFA-37	
Pump source	Diode laser (910-980 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 Hz			
Power consumption	< 50 W			



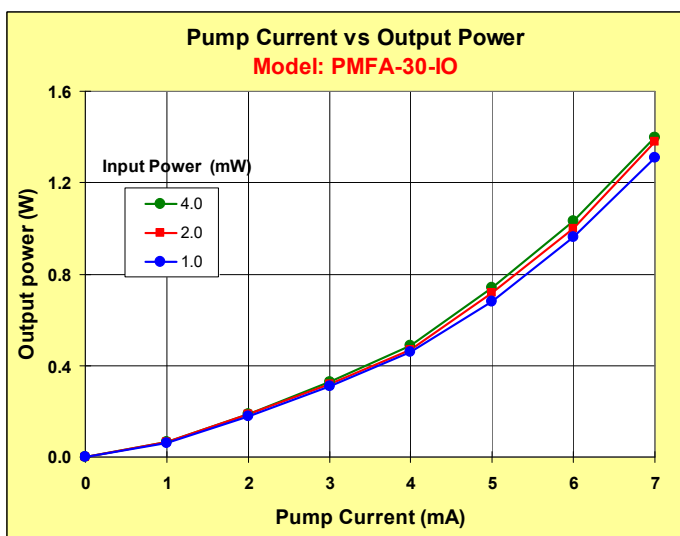
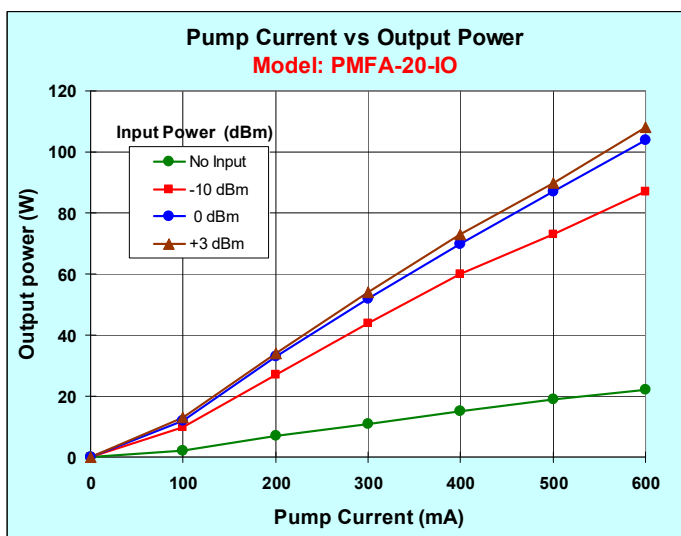
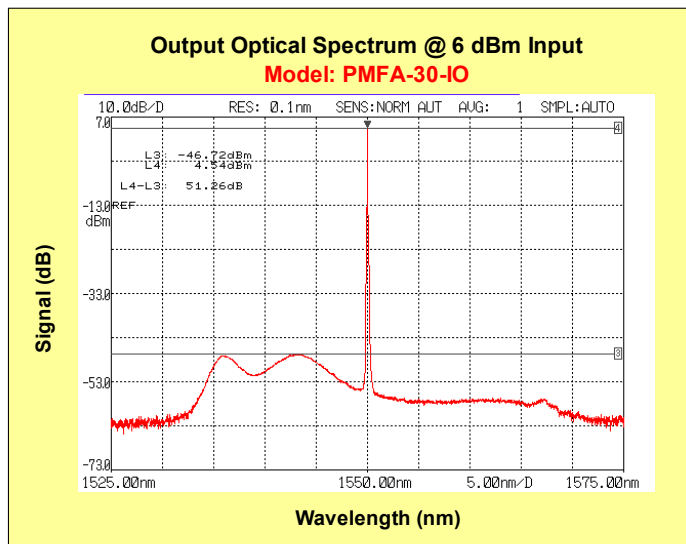
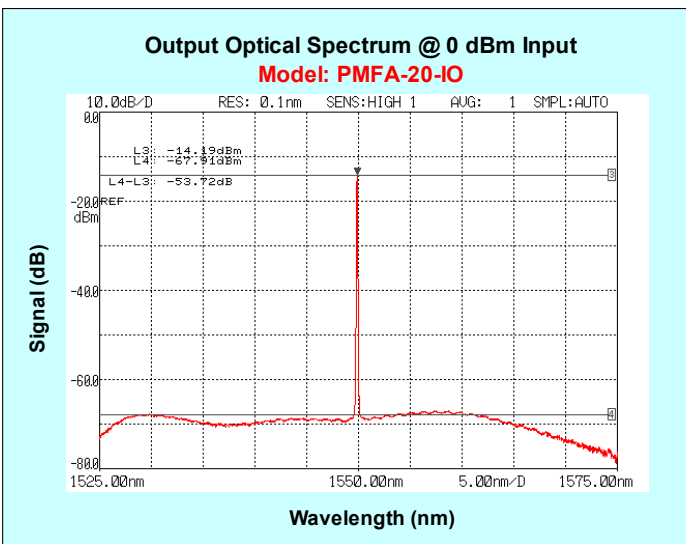
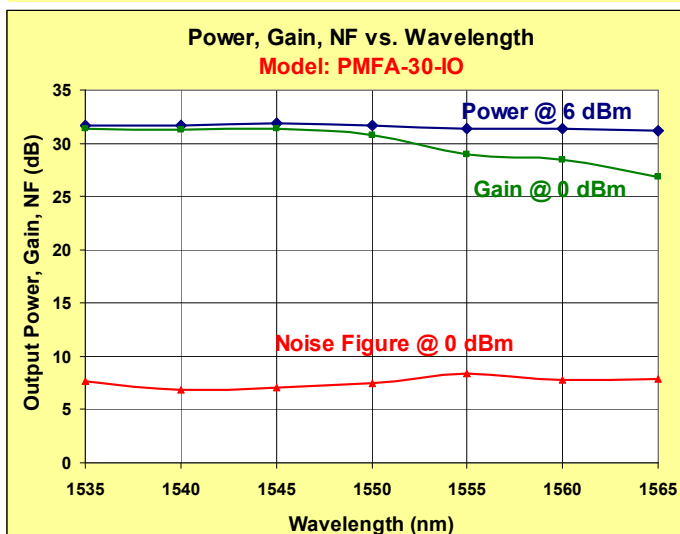
PriTel, Inc.
P.O. Box 4025,
Naperville, IL 60567-4025, USA
Ph: +1-630-983-2200, Fx: +1-630-983-2260
E-mail: PriTel@PriTel.com
, Internet: www.PriTel.com

Typical Performance of Polarization Maintaining Optical Fiber Amplifiers

Er doped, Core Pumped Fibers



Er/Yb, Cladding Pumped Fibers



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.



PMFA_R16.pub

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