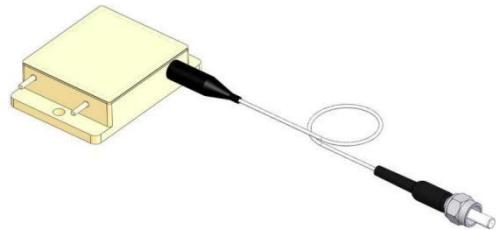


LMF-976A-C25-F105-C3 Specification Manual

Product Description

The product is a fiber coupled output diode laser, which is used as a pump source. It has the advantages of compact structure, small size, light weight, high power density, high electron-optical efficiency, stable performance and long life. Suitable for industrial processing, pumping, photoelectric detection, etc., is an important part of the system.



Main Feature

- High environmental adaptability
- High efficiency conduction heat dissipation
- Long life
- Compact structure and light weight

Main Application

- Fiber laser pumping
- Direct semiconductor
- Laser illumination
- Scientific research

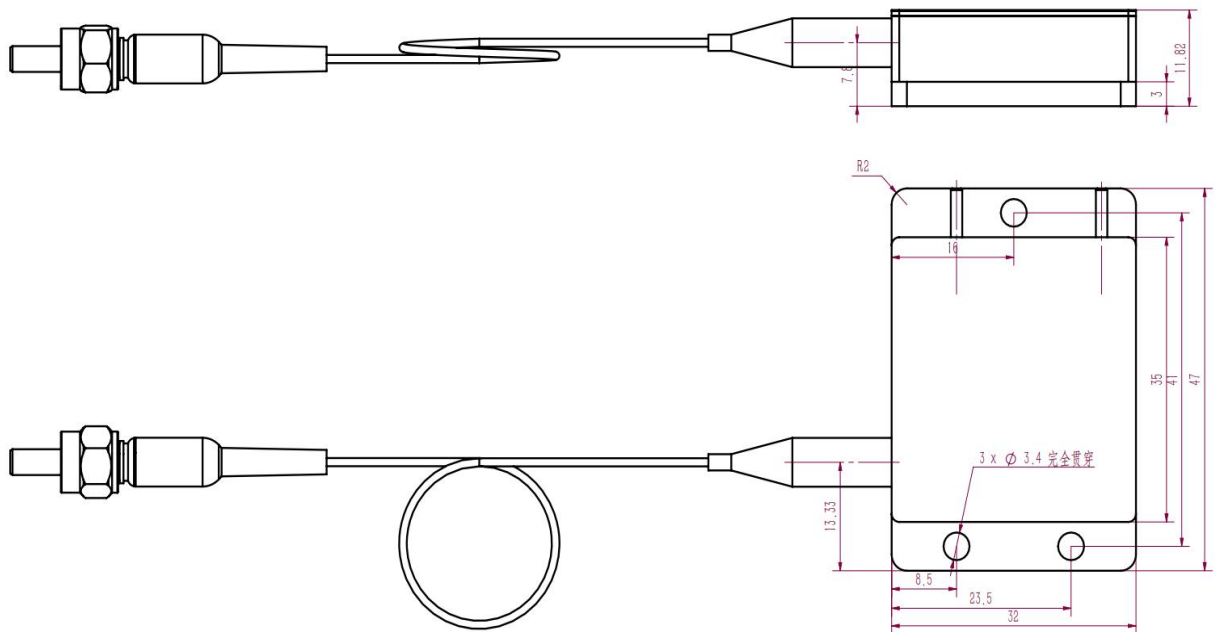
Technical Parameter @25°C Water Cooling

Optical Parameters	Units	Minimum	Typical	Maximum
Output Power 25°C	W	25		
Central Wavelength	nm	975.5	976	976.5
Spectra Width (FWHM)	nm			0.7
Wavelength Locking Range			70%-100% power	
95% Power NA	NA		0.12	0.13
Temperature Drift Coefficient	nm/°C		0.015	
Echo Isolation	nm		1030-1200	
Electric Parameters	Units	Minimum	Typical	Maximum

Electron-optical Efficiency	%	43		
Working Current	A		12	
Working Voltage	V		4.8	5.5

Fiber Parameters	Units	Minimum	Typical	Maximum
Fiber Core Diameter	μm		105	
Fiber NA			0.22	
Fiber Cladding Diameter	μm		125	
Fiber Length	m		1.5	Customized
Fiber Optic Sheath Diameter	mm		0.9	Customized
Terminal		Pigtail output/SMA 905/FC		

Layout Drawing



Note:

- 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.