

MAKO-AMP 1900 1950nm 40dB, 1W Fiber Amplifier

Key Features

- >40dB small signal gain
- CW power : 10mW to 1W
- Low ASE:<1% at 0dBm input
- Low power consumption: <15W
- Gaussian beam profile: $M^2 \approx 1$
- Compact & rugged design
- Operation Temp: -10 to 50 °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 1550
- ◆ MAKO-AMP 2000

The CYBEL MAKO-AMP 1900 is a compact fiber amplifier for use with wavelengths between 1850 and 2020nm. The amplifier provides a high small signal gain (>40dB) and an output power from 10mW to a 1W. The amplifier output has a near-Gaussian profile ($M^2 \approx 1$).

The MAKO-AMP 1900 output power is adjustable through a simple digital interface.

The MAKO-AMP 1900 is an efficient, ultra-compact (97x78x15mm³) and ultra-light (150g), all-fiber OEM unit specifically designed for sensing applications requiring a small footprint.



MAKO-AMP-1900 Specifications

OPTICAL	Unit	Value	Comment
Center wavelength	nm	1900	1850 to 2020
Small signal gain	dB	40	@Pin=-10dB
Average output power	mW	10 to 100	Mac=x power set by design
ASE level	%	<1	1W output power
Power tunability	%	0 to 100	
Output power variation, CW	% RMS	2	1W Pout
Output mode M ²		1.1	
Output mode, MFD	μm	9	
Output fiber description		900um	3mm PVC or armored cable available
Input fiber type		SM or PM 1950	
Input/output fiber length	cm	80	FC/APC connector terminations
ELECTRICAL/MECHANICAL			
Mechanical package	mm	97x78x15	
Supply power consumption	W	15	25 °C, 1.0W output power
ENVIRONMENTAL			
Operating temperature	°C	-10 to 50	
Operating relative humidity	%	0 to 95	Non-condensing

CUSTOMIZATION

The MAKO-AMP-1900i 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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