

FX-OV16xxx

VERY HIGH POWER OPTICAL AMPLIFIER FOR 1550 NM



Application

- ▶ Amplification of 1550 nm optical signals on single mode fibers
- ▶ Video overlay in FTTH networks
- ▶ CATV networks
- ▶ 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)

Features

- ▶ Output powers of 16 x 16,5 dBm and 16 x 20 dBm
- ▶ Cladding-pumped ErYb-doped fiber amplifier technology
- ▶ Constant output power control
- ▶ Input and output monitors
- ▶ 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		
Input signal wavelength	[nm]	1545 - 1565
Optical output power	[dBm]	16 x 16,5 \pm 0.5 16 x 20 \pm 0.5
Wavelength of pump lasers (typ.)	[nm]	< 1000 nm
Optical return loss	[dB]	>45
Min. optical input level	[dBm]	-5
Max. optical input level	[dBm]	+10
Polarization dependent gain	[dB]	0.5
Noise figure (@Pin=0dBm, $\lambda=1550$ nm)	[dB]	<5.5
Optical isolation @ input	[dB]	35
Optical isolation @ output	[dB]	35

Electrical and Mechanical Properties

Optical connector input	E2000 or SC/APC
Optical connector output	LC/APC or SC/APC
Optical fiber	standard singlemode 9/125 μm
Power consumption	< 45 W
Climatic specification	
Operation	ETS 300 019, class 3.1
Storage	ETS 300 019, class 1.2
EMI	EN50083-2 (April 1996) EN50083-2 /A1 (February 1998)
Power supply	100 ... 240 VAC
Dual redundant, hot pluggable	or ± 36 ... ± 72 VDC
Enclosure	19" / 1 RU