

Applications

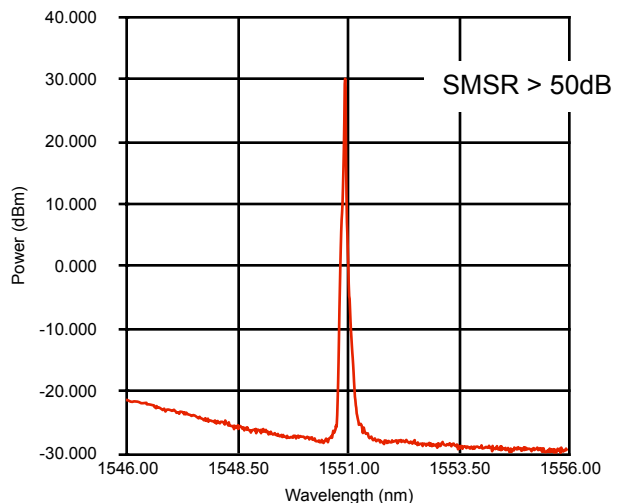
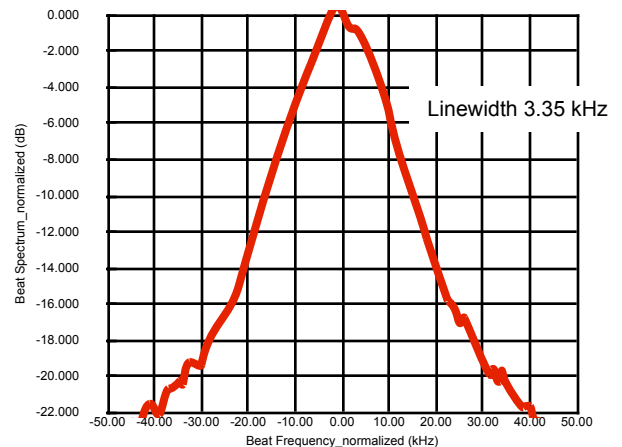
- Brillouin distributed sensing
- Interferometric fiber optics sensing
- LIDAR
- Test & Measurement
- Seed laser sources



Description

Amonics' specialized products, high power narrow linewidth laser (AULLD series), which integrated with Redfern Integrated Optics (RIO) PLANEX™ high performance external cavity laser. The AULLD is integrated high power low noise EDFA, possess narrow linewidth, low phase noise, ultra low RIN, high output power with exceptionally reliable performance. An integrated RS232 computer interface enables easy control, diagnostic functions and data acquisition. The AULLD is an ideal candidate for commercial fiber optic sensing, such as interferometric and Brillouin DTSS sensing system for oil & gas, security, metrology and smart infrastructure.

1W Output Power



Key Features

- Narrow Linewidth, < 3kHz
- Low phase noise
- Ultra low RIN
- High output power, up to 2W
- Linear polarized output
- Wavelength tunability
- Turnkey operation
- RS232, TCP/IP remote control
- Ultra stable

AULLD series Specifications

Parameter	Unit	Specification	Test Conditions
Product Code	-	AULLD series	Refer to order information
Laser Wavelength	nm	ITU DWDM or 1064, ± 0.2	CW @ rate power
Optical Output Power	W	0.5, 1.0, 2.0	-
Linewidth FWHM, Lorentzian	kHz	3, 5, 15, 100	CW @ rate power
Optical Isolation	dB	Min. 30	Under operation temp.
Side-mode Suppression Ratio	dB	Typ. 50, Min. 40	CW @ rate power
Relative Intensity Noise	dB/Hz	Shot Noise Limited	@ frequency > 100kHz
Wavelength Tunability	pm	Typ. 20, Min. 10	Via RS-232 interface
Output Power Stability	dB	Max. ± 0.2 (within 8 hrs) Max. ± 0.03 (within 10 mins)	CW @ rate power Constant environment temperature
Wavelength Stability	nm	Max. ± 0.005 (within 8 hrs) Max. ± 0.001 (within 10 mins)	CW @ rate power Constant environment temperature
Environmental			
Operation Temperature	$^{\circ}\text{C}$	-15 to +70	Case Temperature
Storage Temperature	$^{\circ}\text{C}$	-20 to 80	Case Temperature
Dimensions	mm	200(L) x 140(W) x 55(H)	-
Supply Voltage	VDC	+12 \pm 0.2	-
User Interface			
Computer Interface	-	RS232	-
Control	-	Laser Enable / Disable Output power	-
Alarm	-	Laser overheat	-
Optical Fiber	-	PM fiber, min. 1m 3mm PVC jacket pigtail	Option: SMF-28e
Optical Connector	-	FC/APC	Option: collimator

Ordering Information

Product Code	AULLD-wwww-xx-yy-B-zz	wwww: Wavelength in nm xx: Laser linewidth yy: Output Power in dBm zz: FA for FC/APC, CL for collimator, NC for bare fiber
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Amonics undertakes a continuous and intensive product development to ensure its products perform to highest technical standards. As a result, the specifications in this document are subject to change without notice.

Amonics Limited, 14/F, Lee King Industrial Building, 12 Ng Fong Street, San Po Kong, Kowloon, Hong Kong

Beijing Amonics Co. Ltd. Room 902, Unit 1, NO.99 Chaoyang North Road, Beijing China 100025

contact@amonics.com www.amonics.com HK Tel: +852 2428 9723 HK Fax: +852 2428 9704 Beijing Tel: +86 10 84783386 Beijing Fax: +86 10 84783396