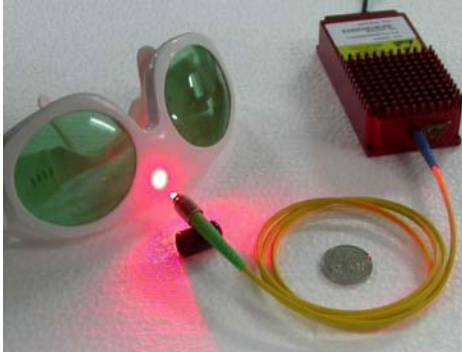


Fiber Coupled Laser Module



Key Features

- Plug & Play
- High power stability
- LD Current Full Protection
- LD Temperature Stabilized
- High Speed Modulation
- Low noise
- Excellent beam profile

Applications

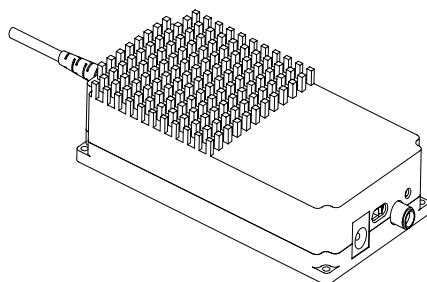
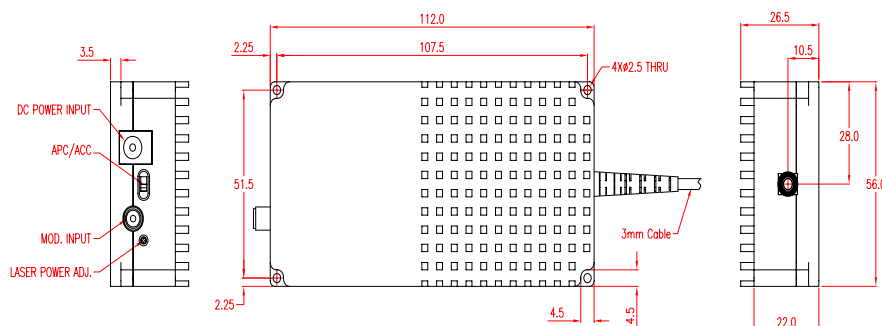
- Confocal Microscopy
- Biomedicine Research
- Inspection & Metrology
- Analytical Instruments
- Optics storage
- Basic R&D

The Fiber Output Laser Module is a temperature stabilized semiconductor laser coupled with SM or PM fiber. It integrated thermoelectric cooler, modulation, protection electronics in a compact package.

Module features very low M^2 value Gauss beam output with excellent beam pointing stability at a wide temperature dynamic range. The special designed electrical driver enable this optical engine has the lowest power consumptions compare to the similar product in the industry.

This component does not comply with the Federal Regulations (21 CFR Subchapter1) as administered by the Center for Devices and Radiological health. Purchaser acknowledges that his/her products must comply with these regulations before they can be sold to a customer. The output light from this product is harmful to a human body even if it is invisible. Avoid looking at the output of this product directly, or through a lens during operation. Observance of operation should be through a TV camera or related equipment. Refer to IEC 825-1 and 21 CFR 1040.10-1040.11 as a radiation safety standard for laser products.

Dimensions Diagram



NOTES: (UNLESS OTHERWISE SPECIFIED)

1. ALL DIMENSIONS ARE IN MILLIMETER.
2. MAT'L AND FINISH: AL6061,ANODIZED.
3. TOL: .X = ±0.2, .XX = ±0.1



Specifications

	Condition	Min	Typ	Max	Unit
Optical Performance					
Wavelength		375~2200			nm
Output Power	T=25 °C, CW	5~500			mW
Noise(RMS)	10 ~ 20MHz		0.1	0.3	%
Power stability	@25 °C, 8Hrs		1		%
Polarization Extinction Ratio	PM fiber coupled	15			dB
Collimated Beam Parameters					
M2				1.1	
Beam diameter	1/e2, SM	1.0, 2.0, 3.0, 4.0, 6.0			mm
Beam divergence	Full angle, SM			1	mrad
Pointing Stability	4hrs, T=25 °C, SM			5	urad
Fiber Information					
Length			1, 2, 3		m
Fiber type		PM / SM / MM			
Mode field diameter		3.0(SM, PM) / 62.5~600(MM)			um
NA		0.12(SM, PM) / 0.15~0.48(MM)			
Cable Diameter			3		mm
Connector		FC-PC / SMA(MM)			
Electrical Parameters					
Power supply			9		V
Power Consumption			3	10	W
Current(TEC)				2	A
Current(LD)				200	mA
Temperature Stability			0.2		°C
Control		ACC			
Power setting		0% ~ 100% output power			
Environmental Conditions					
Storage Temperature		0		50	°C
Operation Temperature		10		40	°C
Operation Humidity		Non condensing			
Dimensions		112mmX56mmX26.5mm			

*The mechanical tolerance should be +/-0.2mm on all package dimensions unless otherwise custom specified

Ordering Information

For more information on this product or other product, please contact your local account manager or Fiblaser directly at +86-21-59167946 or via E-mail at sales@fiblaser.com

