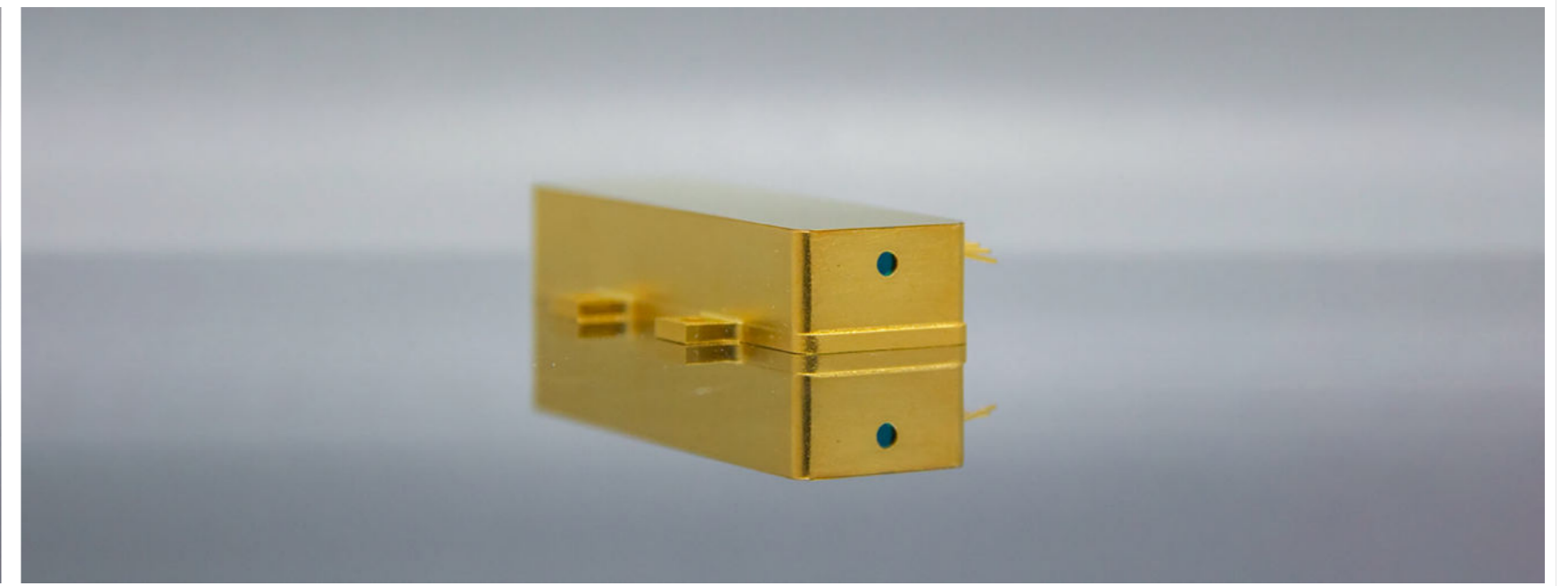
