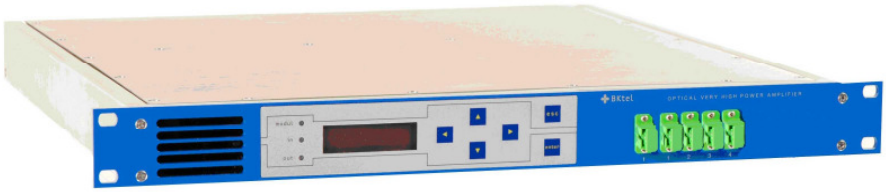
Fx-OV04200

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

Features

- Output powers of 4 x 20 dBm
- Cladding-pumped ErYb-doped fiber amplifier technology
- 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		
Input signal wavelength	[nm]	1545 – 1565
Max. optical output power	[dBm]	4 x 20.0 ± 0.5
Factory setting optical output power	[dBm]	4 x 18.0 ± 0.5
Wavelength of pump lasers (typ.)	[nm]	< 1000
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, λ=1550nm)	[dB]	< 5.5
Optical isolation @ input	[dB]	35
Optical isolation @ output	[dB]	35

Electrical and Mechanical Properties

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