

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 (200x150x43mm³) 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 ²) | M ² | <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 |
| ELECTRICAL | | | |
| 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 |
| GENERAL | | | |
| 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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