



CMF Series 405nm-845nm Laser Modules

With USB, Controllable by PC, Changeable Lens, Output Power up to 80mW

Overview

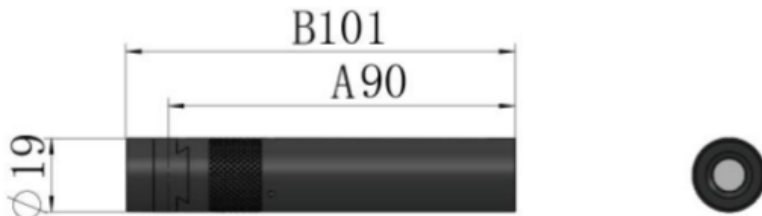
The CMF series laser module is available in the wavelength spectral range from 405nm to 845nm and with compact dimensions and output power levels up to 80mW. The portable laser module is constructed with features of small size, high stability, long operating lifetime, controllable by PC, and changeable lens. With its compact design, low cost and easy operation, 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	CMF405- XF5	CMF445- XF5	CMF450- XF5	CMF520- XF5	CMF635- XF5	CMF637- XF5	CMF685- XF5	CMF845- XF5
Wavelength (nm)	405	445	450	520	635	637	685	845
Tolerance (nm)	±5	±5	±5	±5	±5	±5	±10	±10
Output power (mW)	~80 (X=80)	~50 (X=50)	~80 (X=80)	~50 (X=50)	~20 (X=20)	~50 (X=50)	~50 (X=50)	~50 (X=50)
Operating mode	CW / PC Control							
Fan angle	10°, 15°, 30°, 45°, 50°, 60°, 75°, 90°							
Noise of amplitude (rms, 20Hz-20MHz)	<1%							
Modulation frequency (kHz)	0.1-50							
Pointing stability after warm-up (mrad/°C)	<0.05							
Warm-up time (minutes)	<5							
Operating temperature (°C)	10-35							
USB power supply	USB 5V±0.5V 1A							
Expected lifetime (hours)	5000							
Dimensions of laser module (mm)	Dia. 19							
Weight of laser head (kg)	0.2							
Warranty	5 months							

Outline Dimensions (unit: mm)



Additional Notes

- The CMF 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.

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