

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	<ul> <li>Long Repeaterless Links</li> <li>Low Latency Links</li> </ul>	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

