

## Hybrid Raman/EDFA Amplifier



### Product

Hybrid Raman/EDFA Amplifier is a dual-stage amplifier, which combines Raman and EDFA amplification. The OSNR is improved by 6-7dB; and the gain is 20-25dB. It is suitable for long-haul transmission.

### Features

- Raman AGC control
- Raman gain control
- Amplifier gain: SSMF/G.652, L-band/G.655, T-band/G.655
- Low noise and high gain, suitable for long-haul transmission

### Applications

- Long-haul transmission
- 100Gb/s transmission

### Specifications

- Type: GR-1312-CORE
- Raman HS

### Specifications

Parameter	Unit	Min.	Typ.	Max.	Remarks
Optical Power	W	1528		1568	
Input Optical Power	dBm	-35		5	@
Signal-to-Noise Ratio	dB			23	
Gain	dB	13		33	Max. gain: 10dB
Noise Figure	dB	0.6		3.2	Typical gain: 13dB, Max. gain: 33dB, Noise Figure: 1.8dB

T a	O d &	dB			1	F 20dB Add/d ,
					800	100 a Fa /Ra
	a	dB			0.5	
Ga F c a		dB			0.5	
S			220 130 20			W ad a a
			220 130 23			W ad a a
O a T a			-10		55	
P C		W			50	

O d I a  
HYFA - R-□- E-□-□-□-□-□-□

C c FC SC,LC,MU/UPC,APC

F b 1:1