

High Power Pulsed Single Mode 1550nm Laser Source

(SM or PM output fiber , up to 10W output power)

Product Description

Agiltron high power pulsed 1550nm fiber lasers provide eye-safe single mode nano second pulse with a average output power up to 3W with a near diffraction-limited beam quality. The are all fiber high reliability construction using double cladding fiber pumping technology that efficiently converts multi mode lasers into highly coherent single mode laser. The laser source can be configured as a module or a turn key unit with build-in feedback power stabilization controller and power supply. Agiltron also provide customers design. We provide output beam collimator, as well as wavelength stabilization choices.



Performance Specifications

1550nm pulse fiber laser source	Min	Typical	Max	Unit
Central Wavelength	1545	1550	1552	nm
Average Output Power ^[1]	0.5		3	W
Output Power Adjustment Range	10		100	%
Spectral Line Width (FWHM)	0.1	0.2		nm
Pulse Width	5.5	6	6.5	ns
Beam Quality		1.2	1.7	M ²
Option Mode		CW		
Stability of Output Power(15min) ^[3]		+/-0.5	+/-1.0	%
Stability of Output Power(8h) ^[3]		+/-1	+/-2	%
Output Isolation	30			dB
Polarization Extinction Ratio ^[2]	17	20		dB
Operating Temperature	-25		50	°C
Storage Temperature	-40		85	°C

[1]. Output power is optional, typical output power: 0.5W、1W、2W、5W、10W;

[2]. For PM version only

[3] The output power stability is measured under 25°C, 30 minutes after warm-up;

[4] Excluding connector.

Features

- Low Cost
- High Stability
- High Reliability
- SM Beam Quality
- All-fiber Construction
- High Output Power

Applications

- LIDAR
- Sensing
- Test and measurement
- Instrument

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Mechanical Dimensions (Unit: mm)

Dimensions: 420mm L x 485mm W x 105mm H

*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

Ordering Information

SMFL-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type	Wavelength	Configuration	Package	Fiber Type	Fiber Length	Connector ^[2]		
CW = 11 Pulse = 22	1550=5 Special=0	0.5W = 05 1W = 1W 2W = 2W 5W = 5W 10W = 10 Special = 00	Module =1 Benchtop Turn Key =2 Special=0	SMF-28 =1 PM1550XP=2 Special=0	900µm tube=3 Bare fiber=1 2 mm Jacket=2 Special=0	0.25m=1 0.5m=2 1.0m=3 Special=0	None=1 FC/PC=2 FC/APC=3 SC/PC=4 SC/APC=5 ST/PC=6 LC=7 Special=0	

[1]. **SMFL**: Single-mode Fiber Laser
 [2]. **High Power Connectors are extra cost**