



High Power 1550nm EDFA

Key Features

- Er Yb Co-doped double-clad fiber technology
- Output ports: 4, 8, 12, 16 or 18 port options
- 110-240VAC 50/60Hz power. 48VDC power is optional
- Optical output power: total output up to 35.5dB (optional)
- Low noise figure: <5dB when input is 0dBm
- Advanced 32 bit processor, with automatic monitoring circuitry. Accurately monitors and controls the optical output power and various parameters of the pump laser, ensures stable optical output power and can effectively extend the working life of the pump laser
- Front panel LCD display shows all status parameters and provides ability to set parameters on the EDFA
- 2RU standard 19" rackmount cabinet, equipped with standard IEEE802.3 10Base-T Ethernet interface and RS232 interface, for network management monitoring and control console

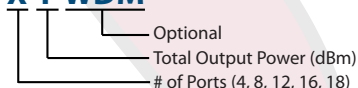


Description

The Multicom 32 Port High Power 1550nm Erbium Doped EDFA is a low noise 1550nm optical amplifier designed to amplify 1550nm optical signals to increase the optical transmission distance over fiber, and can be used in conjunction with the Multicom 1550nm optical transmitters.

Equipped with up to 32 output ports, and with low noise and high linearity, this High Power EDFA can be used in the transmission of video, voice and data signals making it the ideal optical amplification solutions for long links, redundant rings, blast and split, and other applications. It offers a flexible and low-cost solution for CATV large area coverage of metropolitan and medium-sized cities.

MUL-EDFA-V-X-Y-WDM



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Technical Specifications

Product Specifications

Item	Unit	Technical Parameter	Notes
CATV pass-through wavelength	nm	1545 - 1565	
PON pass-through wavelength	nm	1260 - 1360, 1480 - 1500	
PON insertion loss	dB	<0.8	
Isolation	dB	>15	
CATV optical input power range	dBm	-5 - +10	
Maximum optical output power	dBm	35.5	depending on selected power option
Output power stability	dBm	±0.5	
Noise figure	dB	≤6.0	Optical input power 0dBm, λ=1550nm
Return loss - Input port	dB	≥ 45	
Return loss - Output port	dB	≥ 45	
Optical connector type		SC/APC	and/or LC/APC, LC/UFC
Power supply voltage	V	110V - 240VAC (50/60 Hz) or 48VDC (optional)	Hot pluggable, redundant power
Consumption	W	≤70	
Operating temperature range	°C	-10 - +42	14 - 108°F
Max operating/storage relative humidity	%	95	No condensation
Storage temperature range	°C	-30 ~ +70	-22 - 158°F
Dimensions	mm	483 (L) x 440 (W) x 88 (H)	19in L x 17.3in W x 3.5in H

Model #	Total Output Power (dBm)	Output Ports	Output Power per Port (dBm)
MUL-EDFA-V-4 -25.5 -WDM	25.5	4	18
MUL-EDFA-V-4 -26.5 -WDM	26.5	4	19
MUL-EDFA-V-4 -27.5 -WDM	27.5	4	20
MUL-EDFA-V-4 -28.5 -WDM	28.5	4	21
MUL-EDFA-V-4 -29.5 -WDM	29.5	4	22
MUL-EDFA-V-4 -30.5 -WDM	30.5	4	23
MUL-EDFA-V-4 -31.5 -WDM	31.5	4	24
MUL-EDFA-V-8 -26.5 -WDM	26.5	8	15
MUL-EDFA-V-8 -27.5 -WDM	27.5	8	16
MUL-EDFA-V-8 -28.5 -WDM	28.5	8	17
MUL-EDFA-V-8 -29.5 -WDM	29.5	8	18
MUL-EDFA-V-8 -30.5 -WDM	30.5	8	19
MUL-EDFA-V-8 -31.5 -WDM	31.5	8	20
MUL-EDFA-V-8 -32.5 -WDM	32.5	8	21
MUL-EDFA-V-8 -33.5 -WDM	33.5	8	22
MUL-EDFA-V-8 -34.5 -WDM	34.5	8	23
MUL-EDFA-V-8 -35.5 -WDM	*35.5 Ultra-high power output	8	24
MUL-EDFA-V-12 -32 -WDM	32	12	19
MUL-EDFA-V-16 -29.5 -WDM	29.5	16	15
MUL-EDFA-V-16 -30.5 -WDM	30.5	16	16
MUL-EDFA-V-16 -31.5 -WDM	31.5	16	17
MUL-EDFA-V-16 -32.5 -WDM	32.5	16	18
MUL-EDFA-V-16 -33.5 -WDM	33.5	16	19
MUL-EDFA-V-16 -34.5 -WDM	34.5	16	20
MUL-EDFA-V-16 -35.5 -WDM	*35.5 Ultra-high power output	16	21
MUL-EDFA-V-18 -35 -WDM	*35 Ultra-high power output	18	20
MUL-EDFA-V-18 -35.5 -WDM	*35.5 Ultra-high power output	18	20.5

MUL-EDFA-V-X-Y-WDM

Optional
 Total Output Power (dBm)
 # of Ports (4, 8, 12, 16, 18)

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