

ULTRA COMPACT PULSED FIBER LASER SERIES
Single frequency at 1550nm

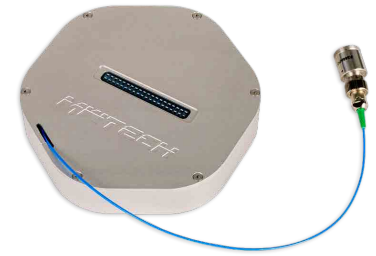
Release: V1.0 | Author: MM | Date: 12/05/2016

MODEL NO

ucPFL-1550

DESCRIPTION:

This ultra compact Pulsed Fiber Laser developed for field applications, generates single frequency short nanosecond pulses at 1550 nm. It is based on a very compact MOPA (Master Oscillator Power Amplifier) architecture that uses proven subsystems and proprietary laser pulse generation. The laser incorporates real-time stabilization and control electronics to optimize laser operation.

**OPTICAL PARAMETERS (AT 25°C)**

Parameter	Specification	Unit
Center wavelength	In range 1545 – 1560	nm
Center wavelength stability	< 0.05	nm
Spectral width (FWHM)	< 0.5	nm
Pulse width (FWHM) - fixed	< 5	ns
Pulse repetition frequency	single-shot to 500	kHz
Peak power ¹	> 4	kW
Pulse energy ¹	> 15	μJ
Average signal to ASE ratio	> 20	dB
Output polarization	Random	-

¹ rigger input frequency of 40kHz

OPTICAL CONNECTIONS

Output fiber	SMF-28 or equivalent, length < 30cm
Fiber termination	FC/APC with attached output beam collimator

ELECTRICAL PARAMETERS

Parameter	Specification	Unit
Power supply	+5 and +9	V

MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS

Parameter	Specification	Unit
Operating case temperature	5 - 55	C
Humidity	0 - 95, Non-condensing	%
Dimensions	95 x 20	mm

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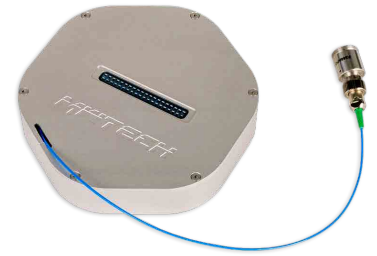
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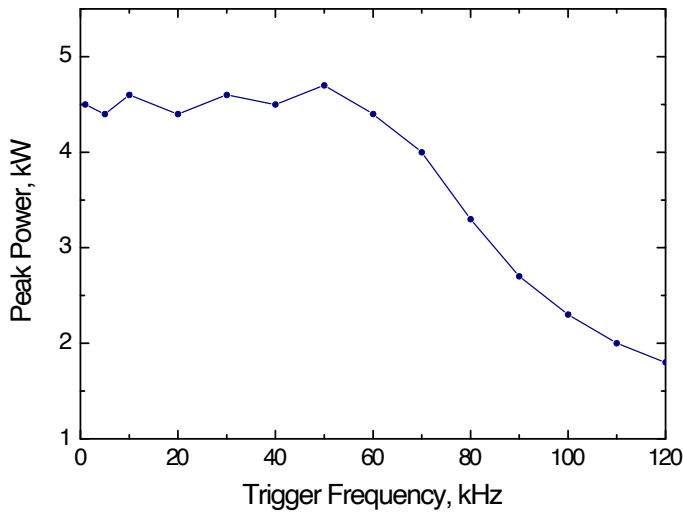
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PEAK POWER VS. TRIGGER FREQUENCY



TYPICAL OUTPUT OPTICAL PULSE (3-4NS)

