

### Key Features

- Output power 1 to 25W
- Wide bandwidth 1535-1565nm
- Single mode, single frequency
- Wide dynamic range
- Standard or PM fiber
- High polarization extinction ratio
- Control Modes: ACC
- High beam quality:  $M^2 < 1.1$

### Applications

- Coherent or spectral beam combining
- Free Space Communications
- Spectroscopy
- Mapping
- LIDAR and Sensing
- Test and Measurement
- Seed source for Amplifier

### SKYLINE SERIES

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

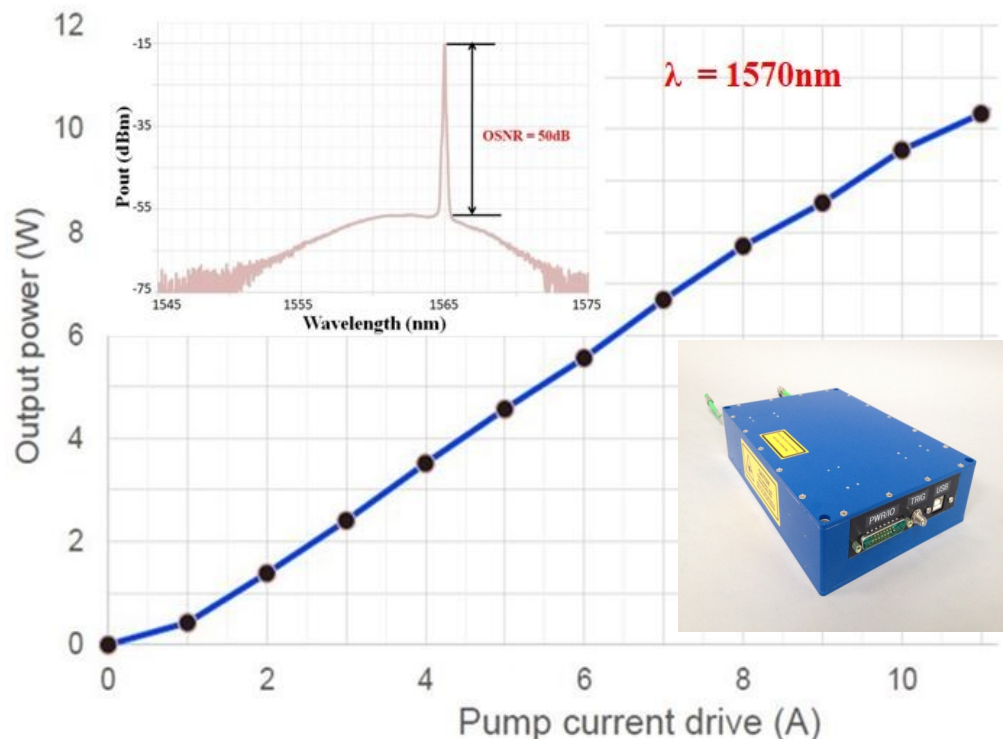
- ◆ MAKO-AMP-1030
- ◆ MAKO-AMP-1064
- ◆ MANTARAY-AMP-1064
- ◆ HOPA-AMP-1064
- ◆ STINGRAY-AMP-1550

The **CYBEL HOPA-1550** is a 1550nm high power, single mode, single frequency amplifier that can deliver up to 25W of saturated output power with a near diffraction limited output beam ( i.e.  $M^2 < 1.1$  ).

The **HOPA-1550** comes either in a standard or polarization maintaining fiber configuration, that provides the user with stable and high performance wavelength band from 1535nm to 1565nm. Output power and monitoring of key operating parameters with an automatic current control (ACC) mode are controlled from either a RS 232 or USB port. It is available in OEM and benchtop.

The **HOPA-1550** amplifiers are efficient and compact all-fiber OEM units that can be used in a variety of applications, including industrial. Defense, or optical fiber transmission systems for laboratory uses or field deployment.

### 10W HOPA – 1550



# HOPA-1550 Specifications

OPTICAL	Unit	Min	Max	Comments
Optical bandwidth	nm	1535	1565	
Input signal power	dBm	0	+17	
Input signal linewidth	MHz	10		
Output signal power	W	1	15	Unit based
ASE output power	mW	200		At Pout =10W
Polarization Ext. Ratio ( PER )	dB	≥17		At rated Pout
Output beam quality M <sup>2</sup>	M <sup>2</sup>	1.1		
Pout tunability	%	10-100		Nominal
Output power variation	%	≤5		RMS
Output isolation	dB	20		Fiber isolator
Output fiber length		1m/ Std. or Panda FC/APC		3mm Jacket
Monitor fiber length		1m/ Std. or Panda FC/APC		3mm Jacket
Input fiber length		1m/ Std. or Panda FC/APC		3mm Jacket
<b>ELECTRICAL</b>				
Voltage	V	18 to 30		
Warm up time	min	20		
Power consumption	W	200		@Pout max=20W
Control interface		USB and RS 232		
Mode of operation		ACC		
<b>GENERAL</b>				
Dimensions	mm	200x150x43		w/o heat sink
Storage temperature	°C	-20 to 70		
Operating case temp.	°C	0 to 50		
Humidity	%	5 to 95		Non condensing

## CUSTOMIZATION

The HOPA--1550 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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