



monics

AMONICS LTD.



ISO 9001 : 2008
Certificate No.: CC 5346

Raman Amplifier

Applications

- SONET/SDH Systems
- Optical Communication
- Fiber Optical Sensing
- CATV
- Laboratory



Description

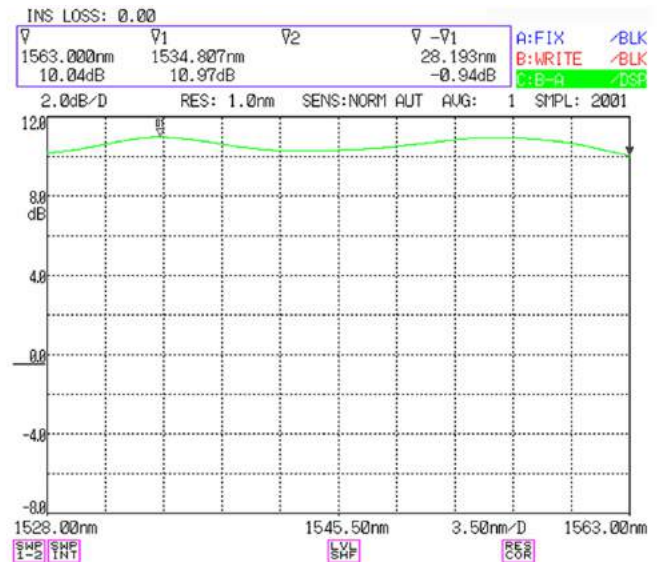
Amonics Raman Amplifier is a high-power laser light source for distributed optical amplification of optical signals in the C or L bands.

The Raman Amplifier features 2 or 4 pumping wavelengths for gain flattened amplification. It is a ready-to-use optical amplifier equipped with a broadband pump/signal combiner and individual power monitoring for each channel. The Raman Amplifier is available in both benchtop and rackmount casings.

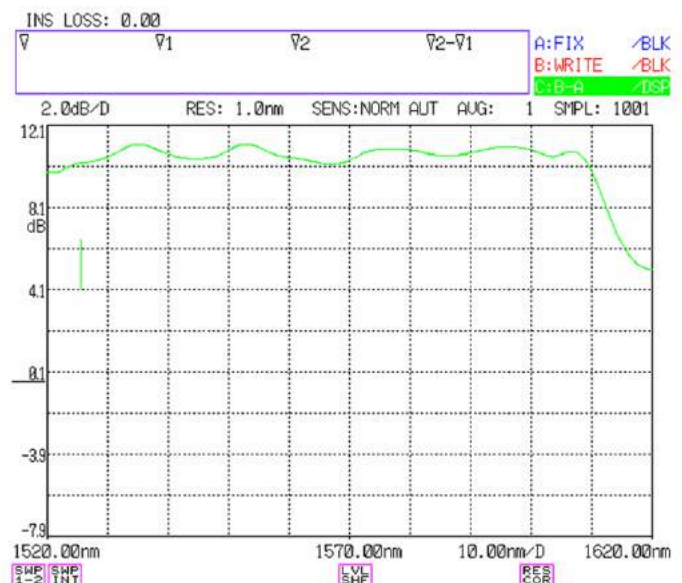
Key Features

- High output power
- High gain
- Low noise figure
- RS232 computer interface
- Highly reliable and durable

C-band Raman Amplifier Gain Profile



C+L band Raman Amplifier Gain Profile



The product is manufactured under a HKQAA ISO 9001 certified quality management system
The ISO 9001:2008 certification applies to the Hong Kong production site only

Specifications

	C band	C+L band
Operating Wavelength	1525 – 1563nm	1528 – 1605nm
Optical Gain	Typ. 10dB	Typ. 10dB
Gain Flatness	< 2dB	< 2dB
Total Pump Power	Typ. 500mW	Typ. 800mW
Effective Noise Figure	Typ. -1.0dB	Typ. -1.0dB
Signal Insertion Loss	Typ. 0.7dB	
Degree of Polarization	Typ. 5%, Max. 10%	
Control Mode	ACC, APC, AGC (optional)	

General Parameters

Parameters	Unit	Specifications
Operation Temperature	°C	0 to +40
Storage Temperature	°C	-10 to +70
Power Supply	VAC	90 – 240, 47 – 63Hz
Dimensions	mm	Benchtop: 260(W) x 330(D) x 120(H) (for C band amplifiers only) 1U Rackmount: 485(W) x 360(D) x 45(H) Other standard rackmount sizes are also available
Mechanical Safety Control	-	Key-lock switch, BNC interlock key
Optical Power Monitoring	-	Output power, Total pump power
Remote Control Port	-	DB-9 female (RS232), LabView control software included RJ-45 (TCP/IP Ethernet) (optional)
Protection	-	Pump laser (TEC) overheat
Optical Connector	-	FC/APC, FC/UPC, SC/APC, SC/UPC
Optical Fiber	-	SMF-28


Ordering Information

Product Code	ARA-a-bbb-c-dd	a : C for C-band, CL for C+L band bbb : Pump power, 500 for 500mW, 800 for 800mW c : B for Benchtop case, R for 19" Rackmount case dd: FA for FC/APC, FC for FC/UPC SA for SC/APC, SC for SC/UPC
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Amonics undertakes continuous and intensive product development to ensure its product performance at the highest technical standards. As a result, the specifications in this document are subject to change without notice.

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