

## Laser Modules

### VLFL-SF-N Split-Type Single-Mode Laser Module

High-precision optical inspection light source components

- High precision, low interference
- Separate and flexible
- Long lifespan and wide adaptability



One Platform Many Possibilities

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## Overview

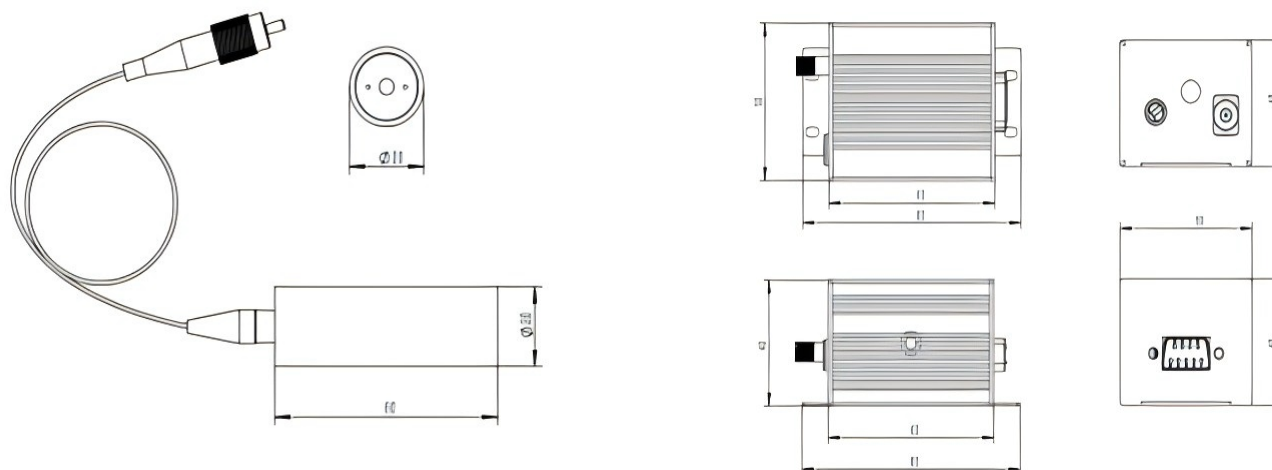
### Introduction:

The VLFL-SF-N series covers multiple wavelengths (such as 638nm, etc.) and different power models. Its core feature is "physical separation of the laser body and the driver power supply", making it suitable for medium and high-precision optical application scenarios such as fluorescence spectroscopy, photoelectric detection, and optical measurement. The entire series shares the technical foundation of "single-mode fiber output + high beam quality + long service life". The laser body has a compact size (for example, a typical model is only 60mm×20mm), and the driver power supply is independent (83mm×50mm×40mm). It supports optional FC-PC/FC-APC fiber interfaces, with output power covering the low-to-medium range (typical value 20mW), narrow spectral linewidth (1-2nm), operating temperature of 0-40 °C, and service life of up to 10,000 hours. It has the dual advantages of "miniaturized integration" and "precision optical output".

### Features:

- Excellent beam quality
- Precise wavelength and narrow linewidth
- Low noise and high stability
- Separate module layout
- Strong optical fiber compatibility

### Dimension:



## Specifications

### Common Parameter Specification Table

Parameter Category	Specific Parameters
Output Power (CW)	Typical value: 20mW
Central Wavelength Range	Taking the 638nm series as an example, covering 633 - 643nm (different sub - models correspond to specific central wavelength intervals)
Spectral Linewidth (FWHM)	1 - 2nm
Fiber Type	Single - mode Fiber (SM Fiber)
Fiber Numerical Aperture	0.12
Typical Fiber Length	1.0m
Fiber Connector Options	FC - PC / FC - APC
Mean Time To Failure (MTTF)	10000 hours
Operating Temperature Range	0 - 40
Storage Temperature Range	- 20 - 65

## Service & Support

We are dedicated to delivering exceptional optoelectronic solutions to every client. From precision manufacturing and secure delivery to full-lifecycle technical support, we are here to ensure a seamless and reliable experience at every step.

### 1. Warranty Policy

#### Quality First, Worry-Free Operation

**Warranty Period:** We offer a **two-year** warranty service for all of our core optoelectronic products, effective from the date of shipment.

**Coverage:** We provide free repair or replacement services for malfunctions caused by material defects or workmanship errors under normal operating conditions.

**Rapid Response:** Upon receiving a warranty claim, we guarantee to initiate the assessment process within **24 hours** to minimize your equipment downtime.

### 2. Technical Support

#### Expert Team, Full-Process Guidance

**Technical Consultation:** Our team of senior optical engineers provides **24/7 online support** to assist with installation, commissioning, optical path alignment, and parameter optimization.

**Scheduled Maintenance:** We offer full-lifecycle maintenance recommendations, including firmware upgrades, optical component cleaning guidelines, and precision calibration services.

**Training Services:** We provide customized remote or on-site operational and safety training to ensure your team can operate the equipment efficiently and safely.

### 3. Logistics & Delivery

#### Precision Packaging, Global Reach

**Professional Packaging:** Given the fragile nature of optical instruments, we utilize industrial-grade shockproof, anti-static, and moisture-proof vacuum packaging to ensure zero damage during transit.

**Logistics Partners:** We partner with top-tier global logistics providers (**DHL / FedEx / UPS / SF Express**) to offer reliable shipping with real-time tracking.

**Shipping Insurance:** All shipments are fully insured to eliminate logistics risks.

### 4. Compliance & Certification


#### Strict Standards, Total Compliance

**Quality Certification:** Our manufacturing process is **ISO 9001 certified**, and our products comply with international standards such as **CE** and **RoHS**.

**Export Compliance:** "Committed to environmental responsibility, all our products comply with **RoHS 2.0** and **REACH** standards, ensuring safety and global compliance."

## Explore Series

Model	Typical Central Wavelength	Min Central Wavelength	Max Central Wavelength	Fiber Type
VLFL-638-SF-N	638 nm	633 nm	643 nm	SM Fiber
VLFL-660-SF-N	660 nm	652 nm	666 nm	SM Fiber
VLFL-670-SF-N	670 nm	665 nm	675 nm	SM Fiber
VLFL-685-SF-N	685 nm	680 nm	690 nm	SM Fiber
VLFL-785-SF-N	785 nm	780 nm	790 nm	SM Fiber
VLFL-808-SF-N	808 nm	803 nm	813 nm	SM Fiber
VLFL-830-SF-N	830 nm	825 nm	835 nm	SM Fiber
VLFL-850-SF-N	850 nm	845 nm	855 nm	SM Fiber
VLFL-905-SF-N	905 nm	900 nm	910 nm	SM Fiber
VLFL-940-SF-N	940 nm	935 nm	945 nm	SM Fiber
VLFL-980-SF-N	980 nm	975 nm	985 nm	SM Fiber
VLFL-1064-SF-N	1064 nm	1059 nm	1069 nm	SM Fiber

 Get in touch with our team to explore configurations, request a quote, or learn more about customized solutions tailored to your needs.

Let us help you move science forward—faster and smarter.

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