

VL-EDFA Fiber Amplifier Module

Description

VL-EDFA is a 1550nm high performance Erbium Doped Fiber Amplifier module designed as an integral part of Vale's high density VLINK 3RU Headend system. With a highly reliable single or double 980nm Pump Laser, low noise figure, and a wide range of optical output powers (14dBm to 23dBm) this EDFA module is an ideal solution for both analog and digital signal transmission. The MCU circuit fully monitors the status and controls the parameters via remote communications. All these can be achieved either locally through the front panel LED, on the EDFA module or remotely with software.



Specifications

Parameter	Unit	Specification	Note
Optical Performance			
Wavelength	nm	1540-1560	--
Input power	dBm	-3 to +10	--
Number of Output ports		1	--
Output power	dBm	14dBm to 23dBm	--
Optical power stability	dB	+/- 0.5	--
Polarization-dependent gain	dB	<0.5	--
Polarization-mode Dispersion	ps	<0.5	--
Return loss	dB	>40	--
Noise figure	dB	<5 (power<=20dBm) <5.5 (power>20dBm)	--
Connector		SC/APC or FC/APC	
Electrical/Physical Performance			
Supply voltage	VDC	24	
Power consumption	W	<25	--
Dimensions	mm	395D x 24W x 128H	--
Weight	Kg	2	--

Features

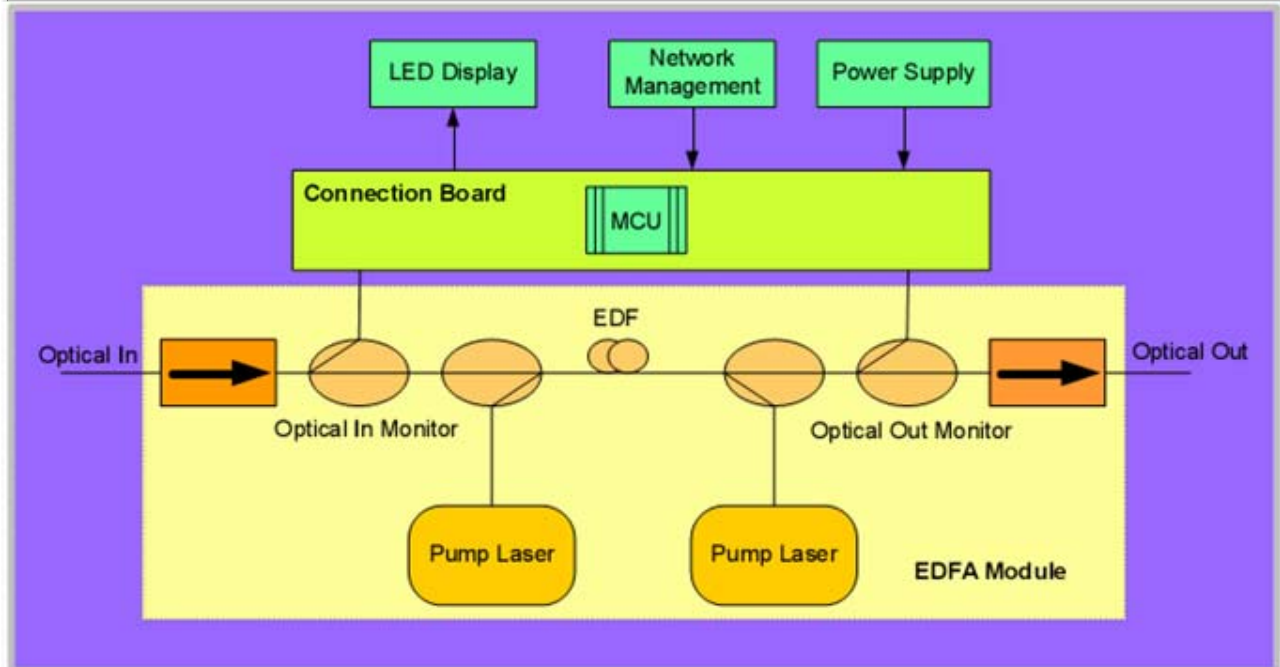
- Wide Range of Optical Output 14dBm to 23dBm
- Low noise figure
- Single or double Pump Laser design
- High reliability
- Front Panel LED Display
- Analog and Digital Signal Transmission

Absolute Maximum Rating

Stresses in excess of the absolute maximum ratings can cause permanent damage to the device. These are absolute stress ratings only. Functional operation of the device is not implied at these conditions. Exposure to absolute maximum ratings for extended periods can adversely affect device reliability.

Parameter	Symbol	Unit	Min	Max
Operating temperature	Top	°C	0	50
Storage temperature	Tstg	°C	-40	70
Humidity	H	%		85, non-condensing

Block Diagram



Ordering Information

VL-EDFA	--	XX	--	XX	--	XX
		Power: 14 = 14dBm 15 = 15dBm 16 = 16dBm 17 = 17dBm 18 = 18dBm 19 = 19dBm 20 = 20dBm 21 = 21dBm 22 = 22dBm 23 = 23dBm		Connector : SA = SC/APC FA = FC/APC		Special Customer requirement