WaveSource Photonics, Inc.

High Power PM Fiber Lasers

For Lidar, Spectroscopy and Nonlinear Optics

The Y10H series and E15H series high power fiber lasers can deliver up to 15W of power through polarization-maintaining (PM) single mode output fibers. These maintenance-free single frequency lasers' wavelength can be freely selected in the 1 or 1.5 μm range, with linewidth at ~0.05nm. Their excellent beam quality enables efficient frequency conversion into visible and UV wavelengths.

All-fiber design guarantees the robustness of the laser, eliminating any alignment of free-space optical parts and risk of mis-alignment over time and use. Excellent beam quality from single-mode fiber and the power stability nature make them the ideal solution for use in any industrial and scientific applications.

Available Laser modules

Specification	Y10H series	E15H series
Standard wavelength [nm]	1030.0, 1064.3	1550.12
Other wavelength [nm]	1000 -- 1100	1530 -1565
PM	yes	yes
Polarization Mode	Linear, along slow-axis	Linear, along slow-axis
Polarization Extinction ratio	> 27	>27
Output Coupling	SM98-PM fiber	SM15-PM fiber
Fiber-Coupled Output Power [W]	3, 5, 10, 15	2, 5, 10
Power Adjustment	front panel 10-tern knob	front panel 10-tern knob
Display	Drive Current, LD temperature	Drive Current, LD temperature
Output Power Calibration	yes	
Operating Temperature	0 °C to 45 °C	
Dimension [mm]	307 x 260x 125 (LxWxH, mm)	

Features:

- Up to 15W output power at 1.0μm or 1.5μm
- Single frequency, narrow linewidth
- Ultra-low intensity & frequency noise
- Excellent beam quality
- Unlimited center wavelength selection in the ranges of 1050 - 1090nm & 1540 - 1570nm
- Robust, maintenance-free

Applications:

- Nonlinear optics pump source
- Frequency conversion
- Laser based metrology
- Lidar
- Spectroscopy

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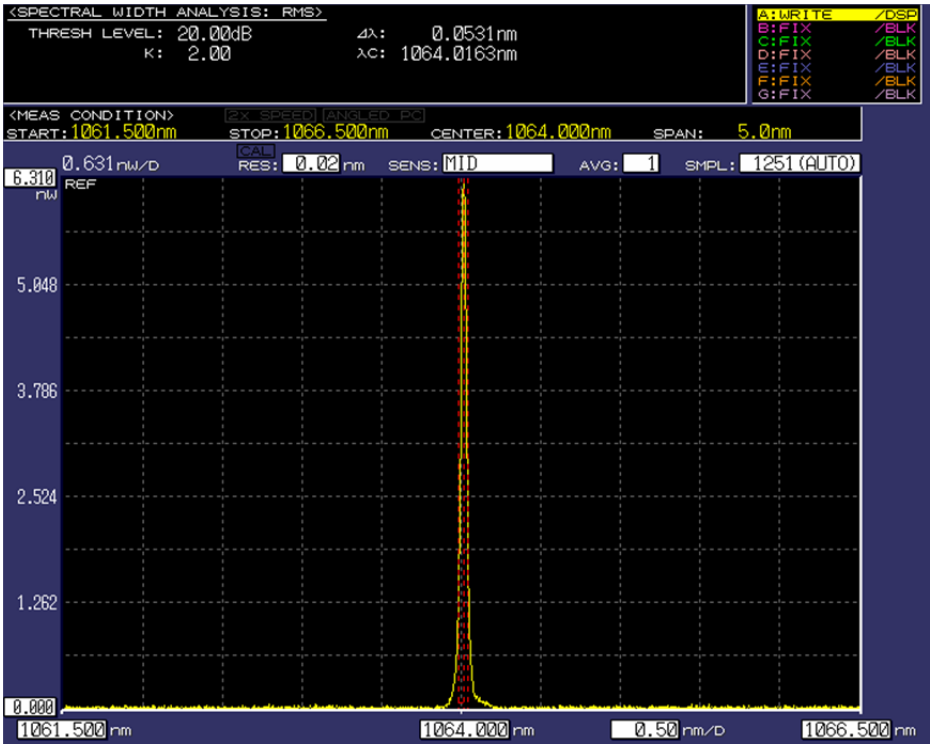

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