

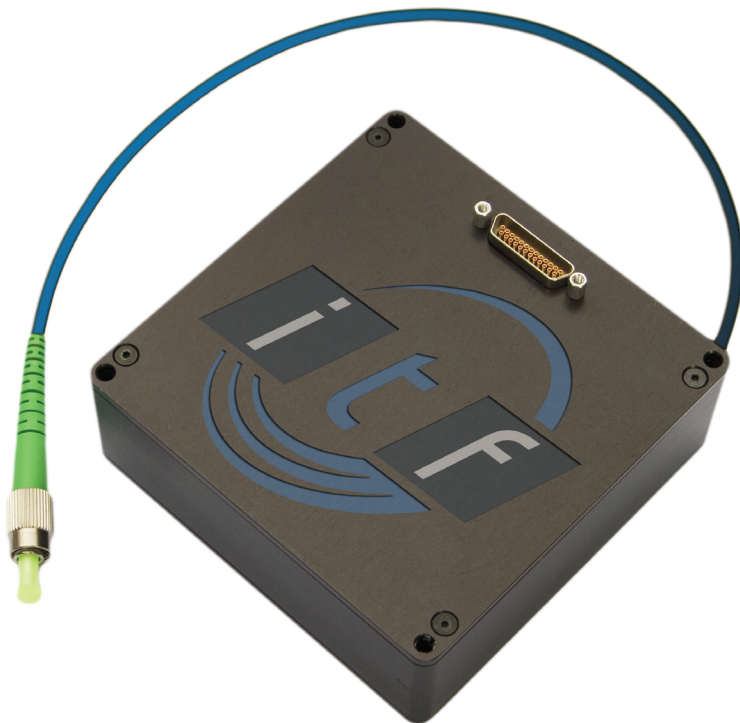
KRONOS Lidar Sources

High Performance Laser Source for Lidar Applications

ITF Technologies' KRONOS laser sources for lidar applications are designed and built based on our vast expertise in optical fiber components manufacturing and assembly. They feature excellent beam quality and are available in low (0.5kW@25kHz), medium (3kW@25kHz) or high (>15kW@25kHz) peak power configurations.

They are designed with autonomous vehicle guidance systems in mind, in harsh environmental conditions. Having both high peak power and excellent beam quality means a better long range mapping capacity.

The KRONOS lidar sources also features built-in electronics and temperature control, in addition to pulse tuning capabilities. This offers flexibility to our customers and the ability to optimize their Lidar system design.



KEY FEATURES

Compact Design

High Peak Power

High OSNR

Excellent beam quality

Ultra Low Jitter

Eye Safe (1550nm)

High Reliability for Harsh Environments

Optional Optical Output Monitor

APPLICATIONS

Self-Driving Vehicles

3D Mapping

Distance Measurement

FOR MORE INFO

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KRONOS Lidar Sources

Laser specifications

	UNITS	LOW POWER	MEDIUM POWER	HIGH POWER*
Operating Center Wavelength	nm	1550 +/- 15		
Pulse Width (Adjustable)	ns	0.7 to 10		
Pulse Repetition Frequency (User Selectable)	kHz	25 - 5000		
Output Peak Power (at lowest PRF)	kW	0.45	3	15
Energy per Pulse (at lowest PRF)	uJ	1.8	12.8	60
Average Output Power	W	0.05	up to 1.5	1.5
Configuration (number of stages, same casing)		2	3	3
Output Fiber		SMF	SMF	LMA

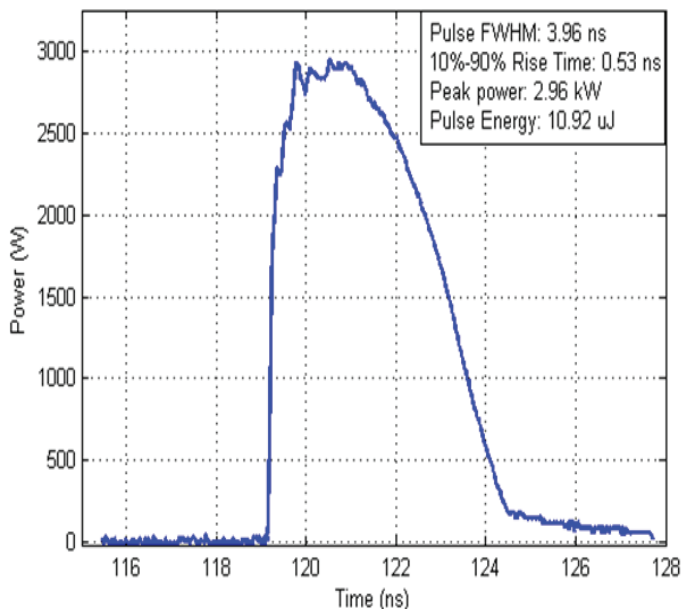
*Under development

Mechanical and environmental specifications

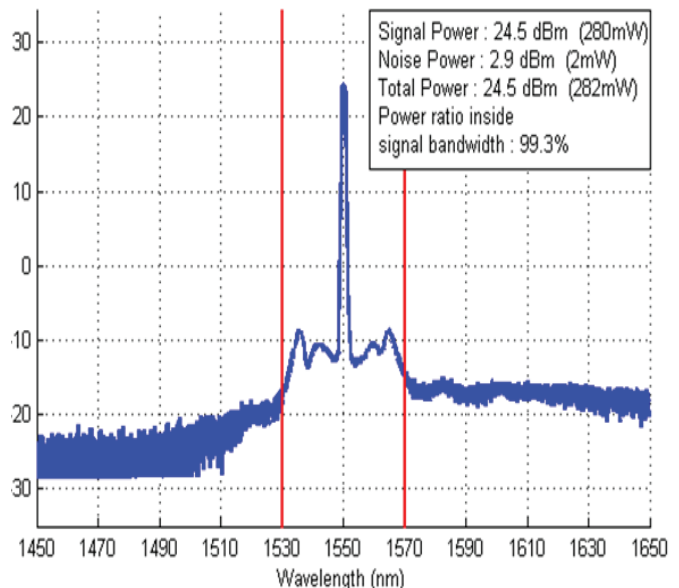
	UNITS	VALUE
Dimensions	mm	90 x 90 x 90
Operating temperature (case)	°C	-40 to +65
Storage temperature (case)	°C	-40 to +85
Relative Humidity		< 90% (non condensing)
Weight	g	450
Control Interface		Full duplex LVDS
Required power supply	V	12

Note: Power limiting safety interlock built in

Typical pulse shape



Typical spectrum



ORDERING INFO

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