



MBL-III-xxx-AOM series

HIGH FREQUENCY MODULATED ALL-SOLID-STATE LASER

The high-frequency modulated laser system is well-suited for OEM integration and scientific research. Featuring a modulation rate of up to 1 MHz, it offers rapid modulation, a high extinction ratio, ease of coding, and user-friendly operation. Its primary applications include laser text and image processing, lithography, phototypesetting, and digital communication.



SPECIFICATIONS

Wavelength (nm)	473±1
Operating mode	CW
Output power (mW) ¹	1-50
Power stability (rms, 4 hours ±3°C)	<3%, <2%, <1%
Transverse mode	TEM ₀₀
M ²	<1.5
Beam diameter at the aperture (1/e ² , mm)	<1.0
Beam divergence (mrad)	<1.5
Polarization ratio	>100:1, Vertical (Horizontal optional)
Warm-up time (minutes)	<10
Pointing stability (μrad) (over 2 hours after warm-up and ±3°C)	<50
Beam height from base plate (mm)	24.8
Operating temperature (°C)	10-35
Modulation optional	DC-1MHz; TTL or Analog optional
Power supply (100-240VAC)	PSU-III-FDA-AOM
Expected lifetime (hours)	>10000



LASER HEAD	POWER SUPPLY ²
<p>194(L)×88(W) ×57(H) mm³, 1.6kg</p>	<p>290 (L) ×140(W) ×94 (H) mm³, 2.3kg</p>

1 Any power level can be selected in this range.

2 Fixed output power.