

## MAKO-AMP-1064

1064nm, 30dB, 1W  
Fiber Amplifier

### Key Features

- >30 dB small signal gain
- CW power >1 W
- Low ASE:<1% at 0 dBm input
- Low power consumption: <10 W
- Gaussian beam profile:  $M^2 \approx 1$
- Compact & rugged design
- Operation Temp: 0 to 60 °C
- SM/PM versions

The **CYBEL MAKO-AMP-1064** is a compact fiber amplifier for use with wavelengths between 1050 and 1090 nm. The amplifier provides high small signal gain (>30 dB) and a saturated output power of over 1 W. The amplifier output has a near-Gaussian profile ( $M^2 \approx 1$ ).

The **MAKO-AMP-1064** output power is adjustable through a RS-232 computer interface.

**MAKO-AMP-1064** is an efficient, ultra-compact (97x78x15 mm<sup>3</sup>) and light weight (150 g), all-fiber OEM unit specifically designed for sensing applications requiring small footprint.

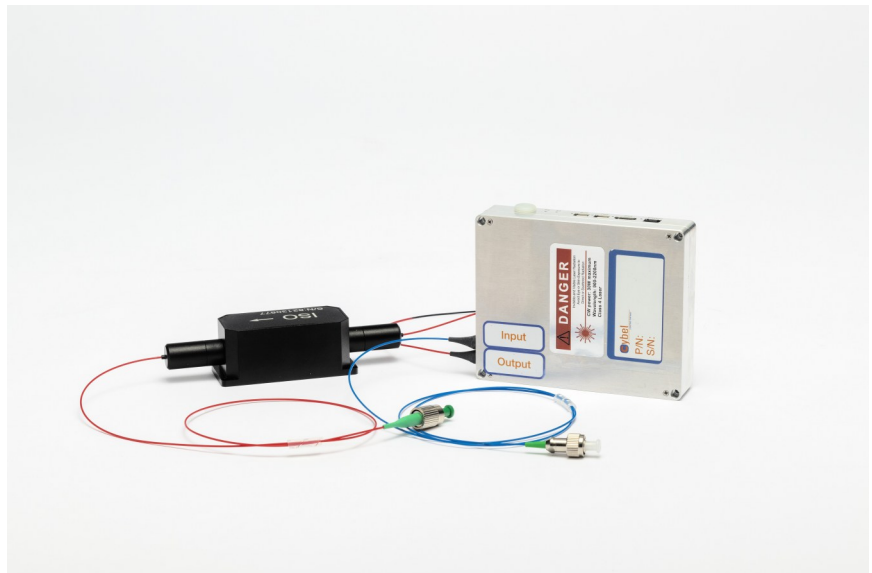
### Applications

- Free space comm.
- Target illumination
- Remote sensing

### MAKO SERIES

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

- ♦ MAKO-AMP-1030
- ♦ MAKO-AMP-1550
- ♦ MAKO-AMP-1900
- ♦ MAKO-AMP-2000



**MAKO-AMP 1064: 97x78x15mm<sup>3</sup>**

# MAKO-AMP-1064 Specifications

OPTICAL	Unit	Min	Max	Comments
Optical Bandwidth	nm	1050	1090	Single Mode Operation Wavelength
Input Signal Linewidth	kHz	10		
Input Signal Power	mW	1	10	
Output Signal Power	W	2		With Pin=0 dBm(1 mW)
Output Power Tunability	%	5 - 100		At Pout = 2 W
Output mode, MFD	μm	10-11		
Polarization Ext. Ratio (PER)	dB	≥ 20		PM Version
Output Beam Quality (M <sup>2</sup> )	M <sup>2</sup>	1.1		
Signal to Noise Ratio (OSNR)	dB	≥ 45		OSA Res. = 1 nm
Output Power Variation (RMS)	%	+/- 3		After 20 Min. Warm-up
Output Fiber Length	m	> 0.7		Longer Fiber at Request
Input Fiber Length	m	> 0.7		Longer Fiber at Request
Output Isolation	dB	20		Optional, External to the OEM
Connectors		FC/APC		Other Connectors and Collimators Available
ELECTRICAL				
Voltage	V	2.4 & 12		
Warm up Time	min	20		
Power Consumption	W	< 15		25 °C, @Pout max = 2 W
Control Interface		RS-232		
Mode of Operation		ACC		
GENERAL				
Dimensions	mm	97x78x15		W/O heat sink
Storage Temperature	°C	-10 to 65		
Operating Case Temp.	°C	0 to 60		
Humidity	%	5 to 95		Non condensing

## CUSTOMIZATION

The **MAKO-AMP** is an amplifier platform that can be customized to match customers' specific requirements. Please contact Cybel.

**COMPLIANCE with Regulatory Requirements:** These OEM 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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