O-Net Technologies
#35 Cuijing Road, Pingshan New District, Shenzhen 518118, China
Email: Sales@o-netcom.com Tel: +86-755-2671 0000 Fax: +86-755-2671 0557

Variable Gain EDFA with Mid-Stage

Features

- Mid-stage access
- Built-in control electronics
- AGC operation mode & variable flat gain
- Fast transient control
- Semi-customized design flexibility

Applications

- Long-haul and Metro networks

Main Specifications

Parameter	Max	Min	Specification			Unit
Amplifier Type			Low Gain	Mid Gain	High Gain	
Operating Wavelength			1529 ~ 1564			nm
Input Power Range			-21 ~ +13	-29 ~ +5	-36 ~ -5	dBm
Mid-Stage Loss			0 ~ 10			dB
Output Power Range			-1 ~ +20			dBm
Normal Gain Range			7 ~ 20	15 ~ 28	25 ~ 35	dB
Gain Ripple	√		1			dB
Adjustable Gain Tilt			-3 ~ 0			dB
Noise Figure (Tilt=0 dB, Max gain)	√		7.0	6.5	6.0	dB
Input/Output Return Loss		√	40			dB
PMD	√		0.5			ps
PDG	√		0.5			dB
Input Transient Time			100			μs
Transient Overshoot/Undershoot (16dB Add/Drop)	√		1.5			dB
Transient Settling Time (16dB Add/Drop)	√		1000			μs
Transient Gain Offset	√		0.5			dB
Communication Interface			RS232			

#35 Cuijing Road, Pingshan New District, Shenzhen 518118, China
Email: Sales@o-netcom.com Tel: +86-755-2671 0000 Fax: +86-755-2671 0557

Parameter	Max	Min	Specification	Unit
Power Consumption	√		28	W
Operating Temperature			-5 ~ +55	℃
Storage Temperature			-25 ~ +75	℃
Relative Humidity (non-condensation)			5 ~ 95	%
Dimensions			212*130* 22	mm

Electronic Connector Pin Assignment

Pin	Description	Pin	Description
1	+5V	26	Ground
2	+5V	27	Stage 2 Input LOS Alarm Output
3	+5V	28	Ground
4	+5V	29	NC
5	+5V	30	Ground
6	+5V	31	NC
7	Ground	32	Ground
8	Ground	33	Module Temperature Alarm Output
9	Ground	34	NC
10	Ground	35	Pump Temperature Alarm Output
11	NC	36	NC
12	NC	37	Amplifier Disable Input
13	Ground	38	Output Mute or Eye-Safe Mode Input
14	Reset Input	39	NC
15	Serial Input	40	NC
16	Serial Output	41	Ground
17	Pump Current Alarm Output	42	Ground
18	Stage 1 Input LOS Alarm Output	43	Ground
19	Ground	44	Ground
20	Ground	45	+5V
21	NC	46	+5V
22	Ground	47	+5V
23	NC	48	+5V
24	Ground	49	+5V
25	Ground	50	+5V

#35 Cuijing Road, Pingshan New District, Shenzhen 518118, China
Email: Sales@o-netcom.com Tel: +86-755-2671 0000 Fax: +86-755-2671 0557

Order Information

- The above specifications represent the typical performance of an O-Net Amplifier of this category.
- Please contact our Sales to discuss your specific requirements.