

Single Longitudinal Mode Laser

Specifications

Model Number	SLM-B457-2000-DB
Optical Specifications	
Wavelength	457 nm
Center Wavelength Deviation	+/- 1 nm
Output Power	500 ~ 2000 mW
M ²	< 1.3
Longitudinal Mode	Single
Transverse Mode	TEM00
Power Stability (over 4 hours) (rms)	< 5 % (optional: < 3%)
Operating Mode	CW
Polarization Ratio	> 100:1
Beam Diameter at the Aperture (1/e ²)	< 2.0 mm
Spectral Linewidth	< 0.00001 nm
Coherent Length	> 50 m
Noise of Amplitude (rms, 1Hz-20MHz)	< 0.5 %
Beam Divergence (Full Angle)	< 1.3 mrad
Warm-up time	< 12 minutes
Pointing Stability after Warm-up	< 0.05
Beam Height from Base Plate	56 mm
Working Temperature	20 to 30 ° C
Cooling Mode	Water Cooled
Estimated Lifetime (MTTF)	10000 hours
Warranty Time	1 year
Mechanical Specifications	
Dimension of Laser Head	386 (L) x 166 (W) x 88 (H) mm
Dimension of Power Supply	307 (L) x 168 (W) x 123 (H) mm
Water Chiller	280 (L) x 230 (W) x 380 (H) mm
Dimensional Tolerances	+/- 1 mm