

PMFA Series

POLARIZATION MAINTAINING OPTICAL FIBER AMPLIFIER MODULES

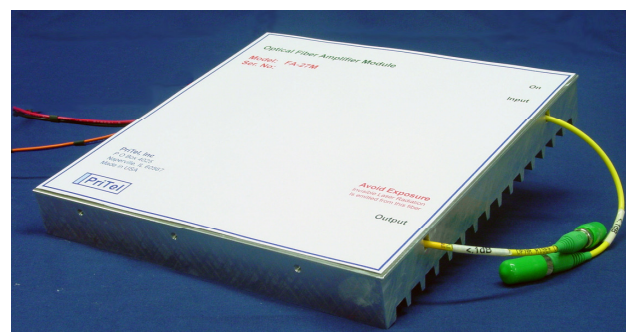
PriTel's PMFA Series of Polarization Maintaining Optical Fiber Amplifiers are based on well-established diode pumped pure Er and Erbium-Ytterbium co-doped optical fiber technology.

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.

*PMFA-15-M to
PMFA-23-M*



*PMFA-24-M to
PMFA-30-M*



Specifications

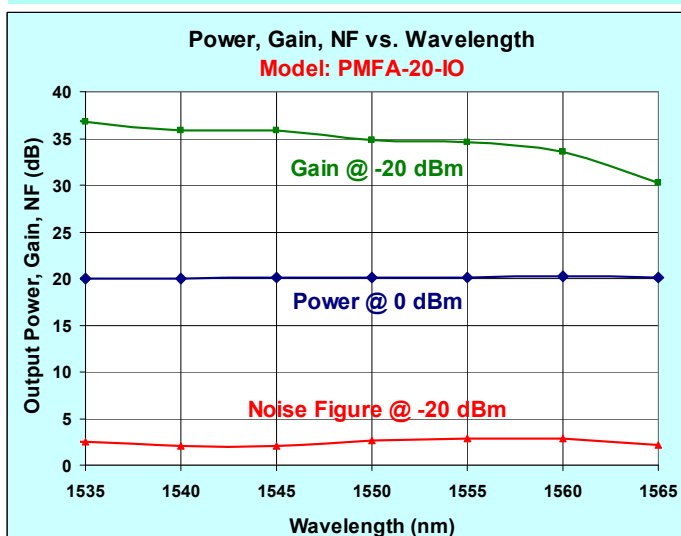
	<u>PMFA-15-M</u>	<u>PMFA-23-M</u>	<u>PMFA-27-M</u>	<u>PMFA-30-M</u>
Saturated output power	15 dBm	23 dBm	27 dBm	30 dBm
Signal gain	30 dB @ -20 dBm	35 dB @ -20 dBm	27 dB @ 0 dBm	30 dB @ 0 dBm
Optical noise figure	< 3 dB @ -20 dBm	< 4.5 dB @ -20 dBm	< 7 dB @ 0 dBm	< 8 dB @ 0 dBm
Input power range	-30 to +10 dBm	-20 to +20 dBm	-10 to +20 dBm	-3 to +20 dBm
Wavelength range	1528-1565 nm	1528-1565 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	1.5 ps	1.5 ps
Dimensions	95 mm x 150 mm x 15 mm		200 mm x 200 mm x 35 mm	
Optical				
Gain medium	Er doped core pumped silica fibers for models PMFA-15 to PMFA-23		Er/Yb, double-clad silica fiber for models PMFA-24 to PMFA-30	
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	+5 V @ 1 A		+5 V @ 8 A	
Power consumption	< 5 W		< 50 W	



