

SPECIFICATIONS

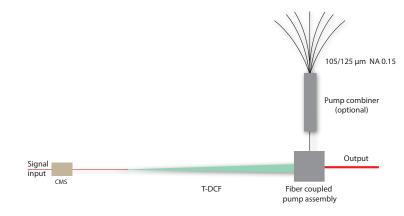
PARAMETER	MIN	TYP	MAX	UNITS
OUTPUT				
Output power 1)		100		W
Mode field diameter		40		μm
Polarization extinction	15	17		dB
ratio (PER) ²⁾	13	17		ив
M ²	1.0	1.2	1.3	
INPUT				
Wavelength	1030	1040	1065	nm
Input signal power				mW
Pump power 3)			150	W
Pump wavelength		976		nm
Core NA		0.09		
Cladding NA		0.28		
FIBERS				
Input signal fiber	PM 10/125,			
	others upon request			
Pump fiber	200/220 NA 0.22 150 W or			
	105/125 NA 0.22 100 W or			
	4 x 105/125 NA 0.15,			
	others on request			
MECHANICAL				
Gain fiber length		2.5		m
Gain fiber coiling diame-	30	35		cm
ter	30			Citi
Water flow 4)	5		10	l/min
Pump assembly size	108.5 mm x 58 mm x 29.5			
	mm			

$^{\rm 1)}$ Output power depends on the applied pump power and seed input. The pump assembly is capable of handling up to 150 W of pump power and 100 W of output power.

OVERVIEW, SPECIFICATIONS

DESCRIPTION

TGModule B-PM incorporates Ampliconyx patent protected, polarization maintaining ytterbium-doped tapered double clad fiber (T-DCF) (US 8,433,168 B2, Japan 5390524, People's Republic of China ZL 200880119087.7, EPO 08805462.2 pending). The thick end of the T-DCF is terminated by a fiber-coupled, water-cooled pump coupling unit, which enables easy splicing of pump diodes with up to 150 W of pump power. Optional pump combiner allows many different pump diode configurations. The unit has a free-space single-mode output with typical beam quality of M² = 1.2. The unit is fully tested and ships with complete test report.





NEW FRONTIER IN ULTRAFAST LASER PERFORMANCE.

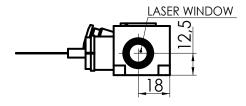
 $^{^{\}rm 2)}$ Measured at 1040 nm for 19 dB PER input. Output PER will depend on PER of the seed source.

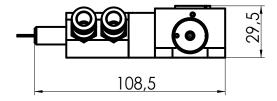
³⁾ Maximum pump power depends on pump fiber selection.

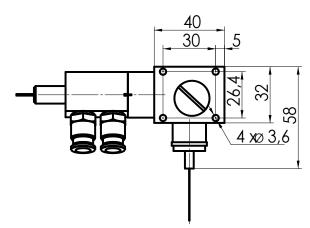
 $^{^{\!\!\!\!4)}}$ Recommended water flow for both pump assembly and for the external heat sink for the gain fiber.

PERFORMANCE, DIMENSIONS

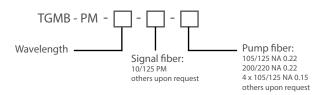
DIMENSIONS





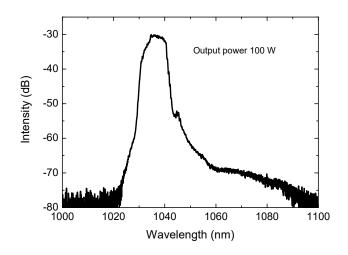


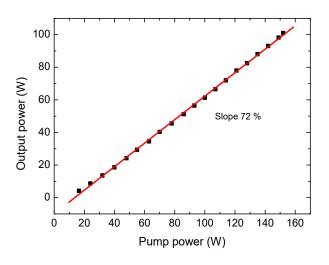
ORDERING INFORMATION

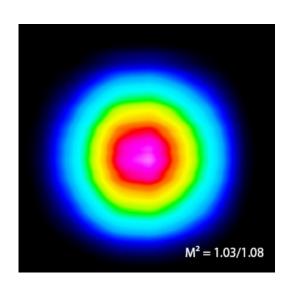


EXAMPLE AMPLIFICATION

30 mW, 25 MHz, 40 ps input signal







Example: TGMB-PM - 1040 - 10/125 - 105/125

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