

FA-M Series

HIGH POWER OPTICAL FIBER AMPLIFIER MODULES

PriTel's FA Series of High Power Optical Fiber Amplifier Modules 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 500 fs.

Higher power amplifiers are available on a custom basis.



Specifications

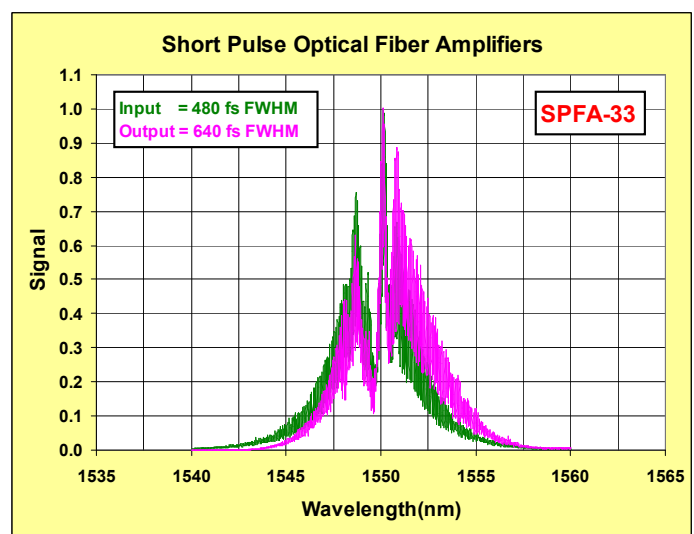
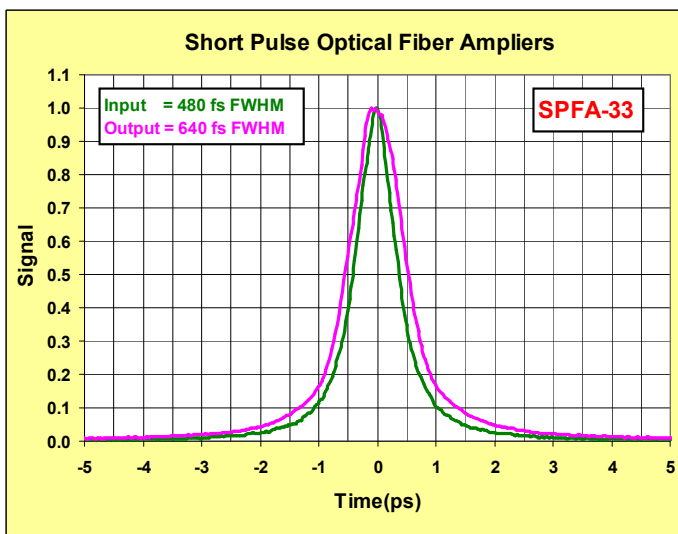
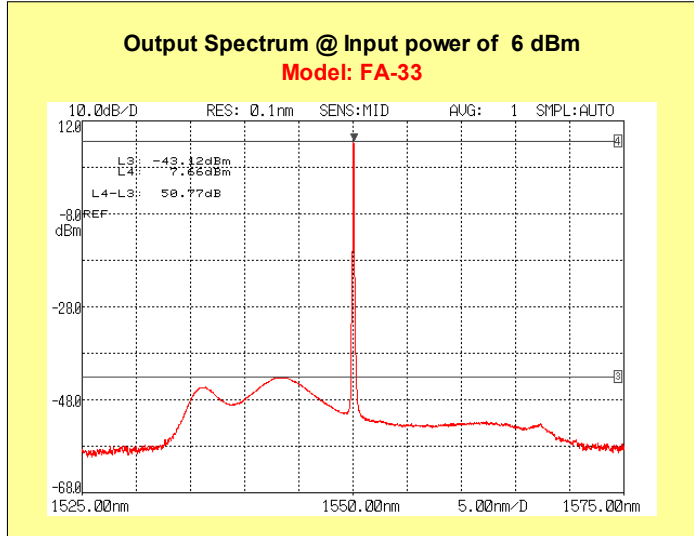
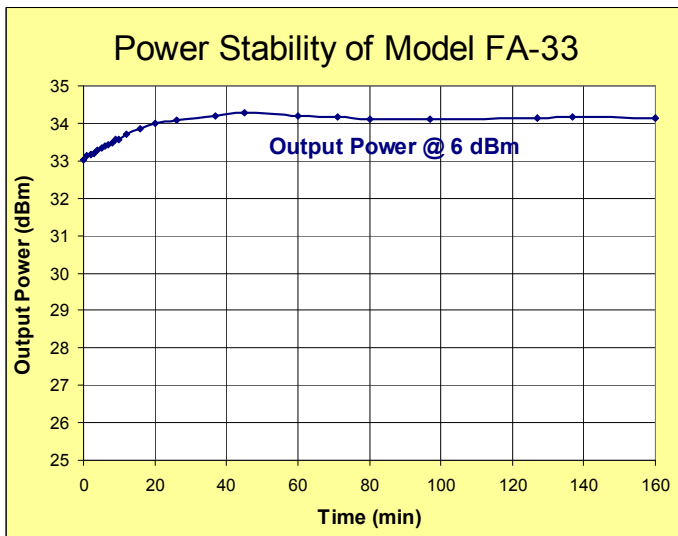
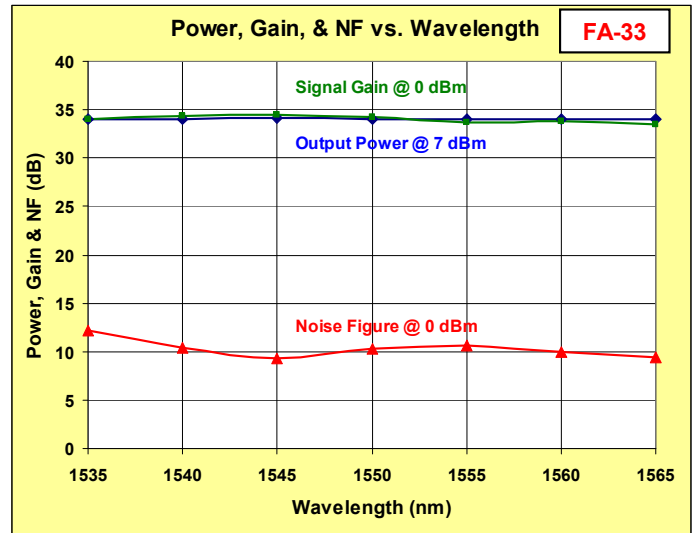
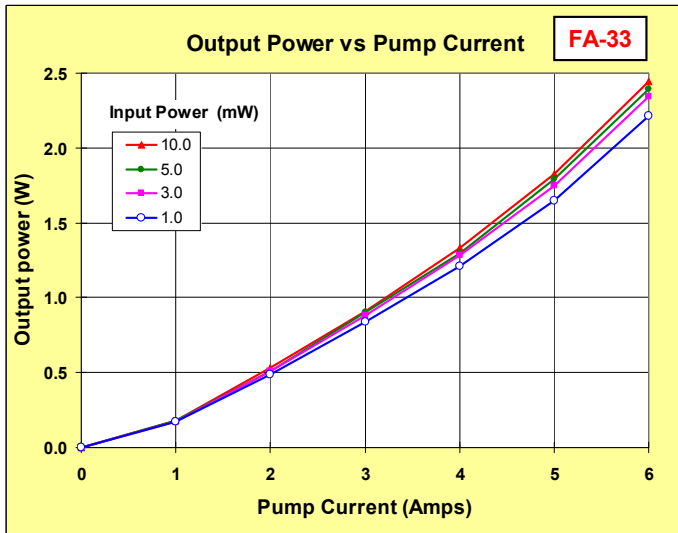
	<u>FA-27-M</u>	<u>FA-30-M</u>	<u>FA-33-M</u>
Saturated output power	27 dBm	30 dBm	33 dBm
Signal gain @ 0 dBm	> 27 dB	> 30 dB	> 33 dB
Optical noise figure	< 8 dB	< 10 dB	< 12 dB
Input power range	-10 to +20 dBm	-3 to +20 dBm	-3 to +20 dBm
Wavelength range	1535-1565 nm	1535-1565 nm	1535-1565 nm
Spectral gain flatness (single channel input)	0.5 dB typical	0.7 dB typical	0.8 dB typical
Minimum distortion-free pulsewidth (standard)	1.2 ps	1.2 ps	1.2 ps
Dimensions	20 cm x 20 cm x 3.5 cm	20 cm x 20 cm x 3.5 cm	20 cm x 20 cm x 3.5 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		Electrical/ Mechanical	
Operating temperature	+0 to 30°C	+5 VDC @ 5 amps for FA-27 +6 VDC @ 8 amps for FA-30 to 33	
Storage temperature	-20 to 50°C	< 30 W	

Electrical Connections (DB-9 connector)							
Pin	Wire Color	Function	Value	Pin	Wire Color	Function	Value
1	Red	DC Power	+ 5 Vdc	6	Green	Input power monitor (see Note A)	1 mW = 500 mV
2	Gray	Current Limit Status	+5 V = laser on 0 = over limit	7	Orange	Output power monitor (see Note A)	500 mW = 1 V
3	White	Current control	1 V = 250 mA	8	Yellow	Diode current monitor	1 mA = 1 mV
4	Purple	Pump Diode Control	+5 V = on 0 V = off	9	Brown	Common for monitors	
5	Black	Ground, DC power				Note A) Present only if the power monitor option is selected	



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Typical Performance of High Power Optical Fiber Amplifiers



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