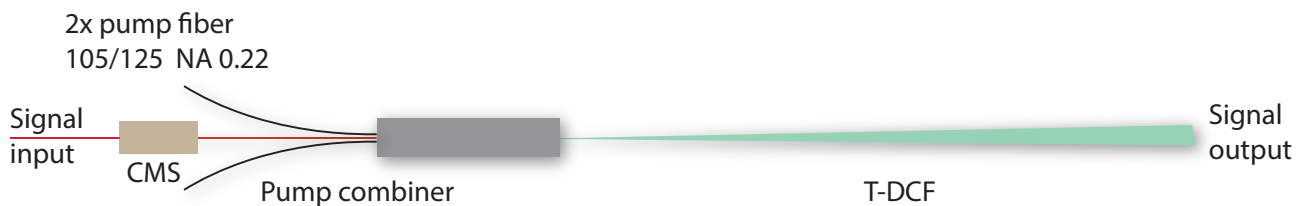


TGModule A-PM

TGModule A-PM incorporates Ampliconyx patent protected, polarization maintaining ytterbium doped tapered double clad fiber (T-DCF) (US 8,433,168 B2, Japan 5390524, Peoples Republic of China ZL 200880119087.7, EPO 08805462.2 pending) spliced to a pump combiner allowing easy integration of pump diodes. The wide end of T-DCF is terminated by angle cleave. The module is fully tested and shipped with complete test report.



Specifications

Wavelength	nm	1030-1040
Pump wavelength	nm	976 +/- 2
Mode field diameter	µm	88
Polarization extinction ratio (PER)	dB	> 16
M ²		< 1.15
Ellipticity		> 0.92
Core NA		0.11
Cladding NA		0.4
Input signal fiber		PM 6/125 DCF or PM 10/125 DCF
Pump fiber, narrow end		2 fibers 105/125 NA 0.22, 25 W each
Output power		> 40 W @ 30 mW input, fully pumped from both sides
Power of seed source	mW	> 0.5
Back reflected power	W	< 1
Recommended min. water flow	l/min	5 @ 20 °C
Pump power	W	< 25
Pump power (wide end, free space)	W	< 100
Min. coiling diameter	cm	37.5

Ordering: TGMA - PM - wavelength - input fiber
Example: TGMA - PM - 1035 - 6/125 DCF



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Example amplification

Test condition: 21 MHz, 25 ps, 30 mW 1035 nm pulsed input signal

Output average power: 40 W

Beam quality M^2 : 1.08

Amplification: 31 dB

