

FA Series

HIGH POWER OPTICAL FIBER AMPLIFIERS

PriTel's FA Series of High Power Optical Fiber Amplifiers are based on well-established solid-state-pumped Erbium-Ytterbium co-doped optical fiber technology.

PriTel also manufactures amplifiers with excellent short-pulse performance. Certified shortpulse performance is available for PriTel SPFA High Power Optical Fiber Amplifiers for pulsewidths to 700 fs.

Higher power amplifiers are available on a custom basis.

*FA-xx model without
power monitor option*



*FA-xx model with
power monitor option*



Specifications

	FA-27	FA-30	FA-33	FA-37
Saturated output power	27 dBm	30 dBm	33 dBm	37 dBm
Small signal gain	>35 dB	>35 dB	>40 dB	>40 dB
Optical noise figure	<8 dB	<10 dB	<12 dB	<14 dB
Polarization sensitivity	<0.2 dB	<0.2 dB	<0.2 dB	<0.2 dB
Input power range	-15 to +10 dBm	-10 to +10 dBm	0.0 to +10 dBm	+13 to 20 dBm
Wavelength range	1535-1565 nm	1535-1565 nm	1535-1565 nm	1545-1565 nm
Spectral gain flatness (single channel input)	0.5 dB typical	0.5 dB typical	0.8 dB typical	1.0 dB typical
Minimum distortion-free pulsewidth (standard)	1.5 ps	1.5 ps	1.5 ps	1.5 ps
Dimensions	10 cm x 26 cm x 36 cm	10 cm x 26 cm x 36 cm	10 cm x 26 cm x 36 cm	15 cm x 26 cm x 36 cm
Optical				
Gain medium	Er/Yb-doped double-clad silica fiber			
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	<125 W			



PriTel, Inc.

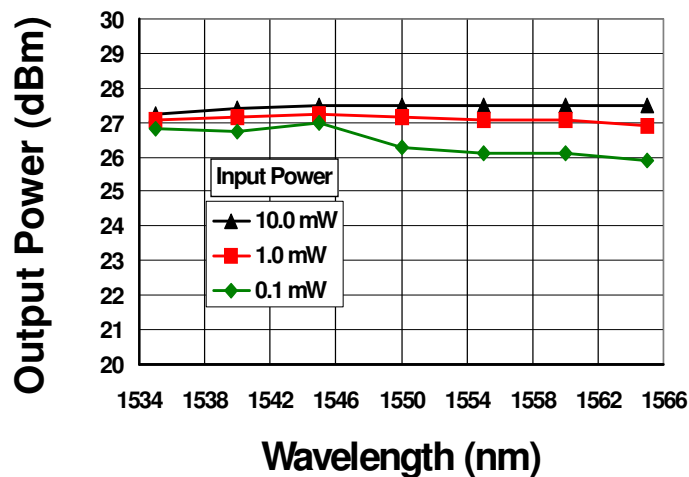
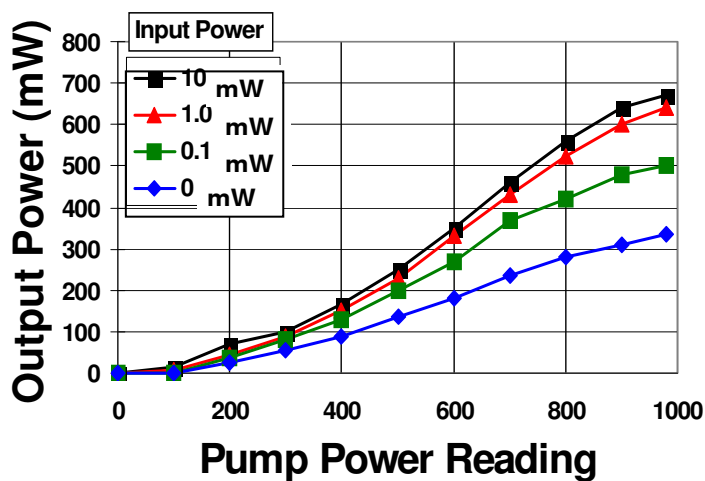
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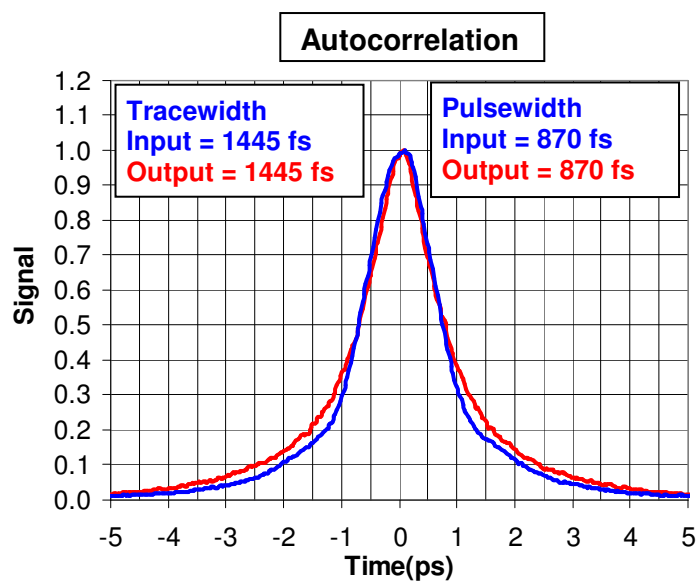
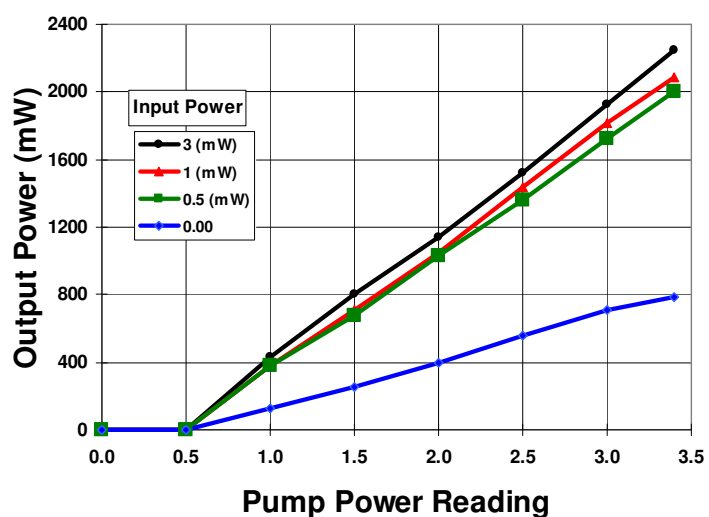
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Typical Performance of PriTel's High Power Optical Fiber Amplifier Model FA-27



Typical Performance of PriTel's High Power Optical Fiber Amplifier Model FA-33



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.



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