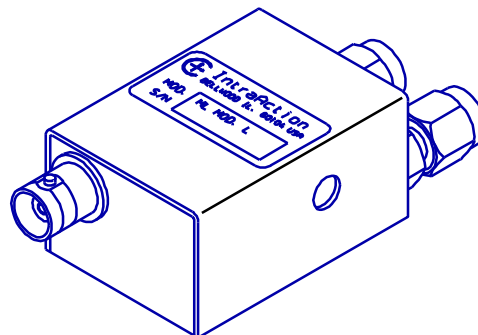


**MODEL MLR SERIES  
MODE LOCKER FOR Ti:Sapphire LASER**

- CONCURRENT CW MODE SUPPRESSION
- SHORT OPTICAL PATH LENGTH
- LOW ACOUSTIC Q
- USER SPECIFIED FREQUENCY
- REGENERATIVE LASER SYSTEMS
- CUSTOM DESIGNS AVAILABLE<sup>1</sup>
- HIGH RELIABILITY



**SPECIFICATIONS**

Material	Schlieren Grade Fused Silica
Material Path Length	1.5 cm
Window Configuration <sup>2</sup>	User specified
Wavelength Range <sup>3</sup>	700 - 1100 nm
Optical Insertion Loss	< 0.5 percent
RF Frequency <sup>4</sup> (nominal)	User specified up to 150 MHz
RF Bandwidth	+/- 15 percent
Mode Spacing	330 kHz or 460 kHz (nominal)
Mode Bandwidth (-3 dB)	200 kHz (near center RF frequency)
Loss Diffraction Efficiency <sup>5</sup>	50 percent
RF Drive Power <sup>5</sup>	5 Watts
Sound Field Height <sup>6</sup>	3 mm
Laser Polarization	Linear (parallel to mounting surface)
Size (less connectors)	1.98 D x 1.01 H x 1.19 L inches 5.03 D x 2.57 H x 3.03 L cm
Temperature Stabilization <sup>7</sup>	Water Cooling

**MODEL**

	<b><u>MLR-403DB23</u></b>	<b><u>MLR-403BB10</u></b>
RF Frequency	40 MHz (nominal)	40 MHz (nominal)
Active Aperture	2 mm	3 mm
Window Configuration <sup>2</sup>	Brewster	2 <sup>0</sup> rhomboid
Wavelength Range	700 - 1100 nm	700 - 900 nm

<sup>1</sup> Specify RF frequency, optical beam diameter, window configuration, and optical wavelength or range.

<sup>2</sup> Rhomboid, wedge, or Brewster.

<sup>3</sup> Antireflection coatings have a reflectance < 0.1 percent for a 200 nm range. Specify range.

<sup>4</sup> RF frequency should be 1/2 of the C/2L frequency of the laser cavity.

<sup>5</sup> Diffraction efficiency and RF drive power vary with optical wavelength and sound field height.

<sup>6</sup> Other sound field heights to 5mm are available.

<sup>7</sup> Thermoelectric cooling is available.