

Hybrid Raman /EDFA



Product

Hybrid Raman /EDFA is a dual-stage optical amplifier, which combines Raman and EDFA amplification. It has a high OSNR, low noise floor, and a wide gain bandwidth. The OSNR can be as high as 67dB; and the noise floor can be as low as -158dBm/0.1nm.

Features

- Raman AGC can be realized by EDFA
- Raman gain is high
- Amplifier type: SSMF/G.652, L-band/G.655, T-band/G.655
- Large dynamic range, high gain, low noise floor, and wide gain bandwidth

Applications

- Long-haul transmission, dense wavelength division multiplexing
- 100Gb/s and beyond

Specifications

- Transceiver: 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	Maximum gain is 10dB
Noise Floor	dBm	0.6		3.2	Typical noise floor is 13dB, maximum is 15dB; Wavelength range: 1550~1600nm, gain is 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	

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HYFA - R-□- E-□-□-□-□-□-□

C c : FC SC,LC,MU/UPC,APC
F b : 1:1