



Applications

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

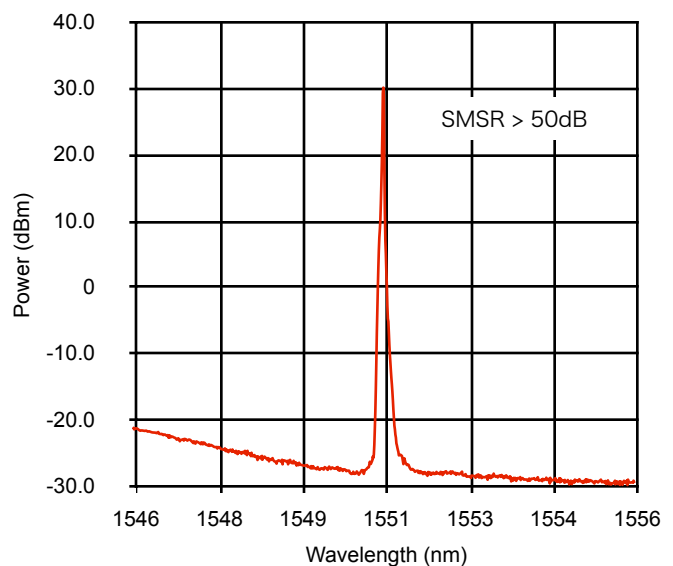
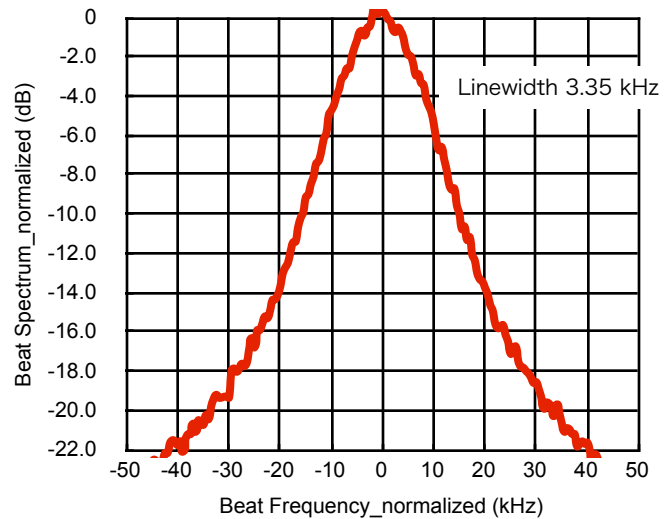
Description

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 possess narrow linewidth, low phase noise, ultra low RIN, high output power with exceptionally reliable performance. The turnkey microprocessor controlled benchtop AULLD manage alarms and status indicators. An integrated RS232 or Ethernet 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.

Key Features

- Narrow Linewidth, < 5kHz
- 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

1W Output Power



AULLD series Specifications

Parameter	Unit	Specification	Test Conditions
Product Code	-	AULLD series	Refer to order information
Laser Wavelength	nm	ITU DWDM or custom, ± 0.04	CW @ rate power
Optical Output Power	mW	25, 50, 100, 200, 500, 1000	-
Linewidth FWHM, Lorentzian	kHz	5, 10, 15 options	CW @ rate power
Optical Isolation	dB	Min. 30	Under operation temp.
Side-mode Suppression Ratio	dB	Typ. 45, Min. 35	CW @ rate power
Relative Intensity Noise	dB/Hz	Shot Noise Limited	@ frequency > 100kHz
Wavelength Tunability	nm	Min. ± 0.02	-
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	$^{\circ}\text{C}$	0 to +40	-
Storage Temperature	$^{\circ}\text{C}$	-10 to 70	-
Dimensions	mm	330(L) x 260(W) x 120(H)	-
Supply Voltage	VAC	90 – 240, 47 – 63Hz	-
User Interface			
Computer Interface	-	RS232	Option: Ethernet TCP/IP
Display	-	Output power, driving current	-
Alarm	-	Laser overheat	-
Optical Fiber	-	PM fiber	Option: SMF-28e
Optical Connector	-	FC/APC, SC/APC	-

Ordering Information

Product Code	AULLD- www-xx-yyyy-B-zz	www : Wavelength in nm xx : Laser linewidth yyyy : Output Power in Mw zz : FA for FC/APC, FC for FC/UPC, CL for collimator SA for SC/APC, SC for SC/UPC
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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.

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