

VARIABLE GAIN EDFA MODULE WITH MID-STAGE ACCESS

Features

- With build-in control electronics
- Variable gain of 13~26dB
- AGC, APC operation modes
- Fast transient suppression
- RS232 communication interface
- Semi-customized design flexibility



Applications

- Long haul and metro optical networks
- Optical amplification in WDM systems

Main Specifications

Parameter		Specification	Unit
Operating Wavelength		1529~1564	nm
Input Power		-28~+7	dBm
Output Power	Max	+20	dBm
Gain		13~26	dB
Gain Accuracy		-0.5~+0.5	dB
Gain Flatness(peak to peak)	Max	1.0	dB
Noise Figure ¹	Max	6.5	dB
Steady-state Power Fluctuations		-5~+5	%
Mid-stage Loss	Max	10	dB
Input/Output Return Loss	Min	40	dB
PDG	Max	0.5	dB
PMD	Max	0.5	ps
Transient Suppression Time ²	Max	1000	μs
Transient Over/Under Shot ²	Max	2	dB
Transient Offset ²	Max	0.5	dB
Communication Protocol		RS232	
Power Consumption	Max	30	W
Operating Temperature		-5~+65	°C
Storage Temperature		-25~+75	°C
Relative Humidity (non-condensation)		5~95	%
Dimensions ³		200*130*15	mm

1. maximum gain & maximum output power

2. 15dB Add/Drop

3. without heatsink

Electronic Connector Pin Assignment

Pin No .	Description	Pin No .	Description
1	+5VDC Power Supply	26	Ground
2	+5VDC Power Supply	27	Stage2 Input LOS Alarm Output
3	+5VDC Power Supply	28	Ground
4	+5VDC Power Supply	29	Stage2 Output LOP Alarm Output
5	+5VDC Power Supply	30	Ground
6	+5VDC Power Supply	31	Ground
7	Ground	32	Ground
8	Ground	33	Amplifier Temperature Alarm Output
9	Ground	34	Stage1 Output LOP Alarm Output
10	Ground	35	Pump Temperature Alarm Output
11	NC reserved	36	NC reserved
12	NC reserved	37	Amplifier Disable Input
13	Ground	38	Output Mute or Eye-Safe Mode Input
14	CPU Reset Input	39	NC reserved
15	Serial Input	40	NC reserved
16	Serial Output	41	Ground
17	Pump Current Alarm Output	42	Ground
18	Stage1 Input LOS Alarm Output	43	Ground
19	Ground	44	Ground
20	Ground	45	+5VDC Power Supply
21	NC reserved	46	+5VDC Power Supply
22	Ground	47	+5VDC Power Supply
23	Ground	48	+5VDC Power Supply
24	NC reserved	49	+5VDC Power Supply
25	Ground	50	+5VDC Power Supply

Order Information

The above specification represents the typical performance of O-Net EDFA of this category. Please contact our technical representatives to discuss your specific requirements.