



# SESAM-free Ultra-fast Fibre Oscillators

**Multitel**  
APPLIED PHOTONICS

## MODE-LOCK OSCILLATOR: SELF-STARTING AND HIGHLY RELIABLE.

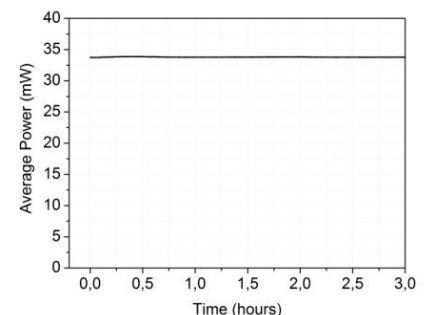
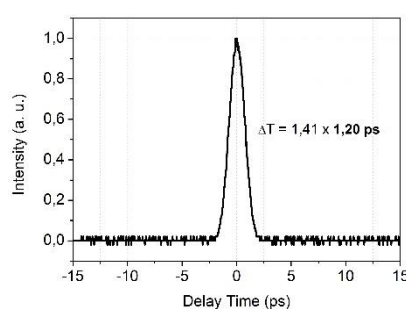
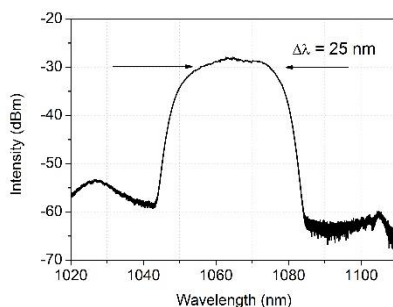


We propose an all-PM SESAM-free mode-locked fibre laser. Proprietary design developed at MULTITEL permits self-starting, stable, reliable and long-term picosecond mode-lock operation. This laser can operate with a broad range of output parameters (factory selected). Repetition rate between 1 and 100 MHz and pulse duration between 1 and 50 picoseconds while maintaining pulse energy in the nanojoule range. Pulse compression in the femtosecond regime is possible through an external bulk grating compressor.

### ■ Laser versions (custom parameters available on request)

Mode-lock fibre laser units are available both in OEM or packaged version:

|                          | <b>Oscillator</b>                            |
|--------------------------|--|
| Central Wavelength       | 1030 nm, 1064 nm, 1560 nm (other on request) |
| Average Power            | > 20 mW                                      |
| Pulse Energy             | 1 nJ typ.                                    |
| Repetition Rate          | 1 - 100 MHz (fixed)                          |
| Typical pulse duration   | 1 - 50 ps (other durations possible)         |
| Optical spectrum         | 30 pm - 30 nm (FWHM)                         |
| Dechirped pulse duration | Down to 100 fs                               |
| Polarization             | Linear, PER > 20 dB                          |
| Power stability          | < 1% RMS                                     |
| Output port              | Optical fiber connector or collimated beam   |



*Optical spectrum, pulse duration measured by autocorrelation trace and power stability..*

Possible applications: High-power amplifier seeding, supercontinuum generation, OPO pumping, etc

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