

HAPM5000 1.0 μ m PM Fiber Amplifier (PM YDFA)

PRODUCT DESCRIPTION

HAPM5000 is a C-Band Polarization Maintaining Optical Amplifier which worked in 1540~1570nm operating wavelength. Adopt Polarization Maintaining (PM) Multiclad Ev-Yb fiber, output optical power range 27~37dBm(0.5W~5W) , extinction ratio >20dB.

HAPM5000 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 1540~1570nm wavelength range.

PRODUCT FEATURES

- ▶ 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

Performance			Index			Supplement
			Min.	Typ.	Max.	
Optic feature	Operating wavelength range	(nm)	1540		1570	
	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
	Extinction ratio	(dB)	15	20		
	Noise figure	(dB)		5.0		
	Input / output optical isolation	(dB)	30			
	Return loss	(dB)	50			
	Optical connector		FC/APC			
	SNMP network management interface		RJ45			
General feature	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	
	Relative 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	Type	Output optical power	Optical connector
HAPM5127-FA	1540~1570nm PM-EYDFA	Single stage power amplifier	27dBm (0.5W)	FC/APC
HAPM5130-FA			30dBm (1W)	
HAPM5133-FA			33dBm (2W)	
HAPM5136FA			36Bm (4 W)	
HAPM5137-FA			37dBm (5W)	

MODEL EXPLANATION

HAPM 5 1 □□ - □□ - □□ - □□

Guangtai PM Optical Amplifier	Work Wavelength		Type	Output Power		Connector		Exterior		Power Supply	
	5	1540~1570nm PM-EYDFA	1 Single Stage Power Amplifier	27	27dBm(0.5W)	FA	FC/APC	1U	1U Stander	22	220VAC
				30	30dBm(1W)			2U	2U Stander	48	-48VDC
	1	1050~1080nm PM-YDFA	2 Double Stage Power Amplifier	33	33dBm(2W)			2D	2U Desktop	05	5~7VDC
				36	36dBm(4W)			3D	3U Desktop		
	4	1528~1563nm PM-EDFA		37	37dBm(5W)			MD	Modular OEM		