

High-power Fiber-optical Amplifier Series



Product Introduction

High-power fiber amplifier (HFA) products are designed for optical fiber CATV system. As the low noise figure, high output power (27~36dBm) and compact structure, HFA can compensate the transmission and distribution loss, improve the system performance and offer low-cost and flexible solution for system design. Furthermore, with gain flatness control technology and polarization maintaining technology, multi-wavelength HFA and polarization maintaining HFA (PMHFA) enrich the applications.

Features

- High Output Power
- Low Noise Figure
- Compact structure, multi-port output
- Excellent gain flatness(multi-wavelength HFA)
- High polarization extinction(PMHFA)
- Support remote management

Applications

- Single-/multi-wavelength CATV system
- Doppler laser radar system (PMHFA)

Standards

- Telcordia GR-1312-CORE
- RoHS

Specifications

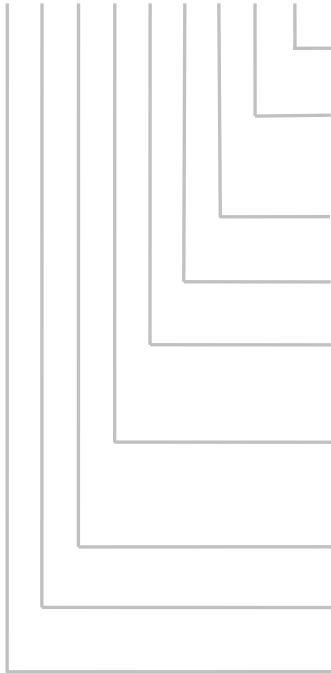
Parameter	Unit	Min.	Typ.	Max.	Note
Operation Wavelength	nm	1545		1565	
Input power (P_{in})	dBm	-5		10	
Total output power(P_{tot})	dBm	27		36	Include access loss of output splitter
Output port power	dBm	17, 20, 23, ...			Customer configuration
Output port number(N)	/	4, 8, 16, 32, ...			Customer configuration
Insertion loss of OLT signal ¹	dB			1	
Noise figure (NF)	dB			5.5	$P_{in} = 0\text{dBm}$

Return loss	dB	50			
Polarization dependent gain (PDG)	dB			0.5	
Polarization mode dispersion (PMD)	ps			0.5	
Polarization extinction ratio (PER) ²	dB	20			
Gain flatness (GF) ³	dB				
Dimensions	dB	see order information			
Power consumption of module / rack product	W			30/45	$P_{tot} \leq 30\text{dBm}$
				40/55	$30 < P_{tot} \leq 33\text{dBm}$
				70/85	$33 < P_{tot} \leq 36\text{dBm}$

Ordering Information

Module product

HFAM-□-□-□-□-□-□-□-□-□



Fiber Length: 1:1m、customer specify

Pigtail Fiber: 025: ϕ 0.25mm、09: ϕ 0.9mm

PM025:PM ϕ 0.25mm、PM09:PM ϕ 0.9mm

Dimension(mm): 03:220×160×35、04:170×150×25

Power Supply: A: -48V DC、D: +24V DC

Output Connector : SA:SC/APC 、 LA:LC/APC 、
EA:E2000/APC、customer specify

Input Connector : SA:SC/APC 、 LA:LC/APC 、
EA:E2000/APC、customer specify

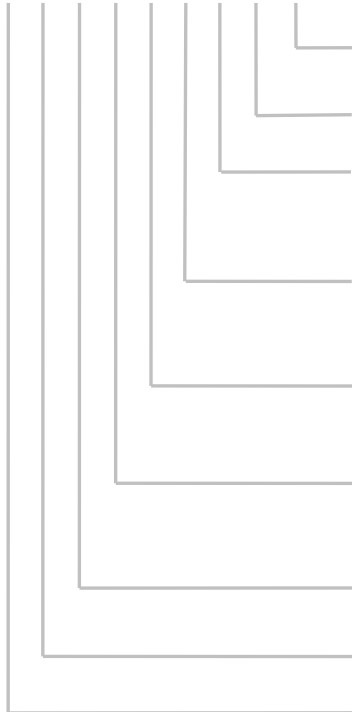
Output Port Number: 1:1、2:2、8:8、customer specify

Total Output Power: 30:30dBm、customer specify

Channel: S: single wavelength、M: multi-wavelength

Rack product

HFA-□-□-□-□-□-□-□-□-□



PON Port Connector: SA:SC/APC、customer specify

PON Port Number: 1:1、2:2、8:8、customer specify

Package: 11:19 inch 1U、12:19 inch 2U、41:19/21 inch 1U、
42:19/21 inch 2U

Power Supply : A: -48V DC 、 B:220/110V AC 、
AA: Dual -48V DC、BB: Dual 220/110V AS

Output Connector : SA:SC/APC 、 LA:LC/APC 、
EA:E2000/APC、customer specify

Input Connector : SA:SC/APC 、 LA:LC/APC 、
EA:E2000/APC、customer specify

Output Port Number: 1:1、2:2、8:8、customer specify

Total Output Power: 30:30dBm、customer specify

Channel: S: single wavelength、M: multi-wavelength