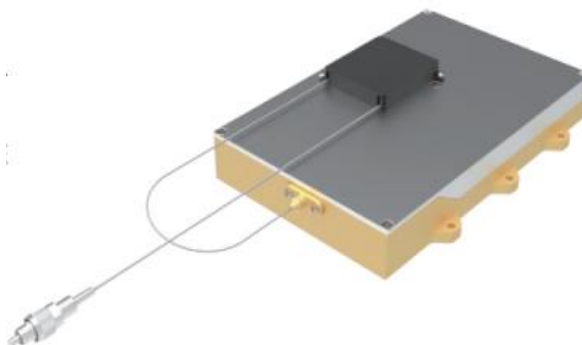


## LMF-525D-C3.2-F50-C3A-A3001 Specification List

### Product Description

The product is a fiber-coupled output semiconductor diode laser, which is used as a pump source. It has the advantages of compact structure, small size, light weight, high power density, high electro-optical efficiency stable performance and long life. Applied in fluorescence excitation, spectral analysis, photoelectric detection, and laser display etc., which is an important component of laser systems.



### Main Application

- Illumination
- Detection
- Scientific research

### Main Features

- High environmental adaptability
- High-efficiency conductive cooling
- Long lifespan
- Compact structure and lightweight

### Technical Parameter @25°C

| Optical Parameters         | Units | Minimum | Typical         | Maximum |
|----------------------------|-------|---------|-----------------|---------|
| Output Power               | W     | 3.2     |                 |         |
| Central Wavelength         | nm    |         | 525±5           |         |
| Spectrum width (FWHM)      | nm    |         | 10              |         |
| 95% energy NA              | NA    |         | 0.2             |         |
| homogenization             |       |         | 90% (with lens) |         |
| Electric Parameters        | Units | Minimum | Typical         | Maximum |
| Electro-optical efficiency | %     | 12.5    |                 |         |
| Working Current            | A     |         |                 | 2       |

Working Voltage V 16 (DC)

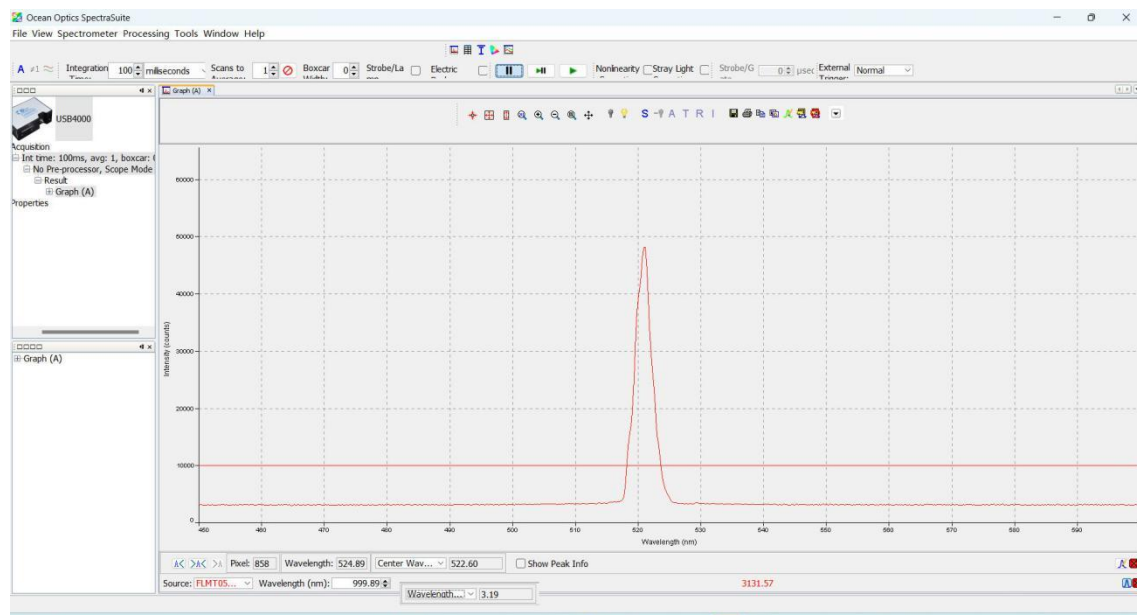
| Fiber Parameters        | Units | Minimum | Typical            | Maximum    |
|-------------------------|-------|---------|--------------------|------------|
| Fiber core diameter     | μm    |         | 50                 |            |
| Fiber Cladding Diameter | μm    |         | 125                |            |
| Fiber NA                |       |         | 0.22               |            |
| Fiber Length            | m     |         | 1±0.1              | Customized |
| Fiber Sheath Diameter   | mm    |         | 0.9                | Customized |
| Fiber Connector         |       |         | FC/SMA905 optional |            |

