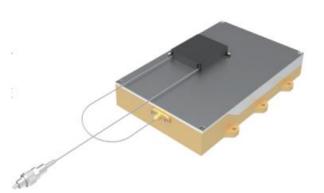


LMF-525D-C70-F200 Specification List

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

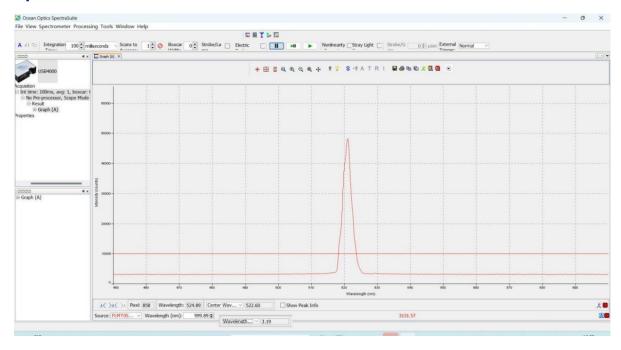
Optical Parameters	Units	Minimum	Typical	Maximum
Output Power	W	68	70	
Central Wavelength	nm		525±5	
Spectrum width (FWHM)	nm		10	
95% Energy NA	NA		0.22	
homogenization			85% (with lens)	
Electric Parameters	Units	Minimum	Typical	Maximum
Electro-optical efficiency	%	12		
Working Current	Α			2
Working Voltage	V		66V-82V	



(2 channels, each 33V-41V, can be connected in series)

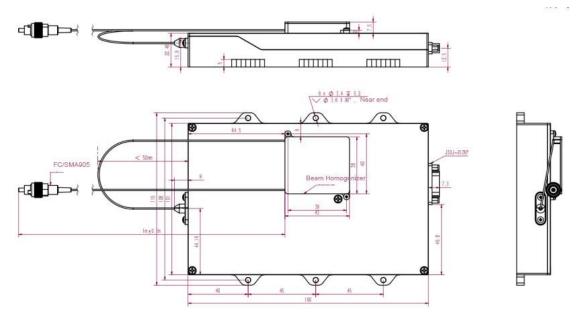
Fiber Parameters	Units	Minimum	Typical	Maximum		
Fiber core diameter	μm		200			
Fiber Cladding Diameter	μm		220			
Fiber NA			0.22			
Fiber Length	m		1±0.1	Customized		
Fiber Sheath Diameter	mm		0.9	Customized		
Fiber Connector	FC/SMA905 optional					
Other Parameters	Typical					
High and low temperature storage						
Structure Parameters	Units	Minimum	Typical	Maximum		
Dimension	mm		134×51×16.5			
Weight	g		1450			
Platform			B64			

Spectral Chart



Layout Drawing





Definition of Pins						
Model:	LMF-525/532D-C70-F200					
No.:	Definition		No.:	Definition		
P1, P2	Thermistor		P11, P12	Thermistor		
P3	LD1+		P13	LD5+		
P4	LD1-		P14	LD5-		
P5	LD2+		P15	LD6+		
P6	LD2-		P16	LD6-		
P7	LD3+		P17	LD7+		
P8	LD3-		P18	LD7-		
P9	LD4+		P19	LD8+		
P10	LD4-		P20	LD8-		

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.