HJ OPTRONICS

457 nm High Power Single Longitudinal Mode Blue Laser MSL-W-457

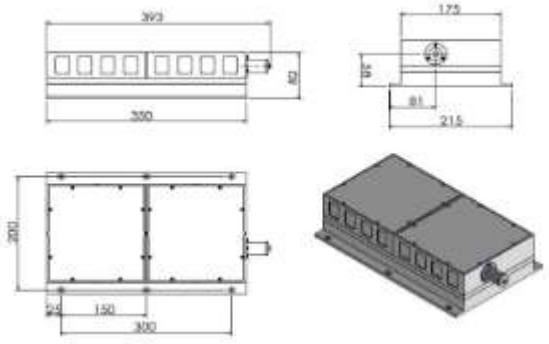
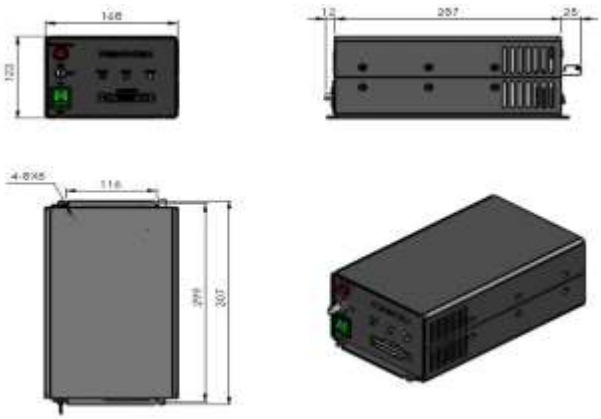
Model #: MSL-W-457

Description: 457 nm Single Longitudinal Mode Blue Laser. All solid state single longitudinal mode blue laser at 457 nm features ultra compact, long lifetime and easy operating.

Application: DNA sequencing, flow cytometry, cell sorting, optical instrument, spectrum analysis, interference, measurement, holography, physics experiment, etc.

Specifications

Wavelength (nm)	457±1
Output Power (mW)	>500, 600, ……, 2000
Transverse Mode	TEM_{00}
Operating Mode	CW
Power Stability (rms, over 4 hours)	<3%, <5%
Warm-up Time (minutes)	<10
M^2 Factor	<1.2
Beam Divergence, Full Angle (mrad)	<1. 5
Beam Diameter at the Aperture (mm)	<2. 0
Beam Height from Base Plate (mm)	27.4
Spectral Linewidth (nm)	<0.00001
Polarization Ratio	>100:1
Pointing Stability after Warm-up (mrad)	<0.05
Noise of Amplitude (rms, 20Hz~20MHz)	<0. 5%
Cooling Method	Water Cooling
Operating Temperature (C°)	20~30
Power Supply (90-264VAC or 5V DC)	PSU-W-FDA
Expected Lifetime (hours)	10000
Warranty Period	1 year

MSL-W-457 (Head)	Dimension (mm)
	
393 (L)×215 (W) ×82 (H), 5.7 kg	307 (L)×168 (W) ×123 (H), 4.5 kg

4055 Filan Way, San Jose, CA 95135, United States www.hjoptronicsinc.com
Tel: +1.408.528.7552 Fax: +1.408.889.8873 email: info@hjoptronicsinc.com

Water Cooler	
 482 (L) ×432(W) ×178 (H) mm^3, 2.3 kg	

Ordering Information: MSL-W-457-A-B

A: maximum output power	B: power stability
500 – 500 mW	3 – 3%
1000 - 1000 mW	5 – 5%
1500 – 1500 mW	
2000 – 2000 mW	

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