

RA-CL3-15-R



DEVICE

15 dB Gain Raman Amplifier, 1530 nm to 1609 nm

OVERVIEW

Optilab Raman Amplifier Rackmount Units are designed for distributed Raman amplification in both the C-Band and L-Band. The RA-CL3-15-R unit provides over 15 dB On/Off gain flattened amplification from 1530nm to 1609nm, thus can support up to 200 DWDM channels. Each of the four pump channels is configured with two high power pump laser diodes and one polarization beam combiner (PBC). The unit includes micro-controller based laser current control circuitry for enhanced stability and reliability. RA-CL3-15-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.

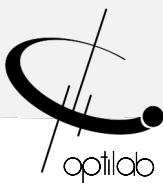
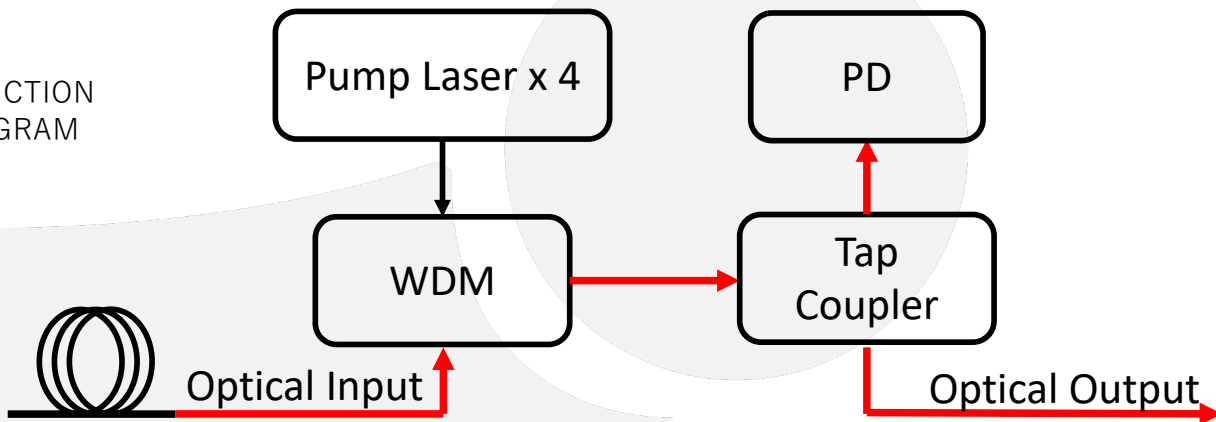
FEATURES

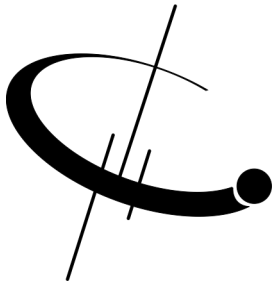
- 1525 nm – 1609 nm
- Over 15 dB On/Off Gain
- Gain flatness of $< \pm 1.5$ dB
- Excellent Stability
- Up to 200 DWDM Channels
- Touch Screen LCD & USB Interface

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-CL3-15-R

SPECIFICATIONS

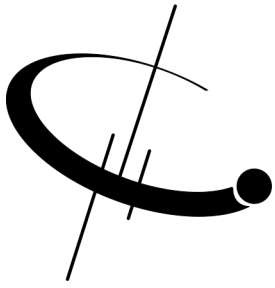
GENERAL

Operating Wavelength	1525 nm to 1609 nm
Input Signal Level	-40 to -10 dBm
Pump Power	Up to 1.5 W
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

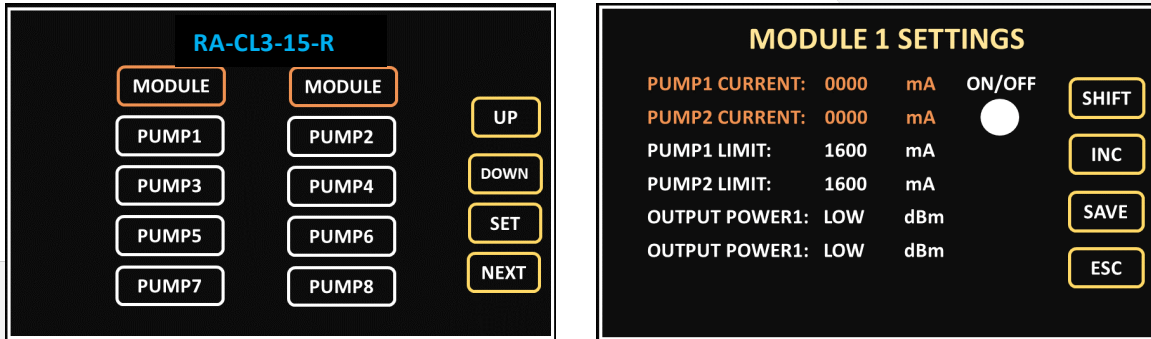
Operating Temperature	-5°C to + 55°C
Storage Temperature	-40 °C to 80 °C
Operating Humidity	0% to 90% Relative Humidity
Power Supply	110 - 240 VAC
Remote Port	USB 2.0
Dimensions	3U: 450 mm x 615 mm x 150 mm
Optical Input Fiber	SMF-28 with 3 mm Jacket (no connector)
Output Fiber Connector	FC/APC



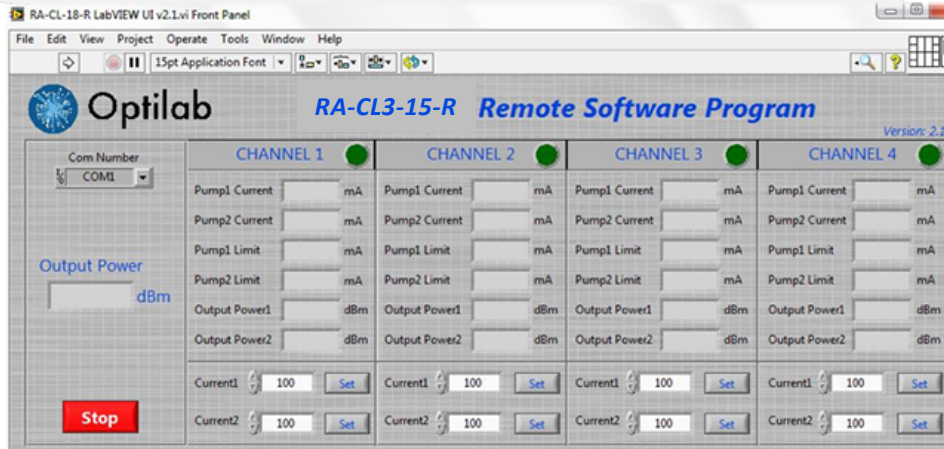


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Touch Screen Interface: easy adjustment of pump current settings



LabVIEW Remote Control Interface



Typical Application Diagram

