

MAKO-NL-BT 1550

1W Narrow Linewidth 1550nm Fiber Laser

Key Features

- Output Power >1W
- Stable Single Frequency
- Low intensity noise
- Single Mode, M² ≃ 1
- Standard or All-PM version
- Adjustable Wavelength & Power
- Compact & Rugged Module
- PM Output with High PER
- USB interface
- Operation Temp: 10 to 35°C

Applications

- LIDAR
- Fiber Optic Sensing
- Laser Spectroscopy
- Coherent communications
- Analog & RF Photonics

MAKO SERIES

Also available at different standard wavelengths with same high performance and compact footprint:

- ◆ MAKO-NL-1030
- ♦ MAKO-NL-1064
- ◆ MAKO-NL-1550
- ♦ MAKO-NL-1900
- ◆ MAKO-NL-2000

The CYBEL MAKO-NL-BT 1550 is a single frequency narrow linewidth fiber laser designed for low noise applications in the wavelength range from 1540 to 1565nm. The MAKO-NL-BT 1550 benchtop produces a highly stable 1550nm CW output of more than a 1W with a sub-MHz linewidth range, low RIN and intensity noise and excellent OSNR.

Since the MAKO-NL-BT 1550 design uses a Master Optical Power Amplifier design (MOPA), it allows large scalable output power and a wavelength selection. This laser comes in a 19 "rack mount benchtop unit with either a standard or an all polarization maintaining (PM) fiber that provides steady performance in adverse environmental conditions. The MAKO-NL-BT 1550 is ideally suited for integration in Lidar systems, optical sensing or RF & analog photonic applications. External monitoring and control can be achieved via USB computer interface.



Turn-Key Rack Mount Benchtop

CybelLIGHTING THE WAY

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MAKO-NL-BT 1550 Specifications

OPTICAL	Unit	Value	Comment
Center wavelength	nm	1550	1540 to 1565
Output power	W	>1	Scalable ; High power available
Output signal linewidth (3dB)	MHz	<1	Option of 100KHz or less
Beam quality (M²)	kHz	<1.1	
Side mode sup. ratio (SMSR)	dB	50	@Pout=1W, Res; 0.05nm
Polarization ext. ratio	dB	≥ 18	PM version
Relative intensity noise (RIN)	dBc/Hz	<120 @ 500Hz	
Output fiber stability	%	<1	With 30dB output isolator
Pigtail output fiber	m	SMF 28 or PM Panda fiber	Armored cable, optional
Fiber length	cm	100	FC/APC connector termination
Output power tuning range	%	10 to 100	
ELECTRICAL/MECHANICAL			
Voltage	V	110-220	19 " benchtop unit
Warm-up Time	min	20	
Mechanical package	inch	19 "	2U-Rack mount Benchtop-OEM Available
Supply power consumption	W	200	@Pout max=1W
Control interface		USB	
ENVIRONMENTAL			
Operating temperature	°C	10 to 35	
Operating relative humidity	%	0 to 95	Non-condensing

CUSTOMIZATION

The MAKO is a laser platform that can be customized to match Customers 'specific requirements. Please contact Cybel.

COMPLIANCE with Regulatory Requirements: These Benchtop products are Class 4 lasers as designated by the Center for Device and Radiology Health (CDRH). As such they are intended only in integration into other equipment and do not comply with CDRH requirement. It is the customer responsibility for CDRH certification of the full system that incorporates this industrial laser.





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