

## Key Features

- >40dB small signal gain
- CW power >1W
- Low ASE:<1% at 0dBm input
- Low power consumption: <10W
- Gaussian beam profile:  $M^2 \approx 1$
- Compact & rugged design
- Operation Temp: 10 to 45 °C
- SM/PM versions

## Applications

- Frequency conversion
- Seed laser
- Range finding
- Remote sensing

## MAKO SERIES

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

- ◆ MAKO-AMP 1030
- ◆ MAKO-AMP 1064
- ◆ MAKO-AMP 1900
- ◆ MAKO-AMP 2000

The CYBEL MAKO-AMP-BT 1550 is a compact fiber amplifier for use with wavelengths between 1535 and 1565nm. The amplifier provides high small signal gain (>40dB) and saturated output power of over 1W. The amplifier output has a near-Gaussian profile ( $M^2 \approx 1$ ).

The MAKO-AMP-BT 1550 output power is adjustable through a simple digital interface.

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-AMP-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.



# MAKO-AMP-BT 1550 Specifications

OPTICAL	Unit	Value	Comment
Center wavelength	nm	1550	1535 to 1565nm
Small signal gain	dB	40	@Pin=-10dB
Average output power	W	1	Across wavelength band, Pin=0dBm
ASE level	%	<1	1W output power
Power tunability	%	0 to 100	
Output power variation, CW	% RMS	2	1W Pout
Output mode M <sup>2</sup>		1.1	
Output mode, MFD	μm	11.5	
Output fiber description		900um	3mm PVC or armored cable available
Input fiber type		SMF-28/PM	
Input/output fiber length	cm	80	FC/APC connector terminations
<b>ELECTRICAL/MECHANICAL</b>			
Mechanical package	inch	19	2U-Rack mounted benchtop
Supply power consumption	W	20	25 °C, 1.0W output power
<b>ENVIRONMENTAL</b>			
Operating temperature	°C	10 to 45	
Operating relative humidity	%	0 to 95	Non-condensing

## CUSTOMIZATION

The MAKO-AMP-BT is an amplifier 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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