



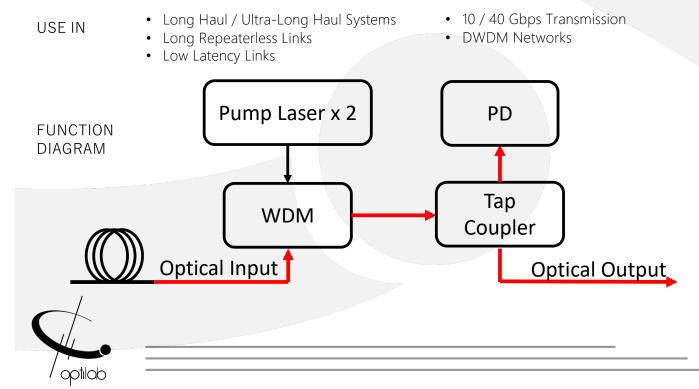
## DEVICE Single Band Raman Amplifier Module, 1490 nm

OVERVIEW

Optilab Raman Amplifier Module Units are designed for distributed Raman amplification in a narrow spectral range in C band. Configured with two high power pump laser diodes at 1490 nm, the RA-1490-M unit provides over 10 dB On/Off gain flattened amplification. The unit includes micro-controller based laser current control circuitry for enhanced stability and reliability. RA-1490-M is an ideal amplifier for single-channel to multi-channel long-haul transmission and fiber sensor systems. It is equipped with LabVIEW (TM) remote user interface for easy operation. Contact Optilab for more information.

FEATURES

- >10 dB Gain @ -15 dBm Input
  >15 dB Gain @ -35 dBm Input
- Excellent Stability
- LabVIEW Remote Interface





## SPECIFICATIONS

GENERAL
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Pump Wavelength	1490 nm
ump Power Up to 400 mW	
Input Signal Level	-40 to -10 dBm
Averaged On/Off Gain @ -15 dBm Input	> 10 dB
Averaged On/Off Gain @ -35 dBm Input	> 15 dB
Gain Flatness	< ±1 dB
Signal Insertion Loss	< 1 dB
Output Stability	< ± 0.1 dB for 24 hours
Degree of Polarization	< 5%

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	200 mm x 120 mm x 25 mm
Optical Input Fiber	SMF-28 with 3 mm Jacket (no connector)
Output Fiber Connector	FC/APC

## MECHANICAL





## LabVIEW Remote Control Interface

/ oplilab	CHANNEL 1	0
≁	Pump1 Current	mA
Com Number	Pump2 Current	mA
K COM1 -	Pump1 Limit	mA
	Pump2 Limit	mA
Output Power	Output Power1	dBm
dBm	Output Power2	dBm
	Current1 500	Set
Stop	Current2 / 500	Set

Typical Application Diagram

