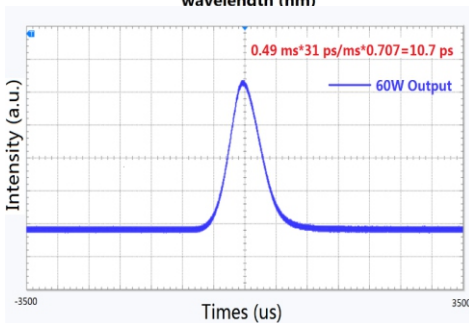
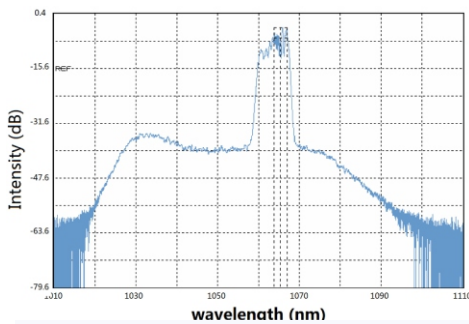
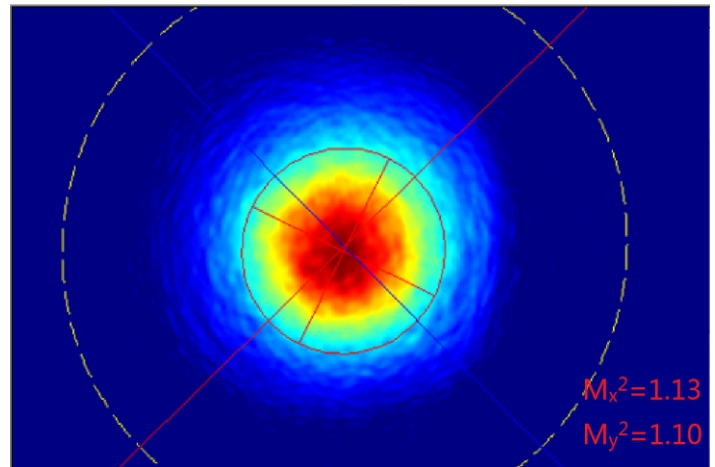
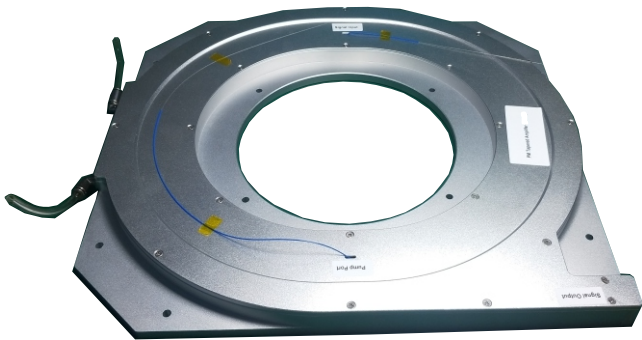
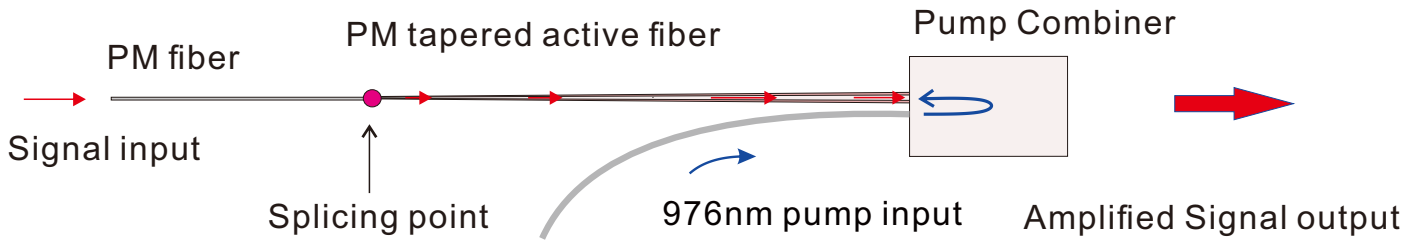


PM Tapered Amplifier



This amplifier module incorporates ytterbium doped tapered double clad fibers (T-DCF) to amplify ultra-short optical pulses. This T-DCF amplifier module shows excellent performance on all parameters.



Parameter	Unit	Specification
Wavelength	nm	1064
Core D	Thin end	μm
	Thick end	μm
Mode field diameter MFD	Thin end	μm
	Thick end	μm
Silica/F-doped clad D	Thin end	μm
	Thick end	μm
First Clad NA		0.28 (Relative to the highly F-doped silica secondary cladding)
Core NA		0.09
Clad shape		PANDA with F-doped second cladding
Input signal fiber		PM 10/125 DCF or PM 6/125 DCF
Pump fiber (thick end)		105/125 NA 0.22
Output Power ¹	W	60 W @ 22 MHz, fully pumped >30 W @ 1 MHz
Max. pulse energy ²	μJ	>200
Max. peak power	kW	>450
Polarization extinction ratio (PER)	dB	Depends on the Active PM tapered fiber
Beam quality (M ²)		<1.2
Recommended min. water flow	l/min	5 @ 20 °C
Min. coiling diameter	cm	36

*1 1MHz @ pulse burst mode

*2 pulse burst mode