



GO PICO / FEMTO FIBRE OSCILLATOR

New generation fibre oscillators

GO pico / femto is a mode-locked all-normal dispersion (ANDi) fibre oscillator with mode locking obtained by nonlinear polarization rotation. The robust design guarantees excellent stability and maintenance free operation. It makes an excellent choice as a seed source for single amplifiers and compact front-ends of DPSSLs.

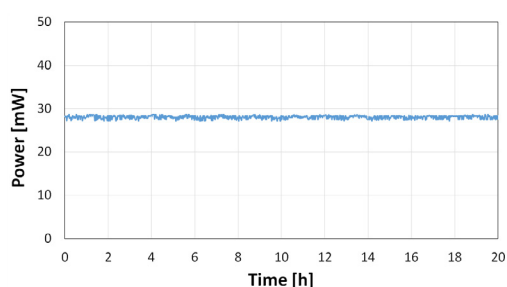


FIG.1 POWER STABILITY (<1.3 % RMS OVER 20 HOURS AT AMBIENT TEMPERATURE OF 23°C)

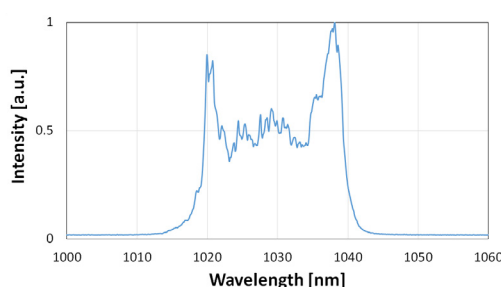


FIG.2 TYPICAL GO PICO SPECTRUM

Strengths

- Compact design
- Stable and reliable seed source
- Low and easy maintenance operation

Option Features

- GO femto and GO 2micro versions
- Built-in photodiode with SNA connector for external synchronization
- Frequency stabilization

Technical Specifications

	GO pico		GO femto
OPTICAL			
Wave length	1030 ± 10	2027 ± 3	1030 ± 50
Energy per pulse [nJ]	1 – 3	1	4
Output power [mW]	30	15	
Pulse duration	6 ps	< 2 ps	< 100 fs
Repetition rate [MHz]	20 – 40	15 – 30	50
M ²	1.05		
Power stability	< 1%	< 1%	< 1%
Polarization	linear	linear	linear
External interface	Fibre-coupled, FC/APC*		
External synchronization	Photodiode*		
MECHANICAL			
Dimensions	200 x 180 x 73 mm ³		190 x 160 x 96 mm ³
Cooling	passive		passive
OPERATING REQUIREMENTS			
Operating voltage	5 VDC, ± 12VDC		
Power consumption	< 36 W		
Operating temperature	23 ± 3 °C		
Relative humidity	20 – 60 % (non-condensing)		

*optional

- ✓ Proven and tested in our own Laser Systems
- ✓ Continuously updated system

Areas of Application

Seed laser for laser systems used in:



DRILLING AND CUTTING OF COMPOSITES, CERAMICS, PLASTICS, METALS AND ALLOYS



SURFACE MICRO STRUCTURING



PUMP SOURCE FOR MID-IR OPTICAL PARAMETRIC AMPLIFIERS (OPAS)



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