Fx-OV08xxx-IP

VERY HIGH POWER OPTICAL AMPLIFIER FOR 1550 NM + WDM

Application

- Amplification of 1550 nm optical signals on single mode fibers
- Wavelength Multiplexing of RF video (CATV) and IP signals in FTTH PON Networks

Features

- 8 output ports with up to 20 .0 dBm each @1550 nm (CATV)
- 1310&1490/1550nm WDM coupler at each output for multiplexing of bidirectional IP traffic
- Cladding-pumped ErYb-doped fiber amplifier technology
- Pumplaser wavelengths < 1000 nm
- Constant output power control
- Input and output monitors
- Dual, hot-plug-in power supply modules for 100 … 240 VAC or ±36 … ±72 VDC
- Ethernet - Web and -SNMP Interface (a-Version)
- RS232/RS485 control interface (b-Version)
- LC display
- General purpose I/O interface for remote functions
- LED status indication
- Very thin design, only 1 HU
- OEM versions available

Technical Data

General		
Port Numbers		1 input 1550 nm (CATV in) 8 in/out 1310&1490 nm (IP in/out) 8 in/out 1550+1310&1490 nm (CATV&IP in/out)
Insertion loss IP traffic 1310&1490 nm	[dB]	≤ 1.0
Isolation 1310&1490 - 1550 nm	[dB]	> 15
Uniformity @ 1550 nm	[dB]	< 1.2
Operating wavelength	[nm]	1545~1565 (CATV) 1270~1350 &1480~1505 (IP)
Opt. output power @1550 nm	[dBm]	8 x 16.5 ± 0.5, 8 x 20.0 ± 0.5
Wavelength of pump lasers (typ.)	[nm]	< 1000 nm
Optical return loss	[dB]	>45

Min. optical input level @1550nm	[dBm]	-5
Max. optical input level @ 1550nm	[dBm]	+10
Polarization dependent gain	[dB]	0.5
Noise figure (@Pin=0dBm, λ=1550nm)	[dB]	< 6.0

Electrical and Mechanical Properties

Optical connector CATV input	E2000 or SC/APC
Optical connector IP in/out	LC/PC or SC/PC
Optical connector CATV&IP in/out	LC/APC or SC/APC
Optical fiber	standard singlemode 9/125 µm
Power consumption	< 40W
Climatic specification Operation Storage	 ETS 300 019, class 3.1 ETS 300 019, class 1.2
EMI	EN50083-2 (April 2006) EN50083-2 /A1 (February 1998)
Power supply Dual redundant, hot pluggable	100 … 240 VAC or ±36 … ±72 VDC
Enclosure	19" / 1 HU