

EDFA Array

Features

- Integrated with 4 Add and 4 Drop Amplifiers
- Built-in control electronics
- Flat fixed gain up to 20 dB
- AGC operation mode
- Fast transient control
- MPO/APC connectors
- Semi-customized design flexibility



Applications

- ROADM system

Main Specifications

Parameter	Max	Min	Specification		Unit
Type			Add	Drop	
Operating Wavelength			1528.5 ~ 1567.0	1528.5 ~ 1567.0	nm
Input Power			-21 ~ -3	-18 ~ 1	dBm
Output Power	✓		17	21	dBm
Operating Gain			20	20	dB
Noise Figure (Max input)	✓		5.5	10.0	dB
Gain Flatness (Peak-Peak)	✓		1.5		dB
Input/Output Return Loss		✓	40		dB
PMD	✓		0.5		ps
PDG	✓		0.5		dB
Input Transient Time			100		μs
Transient Overshoot/Undershoot (15 dB Add/Drop)	✓		1.5		dB
Transient Settling Time (15 dB Add/Drop)	✓		1000		μs
Transient Gain Offset	✓		0.8		dB
Communication Interface			RS232		



Parameter	Max	Min	Specification	Unit
Power Consumption	√		30	W
Operating Temperature			-5 ~ +55	°C
Storage Temperature			-25 ~ +75	°C
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	NC
3	+5V	28	Ground
4	+5V	29	NC
5	+5V	30	Ground
6	+5V	31	NC
7	Ground	32	Ground
8	Ground	33	NC
9	Ground	34	NC
10	Ground	35	Pump Temperature Alarm
11	NC	36	NC
12	NC	37	Amplifier Disable (Mute) 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	42	Ground
18	Loss of Power Alarm	43	Ground
19	Ground	44	Ground
20	Ground	45	+5V

Pin	Description	Pin	Description
21	NC	46	+5V
22	Ground	47	+5V
23	NC	48	+5V
24	Ground	49	+5V
25	Ground	50	+5V

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.