



EDFA Optical Amplifier Module

Key Features

- » High-performance Erbium Doped Fiber Amplifier with a JDSU Pump Laser for high efficiency energy conversion
- » Automatic monitoring circuitry accurately monitors and controls the optical output power, temperature and various parameters of the pump laser ensuring stable optical output power effectively extend the working life of the pump laser.
- » Input and output optical power detection to adjust the laser pump automatically and keep the output optical power of the EDFA module constant



MUL-OTC-EDFA-V-X



MUL-OTC-CH-V

Description

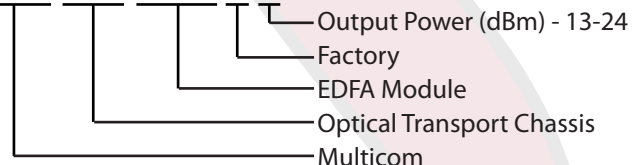
The Multicom MUL-OTC-EDFA-V-X 1550nm Erbium Doped Fiber Amplifier (EDFA) Module is a low noise 1550nm optical amplifier designed to be used in the Multicom Optical Transport Chassis MUL-OTC-CH-V. Available optical output levels range from 13 to 24dBm.

This hot pluggable EDFA is 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 Transmitter Module.

The EDFA Module includes input and output optical power detection to adjust the laser pump automatically and keep the output optical power of the EDFA module constant. Internal control circuitry accurately maintains the output power and temperature of the laser. This module communicates with the CMM status control and display unit by A/D sampling, a switching circuit, and a communication interface circuit.

The Multicom EDFA Optical Amplifier Module is a member of the Multicom OTC (Optical Transport Chassis) product family that includes the CMM Display and Control Module and dual redundant Power Modules in a 16 slot chassis. The OTC also supports the hot-swappable 1310nm and 1550nm Transmitters Modules and Four-Channel Return Path Receiver Module, as well as alternative modules to meet your network needs.

MUL-OTC-EDFA-V-X



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EDFA Optical Amplifier Module

Product Specifications

Description

The Multicom MUL-OTC-EDFA-V 1550nm high-performance Erbium Doped Fiber Amplifier (EDFA) Module with a JDSU Pump Laser is a low noise 1550nm optical amplifier designed to be used in the Multicom Optical Transport Chassis MUL-OTC-CH-V. Available optical output levels range from 13 to 24dBm.

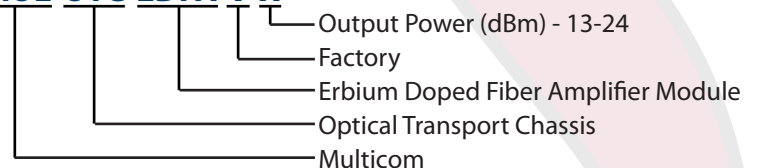
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Technical Specifications

Item	Unit	Technical Parameter	Notes
Operating bandwidth	nm	1535 - 1565	
Optical input power range	dBm	-5 - +10	Suggested input 0 - +5dBm
Optical output power	dBm	18	13-24dBm available
Output power stability	dBm	± 0.5	
Noise figure	dB	≤ 5.0	Optical input power 0dBm
Return loss - Input port	dB	≥ 45	
Return loss - Output port	dB	≥ 45	
Pump leakage power - Input port	dBm	≤ -30	
Pump leakage power - Output port	dBm	≤ -30	
C/N	dB	≥ 52	
C/CTB	dB	≥ 63	
C/CSO	dB	≥ 63	
Optical connector type		SC/APC	
Operating temperature range	°C	-5 - +55	23 - 130°F
Storage temperature range	°C	-30 - +70	-22 - 158°F
Max operating/storage relative humidity	%	95	No condensation

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