

## Key Features

- >30dB small signal gain
- CW power >500mW
- Low ASE:<1% at 0dBm input
- Low power consumption: <15W
- Gaussian beam profile:  $M^2 \approx 1$
- Compact & rugged design
- Operation Temp: 10 to 45 °C
- SM/PM versions

## 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

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

The MAKO-AMP-BT 1030 output power is adjustable through a simple digital interface.

The MAKO-AMP-BT 1030 is an efficient, ultra-compact design amplifier 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. External monitoring and control can be achieved via USB computer interface.



# MAKO-AMP-BT 1030 Specifications

OPTICAL	Unit	Value	Comment
Center wavelength	nm	1030	Other wavelengths available
Small signal gain	dB	27	0dBm
Average output power	mW	500	Across wavelength band, @Pin=0dBm
ASE level	%	<1	500mW output
Power tunability	%	0 to 100	
Output power variation, CW	% RMS	2	@500mW Pout
Output mode M <sup>2</sup>		1.1	
Output mode, MFD	µm	10.0	
Output fiber description		900µm	3mm PVC or armored cable available
Input fiber MFD	µm	6.0	
Input /output fiber length	cm	80	FC/APC connector terminations
Polarization Ext. Ratio (PER)	dB	20	
<b>ELECTRICAL/MECHANICAL</b>			
Mechanical package	inch	19	2U-Rack Mount benchtop
Supply power consumption	W	10	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-1030 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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