

FML-15-PM-M



DEVICE Femtosecond Mode-Locked Laser, Benchtop, PM Output

The Optilab FML-15-PM-M Module Femtosecond Mode-Locked Laser (FML) utilizes an unique saturable absorber for passive mode locking and delivers Femtosecond (FS) laser pulses with an excellent power stability and reliability. Designed with no moving parts, and requiring no construction, the FML-15-PM-M offers an userfriendly front panel, a control knob for adjusting the output power, and an electrical clock output for external trigger. The FML-15-PM-M is an all fiber ring with all PM fiber construction, and built with established telecom components make the laser highly stable while keeping cost low. The pulse width is factory selectable from 300 to 600 fs, with near transform-limited pulse shape and a better than 20 dB pedestal, and the pulse repetition rate can be specified from 20 to 40 MHz. With up to 30 mW output power, and an EDFA for amplifying the seed mode locked laser pulses, the FML-15-PM-M is the most cost-effective solution for applications requiring low to medium power. The all PM fiber version also features a 20 dB extinction ratio, contact Optilab for more information.

FEATURES • All PM fiber construction, ER of 20 dB.

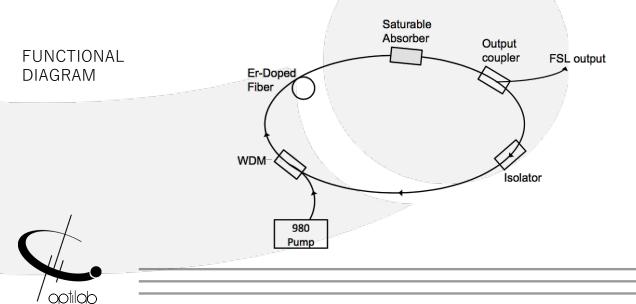
- No moving parts, requires no adjustment
- Pulse width adjustable from 300 fs to 600 fs
- Integrated EDFA w/ +15 dBm output

USE IN

Supercontinuum generation

- Telecom components characterization
- Precision frequency measurement
- Optical high speed sampling

- 1550 to 1560 nm peak wavelength
- Near transform-limited output
- Minimal pulse pedestal
- Adjustable power output to 30 mW
- 1 year warranty standard
- Terahertz radiation
- Optical switching
- Materials characterization
- Optical metrology





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SPECIFICATIONS	Output Power	Adjustable to 30 mW
	Peak Wavelength	1550 nm – 1560 nm
	Spectral Bandwidth	20 nm – 25 nm
GENERAL	Pulse Duration	300 fs to 600 fs
	Pulse Repetition Rate	20 MHz - 40 MHz
	Polarization Extinction Ratio	15 dB min, 20 dB typ.
	Trigger Output	Pulse converted to electrical output

	Operating Temperature	10 °C to +40 °C
	Storage Temperature	-55 °C to +85 °C
	Optical Connector	FC/APC, other optional
MECHANICAL	Local Alarm	LED: Optional Input Power
	Remote Alarms	RS-232 Interface
	Dimensions	155 mm x 317 mm x 33 mm
	Accessories Included	110 V – 240 V AC Adaptor & Cable

PULSE SHAPE

TYPICAL OPTICAL SPECTRUM

