



DATASHEET

Customized FTTx PON High Power 1550nm EYDFA

OTN Solutions for Metro, Regional & Long Haul

Description

EYDFA is a Er/Yb Doped Fiber Amplifier that utilizes multimode laser pumping and Erbium/Ytterbium double-clad technology to achieve high output power in conjunction with low cost. This amplifier employs the laser pumping (Patent No. ZL200820150412.3), and the laser driver circuit (Patent No. ZL200820150413.8) to reach better and more stable performance. Inimitable ATC or APC circuit ensures the stability of output power. The MPU system with high accuracy and high stability is controllable and adjustable. It offers a flexible and low-cost FTTx solution for CATV large area coverage of metropolises and medium-sized cities.

Features

- Controllability and maneuverability: Dual CPUs deal with control loop and communication separately
- High stability and reliability: MTBF > 150000 hours
- Redundant hot swap power module: 220VAC/-48VDC
- Ethernet, RS-485 and RS-232 interface
- Support Telnet and SNMP network management
- OEM available
- Bellcore GR-1312-CORE compliant
- Employ intelligent temperature control system:
 - (1) Adopt special temperature control circuit where heat dissipation and power consumption can be reduced by 30%.
 - (2) The professional design for air volume also ensures the ideal temperature. The fan starts up when the temperature of the cabinet exceeds 45 °C, and the product runs down below 40 °C. This technology ensures thermal stability of system and fan's long life.

Application

- Analog and Digital CATV Optical Network
- FTTH
- Tri-networks integration
- Free space communications
- R&D

Optical Characteristics

Operating Wavelength	1529~1564nm	Max Output Power	26dBm
Output Per Path	26dBm	Output Port Number	1
Input Power	-10~10dBm	Noise Figure	5dB
Input Isolation	≥ 30 dB	Output Isolation	≥ 30 dB
Return Loss	≤ -45 dB	Gain Stability	± 0.05 dB
Consumption	≤ 35 W	Fiber Optic Interface	LC/UPC or LC/APC

Electrical Characteristics

Parameter	Symbol	Min	Typ	Max	Unit
Power Supply	Vps	170	-----	264	VAC
Consumption	P	-----	-----	50	W

Environmental Characteristics

Parameter	Symbol	Min	Typ	Max	Unit
Operating Temperature	Tw	-5	-----	60	°C
Storage Temperature	Ts	-40	-----	80	°C
Humidity (1)	-----	10	-----	85	%

(1) No condensation

Order Information

Housing	1U/2U rack mount		
WDM	without	with	
Single Channel Output	17dBm 21dBm	18dBm 22dBm	19dBm 20dBm 23dBm
Input Power	-3dBm~10dBm 0dBm~10dBm	-8dBm~10dBm 5dBm~15dBm	
Output Power	17dBm-23dBm		
Connector	LC/APC	SC/APC	
Power 1	100V-240VAC	36V-72VDC	
Power 2	100V-240VAC	36V-72VDC	None

*Customized specifications are available upon request.



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