

## 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		0	@ pump off
Saturated Output Optical Power	dBm			24	
Gain	dB	13		42	

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 Fluctuation		dB		±0.5	
Size	mm	220×130×20		Without radiator fan	
	mm	220×130×30		With radiator fan	
Operation Temperature			-10	55	
Power Consumption		W		50	

### Ordering Information

HYFA - R- - E- - - - -

Connector	FC SC,LC,MU/UPC,APC
Fiber length	1:1m customer specify
Fiber Dia.	09: .9mm customer specify
Output Power:	17:17dBm customer specify
EDFA Gain:	25:25dB 15/25: 15~25 adjustable gain range customer specify
Operating Wavelength:	40:1528~1562nm 48: 1528~1568nm customer specify
Raman Gain:	10:10dB customer specify