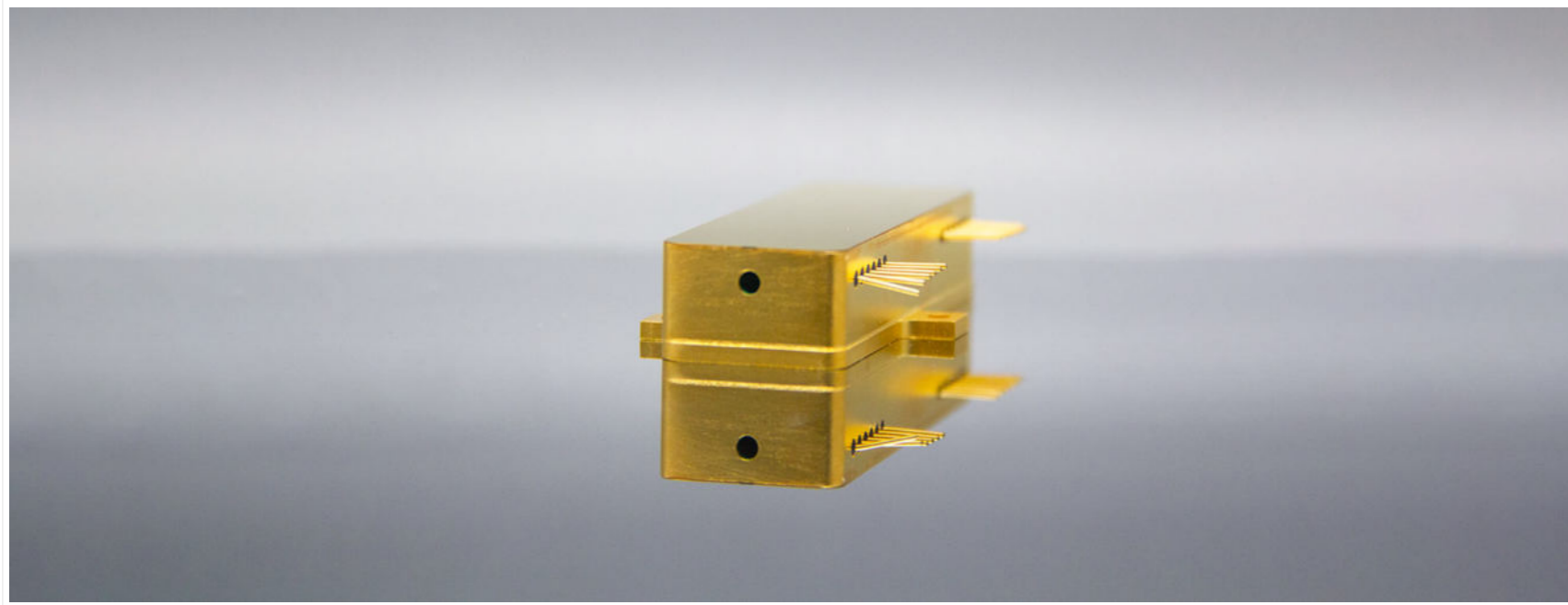


