

1570nm CW Single Mode Fiber Laser



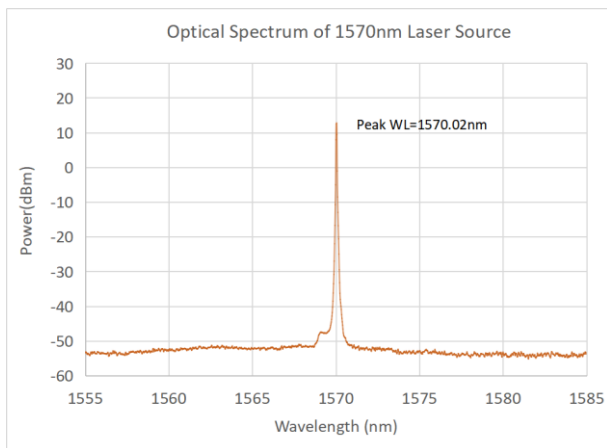
2024 V1

For customized projects please Contact us:

info@simtrum.com

1570nm CW Single Mode Fiber Laser (10-500mW)

SIMTRUM's STFL Series 1570nm CW Fiber Laser features a high-performance butterfly-shaped semiconductor chip, designed for safe and stable operation with an output power range of 10-500mW. This laser ensures consistent power and spectral stability, making it ideal as a pump source for thulium-doped fiber lasers or fiber amplifiers. Available in both desktop and modular formats, it is tailored for versatile application needs.



Features

- Various Powers 10 ~ 500mW
- Single-mode fiber output
- Power and spectral stability

Application

- Erbium-doped fiber pumping
- Fiber laser
- Optical device testing

Specifications

Optical Parameters	Unit	Typical Value		Remarks
Wavelength	nm	1570 ±1		
Wavelength Accuracy	nm	±0.5		
Laser Operation Mode	-	CW		Continuous light
Spectral Linewidth	nm	< 0.1		
Side Mode Suppression Ratio	dB	≥ 50		
Output Power	mW	10/20/50/100/200/400/500		
Instability(15min.in)	dB	≤ ±0.02		Equivalent to ≤±0.5%
Instability(8 hr)	dB	≤ ±0.05		Equivalent to ≤±1.2%
Polarization State	-	Random	Linear polarization	
Optical Fiber	-	SMF-28	PM1550	
Fiber connector	-	FC/APC	FC/APC (slow axis alignment)	

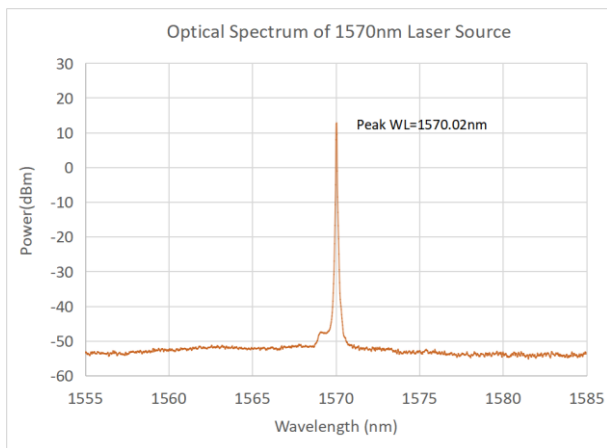
Specifications

General Parameters	Desktop	Module
Control Function	Keystroke / RS232 serial Communication	RS232 serial Communication
Remote control Port	DB9 Female	DB9 Female
Power Supply	AC100~240V, <150W	DC5V, <60W
Dimensions	260(W)×320(D)×120(H)mm	139(W)×235(D)×70(H)mm
Operation Temperature	-5~+35°C	
Operation Humidity	0~70%	

Ordering Information/Product Code				
Series	Wavelength (nm)	Output Power (mW)	Fiber	Packaging
STFL	1570	10/20/50/100/200/400/500	SM = SMF-28	M - Module
			PM = PM1550	B - Desktop

1570nm CW Single Mode Fiber Laser (30-40dBm)

SIMTRUM's STFLH series 1570nm CW Single Mode Fiber Laser is engineered with a high-performance butterfly-shaped semiconductor chip. It includes professionally designed driver and temperature control circuits to ensure safe operation with stable output power and spectrum in the range of 30-40 dBm. This laser is an excellent pump source for thulium-doped fiber lasers or fiber amplifiers. Available in both desktop and modular packages, it meets diverse application needs.



Features

- Various Powers 30 ~ 40dBm
- Single-mode fiber output
- Power and spectral stability

Application

- Erbium-doped fiber pumping
- Fiber laser
- Optical device testing

Specifications

Optical Parameters	Unit	Typical Value		Remarks
Wavelength	nm	1570 ±1		
Wavelength Accuracy	nm	±0.5		
Laser Operation Mode	-	CW		Continuous light
Spectral Linewidth	nm	< 0.1		
Side Mode Suppression Ratio	dB	≥ 50		
Output Power	dBm	30/33/35/37/40		
Instability(15min.in)	dB	≤ ±0.02		Equivalent to ±0.5%
Instability(8 hr)	dB	≤ ±0.05		Equivalent to ±1.2%
Polarization State	-	Random	Linear polarization	
Optical Fiber	-	SMF-28	PM1550	
Fiber connector	-	FC/APC	FC/APC (slow axis alignment)	

Specifications

General Parameters	Desktop	Module
Control Function	Keystroke / RS232 serial Communication	RS232 serial Communication
Remote control Port	DB9 Female	DB9 Female
Power Supply	AC100~240V, <150W	DC5V, <60W
Dimensions	260(W)×320(D)×120(H)mm	139(W)×235(D)×70(H)mm
Operation Temperature	-5~+35°C	
Operation Humidity	0~70%	

Ordering Information/Product Code				
Series	Wavelength (nm)	Output Power (dBm)	Fiber	Packaging
STFLH	1570	30/33/35/37/40	SM = SMF-28	M - Module
			PM = PM1550	B - Desktop