

IDPM1000

1.0 μ m PM Fiber Amplifier (PM YDFA)



Description

Idealphotonics'IDPM1000 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.

IDPM1000 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

Feature

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

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

Specification

Performance			Index			Supplement
			Min.	Typ.	Max.	
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)	5		17	
	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			
General feature	SNMP network management interface		RJ45			
	Communication interface		RS232			
	Power supply	(V)	90	220	265	AC, stander type, desktop type
			30	-48	72	DC, stander type
			5		4	DC, modulator type
	Power consume	(W)			60	
	Operating temp.	(°C)	-5		65	
	Store temp.	(°C)	-40		80	
	Operating relatice humidity	(%)	5		95	
	Size (W)×(D)×(H)		19×14.3×1.75 (") 483×363×44 (mm)			1RU stander
			19×14.7×1.75 (") 483×373×44 (mm)			2RU stander

			11×14×3.5 (") 279×356×89 (mm)	2RU desktop
			11×14×5.25 (") 279×356×133 (mm)	3D desktop
			4.9×5.9×1.2 (") 125×150×31 (mm)	Modulator OEM

Product series

Model	Wavelength	Type	Output optical power	Optical connector
IDPM1127-FA	1050~1080nm PM-YDFA	Single stage power amplifier	27dBm (0.5W)	FC/APC
IDPM1130-FA			30dBm (1W)	
IDPM1133-FA			33dBm (2W)	
IDPM1136-FA			36dBm (4W)	
IDPM1137-FA			37dBm (5W)	

Ordering information

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