

CMFS Series 532nm-640nm Laser Modules

With Rectangular Package, 90-264VAC, Output Power up to 100mW, Modulation up to 30kHz

Overview

The CMFS series laser module is available in the wavelength spectral range from 532nm to 640nm and output power levels up to 100mW. The high-power laser module is constructed with features of ultra-compact design in rectangular package, low cost, easy operation, long operating lifetime, 90-264VAC driver and TTL/Analog modulation up to 30kHz. The laser module is the ideal choice for being designed and integrated into OEM instruments and systems, and for end user applications in scientific research, medical treatment, and industrial development.

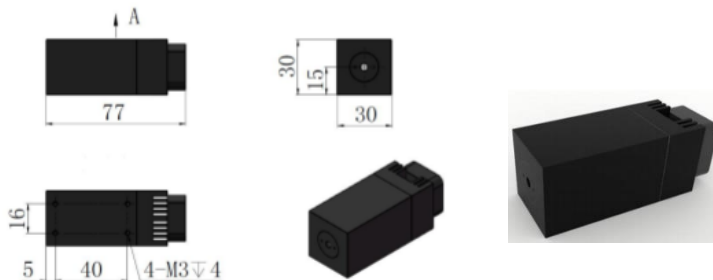


Specifications

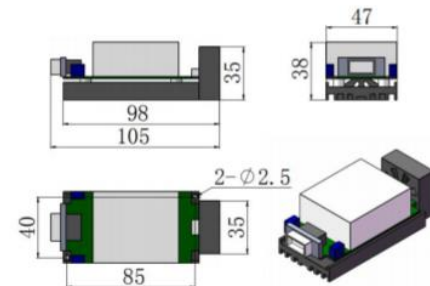
Model Number	CMFS532-XFVQ	CMFS637-XFVQ	CMFS640-XFVQ
Wavelength (nm)	532	637	640
Tolerance (nm)	±1	±5	±5
Output power (mW)	~50 (X=50)	~100 (X=100)	~100 (X=100)
Power stability (rms, over 4 hours)	<20%	<5%	<5%
Transverse mode	TEM ₀₀	Near TEM ₀₀	Near TEM ₀₀
Operating mode	CW	CW	CW
Beam diameter at aperture (1/e ² , mm)	~1.5	~3.5	~3.5
Beam divergence, full angle (mrad)	<1.2	<1.0	<1.0
Beam height from base plate (mm)	~15	15	15
Warm-up time (minutes)	<10	<10	<10
Operating temperature (°C)	10-35	10-35	10-35
Driver	90-264V AC	90-264V AC	90-264V AC
Modulation option	Yes	Yes	Yes
	If modulation option is available, please choose from the following: None (Q=blank) TTL: 1Hz-1kHz (Q=T1), TTL 1kHz-10kHz (Q=T2), TTL 10kHz-30kHz (Q=T3) Analog: 1Hz-1kHz (Q=A1), 1kHz-10kHz (Q=A2), 10kHz-30kHz (Q=A3)		
Expected lifetime (hours)	10000		
Dimensions of laser head (mm)	77(L) x 30(W) x 30(H)		
Weight of laser head (kg)	0.2		
Dimensions of driver (mm)	105(L) x 47(W) x 38(H)		
Weight of driver (kg)	0.2		
Warranty	10 months		

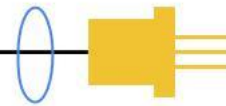
Outline Dimensions (unit: mm)

Laser Head



PCB Driver (90-264VAC)





Additional Notes

- The CMFS series laser modules are designated solely as OEM components for incorporation into the customer's end products. Therefore, it is the customer's responsibility to comply with the appropriate requirements of FDA 21CFR, section 1040.10 and 1040.11 for complete laser products. For the code of FDA regulations, please refer to [FDA Performance Standards for Light-Emitting Products](#) for detailed information.
- Additional heat sink may be needed if the laser module is operated continuously for a long period of time.
- Specifications are subject to change without notice.