



RA-L-2A-R



DEVICE

2-Channel L-Band Raman Amplifier, Rackmount

OVERVIEW

The Optilab RA-L-2A-R is a 2-Channel L-band Raman Amplifier Rackmount that uses a high power laser source for distributed amplification of optical signals in the L-band. Two pumping wavelengths are combined to achieve gain- flattened optical amplification, ideal for use in DWDM networks amplification, ultra long-haul (ULH) and 40Gb/s network applications. Optilab Raman Amplifiers are equipped with broadband pump/signal combiners and separate power monitoring for each channel. Each wavelength is powered by two pump lasers that are combined through polarization. The amplifiers are housed in 3U rack-mountable cases for easy installation. Remote operation via RS232 is included. Optional network accessibility via RJ45 is available.

FEATURES

- Flat gain over low noise figure
- Standard RS232 interface
- Optional remote interface via Ethernet
- LCD front panel digital display and status indicators
- Incorporates 4 high power pump laser modules, with 2 lasers combined for each wavelength
- Compatible with ITU-T G.652 (standard SMF), ITU-T G.654, and ITU-T G.655

USE IN

- DWDM
- Ultra Long-Haul Networks
- 40G Networks
- Lab Instrumentation/Testing

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SPECIFICATIONS

Operating Wavelength	1560 nm – 1605 nm
Optical Gain	11 dB typ. with 50 km SMF-28
Gain Flatness	± 1.0 dB
Pump Wavelength Channels	2 each
Pump Lasers per Channel	2 each
Pump Power per Channel	430 mW min.
Total Pump Power	800 mW typ.
Effective Noise Figure	-1.3 dB typ.
Signal Insertion Loss	0.5 dB typ.
Degree of Polarization	5% typ.

GENERAL

Operating Temperature Range	0°C to +50°C
Storage Temperature Range	-10°C to +70°C
Power Supply	80 – 240 V, 43 – 63 Hz AC
Dimensions	482 mm (L) x 350 mm (W) x 137 mm (H)
Control	ACC, APC
Display	LCD: Total Output Power, Input Power, Pump Laser Power, Current, and TEC Temperature
Computer Interface	RS232 (Labview Software and Cable included), Optional RJ45 port for remote operation via Ethernet
Protection	Pump Laser Over Temperature Shut Down, Loss of Signal Warning
Optical Connectors	FC/APC, SC/APC
Optical Fiber	SMF-28

MECHANICAL

