

PM SPFA Series

POLARIZATION MAINTAINING SHORT PULSE OPTICAL FIBER AMPLIFIERS

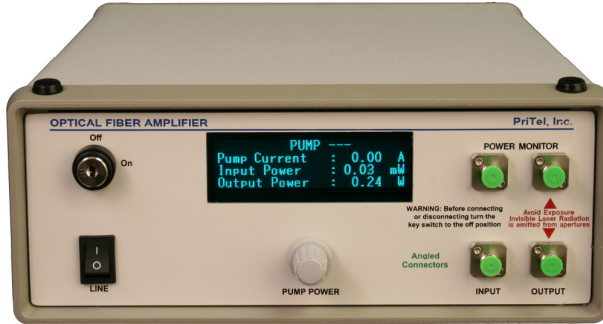
PriTel manufactures ED-FAs with excellent sub-picosecond pulse performance—with very low dispersion and low PMD without the use of dispersion-compensating fiber that cause high nonlinearities. As seen on the next page, these amplifiers do not significantly change the input pulsewidth.

Certified shortpulse performance to 300 fs or to 600 fs is available in models from 15 dBm to 24 dBm saturated output. Contact PriTel for information about certified performance to 600 fs for models from 24 dBm to 33 dBm saturated output.

In the PM SPFA Series, input power and output power are monitored internally and are displayed on the front information panel.



PM SPFA-xx model without power monitor option



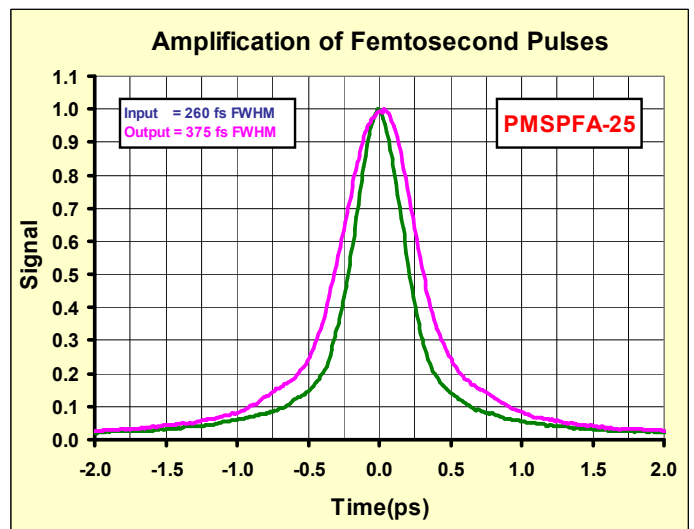
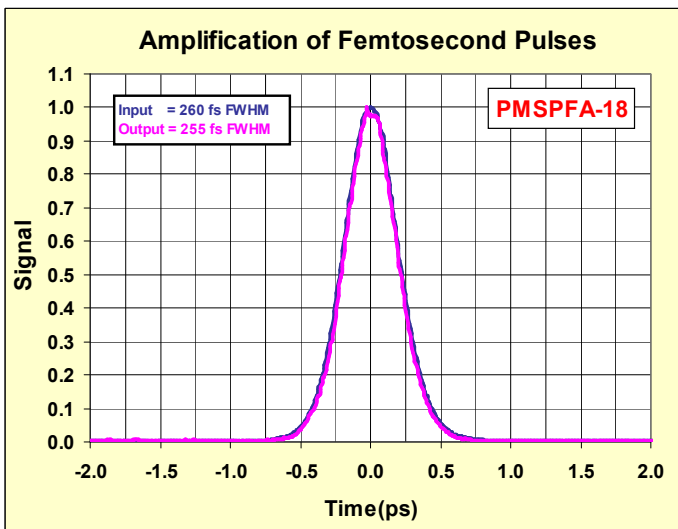
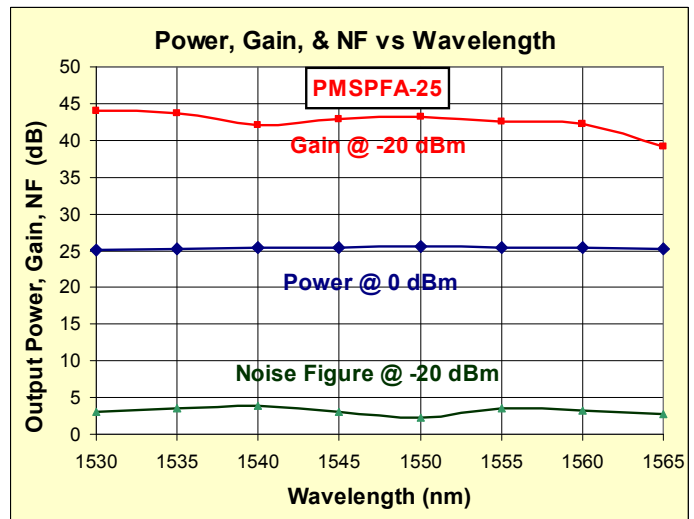
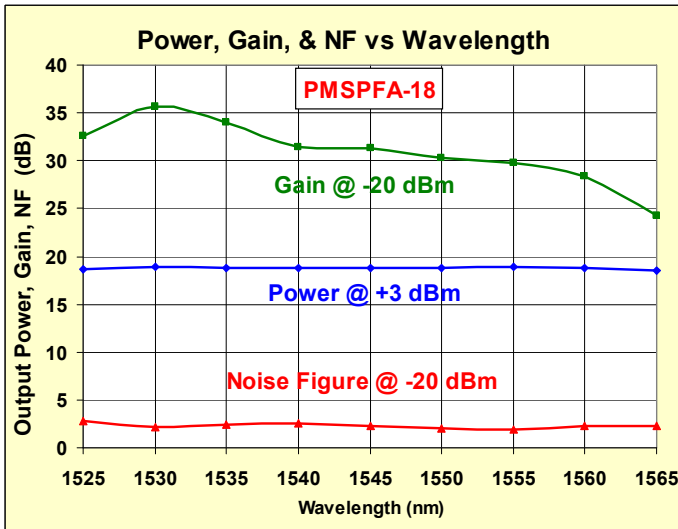
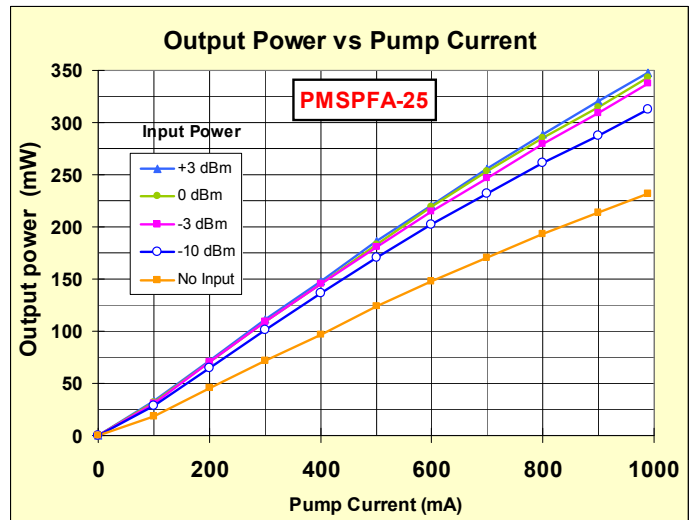
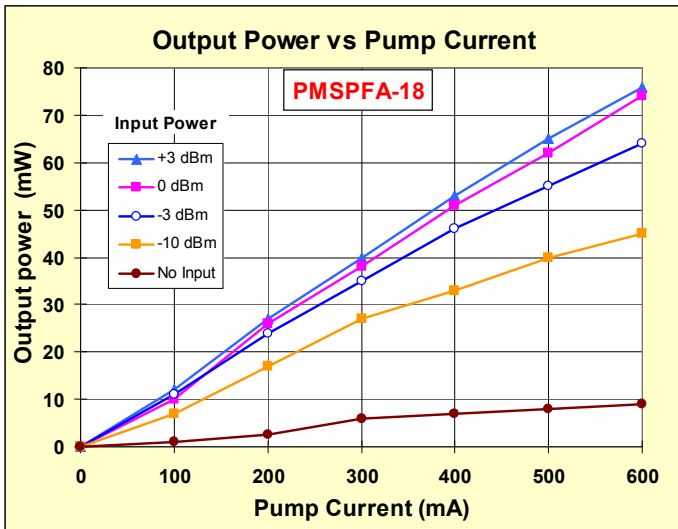
PM SPFA-xx model with power monitor option

