

CMH Series 405nm-1060nm Laser Modules

With Compact Dimensions, Output Power up to 1500mW

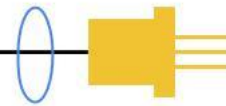
Overview

The CMH series laser module is available in the wavelength spectral range from 405nm to 1060nm and with compact dimensions and output power levels up to 1500mW. The high-power laser module is constructed with features of small size, high output power, and long operating lifetime. 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.



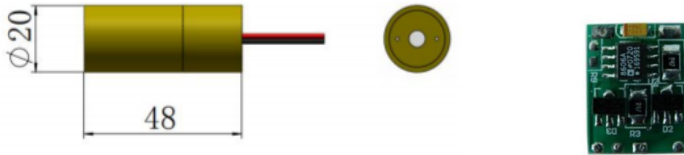
Specifications

Model Number	CMH405- XF6	CMH447- XF6	CMH450- XF6	CMH520- XF8	CMH532- XFYQ	CMH635- XF5Q	CMH808- XFYQ	CMH980- XFYQ	CMH1060- XFYQ
Wavelength (nm)	405	447	450	520	532	635	808	980	1060
Tolerance (nm)	±5	±10	±5	±5	±1	±5	±5	±10	±5
Output power (mW)	~200 (X=200)	~1000 (X=1W)	~50 (X=50)	~700 (X=700)	~200 (X=200) , ~500 (X=500)	~150 (X=150) , 300 (X=300)	~1500 (X=1H)	~1500 (X=1H)	~1500 (X=1H)
Transverse mode	Near TEM ₀₀	Multimode	Near TEM ₀₀	Multimode	TEM ₀₀	Multimode	Multimode	Multimode	Multimode
Operating mode	CW								
Beam diameter at aperture (1/e ² , mm)	~3.5	~2x4	~3.5	~2x4	~2.0	~5x8	~6.0	~6.0	~5x8
Beam divergence, full angle (mrad)	<0.5	<1.5	<1.0	~3.0x0.5	<1.5	<2.5	<5.0	<5.0	<3.0
Operating temperature (°C)	15-30								
Operating voltage (VDC)	6	6	6	8	3 (Y=3) or 5 (Y=5)	5	3 (Y=3) or 5 (Y=5)	3 (Y=3) or 5 (Y=5)	3 (Y=3) or 5 (Y=5)
TTL modulation option	No	No	No	No	Yes	Yes	Yes	Yes	Yes
	If TTL modulation option is available, please choose from the following: None (Q=blank); 1Hz-1kHz (Q=T1), 1kHz-10kHz (Q=T2)								
Expected lifetime (hours)	10000	10000	10000	10000	10000	10000	5000	10000	10000
Dimensions of PCB Driver (mm)	14 x 18 x 8 for 405nm / 447nm / 450nm / 520nm For Y=3: 14 x 18 x 6 for 532nm / 808nm / 980nm / 1060nm For Y=5: 56 x 47 x 30 for 532nm / 635nm / 808nm / 980nm / 1060nm								
Diameter Ø (mm)	20	20	20	20	20	20	20	20	20
Length (mm)	48	48	48	48	62	62	62	62	62
Weight (kg)	0.075	0.075	0.075	0.075	0.3	0.3	0.075	0.075	0.075
Warranty	5 months								
Remarks	For 405nm / 447nm / 450nm / 520nm / 635nm: The housing of laser module has non-polarity. For 532nm / 808nm / 980nm / 1060nm: The housing of laser module has positive electrodes.								



Outline Dimensions (unit: mm)

For 405nm / 447nm / 450nm / 520nm:



For 532nm:



For 635nm / 808nm / 980nm / 1060nm:



Additional Notes

- The CMH 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.