

Hybrid Raman/EDFA optical amplifier



Product Introduction

Hybrid Raman/EDFA optical amplifier series are mainly used in ultra-long span, large capacity and high rate system to improve the OSNR of the system. Compared with the conventional EDFA systems, the OSNR can be improved 6~7dB; and they can effectively reduce the design cost of system compared with separate Raman systems.

Features

- Respective AGC control for Raman and EDFA
- Rapid transient control
- Apply to different types of fiber: SSMF/G.652,Leaf/G.655,Truewave/G.655
- Large dynamic adjustable range of gain and gain Tilt, dynamical adjustment of gain and gain Tilt for both Raman and EDFA

Applications

- Long-distance optical transmission system, extend relay distance
- upgrade existing systems to 100Gb/s or higher rate

Standards

- Telcordia GR-1312-CORE
- RoHS

Specifications

Parameter	Unit	Min.	Тур.	Max.	Remark
Operation Wavelength	nm	1528		1568	
Input Optical Power	dBm	-35		0	@ pump off
Saturated Output Optical	dBm			24	
Power	ubiii				
Gain	dB	13		42	
Noise Figure	dB	0		3.2	The minimum gain of 13dB, the largest noise figure; With the gain becomes larger, noise figure reduces gradually, , noise figure is 0dB in the case of the maximum gain

	L	LIGI	HTING	G Y () U R	DREAMS	
Accelink		让	光	引	领	梦	想

Transient	Overshoot& undershoot	dB	-1		1	For 20dB Add/drop,
	setting time	us			800	100us signal Fall/Raise time
	gain error	dB			±0.5	
Gain Fluct	uation	dB	±0.5		±0.5	
Size		mm	220×130×20			Without radiator fan
		mm	220×130×30			With radiator fan
Operation	Temperature	°C	-10 55		55	
Power Cor	nsumption	W			50	

