

MBR-01

Ti:Sapphire Laser

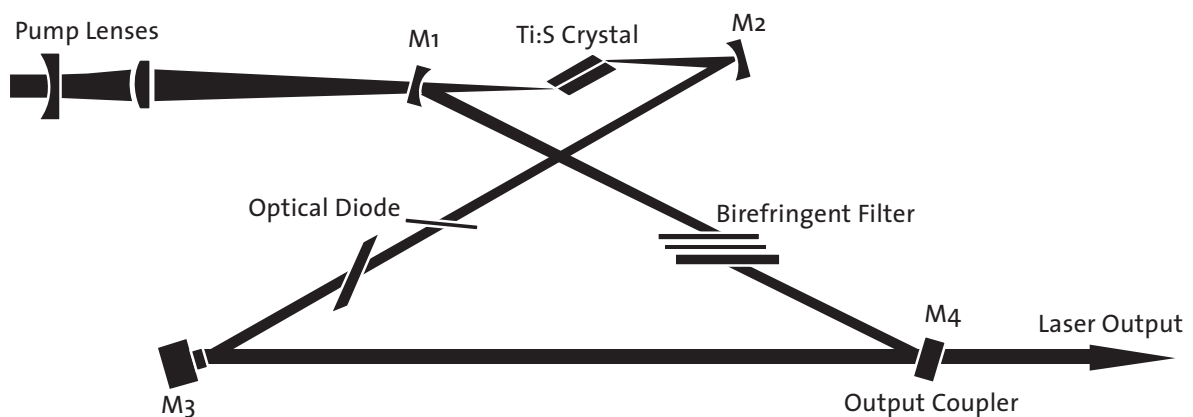


Features

- Monolithic resonator
- Powered by Verdi™
- Ti:Sapphire performance
- Miniature optical diode
- Optimized output couplers
- Birefringent filter
- Minimum number of mirrors
- No external focussing optics

Optical Schematic of the MBR-01 Ti:Sapphire Laser

Verdi 532 nm input



Superior Reliability & Performance

MBR-01

Ti:Sapphire Laser

System Specifications^{1,2}

Power (18W pump)(mW)	>3500
Power (10W pump)(mW)	>1500
Power (8W pump)(mW)	>1000
Power (6W pump)(mW)	>600
Power (5W pump)(mW)	>450
Tuning Range (18W pump)(nm)	700 to 1030
Tuning Range (10W pump)(nm)	700 to 1000
Tuning Range (8W pump)(nm)	700 to 970
Tuning Range (6W pump)(nm)	715 to 950
Tuning Range (5W pump)(nm)	720 to 940
Typical Linewidth (GHz)(rms)	<8
Typical Beam Divergence (full angle)(mrad)	1.7
Typical Beam Radius ³ (mm)	0.28
Spatial Mode	TEM ₀₀
Polarization	Horizontal
Amplitude Noise ⁴ (rms)	<0.5%
Laser Head Dimensions (L x W x H)	630 x 310 x 160 mm (25.2 x 12.4 x 6.4 in.)
Cooling Requirements	Supplied closed loop chiller

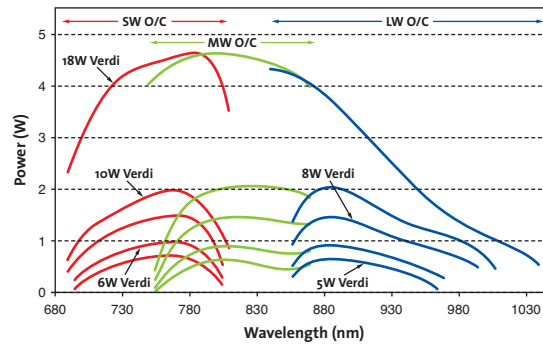
¹ The MBR-01 has been designed to operate with the Coherent Verdi pump laser only. Please consult your Coherent representative if an alternative configuration is proposed.

² Measured at the peak of the tuning curve.

³ At output window.

⁴ Measured 10 Hz to 10 MHz bandwidth (using Verdi pump).

Typical MBR Tuning Curves with Verdi Pump Sources



Coherent follows a policy of continuous product improvement. Specifications are subject to change without notice.

Coherent's scientific and industrial lasers are certified to comply with the Federal Regulations (21 CFR Subchapter J) as administered by the Center for Devices and Radiological Health on all systems ordered for shipment after August 2, 1976.

Coherent offers a limited warranty for all MBR systems. For full details of this warranty coverage, please refer to the Service section at www.Coherent.com or contact your local Sales or Service Representative.



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