

## 405nm/12W Space Coupling Fiber Laser Module

### LY405-12W-FF105 Specifications

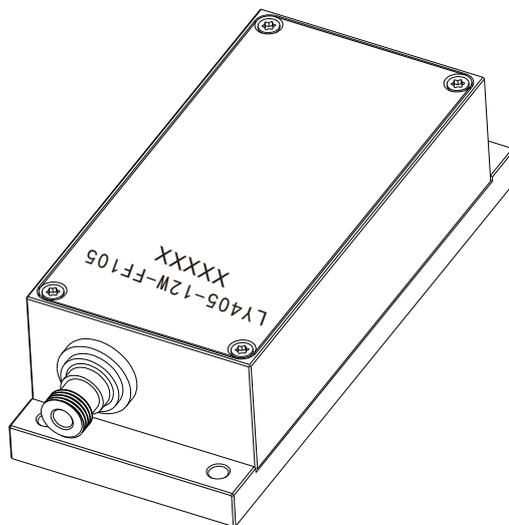
#### Features:

- Optical Power:12W(CW)
- Wavelength: 395-405nm
- Rated current: 1800mA(TYP.)
- Dimension: 71.55\*29\*20mm

#### Application Scenarios:

- Medical Analytics
- Fluorescence Excitation
- Material Processing
- Biochemical Research
- Criminal Investigation
- UV Exposure

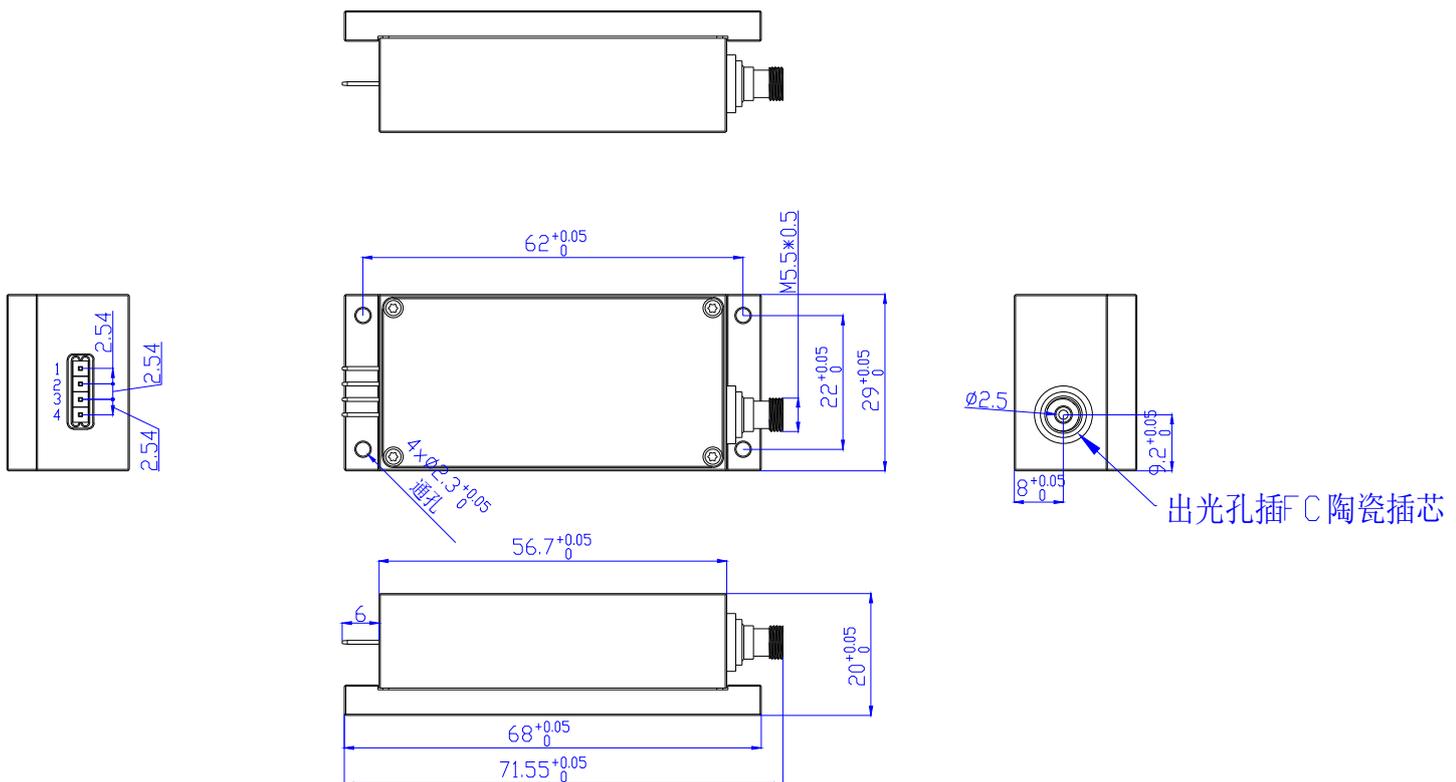
#### Outline



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Dimensions:



1/Laser (+)
2/Laser (-)
3/4/Thermistor

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#### Absolute Maximum Ratings (TC=25°C)

Item	Symbol	Ratings	Unit/Condition
Optical output power	PO	12	W
LD Reverse Voltage	VR(LD)	5	V
Operating Temperature	TOPR	17-25	°C
Working Humidity	RH	50%-70%	No condensation
Storage Temperature	TSTG	-40~+80	°C

#### Optical and Electrical Characteristics (Tc=25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Output power	PO	9.6	10.2	-	W	
Threshold current	I <sub>th</sub>	-	430	530	mA	
Working current	I <sub>op</sub>	-	1.8	2.2	A	
Working Voltage	V <sub>op</sub>	-	19	22	V	
Wavelength	λ	395	402	405	nm	
Coupling Efficiency	η	80	85	-	%	Fiber core diameter 105μm
Shell Polarity				0	+/-/0	No polarity

Note: The laser uses constant current driver.

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BU-LASER's special reminder: Please pay attention to electrostatic protection during transportation and use of laser products, and please do not exceed the maximum value in the application, so as to avoid the rapid aging of the laser.

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The laser will cause direct or indirect damage to the human body, especially the eyes. If you need to observe the laser, please use an ultraviolet camera to observe it.