EDFA-GM-R

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Gain Flattened Inline EDFA with Mid-stage Access

The Optilab EDFA-GM-R is a line of gain-flattening EDFA designed for optical amplification in DWDM networks. The EDFA-GM-R is typically used as an intermediate point in the network to increase the DWDM channel power levels, with the ability to amplify input signals as low as -18 dBm per channel. Featuring a dual-stage design with mid-stage access, the EDFA-GM-R can be fitted with Dispersion Compensation Modules (DCM) to reduce distortion due to effects of chromatic dispersion that occurs in single-mode fiber (SMF). The mid-stage access can also be used for installing Optical Add/Drop Module (OADM). The EDFA-GM-R provides flattened optical gain and low noise figures for optimum DWDM signal amplification. Various output power levels are available (ranging from +18 to +24 dBm) to provide maximum flexibility for network design and implementation. The Optilab EDFA and Raman amplifiers can provide an optimal solution for DWDM network optical amplification based on channel and transmission distance requirements. The EDFA-GM-R can be used in conjunction with Optilab EDFA-GB-R Booster EDFAs and RA-R Raman amplifiers to significantly increase the transmission distance and quality of DWDM signals. All Optilab DWDM EDFA products are constructed with 100% Telcordia qualified components to ensure 15 years of continuous operating life. Contact Optilab for more information.

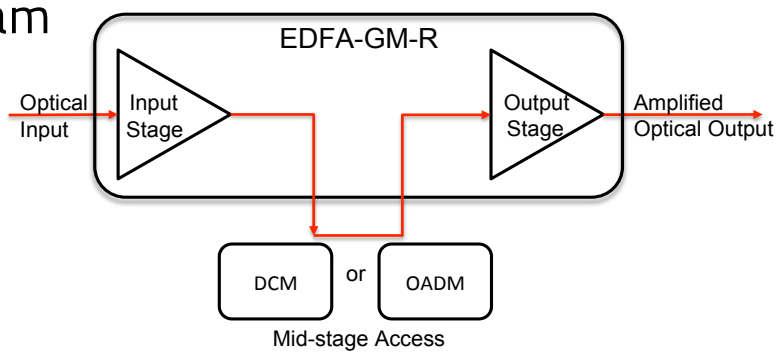
Features

- Compatible with 10G/40G DWDN Networks
- Flat gain spectrum across C-band
- Mid-stage access for DCM or OADM
- Power levels +18 dBm to +24 dBm
- High reliability Telcordia qualified components

Applications

- Laboratory Test and Measurement
- Test Instrumentation
- R&D

Functional Diagram



Gain Flattened EDFA with Mid-stage Access | EDFA-GM-R

OPTIONS

EDFA-GM-xx-R

xx Output power level +18 – +24 dBm

TECHNICAL INFO

For technical info and support:

sales@optilab.com

www.optilab.com

WEB ORDER

To order, please click below.

OEQuest.com

Optilab Advantage

- Innovation
- Performance
- Quality
- Customization
- Warranty

Optical Specifications	
Operating Range	1530 nm to 1560 nm
Output Power Levels	+18 dBm to +24 dBm
Input Signal Level	-18 to 0 dBm per channel
Number of Channels	42 at 100 GHz
Optical Gain per Channel	+23 to 28 dB, depending on configuration
Gain Flatness	±1.0 dB
Optical Gain per Channel	5.0 dB typ.
Gain Flatness	± 0.5 dB
Noise Figure	5.0 dB typ.
Loss Budget for Mid-stage Device	9 dB
Polarization Dependent Gain (PDG)	0.2 dB max.
Polarization Mode Dispersion (PMD)	0.5 ps max.
Power Stability	± 0.1 dB over 8 hours
Input/Output Isolation	30 dB min.
Mechanical Specifications	
Operating Temperature	0° C to +50° C
Storage Temperature	-40° C to +70° C
Power Supply Requirements	80 - 240 V, 43 - 63 Hz AC
Power Consumption	75 W max.
Control	Pump Laser Current Adjustment
Monitoring	Pump Laser Temperature
Computer Interface	RS-232 (Optional)
Display	Output Power Level, TEC Temperature
Alarms	Temperature and Current Threshold
Optical Connectors	FC/APC, SC/APC
Housing Dimensions	1U Rack: 19" x 14" x 1.75"