# 785nm Single Mode Narrow Linewidth Laser Module of NLS Series



## DESCRIPTION

Single mode narrow linewidth laser module is a special product of our company. It is equipped with standard I / O interface, which can be easily embedded into the user's whole system and realize very stable single mode narrow linewidth laser output. The product has built-in optimized optical feedback power stabilization module and Tec refrigeration module, which makes the product have good spectral characteristics and power stability characteristics. Customized and secondary development services can be provided according to customer requirements.

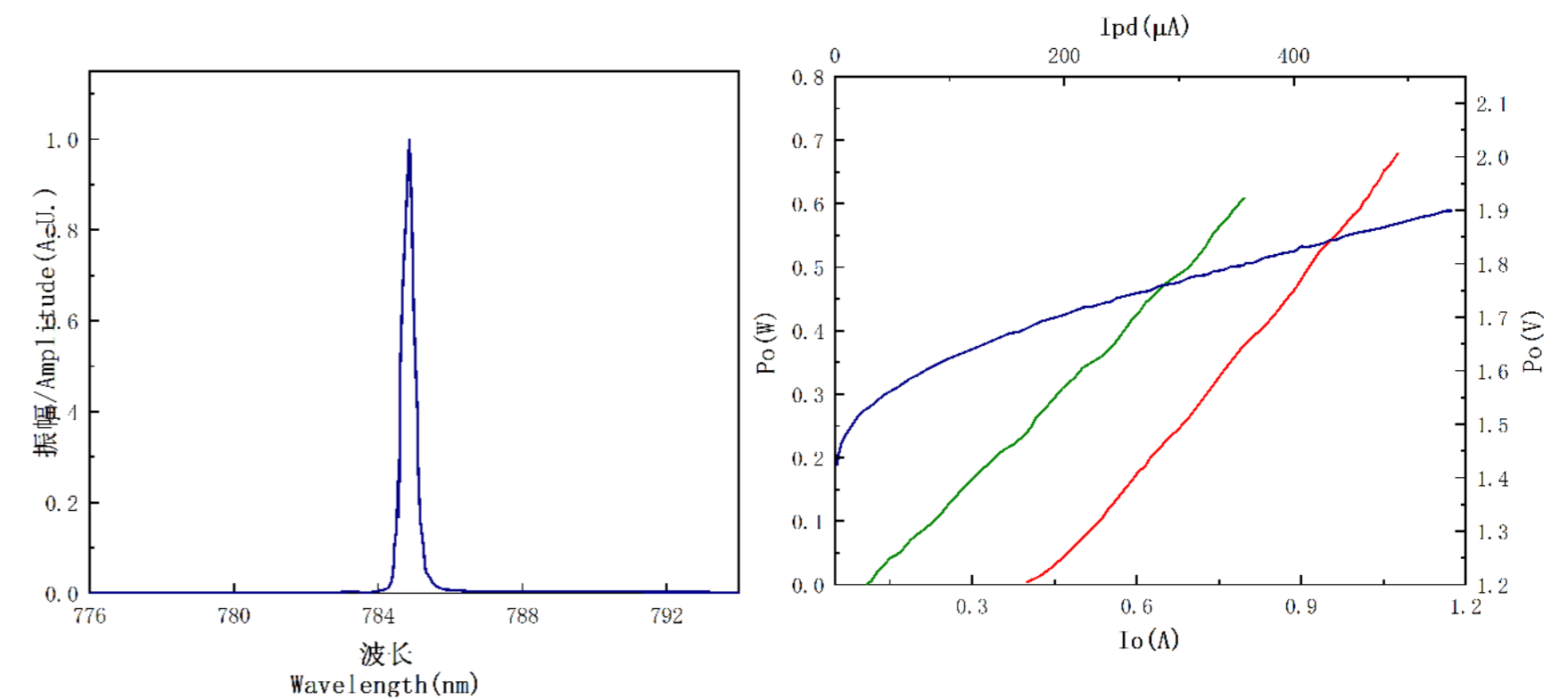
## APPLICATIONS

- Confocal microscope
- Raman spectrometer
- Fluorescence Spectrometer
- Up-conversion material
- Laser particle size analyzer

## FEATURES

- Wavelength stability  $\pm 0.005\text{nm} / ^\circ\text{C}$
- High power single mode fiber coupled output
- USB settings
- Low power consumption, typical power consumption <4W

