

MBL-K-457-Water 1-5W



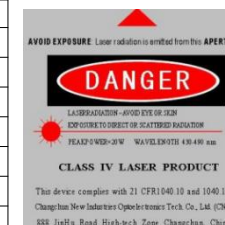
BLUE LASER AT 457nm

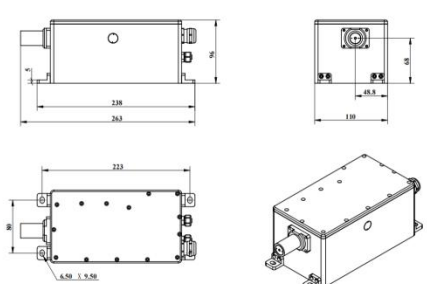
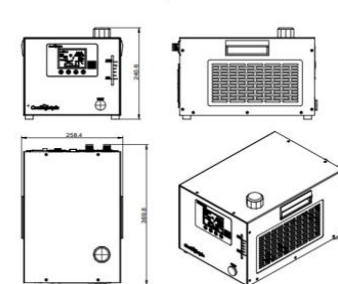
MBL-K DPSS laser for Ti:Sa pumping up to 5W, continuous output, TEM00 beam profile, high stabilized.



SPECIFICATIONS

Model	MBL-K-457-Water
Wavelength (nm)	457±1
Operating mode	CW
Output power (W) ¹	1-5
Power Stability (rms, 4 hours ± 3°C)	<3%, <2%, (<1% optional)
Transverse mode	TEM00
Spectral linewidth (nm)	<0.1
M ²	<1.1
Beam divergence, full angle (mrad)	~1.0
Beam diameter at the aperture (1/e ² , mm)	<2.5
Warm-up time (minutes)	<10
Pointing Stability (urad) (over 2 hours after warm-up and ±3°C)	<50
Pointing Stability Over Temperature (urad/°C)	<20
Polarization ratio	>50:1 (>100:1 optional), Horizontal (Vertical optional)
Beam height from base plate (mm)	68
Cooled method	Water cooled
Operating temperature (°C)	10-35
Power supply (100-240VAC)	PSU-W-LED
Modulation option	DC-1kHz, 1kHz-10kHz, 10kHz-30kHz optional; TTL and Analog optional
Expected lifetime (hours)	>10000



LASER HEAD	POWER SUPPLY	WATER CHILLER (WCH-580)
 263 (L) × 110 (W) × 96 (H) mm³, 4.2 kg	 301.5 (L) × 185 (W) × 114 (H) mm³, 3.0 kg	 369.8 (L) × 258.4 (W) × 240.6 (H) mm³, 10.5 kg

¹ Any power level can be selected in this range.

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