

PYFL-KULT SERIES

PULSED YTTERBIUM FIBER LASER

1µm ULTRA-COMPACT LASER TRANSMITTER



FEATURES

- 1064 nm operating wavelength
- Energy per pulse up to 25µJ
- Peak power up to 25kW
- Pulse duration 1ns to 50ns
- Pulse repetition frequency from 5KHz to 1MHz
- Continuous or burst operation
- Linear or random polarization
- Diffraction limited output beam
- Low power consumption
- Wide operating temperature range (-35°C to +65°C)
- Compact and rugged module

Description

The PYFL-KULT 1 µm series Ytterbium-doped-fiber lasers provide high peak power and high energy per pulse in a very compact package.

The output beam is near gaussian beam M2<1.1 diffraction-limited.

The 1µm KULT laser is one of the most compact laser of its category. Its narrow linewidth allows high efficiency frequency doubling.

This laser source is ideal for harmonic generation, telemetry or 3D scanning applications and can be operated in harsh environment.

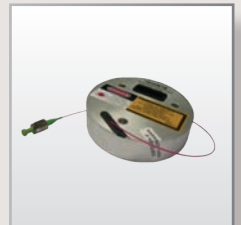
Platforms of different size are available with either analogic or digital controls. External TTL signal triggers the optical pulses.

APPLICATIONS



Supercontinuum generation / Harmonic generation / Telemetry / Range-finding 3D scanning / Mapping

PK 2A



2 Platforms



PK 5D

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1µm ULTRA-COMPACT LASER TRANSMITTER

Optical Specifications

@ 25°C

	Model*			
	K01	K02	K03	K04
Mode of operation	Pulsed			
Operating wavelength	1064+/-2nm			
Wavelength excursion over T range	<0.3nm			
Energy per pulse	1µJ	3µJ	10µJ	25µJ
Peak power	1kW		10kW	25kW
Average power	5 mW	400mW	500 mW	1300mW
Pulse repetition frequency	5 kHz	100kHz	50kHz	
Pulse duration	1ns	3ns	1ns	
Seed tap (option)	Yes			
Pigtail length	32+/-2cm			
Fiber type	SMF/PANDA			
Random or Linear (15dB) polarization	RP or LP			
Beam quality, M²	<1.1			<1.3
Output termination	FC/APC or Collimator			
Power consumption	<8W	<15W	<20W	<40W
Associated platform	PK2A		PK5D	

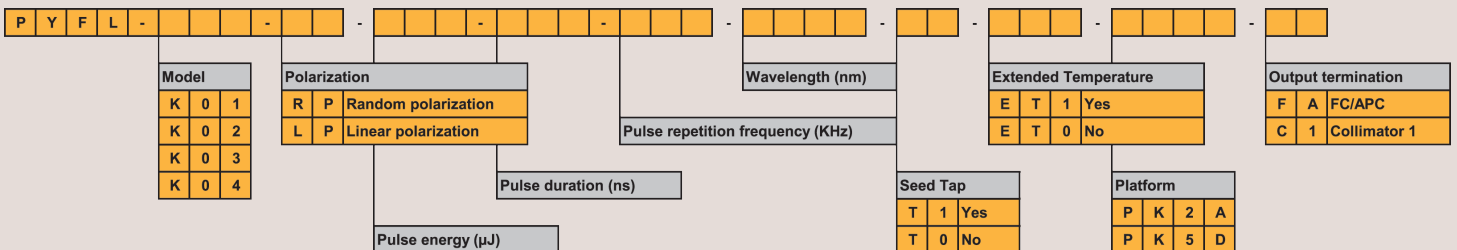
Platform Specifications

Platform type

	Platform type	
	PK2A	PK5D
DC voltage	5 to 12V and 3.3V	18 to 32V
Control Interface	Analog	RS232
External trigger signal	TTL	
Warm-up time	<1min	
Dimensions (D x H)	90x20mm	120x27mm
Weight	<200g	<450g
Operating case temperature	0°C to +50°C (-35°C to +65°C optional)	
Storage temperature	-40°C to +85°C	

* For each model, other sets for energy, pulse duration and repetition rate are possible

Ordering information



All products comply with IEC 60825-1 and FDA (21 CFR Subchapter J) laser safety standards.

Keopsys undertakes a continuous and intensive product development program to ensure that its products perform to then highest technical standards. As a result, the specifications in this document are subject to change without notice.

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