

457 nm LD Pumped All-Solid-State Blue Laser



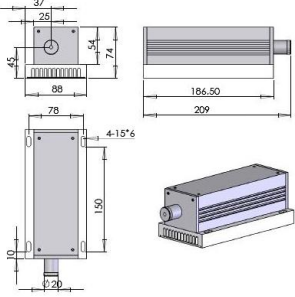
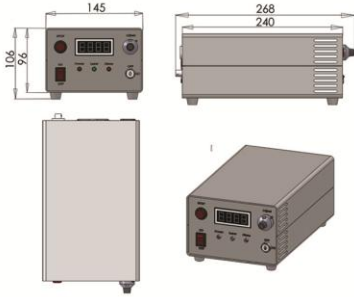


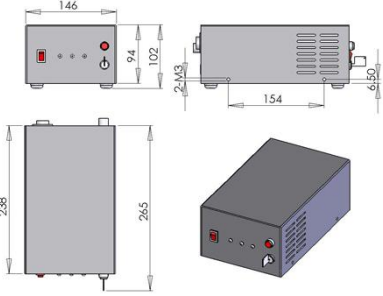
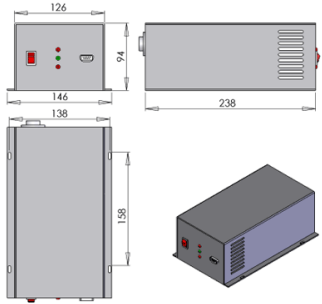
Model #: MBL-F-457

Description: 457 nm LD Pumped All-Solid-State Blue Laser. The all solid state single blue laser at 457 nm features ultra compact, long lifetime and easy operating.

Application: Fluorescence sensors, Raman spectrum, laser printing, holography, laser display, submarine communication, biomedicine, laser lighting show, etc.

Specifications

Wavelength (nm)	457±1	
Output Power (mW)	>1, 5, 10, . . , 300, 500	>500, 600, . . .,1000
Transverse Mode	Near TEM ₀₀	Near TEM ₀₁ (near TEM ₀₀ on request)
Operating Mode	CW	
Power Stability (rms, over 4 hours)	<1%, <3%, <5%, <10%	
Warm-up Time (minutes)	<10	
M ² Factor	<2.0	
Beam Divergence, Full Angle (mrad)	<1.5	
Beam Diameter at the Aperture (mm)	~3.0	
Beam Height from Base Plate (mm)	45	
Polarization Ratio	>100:1	
Pointing Stability after Warm-up (mrad)	<0.05	
Operating Temperature (C°)	15~35	
Power Supply (90-264VAC or 5V DC)	PSU-H-FDA , PSU-H-OEM or PSU-H-LED	
Modulation	TTL on/off (Optional: TTL or analog 1Hz-1KHz, 1KHz-10KHz, 10KHz-30KHz modulation)	
Expected Lifetime (hours)	10000	
Warranty Period	1 year	

<p style="text-align: center;">MBL-F-457</p>  <p style="text-align: center;">209(L)×88(W)×74(H) mm³, 1.6 kg</p>	<p style="text-align: center;">PSU-H-LED</p>  <p style="text-align: center;">268 (L) ×145(W) ×106 (H) mm³, 2.6 kg</p>
	
<p style="text-align: center;">PSU-H-FDA</p>  <p style="text-align: center;">238 (L) ×146(W) ×102 (H) mm³, 2.3 kg</p>	<p style="text-align: center;">PSU-H-OEM</p>  <p style="text-align: center;">238 (L) ×146(W) ×94 (H) mm³, 2.2 kg</p>
	

Ordering Information: MBL-F-457-A-B-C

A: maximum output power	B: power stability	C: power driver
10 - 1~ 10 mW	1 - 1%	1 - PSU-H-FDA
50 - 50 mW	3 - 3%	2 - PSU-H-OEM
100 - 100 mW	5 - 5%	3 - PSU-H-LED
300 - 300 mW	10 - 10%	
500 - 500 mW		
800 - 800 mW		
1000 - 1000 mW		