

# Zephyr

Price Under Request

## Shortest Pulse Duration & High Repetition Rate Femtosecond Fiber Laser

An ultra-fast fiber laser comb with GHz range repetition rates, providing more than 1,5 W of average power. Its optical spectrum is centred at 1535nm and delivers pulses shorter than 100fs. Zephyr is the ideal fiber laser for optical communications.



### Repetition Rate

1.25 +/- 0.1 GHz

(up to 2.5 GHz under request)

### Spectral Range

1535 +/- 2 nm

### Average Power

> 1.5 W

### Pulse Duration

< 100 fs

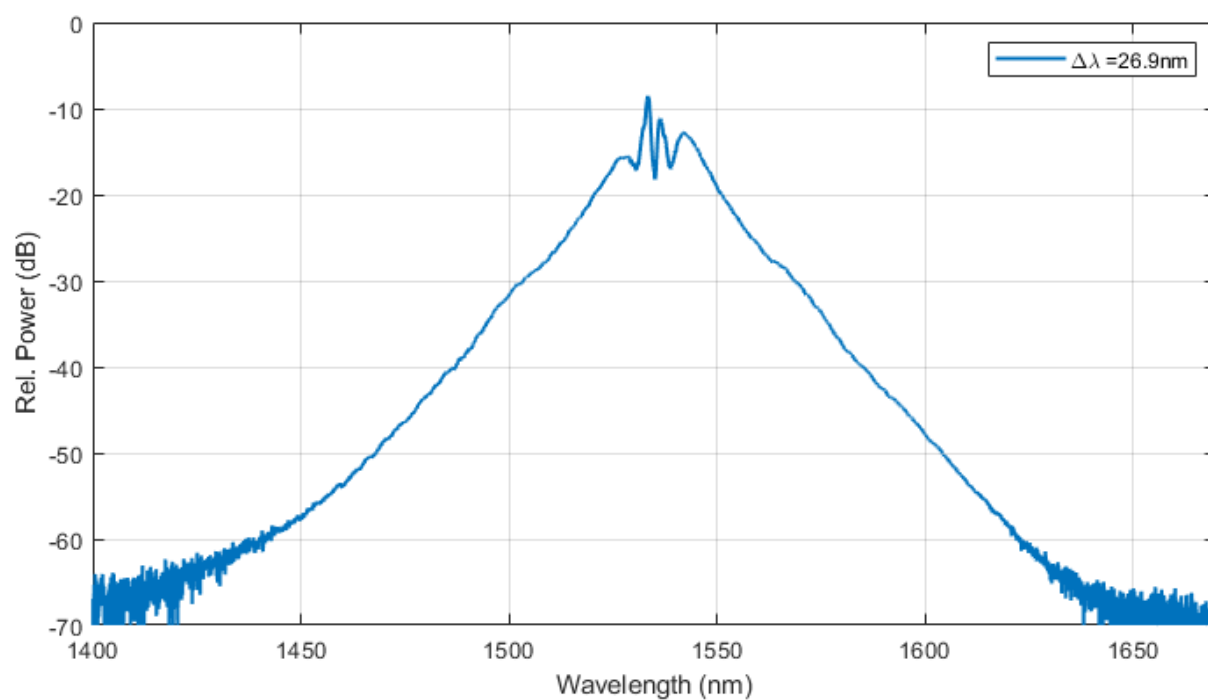
## / Applications



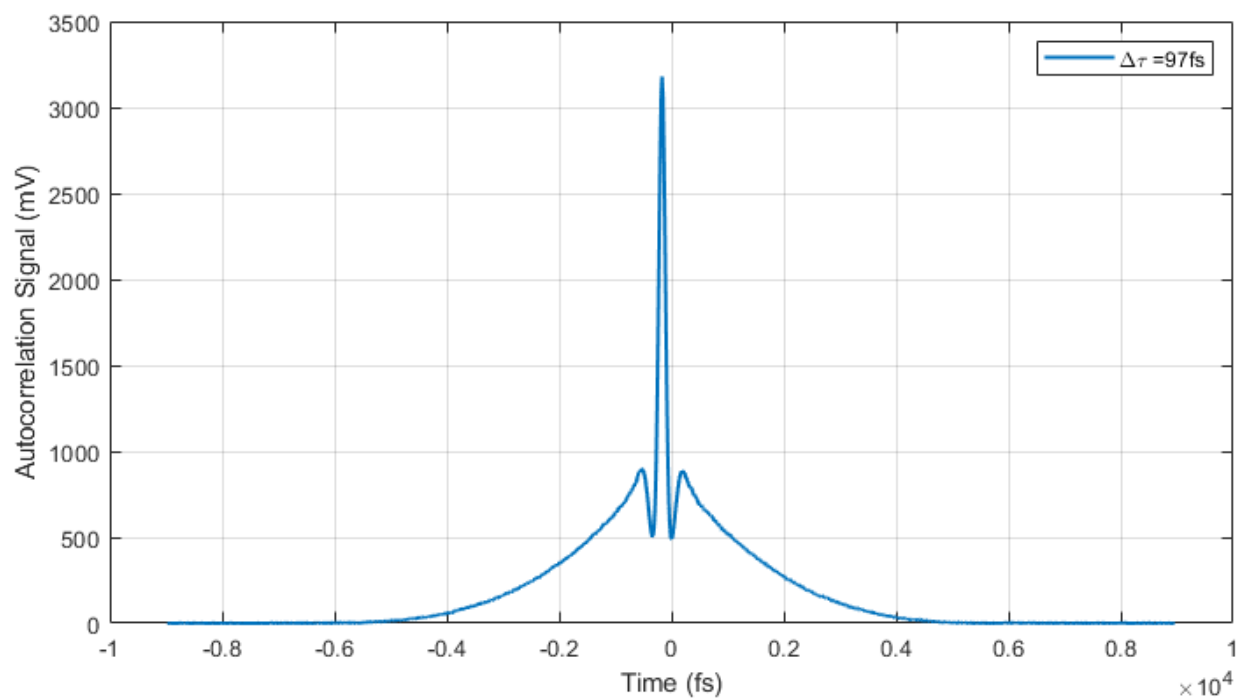
Optical Communications

# Zephyr

## / Optical Spectrum

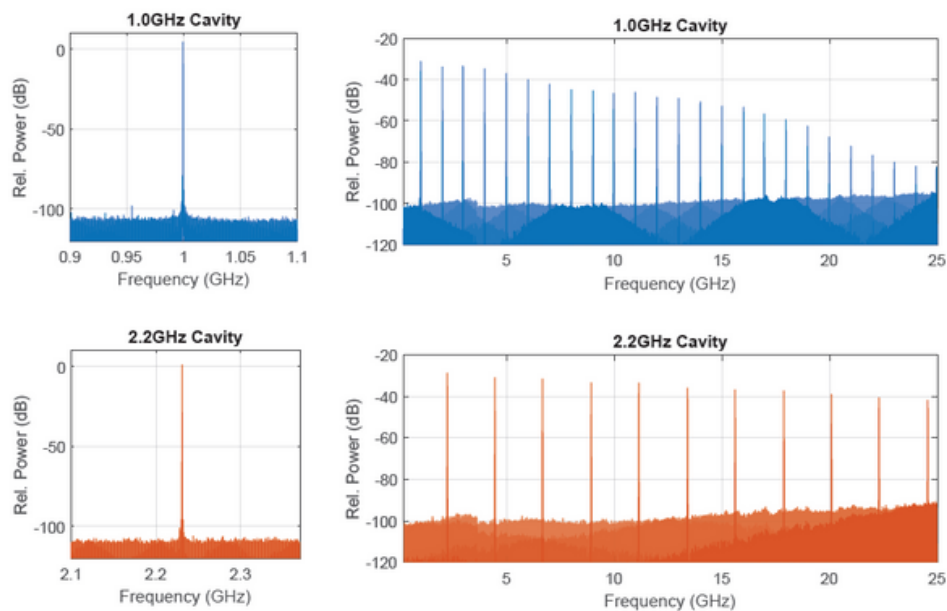


## / Autocorrelation Trace

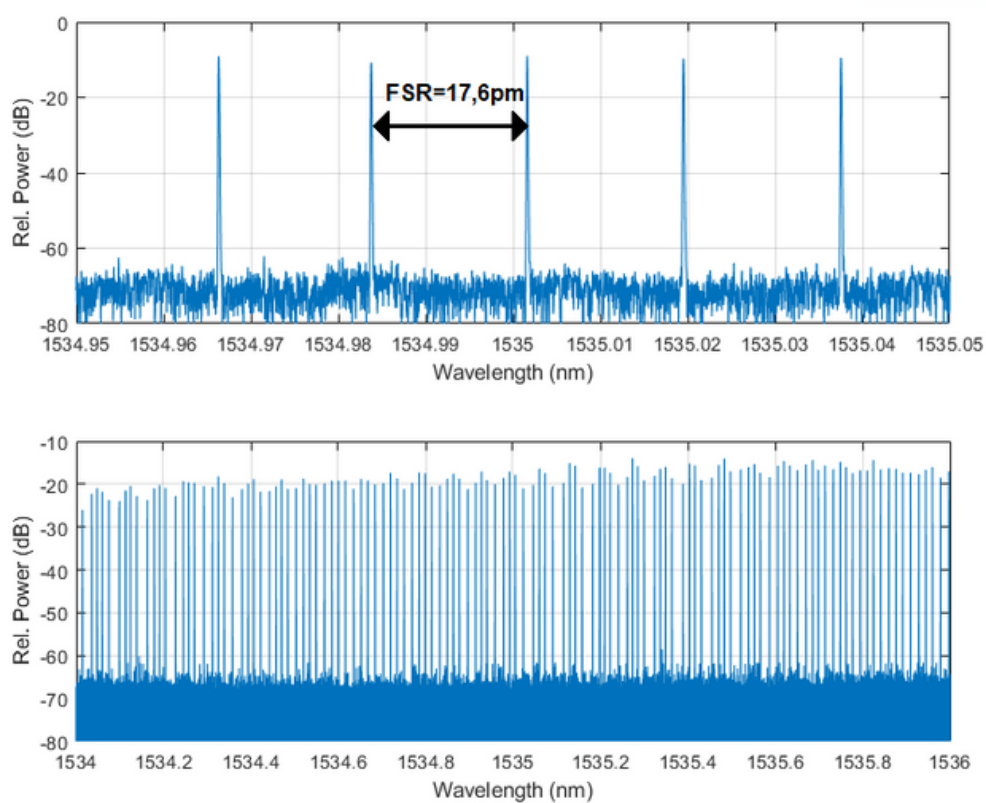


# Zephyr

## / Radio Frequency Spectrum

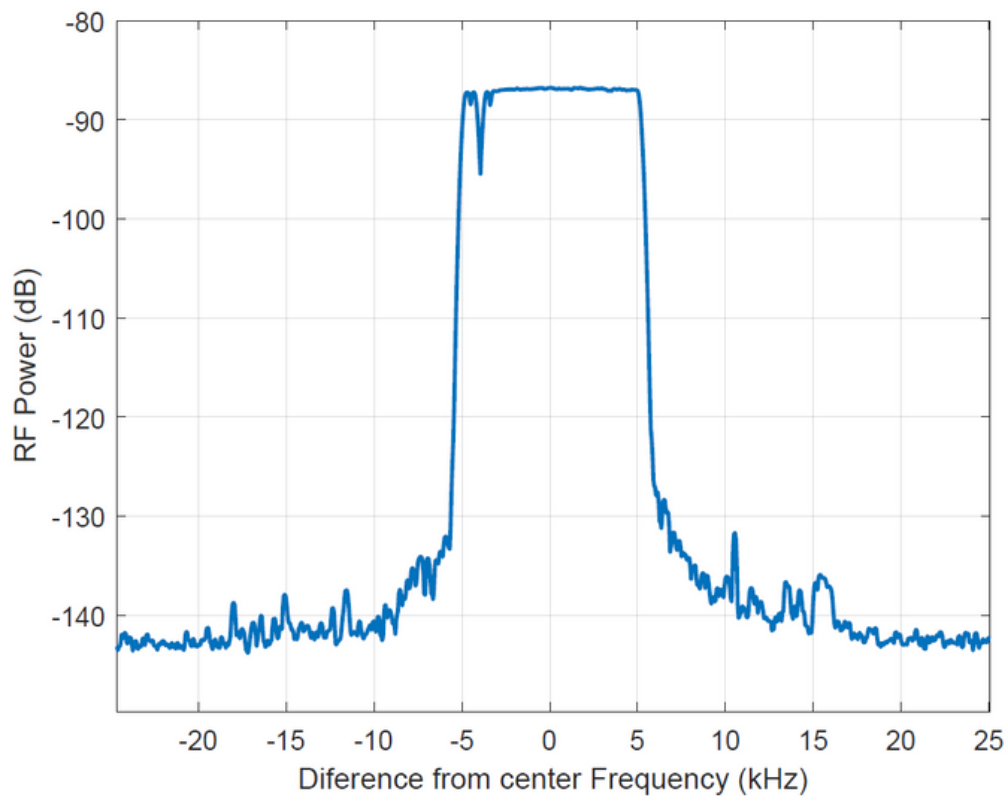


## / High Resolution Optical Spectrum

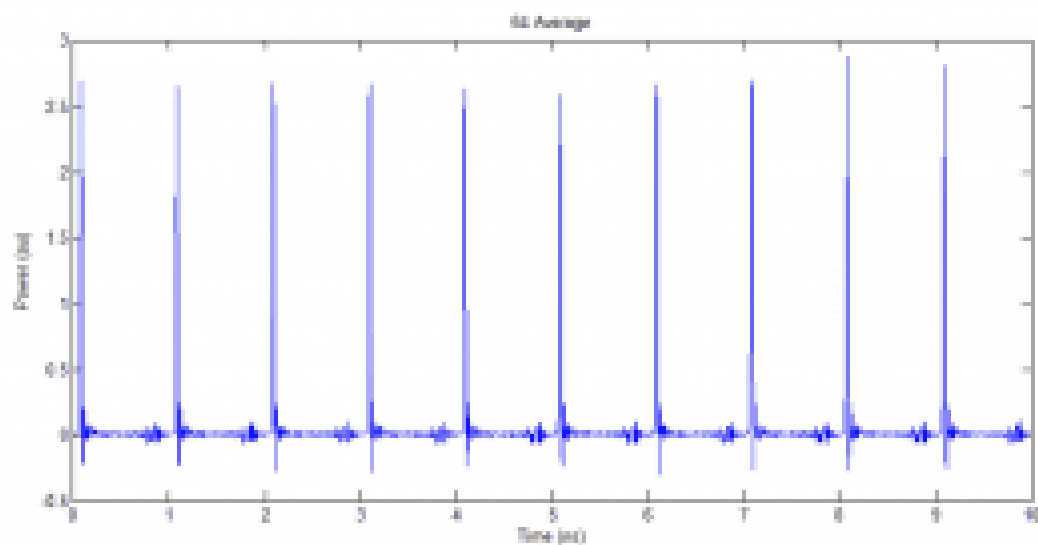


# Zephyr

/ Max Hold Radio Frequency



/ 1 GHz pulse train



# Zephyr

## / Technical Specifications

### Repetition Rate

1.25 +- 0.10 GHz

Custom on demand

### Spectral Range

1535 +- 2 nm

### Average Power

> 1.5 W

### Pulse Duration

< 100 fs

Timing Jitter:

<50 fs [10KHz-10MHz]

Amplitude Noise:

<0.5% RMS [24h]

Optical Bandwidth:

<27 nm (at -10 dB)

Optical Output:

FC/PC connectorized end cap

Synchronization / Connections:

Optical Reference / Electrical clock signal

Spatial Mode:

<1.1

Cooling:

Integrated peltier + air cooling

Power Requirements:

220 V / 110V - 50/60 Hz

Operating Temperature:

20 - 30 °C

Storage Temperature:

0 - 60 °C

Dimensions:

536x129x208 (WxDxH)



208 mm



129 mm

536 mm

OTHER DETAILED SPECS UNDER REQUEST

# Zephyr

## / Additional information



### Laser Security:

This product is a Class 4 laser.

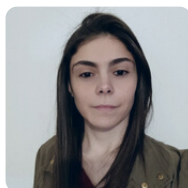
Appropriate safety measures according to such laser class should be taken in its installation and use.

### Warranty:

24 months warranty or > 10,000h of continuous operation.

Extended warranty on request.

## / FYLA contact



### Sales contact

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