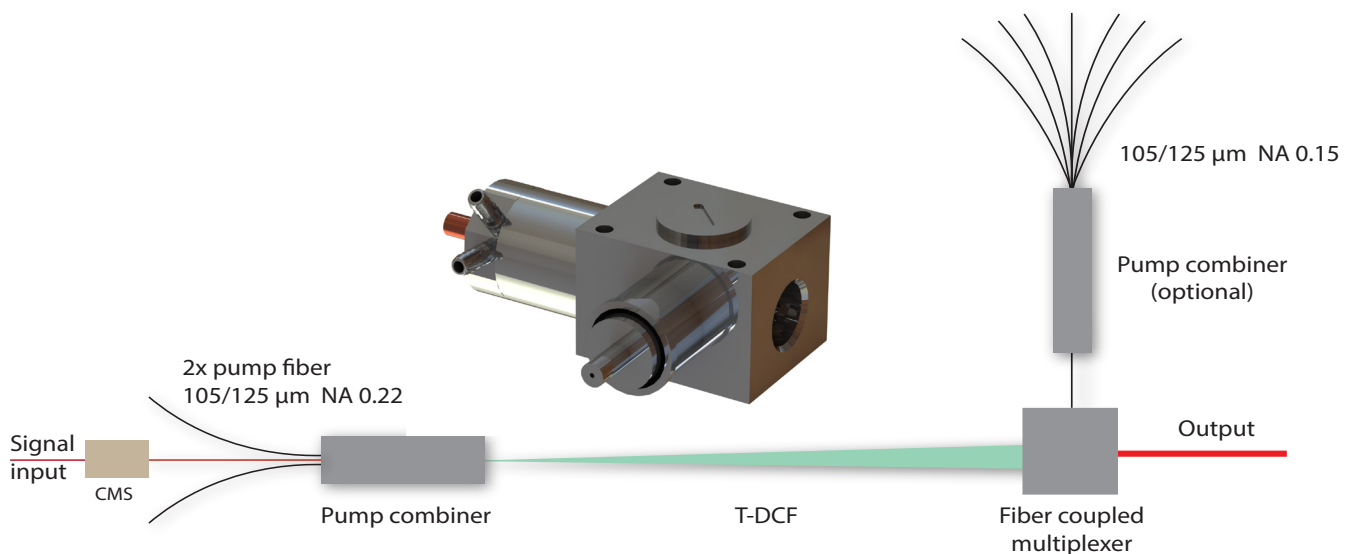


TGModule B-PM

TGModule B-PM incorporates Ampliconyx patent protected, polarization maintaining ytterbium doped tapered double clad fibers (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 a fiber coupled water cooled multiplexer enabling splicing of pump diodes to wide T-DCF end and free space amplified light output. The multiplexer is designed to enable reliable operation of the gain module under pump power up to 200 W provided that proper heat management of T-DCF is ensured. The module is fully tested and shipped with complete test report.



Ampliconyx Oy
Lautakatonkatu 18
33580 Tampere, Finland
+358 40 705 4772

www.ampliconyx.com
sales@ampliconyx.com

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
Pump fiber, wide end		1 fiber 200/220 NA 0.22 100 W
		or 1 fiber 105/125 NA 0.22 100 W
		or 4 fibers 105/125 NA 0.15 50 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, narrow end	W	< 25
Pump power, wide end	W	< 100
Min. coiling diameter	cm	37.5

Ordering: TGMB - PM - wavelength - input fiber - wide end pump fiber(s)

Examples: TGMB - PM - 1035 - 6/125 DCF - 1x200/220

TGMB - PM - 1035 - 10/125 DCF - 4x105/125



Ampliconyx Oy
Lautakatonkatu 18
33580 Tampere, Finland
+358 40 705 4772

www.ampliconyx.com
sales@ampliconyx.com

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

