

## Key Features

- Wavelength 1900 to 2050nm
- Output power 1 to 10W
- Single frequency operation
- Laser linewidth: < 2MHz
- Single mode,  $M^2 \approx 1.1$
- Compact OEM unit
- Operation Temp: 0 to 50°C
- Standard or All-PM version
- Efficient cooling system
- Optional Output collimator

## Applications

- Lidar
- Interferometry & spectroscopy
- Optical Pumping
- Testing and Measurement
- Plastic processing
- Medical

## Cybel Thulium & Holmium Amplifiers & laser products

- ◆ MISTRAL-Amp 1W-2051
- ◆ MISTRAL-Amp 20W-2051
- ◆ SCIROCCO-Amp 1W-1950
- ◆ MAESTRO-Amp 20W-2000
- ◆ VULCAN 10W-1950
- ◆ HELIOS-Amp 5W-2100
- ◆ ASTROLIGHT 5W-1950

The CYBEL MAGNI-NL-2000 series is a line of narrow linewidth, high power Thulium doped fiber lasers designed at a wavelength range of 1900 to 2050nm. The **MAGNI-NL-2000** laser delivers more than 10W of CW power with a random or linear polarization and a single mode high beam quality,  $M^2 < 1.1$ . This laser has been designed for industrial as well as R&D applications.

The **MAGNI-NL-2000** laser comes in a OEM module ( 200x150x43mm<sup>3</sup> ) with either a standard or an all polarization maintaining ( PM ) fiber. Both the output power and key operating parameters are controlled from a RS 232 computer interface.



# MAGNI-NL-2000 Specifications

OPTICAL	Unit	Value	Comment
Wavelength range	nm	1900 to 2050	Other wavelengths available
Spectral width	MHz	2	50 to 100kHz linewidth available
Output power	W	4 to 10	
Signal to noise ration ( OSNR )	dB	50	@Pout =4W
Output power stability	%	5	After 20min warm-up time
Polarization ext. ratio	dB	≥ 18	PM version
Beam quality ( M <sup>2</sup> )	M <sup>2</sup>	<1.1	
Output isolator	dB	Optional	Output collimator option & fiber tap option
Out fiber length	m	1	SM or PM 1950-Armored cable, Optional
Connector		FC/APC	Other connector and Collimator available
<b>ELECTRICAL</b>			
Voltage	V	18 to 30	
Warm-up time	min	20	
Power consumption	W	200	@Pout=10W
Control interface		RS 232 or USB	
Control mode		ACC-APC	Control via USB port
<b>GENERAL</b>			
Dimensions	mm	200x150x43	
Storage temperature	°C	-20 to 65	
Operating case temperature	°C	0 to 50	
Operating relative humidity	%	5 to 95	Non-condensing

## CUSTOMIZATION

The **MAGNI-NL-2000** is a laser 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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