

# 1310nm CW Single Mode Fiber Laser



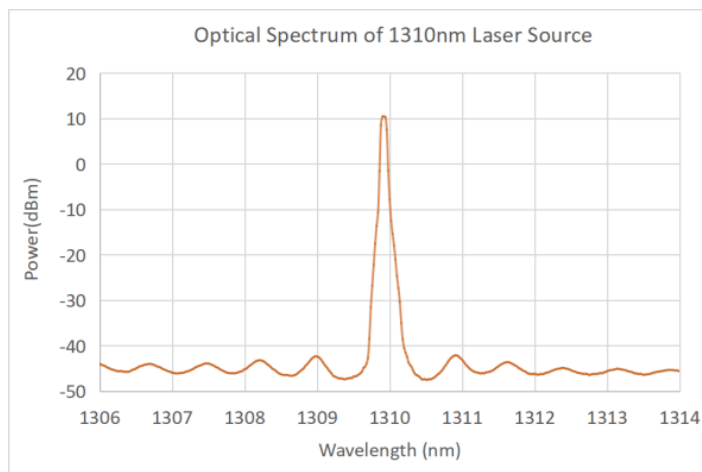
**2024 V1**

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## 1310nm CW Single Mode Fiber Laser

SIMTRUM's STFL Series 1310nm CW Fiber Laser features a DFB semiconductor laser chip for precise single-mode output. Enhanced with a professionally designed driver and temperature control circuits, this laser ensures safe and stable operation. Available in both desktop and modular formats, it offers versatile deployment options for various applications.



### Features

- Power and spectral stability
- Narrow spectral linewidth
- SM/PM fiber output

### Application

- Fiber optic sensing
- Fiber laser
- Optical components testing

### Specifications

| Optical Parameters          | Unit | Typical Value |                                 | Remarks              |
|-----------------------------|------|---------------|---------------------------------|----------------------|
| Wavelength                  | nm   | 1310          |                                 |                      |
| Wavelength Accuracy         | nm   | ±2            |                                 |                      |
| Laser Operation Mode        | -    | CW            |                                 | Continuous light     |
| Spectral Linewidth          | nm   | ≤ 3           |                                 |                      |
| Side Mode Suppression Ratio | dB   | > 50          |                                 |                      |
| Output Power                | mW   | 10/20/30/40   |                                 |                      |
| Accuracy Working            | -    | 10~100%       |                                 |                      |
| 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               | -    | G657A         | PM1310                          |                      |
| Fiber connector             | -    | FC/APC        | FC/APC<br>(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, <30W                       | DC5V, <15W                 |
| Dimensions            | 260(W)×280(D)×120(H)mm                 | 125(W)×150(D)×20(H)mm      |
| Operation Temperature | -5~+35°C                               |                            |
| Operation Humidity    | 0~70%                                  |                            |

| Ordering Information/Product Code |                 |                   |             |             |
|-----------------------------------|-----------------|-------------------|-------------|-------------|
| Series                            | Wavelength (nm) | Output Power (mW) | Fiber       | Packaging   |
| STFL                              | 1310            | 10/20/30/40       | SM = G657A  | M - Module  |
|                                   |                 |                   | PM = PM1310 | B - Desktop |