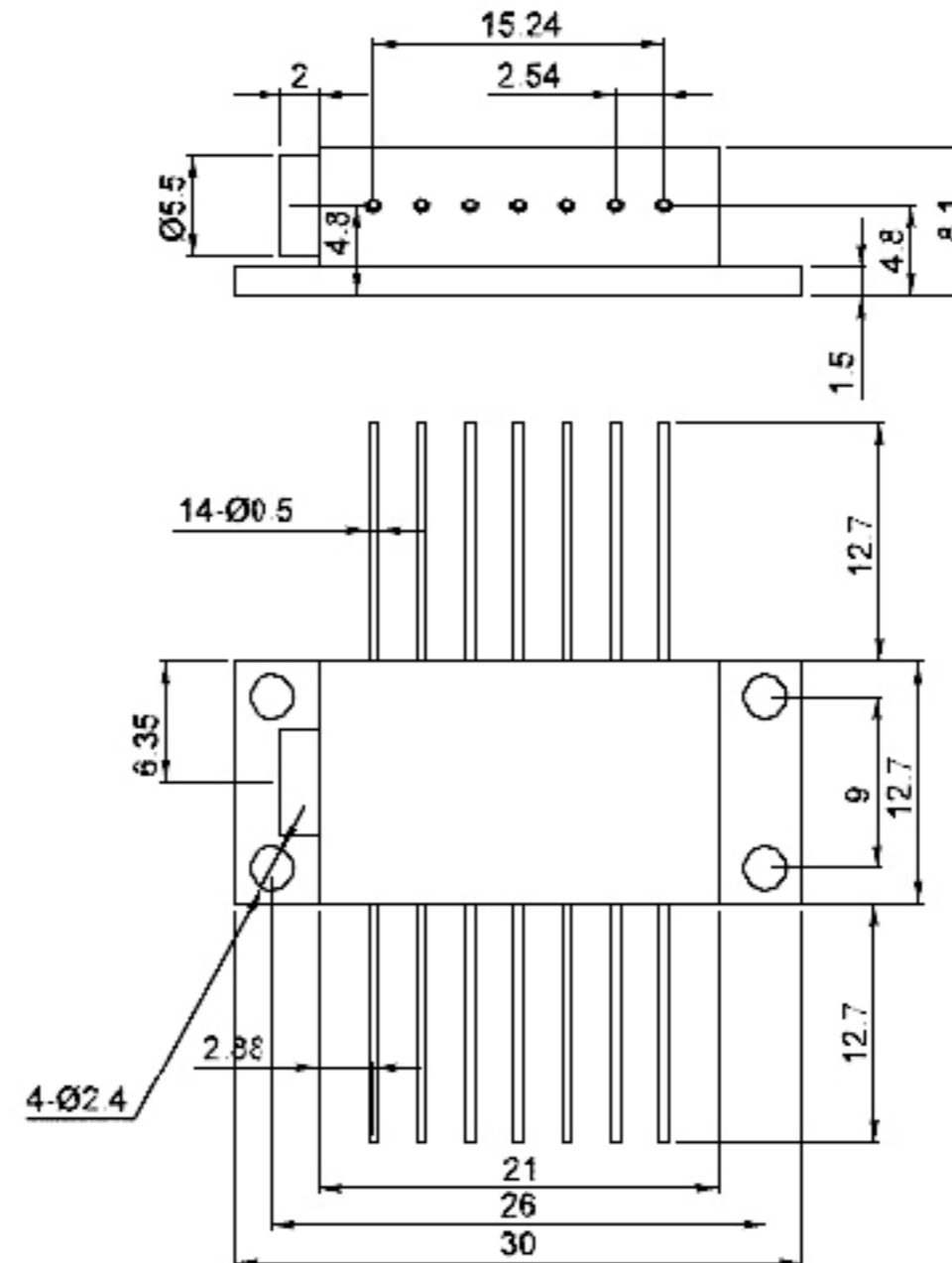
## CHARACTERISTICS OF 785nm 600mW SEMICONDUCTOR LASER (25°C)



## PARAMETERS

Model	CL785-SIF(FA)-50mW-NLS001
Central Wavelength (nm)	785
Output Power (mW)	50
Wavelength Tolerance (nm)	±0.5
Optical Parameter	
Line Width (nm)	<0.1
Wavelength Stability	±0.005nm@8H
Power Stability	±1.0%@8H
Side Mode Rejection Ratio (dB)	40
System Parameter	
Power Adjustment Range	0~100%
Preheat Time (min)	15
Control Interface	PH2.0-10P, USB
Fiber Interface	FC/APC
Adaptive Optical Fiber	5μm, 0.14NA
Power Input	4.9V-5.1V @2A
System Power Consumption (W)	<4
Storage Temperature (°C)	0~70
Storage Humidity	0~80%RH
Operating Temperature (°C)	10~35
System Weight (g)	150
Laser Power Size (mm)	76.2 x 63.5 x 22

## OUTLINE SIZE(mm)



Pin	Features	Pin	Features
1	Cooler (+)	8	--
2	Thermistor	9	--
3	PD(P)	10	Laser (+)
4	PD(N)	11	Laser (-)
5	Thermistor	12	--
6	--	13	Shell
7	--	14	Cooler (-)

