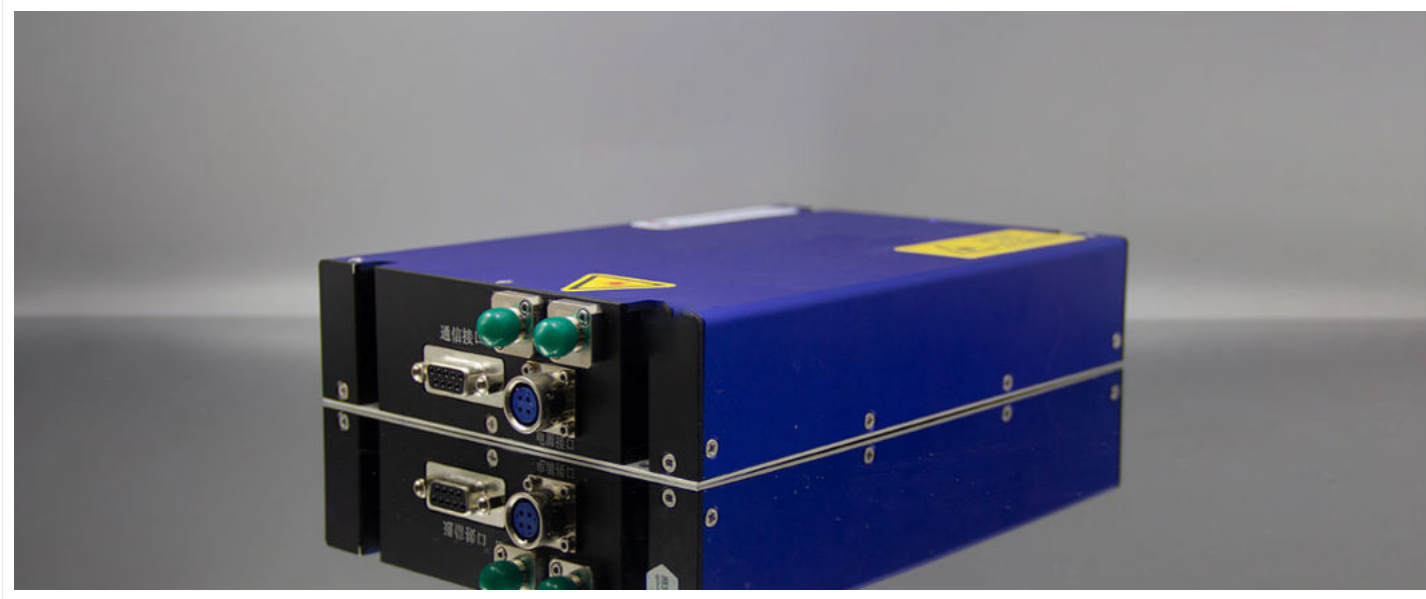


# 1540-1550nm Single Frequency Fiber Laser



## DESCRIPTION

Single frequency fiber laser products are divided into single frequency continuous fiber laser and single frequency pulse fiber laser. After a long time of research and development and improvement, a unique product has been formed.

The single frequency continuous fiber laser series uses different types of low noise single frequency narrow linewidth laser as seed source, MOPA enlarges all fiber structure, through the optimization of engineering parameters of amplification stage, current noise suppression, high gain fiber nonlinear effect suppression, high power and low noise laser output is realized, maintaining the beam quality of high spectral signal-to-noise ratio and near diffraction limit. This series of products are widely used in laser coherent communication, atmospheric environment test, laser sensor, coherent synthesis and other test systems, with the following technical advantages:

Low Rin value is helpful to improve the precision of laser sensing and coherent communication;  
High output power helps to improve the signal-to-noise ratio of atmospheric environment test

## FEATURES

- Narrow line width, low noise
- All-fiber amplification structure
- Input and output safety protection lock function
- Simple operation and maintenance

## APPLICATIONS

- Laser coherence
- Adaptive optics
- Atmospheric environment detection
- Laser sensing
- Laser spectroscopy

## PARAMETERS

Model	CL1540~1550-30μJ-SPFL001	CL1540~1550-150μJ-SPFL002	CL1540~1550-300μJ-SPFL003	
Optical Parameter	Central Wavelength (nm)	1540~1550	1540~1550	1540~1550
	Output Power (uJ)	>30	>150	>300
	Power Stability	<2%	<2%	<2%
	Repeat Frequency	10kHz magnitude	10kHz magnitude	10kHz magnitude
	Pulse Width	Hundred ns magnitude	Hundred ns magnitude	Hundred ns magnitude
	RIN Value (dB@1MHz)	<-140	<-140	<-140
	Beam Quality M <sup>2</sup>	<1.2	<1.2	<1.2
	Output Spectral Line Width (KHz)	<20	<20	<20
	Turn-Off Extinction Ratio (dB)	>100	>100	>100
	Function Parameter	Output Method	FC/APC	FC/APC
Control Interface		DB9, RS422	DB9, RS422	DB9, RS422
Cooling Method		Air cooling	Air cooling	Air cooling
Powered By		220VAC/50Hz	220VAC/50Hz	220VAC/50Hz
Output Power (W)		<60	<100	<200
Environmental Requirements	Operating Temperature	-40-50	-40-50	-40-50
	Storage Temperature	-40-60	-40-60	-40-60
	Humidity	0-80%	0-80%	0-80%
Weight and Size	Laser Weight (Kg)	<10	<20	<25
	Laser Size	Customized	Customized	Customized

## OUTLINE SIZE(mm)