Specifications

MODEL	PMSPFA-18	PMSPFA-20	PMSPFA-23	PMSPFA-25
Saturated output power	18 dBm	20 dBm	23 dBm	25 dBm
Shortest inpt pulse width without output pulse broadening	300 fs (specify PMSPFA-XX-03 when ordering, XX = Sat'd P _{out} in dBm) or 600 fs (specify PMSPFA-XX-06 when ordering)			
Dispersion	<< 35 fs/nm of spectral bandwidth for PMSPFA-XX-03 << 70 fs/nm of spectral bandwidth for PMSPFA-XX-06			
Small signal gain	>30 dB	>32 dB	>35 dB	>35 dB
Optical noise figure	<2.5 dB	<3.5 dB	<3.0 dB	<4.0 dB
Polarization sensitivity	<0.2 dB	<0.2 dB	<0.2 dB	<0.2 dB
PMD	< 0.2 ps	< 0.2 ps	< 0.2 ps	< 0.2 ps
Input power range	-30 to +10 dBm	-30 to +10 dBm	-15 to +10 dBm	-15 to +10 dBm
Wavelength range	1528-1565 nm	1528-1565 nm	1528-1565 nm	1528-1565 nm
Spectral gain flatness with single ch. Input	0.5 dB typical	0.5 dB typical	0.5 dB typical	0.5 dB typical
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	10 cm x 26 cm x 28 cm
Optical				
Gain medium	Er-doped silica fiber			
Pump source	980-nm diode laser			
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			

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Typical Performance of Short Pulse Optical Fiber Amplifiers



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