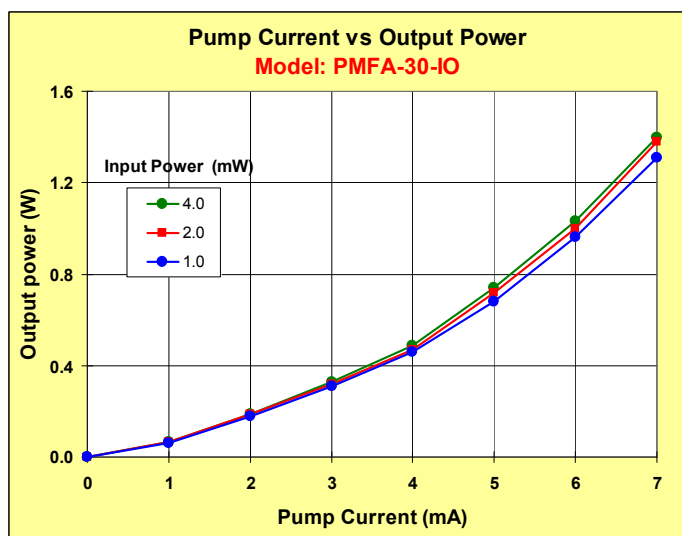
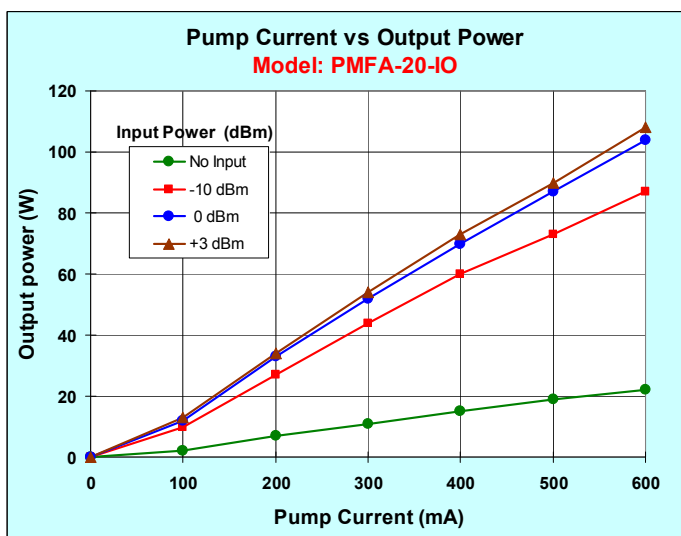
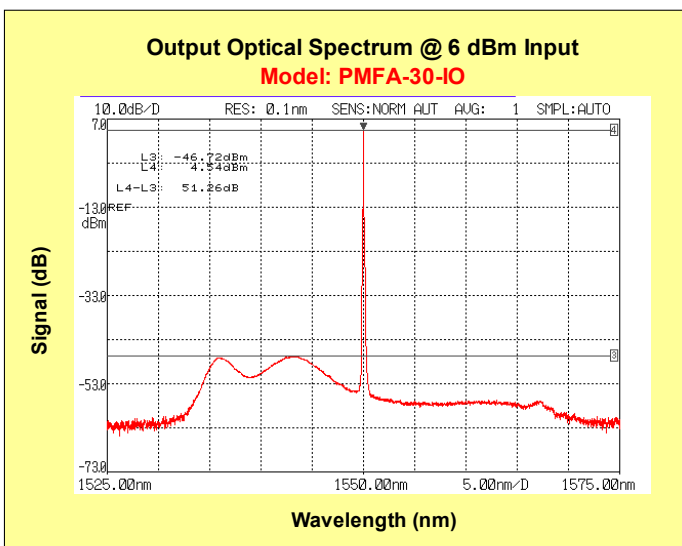
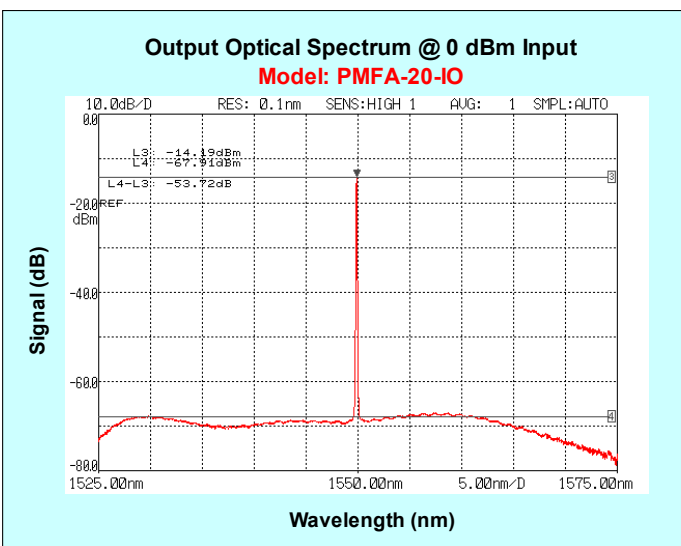
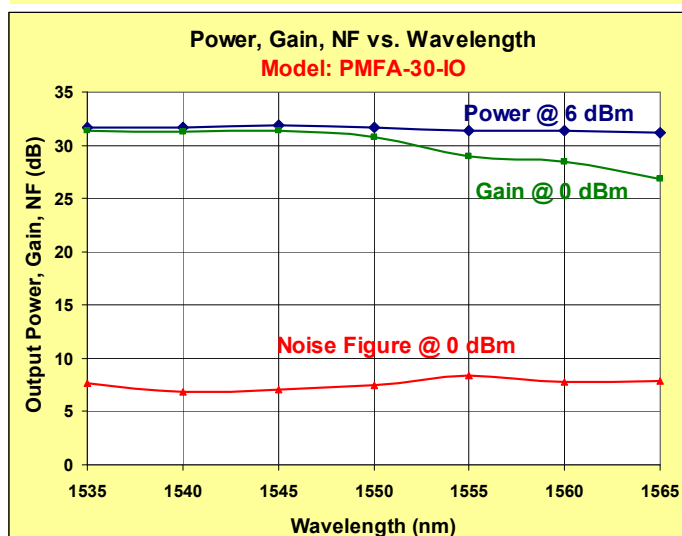
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Typical Performance of Polarization Maintaining Optical Fiber Amplifiers

Er doped, Core Pumped Fibers



Er/Yb, Cladding Pumped Fibers



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