

Free Space DPSS Module



Key Features

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

Applications

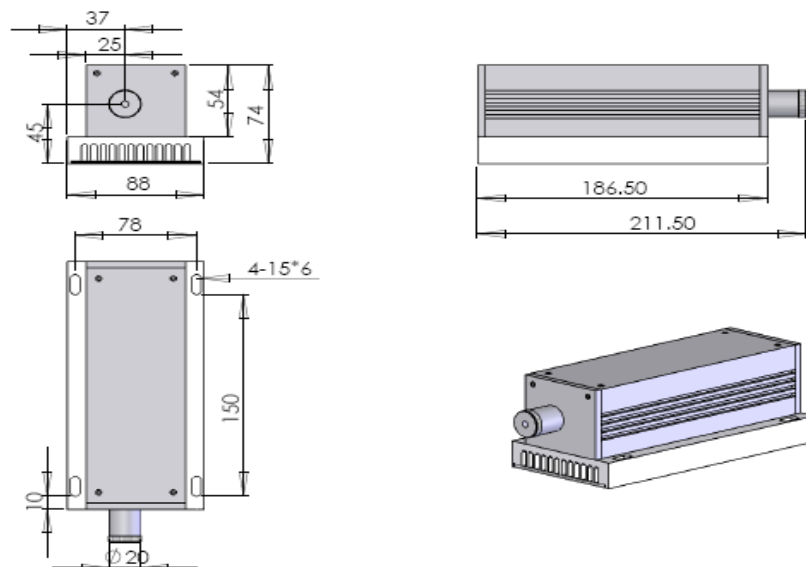
- Confocal Microscopy
- Biomedicine Research
- Inspection & Metrology
- Analytical Instruments
- Holography
- Basic R&D

The free space DPSS laser module is a temperature Diode-Pumped Solid-State laser. It integrated the thermoelectric cooler, modulation and 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



Specifications

Optical Performance	Condition	Min	Typ	Max	Unit
Wavelength (CW)	T=25 °C	Refer to wavelength list			nm
Output Power	T=25 °C	Refer to wavelength list			mW
Power stability	4hrs, T=25 °C		3	5	%
Transverse mode		Near TEM00			
Warm-up time (minutes)				15	Minutes
Collimated Beam Parameters					
M2				1.5	
Beam diameter	1/e2, SM		~1.5		mm
Beam divergence	full angle, SM			2	mrad
Electrical Parameters					
Modulation		30			KHz
Power supply		100		230	V
Temperature Stability			0.2		°C
Control		APC			
Environmental Conditions					
Storage Temperature		0		50	°C
Operation Temperature		10		35	°C
Operation Humidity	Non condensing				
Dimensions	186.5mmX88mmX74mm				

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

Wavelength List

Wavelength	Power(mW)	Wavelength	Power(mW)	Wavelength	Power(mW)
320nm	50,100,200	532nm	200,500,1000	589nm	50, 100,200
355nm	50,100,200	543nm	50,100,200	593nm	50, 100,200
360nm	50,100,200	550nm	50, 100,200	607nm	100,200
473nm	100,200	561nm	50, 100,200	671nm	100,200,500

Ordering Information

For more information of our products, please contact factory directly or your local distributor via E-mail or phone.