Other Parameters Typical

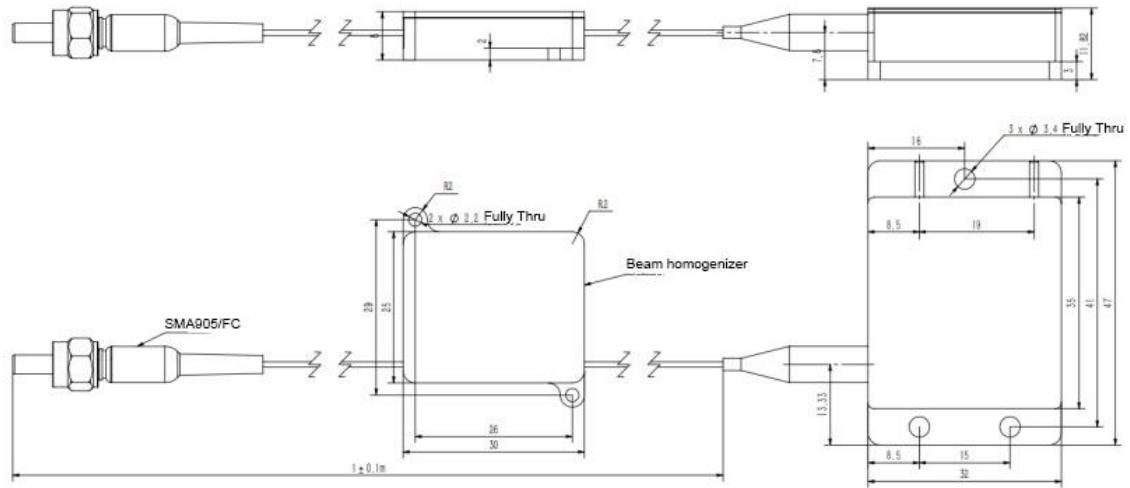
High and low temperature storage First store at +70 °C for 1 hour, then store at -50 °C for 1 hour, cycle three times, with a heating and cooling rate of 3 °C/min

| Structure Parameters | Units | Minimum | Typical  | Maximum |
|----------------------|-------|---------|----------|---------|
| Dimension            | mm    |         | 35×32×12 |         |
| Weight               | g     |         | 95       |         |
| Platform             |       |         | C3       |         |

## Spectral Chart



## Layout Drawing



## Attentions

- During transportation, storage, and use, anti-static measures must be taken, and short-circuit wires should be connected between the pins during transportation and storage.
- Before use, ensure the fiber optic end-face is clean.
- Use a constant current power supply and avoid peak currents and surges during operation.
- When the laser is in operation, avoid direct exposure of eyes or skin to the laser.
- The device should be used within its rated current and power.
- Ensure good heat dissipation when the laser is working; it is recommended to use high thermal conductivity silicone grease on the heat-conducting surface.
- For water cooling, a temperature range of 23-25 degrees Celsius is recommended.
- Do not bend the fiber optic cable at sharp angles; the bending radius should be greater than 300 times the diameter of the fiber.