

RA-L3-15-R



IS dB Gain Raman Amplifier, 1565 nm to 1605 nm

| OVERVIEW | Optilab Raman Amplifier Rackmount Units are des amplification in L-Band at 1565-1605 nm. The RA-L3-15-R is gain flattened amplification from 1565nm to 1605nm, thus channels. Each of the two pump channels is configured we diodes and one polarization beam combiner (PBC). The and 1490nm. The unit includes micro-controller based la enhanced stability and reliability. RA-L3-15-R is an ideal a DWDM 40G/100G transmission and fiber sensor systems. screen and LabVIEW (TM) remote user interface for easy more information. | unit provides over 15 dB On/Off s can support up to 50 DWDM vith two high power pump laser pump wavelengths are 1471nm aser current control circuitry for amplifier for high channel count It is equipped with LCD touch |
|-------------------------------|---|--|
| FEATURES | | t Stability DWDM Channels creen LCD & USB Interface |
| USE IN FUNCTION DIAGRAM | Long Repeaterless Links Low Latency Links | nannel DWDM Networks Gbps Transmission |
| | Pump Laser x 4 PD | |

Тар

Coupler

Optical Output

WDM

Optical Input

optilob



• RA-L3-15-R

SPECIFICATIONS

| Pump Wavelengths | 1471, 1490 |
|-------------------------------|-------------------------|
| Operating Wavelength | 1565 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 |





Touch Screen Interface: easy adjustment of pump current settings

| RA-L3-15-R | | MODULE 1 SETTINGS |
|---|---------------------------|---|
| Module Module PUMP1 PUMP2 PUMP3 PUMP4 | UP DOWN SET NEXT | PUMP1 CURRENT: 0000 mA ON/OFF SHIF PUMP2 CURRENT: 0000 mA INC PUMP1 LIMIT: 1600 mA INC PUMP2 LIMIT: 1600 mA SAVI OUTPUT POWER1: LOW dBm SAVI OUTPUT POWER1: LOW dBm ESC |

LabVIEW Remote Control Interface



Typical Application Diagram

