

# Picosecond Mode-Locked Fiber Lasers

**MLFL-Series** 



MPB's line of picsosecond passively Mode-Locked Fiber Lasers (MLFL) are designed to address a range of market applications including semi-conductor inspection, micro-machining, metrology, multiphoton spectroscopy, and can be used as a seed source for optical amplifiers, and second harmonic generation.

Based on an all-fiber design, the MLFL is highly reliable (10,000 hrs) and maintenance-free. To ensure an environmentally-stable linearly-polarized output and turnkey self-start operation, all components are made of polarization-maintaining fiber.

#### **Features**

- Self-starting
- · Low amplitude noise
- Spectrally transform-limited pulse widths without CW light content
- Linearly-polarized, environmentally-stable output
- · Compact
- · Low power consumption

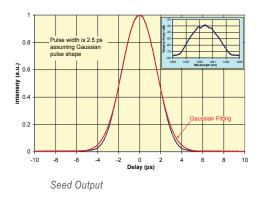
### **Applications**

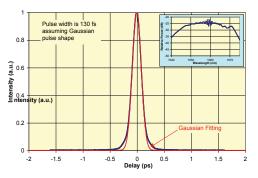
- Biomedical and Chemistry (multi-photon microscopy, ultra-fast spectroscopy)
- Micro-Machining (semiconductor wafer and transparent materials processing)
- Tera-Hertz Generation (material defect imaging, security)
- · Time Response Characterization
- High-Speed Optical Sampling
- · Metrology

公司联系信息: Phone: 4006 888 532 WeChat: 18964202046 Website: www.auniontech.com E-mail:info@auniontech.com



## Autocorrelation Trace and Emission Spectra of Ytterbium-doped Mode Locked Fiber Laser





After Amplification and Pulse Compression

### **SPECIFICATIONS**

MPB's picosecond Mode-Locked Fiber Lasers are available with customized specifications within the following range:

renewing range.		
Emission Wavelength	1020 - 1100	nm
Pulse Duration	2 to 50	ps
Average Output Power with preamplifier with booster	2 to 20 150 3000	mW
Repetition Rate	30 to 100	MHz
Polarization	Linear	

### OTHER SPECIFICATIONS

Benchtop Unit (L x W x H)	169.5 x 354 x 62	mm
Block Unit	200 x 130 x 28.5	mm

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