High Power Erbium Doped Fiber Amplifier

The QAMnet qEDFA series of Erbium Doped Fiber Amplifiers (EDFA) are reliable and high output fiber amplifiers for use in HFC, FTTH, PON and deep-fiber applications.

qEDFA High Power Erbium Doped Fiber Amplifier

Product Description

he QAMnet qEDFA series of Erbium Doped Fiber Amplifiers (EDFA) are reliable fiber amplifiers with high output for use in HFC, FTTH, PON and deep-fiber applications. Utilizing high power pump laser modules, the qEDFA amplifiers deliver optical output levels up to +37 dBm (5,000 mW). This combination of technologies provide the highest mW per dollar ratio.

Depending on the number of pump lasers modules and configuration, qEDFA amplifiers produce optical output level from +25 dBm up to +37 dBm. The high power booster qEDFA is housed in a standard 19" 2RU rackmount unit.

Features

- High power pump lasers from qualified suppliers
- Laser operating temperature and current regulated by microcontroller
- Forward and backward pumping to minimize noise figure (NF)
- Input power level range: -8 dBm to +12 dBm
- Standard Automatic Current Control (ACC)
- LCD front panel digital display and LED status indicators
- Remote Control through RS-232, or SNMP available as an option

Applications

✓ HFC ✓ FTTH ✓ RFoG ✓ PON ✓ Deep Fiber Applications

PRODUCT SPECIFICATIONS

Optical Specifications

perating Wavelength Range	1528 nm to 1563 nm
Output Power Level (1550 nm and +3 dBm Input)	25.0 dBm typ., 26.0 dBm typ., 30.0 dBm typ., 33.0 dBm typ., 34.0 dBm typ., 37.0 dBm typ.
Number of Output	1 output port standard, multiple output ports (up to 32) can be ordered
Optical Return Loss	50 dB min.
Input/Output optical Isolation	30 dB min.
Polarization Mode Dispersion	1.0 ps max.
Polarization Dependent Gain	0.15 dB max.
Noise Figure (NF)	5.0 dB max. @ +3 dBm Input
Input Power Range	-8 dBm to +12 dBm
Output Power Stability	0.2 dB over 8 hours
Input/Output Fiber Type	Corning SMF-28

Mechanical Specifications

Operating Temperature Range	0°C to +50°C
Storage Temperature Range	-40°C to +70° C
Power Supply	80 – 240 V, 43 – 63 Hz AC 40 - 58 VDC (Optional)
Power Consumption	120 W max.
Housing Dimensions	2RU: 19"(W) x 14"(D) x 3.50"(H) for output power level > 29 dBm; 1RU: 19"(W) x 14" (D) x 1.75"(H)
Control / Monitoring	Pump Laser Temperature and Current
Display	Output Power Level, TEC Temperature
Alarm	Over Temperature , Over Current
Optical Connectors	SC/APC, FC/APC, LC/APC, or Specified
Computer Interface	RS-232 Standard, SNMP Optional

Ordering Information

	qEDFA-xx-yy
xx	Output power level 25, 26, 30, 33, 34, 37 dBm
yy	Number of Output

QAMnet 5110 N 44th St, Ste 200L, Phoenix AZ 85018
optilab.com 877-303-3888 602-343-8217 sales@qamnet.com