

High Power Single Mode 1550nm Laser Source

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

Product Description

Agiltron 1550nm CW fiber lasers provide eye-safe single mode high optical power up to 10W with a near diffraction-limited beam quality. They 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 built-in feedback power stabilization controller. Agiltron also provides customer design. We provide output beam collimator, as well as wavelength stabilization choices.



Performance Specifications

1550nm CW fiber laser source	Min	Typical	Max	Unit
Central Wavelength		1550		nm
Output Power ^[1]	0.5		10	W
Output Power Adjustment Range	10		100	%
Spectral Width (FWHM) ^[2]	0.1			MHz
Side Mode Suppression Ratio	35			dB
Beam Quality	<1.1			M ²
Option Mode		CW		
Stability of Output Power(15min) ^[3]		+/-0.5	+/-1.0	%
Stability of Output Power(8h) ^[3]		+/-1	+/-2	%
Light Isolation	35			dB
Return Loss ^[4]	40			dB
Operating Temperature	-25		50	°C
Storage Temperature	-40		85	°C
Power Supply		110/220		VAC

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

[2]. spectral width on request;

[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

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	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 PM1550=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**