

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, Truwave/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.	Typ.	Max.	Remark
Operation Wavelength	nm	1528		1568	
Input Optical Power	dBm	-35		5	@ pump off
Saturated Output Optical Power	dBm			23	
Gain	dB	13		33	Maximum adjustable range of gain :10dB
Noise Figure	dB	0.6		3.2	The minimum gain of 13dB, the largest noise figure; With the gain becomes larger, noise figure reduces gradually, , noise figure is 1.8dB in the case of the maximum gain

Transient	Overshoot& undershoot	dB			±1	For 20dB Add/drop,
	setting time	us			800	100us signal Fall/Raise time
	gain error	dB			±0.5	
Gain Fluctuation		dB			±0.5	
Size	mm	220×130×20			Without radiator fan	
	mm	220×130×23			With radiator fan	
Operation Temperature		°C	-10		55	
Power Consumption		W			50	

Ordering Information

HYFA - R-□- E-□-□-□-□-□-□

