

MBR-EL

Single-Frequency Ti:Sapphire Laser

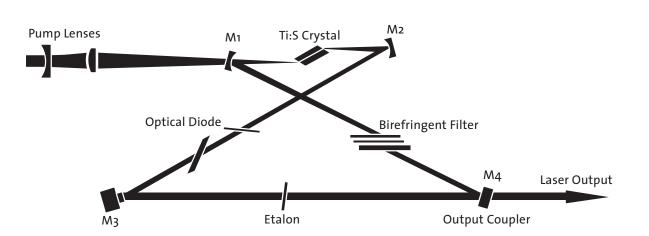
Features

- Monolithic resonator
- Ti:Sapphire performance
- Optimized output couplers
- Minimum number of mirrors
- No external focussing optics
- Miniature optical diode

- Powered by Verdi[™]
- Birefringent filter
- Single thin etalon
- Electronic etalon lock

Optical Schematic of the MBR-EL Ti:Sapphire Laser

Verdi 532 nm input





MBR-EL Single-Frequency Ti:Sapphire Laser

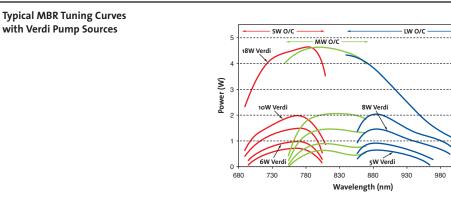
System Specifications ¹²	Power (18W pump)(mW)	>3500
	Power (10W pump)(mW)	>1500
	Power (8W pump)(mW)	>1000
	Power (6W pump)(mW)	>600
	Power (5W pump)(mW)	>450
	Tuning Range (18W pump)(nm)	700 to 1030
	Tuning Range (10W pump)(nm)	700 to 1000
	Tuning Range (8W pump)(nm)	700 to 970
	Tuning Range (6W pump)(nm)	715 to 950
	Tuning Range (5W pump)(nm)	720 to 940
	Typical Linewidth (MHz)(rms)	<5
	Typical Beam Divergence (full angle)(mrad)	1.7
	Typical Beam Radius ³ (mm)	0.28
	Spatial Mode	TEMoo
	Polarization	Horizontal
	Amplitude Noise ⁴ (rms)	<1.5%
	Laser Head Dimensions (L x W x H)	630 x 310 x 160 mm (25.2 x 12.4 x 6.4 in.)
	Electronics Unit Dimensions (L x W x H)	440 x 530 x 160 mm (17.6 x 21.2 x 6.4 in.)
	Operating Voltage (V)	110 ±5%; 240 ±5%
	Cooling Requirements	Supplied closed loop chiller
	¹ The MBR-EL has been designed to operate with the Coherent Verdi pump laser only. Please consult your Coherent representative	

The MBR-EL 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).



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.



Coherent, Inc.

5100 Patrick Henry Drive Santa Clara, CA 95054 phone (800) 527-3786 (408) 764-4983 fax (408) 764-4646 e-mail tech.sales@Coherent.com Benelux +31 (30) 280 6060 China +86 (10) 8215 3600 +33 (0)1 8038 1000 France Germany/Austria/Switzerland +49 (6071) 968 333 Italy +39 (02) 31 03 951 +81 (3) 5635 8700 Japan Korea +82 (2) 460 7900 Taiwan +886 (3) 505 2900 UK/Ireland +44 (1353) 658 833

1030

