

# EDFA-C-23-M



## DEVICE

## 23 dBm EDFA Module, C-band

## OVERVIEW

The Optilab EDFA-B-23-M EDFA module is an easy-to-use and cost-efficient solution for photonic subsystems, OEM integration, and fiber optic system integration. Using dual-stage design, this module features high optical gain, low noise, and up to +23 dBm output power level. Software control is standard via an RS-232 interface for status monitoring and pump current adjustments. Pump laser protection and alarms are equipped to ensure the reliability and safety of the device. The module requires only a  $\pm 5$  VDC power supply for operation which comes included with each EDFA-B-23-M. Contact Optilab for more information.

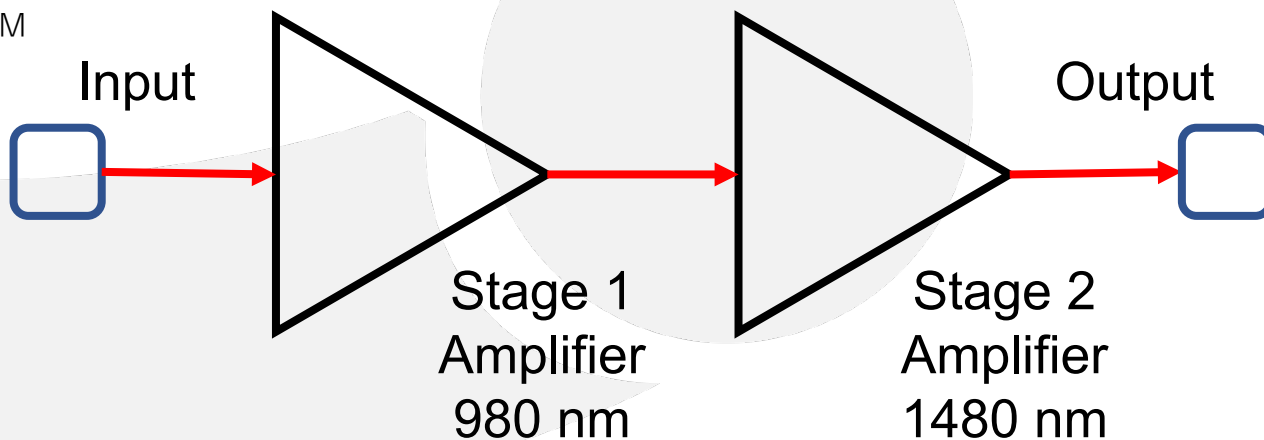
## FEATURES

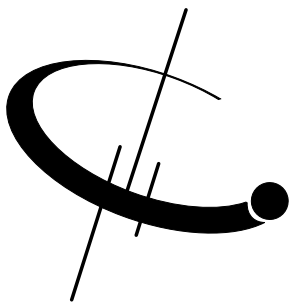
- High output up to +23 dBm
- Low noise figure
- High reliability dual-pump laser
- RS-232 standard for remote control
- Wide wavelength operation range
- +5 V power supply
- 10+ years of operation life
- Adjustable current for each pump
- 3-year warranty standard

## USE IN

- OEM integration for
  - DWDM networks
  - HFC/CATV
  - RFoG/FTTH
- Photonic subsystems
- Fiber optic link amplification

## FUNCTION DIAGRAM





# EDFA-C-23-M

## SPECIFICATIONS

Operating Range	1528 nm to 1563 nm
Input Power Range	-10 to +3 dBm
Output Power Levels	+23 dBm min. standard, +22, +24 dBm optional
Noise Figure	5.0 dB max. @ 0 dBm input
Optical Return Loss	50 dB min.
Input Optical Isolation	30 dB min.
Output Optical Isolation	30 dB min.
Optical Gain	23 dB typ. @ 0 dBm input, 22, 24 dB typ. optional
Polar. Mode Dispersion	0.1 ps max.
Polar. Dependent Gain	0.1 dB max.
Output Power Stability	0.1 dB over 8 hours
Input/Output Fiber Type	Corning SMF-28

## GENERAL

Operating Temperature	0°C to +70 °C
Power Supply	+5 V DC, 5.0 A max.
Power Consumption	20 W max.
Fiber Type	SMF-28
Fiber Jacket	900 µm
Connector Type	FC/APC
Connector (power and control)	DB-25 Male
Display	LEDs for On/Off, Power
Remote Control	RS-232 for laser control, status monitoring
Dimensions	150mm x 125mm x 23mm
Accessories Included	110 V – 240 V AC Adaptor for +5 V DC and cable

## MECHANICAL

## OPTIONS

### EDFA-C-xx-M

- xx** 22, +22 dBm output power
- 23, +23 dBm output power
- 24, +24 dBm output power

