

HAPM1000 1.0µm PM Fiber Amplifier (PM YDFA)

PRODUCT DESCRIPTION

HAPM1000 is a Polarization Maintaining Fiber Amplifier which worked in 1050~1080nm operating wavelength. Adopt Polarization Maintaining (PM) ytterbium-doped fiber, output optical power range 0.5W~5W, extinction ratio >20dB.

HAPM1000 input and output both adopt single-polarized optical isolator and PM optical component. This equipment is used to ensure the high extinction ratio and the stability of amplified output polarization. Mainly maintained by narrow linewidth, single channel seed laser source's power amplification and PM in 1050~1080nm wavelength range.



- ► Single mode, TEM₀₀ Gaussian spectrum, linear polarization output
- ► Keep single channel seed light source linewidth, frequency stability and RIN
- ▶ High extinction ratio
- ▶Low noise figure
- ▶ Stable output polarization
- ► High power stability
- ▶ Single-polarized input/output optical isolation
- ▶ Input output and echo reflection monitoring function, offer automatic system protection
- ▶ ACC, APC working mode
- ▶ RS232 control interface
- ▶ SNMP network management function, support remote control
- ► Rack-mounted type, desktop type, modular type (OEM) optional
- ► Excellent P/P ratio



MAIN APPLICATION

- ► Narrow linewidth, single channel seed laser source regeneration amplification
- ▶ Laser radar
- ▶ Optical fiber sensing
- ▶ Spectral analysis
- ▶ Coherent detection
- ▶ Frequency generation
- ▶ Coherent combination high precision



TECHNICAL INDEX

			Index			
Performance			Min.	Тур.	Max.	Supplement
Optic feature	Operating wavelength range	(nm)	1050		1080	
	Work mode		CW			
	Polarization output		Linear polarization			
	Optical quality		Single mode, TEM ₀₀			
	Input optical power	(dBm)	-10		+10	
	Output optical power	(dBm)	27		37	0.5~5W
	Output power adjustable range	(%)	10		100	
	Output power stability	(dB)			0.2	8 hours
	Extincrtion ratio	(dB)	15	20		
	Noise figure	(dB)		5.0		
	Input / output optical isolation	(dB)	30			
	Return loss	(dB)	50			
	Optical connector		FC/APC			
General feature	SNMP network management interface		RJ45			
	Communication interface		RS232			
	Power supply	(V)	90	220	265	AC, stander type, desktop
			30	-48	70	DC, stander type
	Power consume	(W)			60	
	Operating temp.	(°C)	-5		65	
	Store temp.	(°C)	-40		80	
	Relatice humidity	(%)	5		95	
	Size (W)×(D)×(H)	(mm)	483 × 363 × 44			1U stander
			483 × 373 × 89			2U stander
			279 × 356 × 89			2D desktop
			279 × 356 ×133			3D desktop
			125×150×31			Modulator OEM



PRODUCT SERIES

Model	Wavelength	Туре	Output optical power	Optical connector	
HAPM1127-FA	1050~1080nm PM-YDFA	Single stage power amplifier	27dBm (0.5W)	FC/APC	
HAPM1130-FA			30dBm (1W)		
HAPM1133-FA			33dBm (2W)		
HAPM1136FA			36dBm (4W)		
HAPM1137-FA			37dBm (5W)		

MODEL EXPLANATION

