

PTFL-KULT SERIES

PULSED THULIUM FIBER LASER

2.0 μm ULTRA-COMPACT LASER TRANSMITTER



KEY FEATURES

- 2 μm eye-safe operation
- Energy per pulse up to 15 μJ
- Peak power up to 1.5 kW
- Pulse duration from 10 to 40 ns
- Pulse repetition frequency from 5 kHz to 20 kHz
- Linear or random polarization
- Diffraction limited output beam
- Low power consumption
- Wide operating temperature range (-35 °C to +65 °C)
- Compact and rugged package

Description

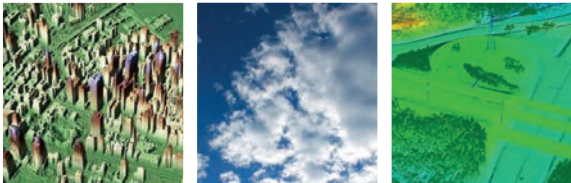
PTFL-KULT 2 μm series Thulium doped fiber lasers are eye-safe pulsed laser sources delivering high peak power and high energy per pulse in a very compact package.

The 2 μm KULT laser is one of the most compact laser of its category. Due to its low attenuation during atmospheric propagation, this laser allows ultra long range finding through mist and damp air.

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

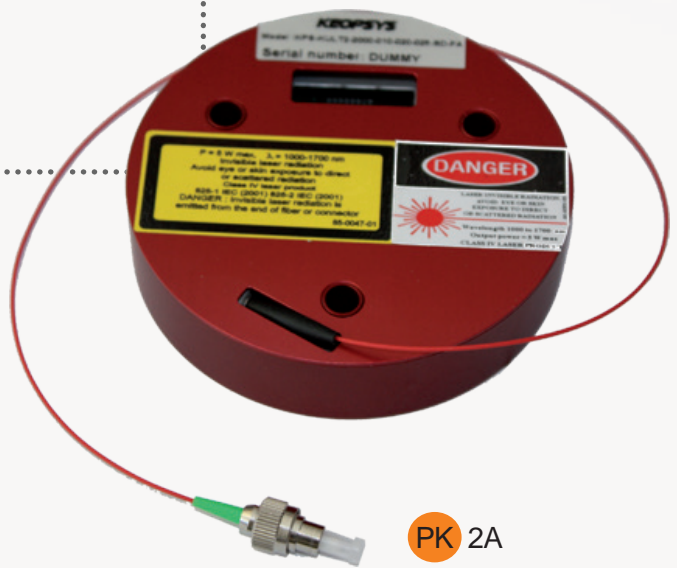
This source is ideal for telemetry or range-finding applications and can be operated in harsh environment.

APPLICATIONS



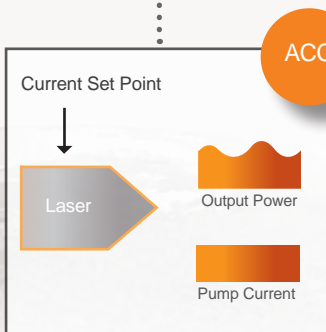
- Telemetry, Range-finding
- 3D scanning
- Mapping
- Cloud height measurement
- Wind sensing
- Pollution monitoring

1 Platform



Mode of operation

The devices offer one mode of operation :



ACC (Automatic Current Control) mode is standard for all devices. The laser is controlled from diodes current set point.

PK 2A

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2 μm ULTRA-COMPACT LASER TRANSMITTER

Optical Specifications @ 25 °C

	PTFL-KULT
Mode of operation	Pulsed
Operating wavelength	1995 nm*
Wavelength excursion over T range	10 nm
Energy per pulse	From 10 to 15 μJ
Peak power	1.5 kW
Average power	From 75 to 200 mW
Pulse repetition frequency	From 5 to 20 kHz
Pulse duration	10 to 40 ns
Pigtail length	32+/-2 cm
Fiber type	SMF/PANDA
Polarization	Random or Linear
Beam quality, M ²	<1.1
Output termination	FC/APC

*Other wavelength on request

The PTFL series lasers are available as OEM module for an easily integration.

RELIABILITY

The Keopsys range of fiber lasers are manufactured with tested components and are submitted to several inspections during the manufacturing process under a rigorous quality management certified in accordance with the ISO 9001:2008 standard. Our all-in-fiber systems offer maintenance free operation. Countless units are continuously running in demanding environments with no failure.

GUARANTEE

Our fiber systems are under 1 full year parts and labor guarantee. We offer a warranty extension of 1 or 2 years. Please contact us.

For ordering information and custom solutions, please contact us : websales@keopsys.com



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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