

## MAKO-AMP-1030 1030 nm, 30 dB, 500 mW Fiber Amplifier

## **Key Features**

• >30 dB small signal gain

• CW power >500 mW

• Low ASE:<1% at 0 dBm input

• Low power consumption: <10 W

Gaussian beam profile: M<sup>2</sup> ≈ 1

· Compact & rugged design

Operation Temp: 0 to 60 °C

SM/PM versions

The **CYBEL MAKO-AMP-1030** is a compact fiber amplifier for use with wavelengths between 1025 and 1035 nm. The amplifier provides high small signal gain (>30 dB) and a saturated output power of over 500 mW. The amplifier output has a near-Gaussian profile ( $M^2 \approx 1$ ).

The **MAKO-AMP-1030** output power is adjustable through a through a RS-232 computer interface.

**MAKO-AMP-1030** is an efficient, ultra-compact (97x78x15mm<sup>3</sup>) and light weighted (150g), all-fiber OEM unit specifically designed for sensing applications requiring small footprint.

## **Applications**

Free space comm.

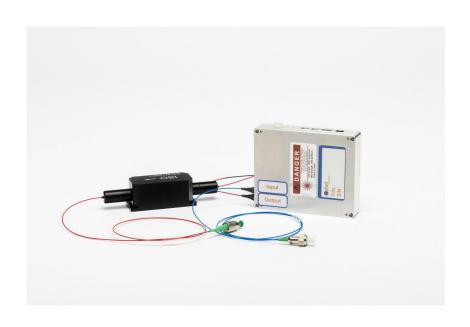
Target illumination

Remote sensing

### **MAKO SERIES**

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

- MAKO-AMP-1064
- MAKO-AMP-1550
- ♦ MAKO-AMP-1900
- ◆ MAKO-AMP-2000



MAKO-AMP 1030: 97x78x15mm<sup>3</sup>



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Website: www.cybel-llc.com

# **MAKO-AMP-1030 Specifications**

OPTICAL	Unit	Min	Max	Comments	
Optical Bandwidth	nm	1025	1035	Single Mode Operation Wavelength	
Input Signal Linewidth	kHz	10			
Input Signal Power	mW	1	10		
Output Signal Power	W	1		With Pin=0 dBm(1 mW)	
Output Power Tunability	%	5 - 100		At Pout = 1 W	
Output mode, MFD	μm	10-11			
Polarization Ext. Ratio (PER)	dB	≥ 20		PM Version	
Output Beam Quality (M²)	$M^2$	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		Optiional, 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 = 1 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	o 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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