

TGModule C-PM

TGModule C-PM is an amplifying module containing all needed optical components packaged inside a water-cooled aluminum housing. The module includes 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). Fiber coupled combiner and multiplexer in both ends make it straightforward to splice external pump diodes provided by customer. This module is ideal for customers, who want to have fully assembled, proper cooled gain unit, but prefer to use their own pump diodes. The module is fully tested and shipped with complete test report.



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

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

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



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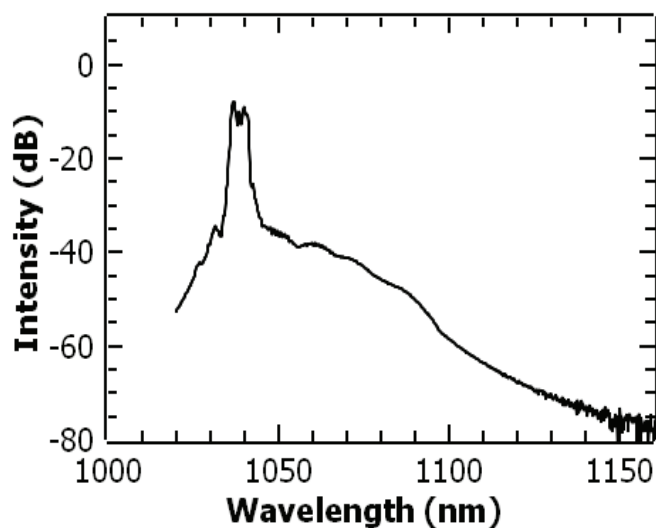
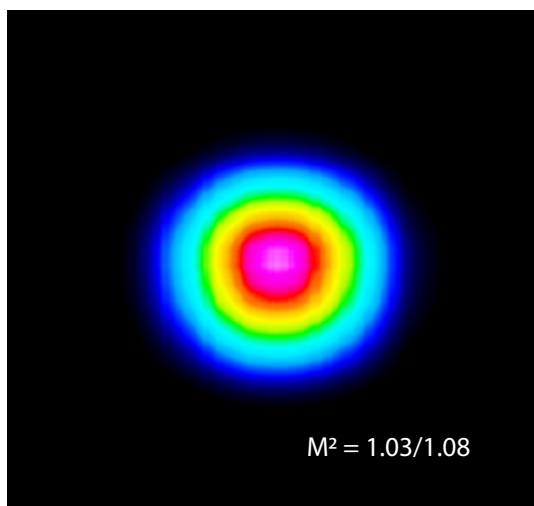
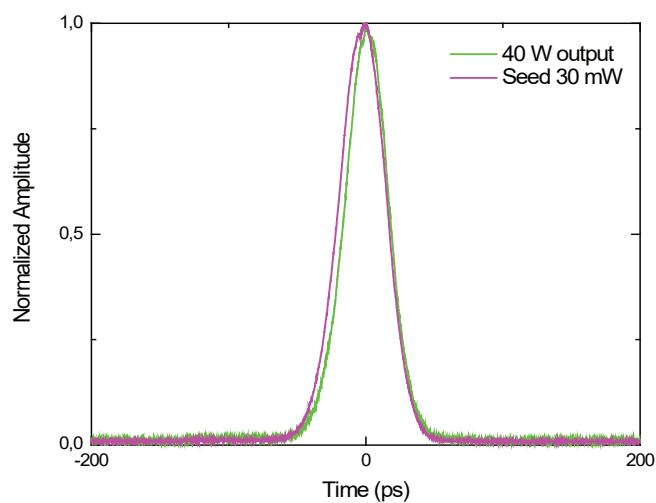
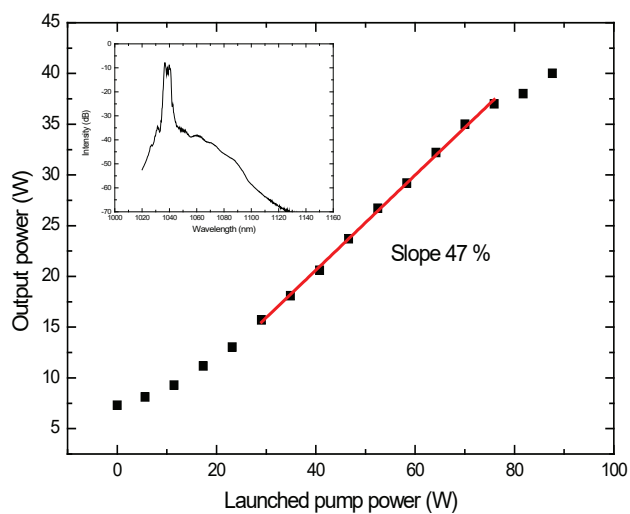
Example amplification

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



Dimensions

