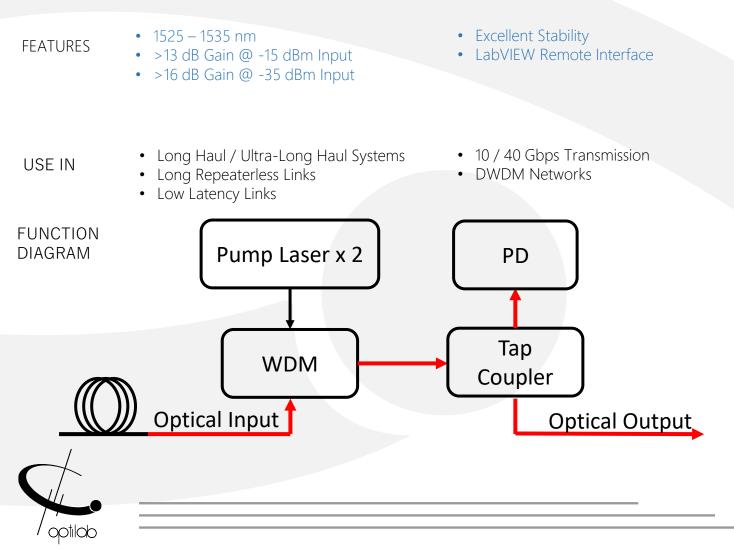




DEVICE 13 dB Gain Raman Amplifier, 1525 to 1535 nm

OVERVIEW

Optilab Raman Amplifier Rackmount Units are designed for distributed Raman amplification in a narrow spectral range in C band. Configured with two high power pump laser diodes at 1425 nm, the RA-1425-M unit provides over 13 dB On/Off gain flattened amplification from 1525 – 1535 nm. The unit includes micro-controller based laser current control circuitry for enhanced stability and reliability. RA-1425-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.





SPECIFICATIONS

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MECHANICAL

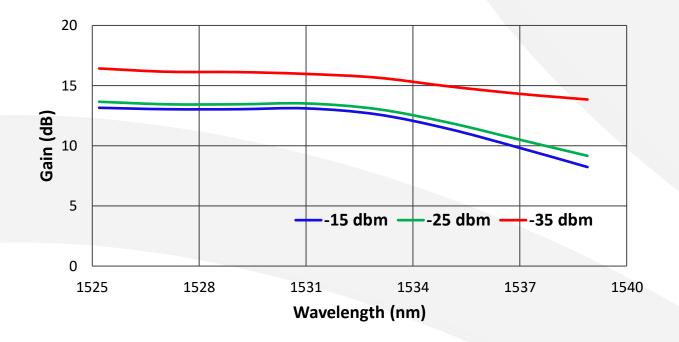
Pump Wavelength	1425 nm
Operating Wavelength	1525 – 1535 nm
Pump Power	Up to 500 mW
Input Signal Level	-40 to -10 dBm
Averaged On/Off Gain @ -15 dBm Input	> 13 dB
Averaged On/Off Gain @ -35 dBm Input	> 16 dB
Gain Flatness	< ±1 dB
Signal Insertion Loss	< 1 dB
Output Stability	< ± 0.1 dB for 24 hours
Degree 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

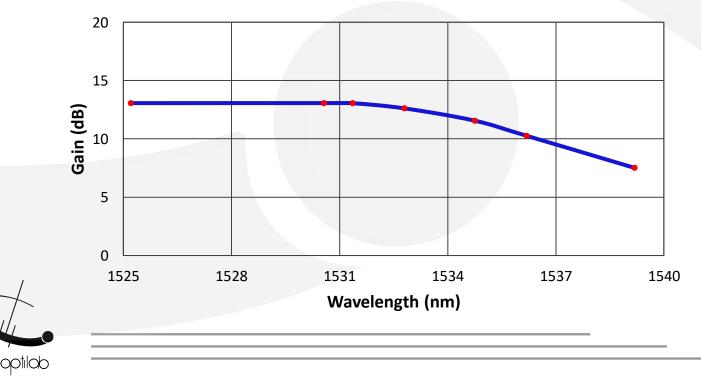




Typical On/Off Gain @ Different Input Power Levels



Multi-Channel On/Off Gain Spectrum @ an Averaged Input Power of -20 dBm



Product specifications and description are subject to change without notice. © 2018 Optilab, LLC. RA-1425-M Aug 2018 Rev. 1.0



LabVIEW Remote Control Interface

1 oplilab	CHANNEL 1		
, 1	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	Set	
Stop	Current2 500	Set	

Typical Application Diagram

