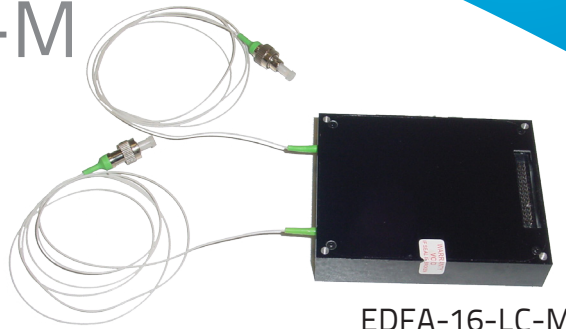


EDFA-16-LC-M



EDFA-16-LC-M

EDFA Module with Low Current Consumption

The Optilab EDFA-LC-M Module with Low Current Consumption (LC) is an ideal building block for photonic subsystems and OEM system integration. Using a specifically qualified FBG stabilized, uncooled pump laser, this LC version of the EDFA module is designed for minimal electrical power consumption and thermal loading. Under normal operating conditions, this module will draw less than 2 W of power (5 V, 270 mA), and it requires only a single 5 VDC power supply for operation. Pump laser protection and alarms are equipped to ensure the reliability and safety of the EDFA-16-LC-M, and status monitoring and output power level adjustment is controllable via an RS-232 interface. Contact Optilab for more information.

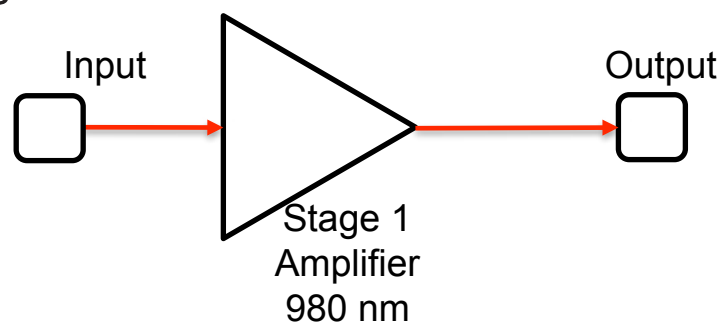
Features

- Low current consumption of 270 mA
- Adjustable output up to +16 dBm
- Full C-band operating range
- Low noise figure
- High reliability pump laser
- Wide operation temperature range
- Single +5 V power supply
- RS-232 interface
- Compact size

Applications

- Intelligent EDFA gain block
- OEM integration for
 - Optical networks
 - HFC/CATV
 - RFoG/FTTH
 - Fiber sensors
- Photonic subsystems
- Fiber optic link amplification
- Instrumentation

Functional Diagram



EDFA with Low Current Consumption | EDFA-16-LC-M

OPTIONS

EDFA-16-LC-M

TECHNICAL INFO

For technical info and support:

sales@optilab.com

www.optilab.com

PHONE

Contact Optilab at:

1-888-553-3888 (toll-free)
1-602-343-1496 (direct, int'l)

Optilab, LLC
Phoenix, AZ, USA

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Optical Specifications	
Operating Range	1528 nm to 1563 nm
Output Power	+10 to +16 dBm adjustable
Input Signal Level	-15 dBm to +3 dBm
Optical Gain	20 dB typ. @ -5 dBm input
Noise Figure	5.0 dB typ. @ -5 dBm input
Input Isolation	30 dB min.
Output Isolation	30 dB min.
Polar. Dependent Gain	0.3 dB max.
Control Modes	ACC
Adjustable Features and Output	
Control	RS232 for output power adjustment
Output Power Adjustment	Adjust by laser bias current
Mechanical Specifications	
Operating Temperature	-20° to +60° C
Power Supply	+5 V DC, 400 mA max.
Power Consumption	2 W max. 1.4 W typ.
Fiber Type	SMF-28
Fiber Jacket	900 µm
Connector Type	FC/APC
Connector (power and control)	30 Pin Ribbon IDC Connector
Remote Control	RS-232 for laser control, status monitoring
Dimensions	90 mm x 70 mm x 18 mm
Accessories Included	110 V - 240 V AC Adaptor for +5 V DC and cable