

# EDFA Based on Free-Space Micro-Optics Block (FSMOB) Technology

Performance Improvement: (Compare with Conventional Architecture EDFA)

- Lower Noise Figure
- Lower Pump Power Consumption
- Lower Heat Dissipation
- Higher Reliability-Assembly All Passive Components in One Block
- Higher Capacity-Make EDFA Assembly More Easy
- Cost Saving

## V Variable Gain EDFA with Control Electronics

Features:

- With Build-in Fully Control Electronics
- Variable Gain, 6~25dB
- AGC, APC Operation Modes
- Fast Transient Suppression
- RS232 Communication Interface
- Semi-customized Design Flexibility



Applications:

- Long Haul/Metro Networks
- DWDM System(100/200 channels)

Specifications:

Parameter		Unit	Min.	Typ.	Max.
Operating Wavelength	C-Band	nm	1529		1564
Total Input Power		dBm	-28	-10	1
Total Output Power		dBm		21	
Dynamic Flattened Gain Range		dB	19		31
Gain Accuracy		dB		+/-0.25	
Gain Flatness	Peak-to-Peak	dB			+/-0.75
Noise Figure	at Max. Gain			6	
Input/Output Isolation		dB	30		
Input/Output Remnant Pump		dBm			-30
Input/Output Return Loss	with Pump Off	dB	45		
PMD		ps			0.5
PDG		dB			0.5
Transient Suppress	15dB Add/drop	us		150	
Package Dimension	L * W * H	mm		146 * 127 * 17	

## Electric Pin Assignments:

Pin	Description	Pin	Description
1	+5V	26	GND
2	+5V	27	MSA Output Los Alarm/GND
3	+5V	28	NC
4	+5V	29	MSA Input Los Alarm/GND
5	+5V	30	NC
6	+5V	31	GND
7	GND	32	GND
8	GND	33	Case Temperature Alarm
9	GND	34	Output Los Alarm
10	GND	35	Pump Temperature Alarm
11	NC	36	NC
12	NC	37	Mute
13	GND	38	Eye Safety
14	Reset	39	NC
15	Serial Input	40	NC
16	Serial Output	41	GND
17	Pump EOL Alarm	42	GND
18	Input LOS Alarm	43	GND
19	GND	44	GND
20	GND	45	+5V
21	NC	46	+5V
22	NC	47	+5V
23	NC	48	+5V
24	NC	49	+5V
25	GND	50	+5V