

RA-C4-15-R



DEVICE

15 dB Gain Raman Amplifier, 1530 nm to 1570 nm

OVERVIEW

Optilab Raman Amplifier Rackmount Units are designed for distributed Raman amplification in C-Band. The RA-C4-15-R unit provides over 18 dB On/Off gain flattened amplification from 1530nm to 1570nm, thus can support up to 50 DWDM channels. Each of the two pump channels is configured with two high power pump laser diodes at 1435 and 1462 nm and one polarization beam combiner (PBC). The unit includes microcontroller based laser current control circuitry for enhanced stability and reliability. RA-C4-15-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.

FFATURES

- 1530 nm 1570 nm
- Over 15 dB On/Off Gain
- Gain flatness of < ±1.5 dB

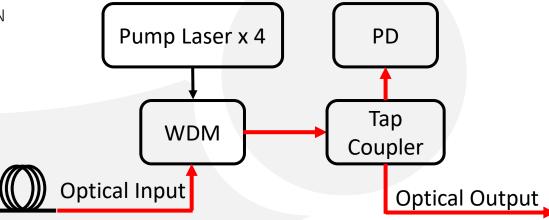
- Excellent Stability
- Up to 50 DWDM Channels
- Touch Screen LCD & USB Interface

USE IN

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

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

FUNCTION DIAGRAM







RA-C4-15-R

SPECIFICATIONS

GENERAL

Operating Wavelength	1530 nm to 1570 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	11D - 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

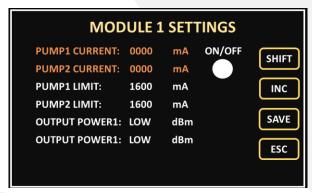




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Touch Screen Interface: easy adjustment of pump current settings





LabVIEW Remote Control Interface



Typical Application Diagram

