

RA-L2-15-R



DEVICE

15 dB Gain Raman Amplifier, 1560 nm to 1605 nm

OVERVIEW

Optilab Raman Amplifier Rackmount Units are designed for distributed Raman amplification in L-Band at 1560-1605 nm. The RA-L2-15-R unit provides over 15 dB On/Off gain flattened amplification from 1560nm to 1605nm, thus can support up to 50 DWDM channels. Each of the two pump channels is configured with two high power pump laser diodes and one polarization beam combiner (PBC). The pump wavelengths are 1462nm and 1490nm. The unit includes micro-controller based laser current control circuitry for enhanced stability and reliability. RA-L2-15-R is an ideal amplifier for high channel count DWDM 40G/100G transmission and fiber sensor systems. It is equipped with LCD touch screen and LabVIEW (TM) remote user interface for easy operation. Contact Optilab for more information.

FEATURES

- 1560 nm 1605 nm
- Over 15 dB On/Off Gain
- Gain flatness of < ±1.5 dB

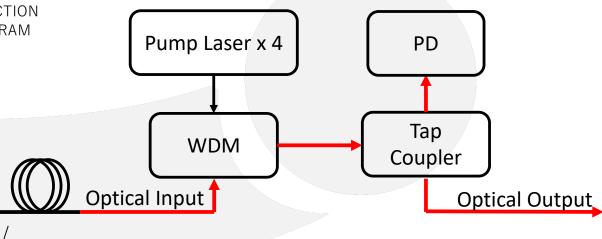
- Excellent Stability
- Up to 50 DWDM Channels
- Touch Screen LCD & USB Interface

USE IN

- Long Haul / Ultra-Long Haul Systems
- Long Repeaterless Links
- Low Latency Links

- Multi-Channel DWDM Networks
- 40 / 100 Gbps Transmission

FUNCTION DIAGRAM





SPECIFICATIONS

GENERAL

Pump Wavelengths	1462, 1490
Operating Wavelength	1560 nm to 1605 nm
Input Signal Level	-40 to -10 dBm
Pump Power	Up to 750 mW
Averaged Gain @ -15 dBm Input	> 15 dB
Gain Flatness	< ±1.5 dB
Signal Insertion Loss	< 1 dB
Output Stability	< ± 0.1 dB for 24 hours
Degree of Polarization	< 5% for each channel

MECHANICAL

Operating Temperature	-5°C to + 55°C
Storage Temperature	-40 °C to 80 °C
Operating Humidity	0% to 90% Relative Humidity
Power Supply	110 - 240 VAC
Remote Port	USB 2.0
Dimensions	3U: 450 mm x 615 mm x 137 mm
Optical Input Fiber	SMF-28 with 3 mm Jacket (no connector)
Output Fiber Connector	FC/APC

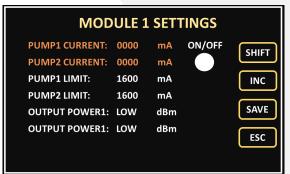




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Touch Screen Interface: easy adjustment of pump current settings





LabVIEW Remote Control Interface



Typical Application Diagram

