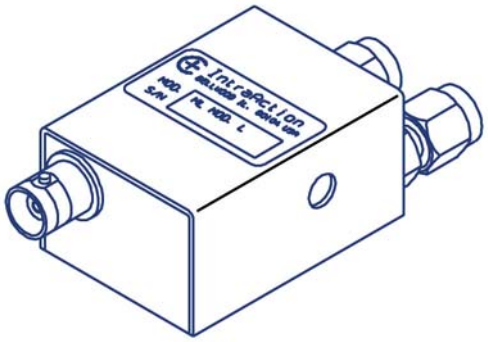
MODEL MLR SERIES MODE LOCKER FOR Ti:Sapphire LASER

- **CONCURRENT CW MODE SUPPRESSION**
- **SHORT OPTICAL PATH LENGTH**
- **LOW ACOUSTIC Q**
- **USER SPECIFIED FREQUENCY**
- **REGENERATIVE LASER SYSTEMS**
- **CUSTOM DESIGNS AVAILABLE[1]**
- **HIGH RELIABILITY**



SPECIFICATIONS		
Material	Schlieren Grade Fused Silica	
Material	Path Length 1.5 cm	
Window Configuration[2]	User specified	
Wavelength Range[3]	700 - 1100 nm	
Optical Insertion Loss	< 0.5%	
RF Frequency[4](nominal)	User specified up to 150 MHz	
RF Bandwidth	+/- 15%	
Mode Spacing	330 kHz or 460 kHz (nominal)	
Mode Bandwidth (-3 dB)	200 kHz (near center RF frequency)	
Loss Diffraction Efficiency[5]	50%	
RF Drive Power[5]	5 Watts	
Sound Field Height[6]	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[7]	Water Cooling	
MODEL	**MLR-403DB23**	**MLR-403BB10**
RF Frequency	40 MHz (nominal)	40 MHz (nominal)
Active Aperture	2 mm	3 mm
Window Configuration[2]	Brewster	2° rhomboid
Wavelength Range	700 - 1100 nm	700 - 900 nm

[1] Specify RF frequency, optical beam diameter, window configuration, and optical wavelength or range.
[2] Rhomboid, wedge, or Brewster.
[3] Antireflection coatings have a reflectance < 0.1 percent for a 200 nm range. Specify range.
[4] RF frequency should be 1/2 of the C/2L frequency of the laser cavity.
[5] Diffraction efficiency and RF drive power vary with optical wavelength and sound field height.
[6] Other sound field heights to 5mm are available.
[7] Thermoelectric cooling is available.