

532nm Green
Single Frequency Laser



SLM-G532-100-PL

Applications

- Laser Printing
- Spectroscopy
- Cell Sorting
- DNA Sequencing
- Wafer Inspection
- Particle Counting

Features

Ultra Compact

Low Noise

Excellent Power Stability

Long Lifetime

Model Number	SLM-G532-100-PL
Optical Specifications	
Wavelength	532 ± 0.5nm
Full Spectral Linewidth	≤ 300KHz
Residual longitudinal mode	> 60dB
Output Power	≥ 100mW
Power Stability (rms, over 8 hours)	< 1%
Beam specifications	
Beam Mode Quality	M ² < 1.1
Beam Mode Transverse	TEM ₀₀
Beam Mode Longitude	Single
Beam Diameter	1 ± 0.2mm
Beam Divergence [1/e ²]	< 1mrad
Beam Symmetry	> 0.8:1
Beam Position Accuracy (X-Y)	< ± 0.5mm
Beam Pointing Stability	< 10urad/°C

532nm Green Single Frequency Laser



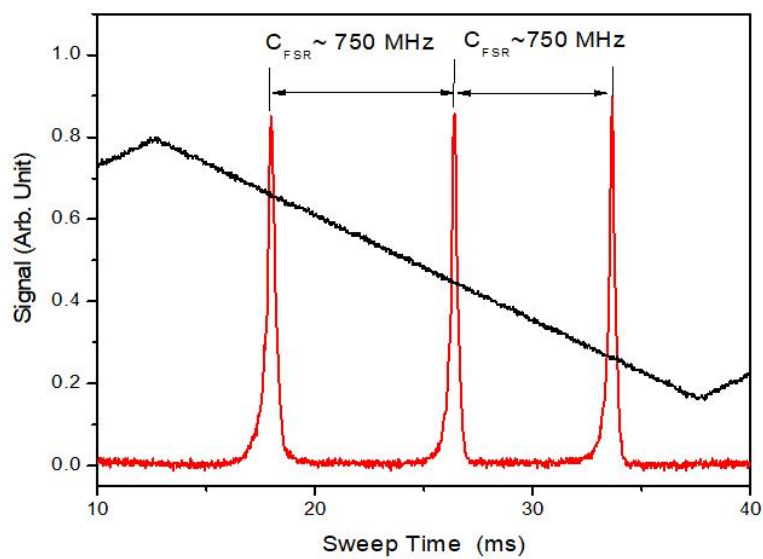
Reliability	
Wavelength Stability, Long Term	< 0.01nm
Power Noise 0.01Hz - 20 MHz	< 0.05%@%rms
Polarization Ratio	> 100:1 linear
Residual IR Emission	< 0.1mW
Ambient Operating Humidity	0 to 90% RH non-condensing
Operating Temperature	-10 - 35°C
Heatsink Operating Temperature	-10 - 35°C
Storage Temperature	-30 - 60°C
Warranty	1 year (unlimited hours)
Expected Lifetime	20,000 hours
Cooling Method	Air Cooled
Warm up Time	< 30minutes
Control Specifications	
Input Power	AC 110 / 220 V
Output Current	0-3 A
Current Accuracy	10^{-3} A
Current Noise	10^{-5} A
Temperature Accuracy	± 0.05 °C
Power Consumption	< 50W steady state

532nm Green Single Frequency Laser

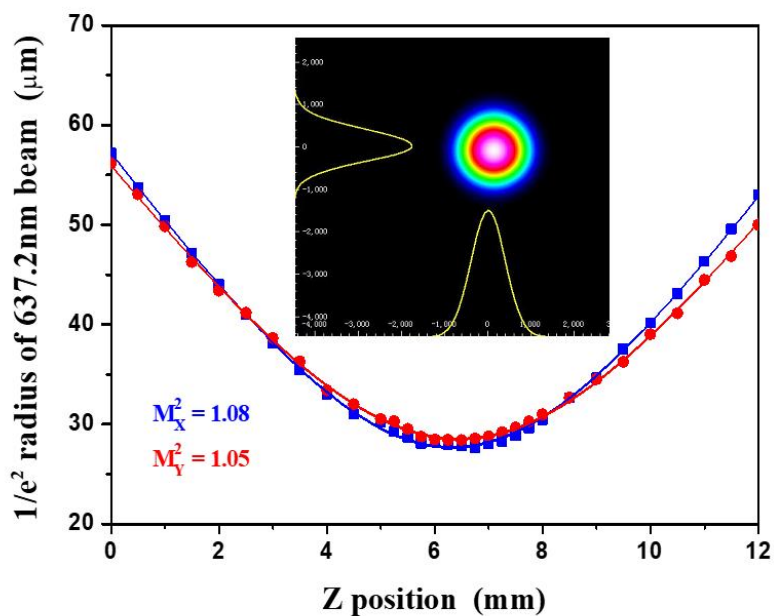


Graphs

Longitudinal Mode (example):



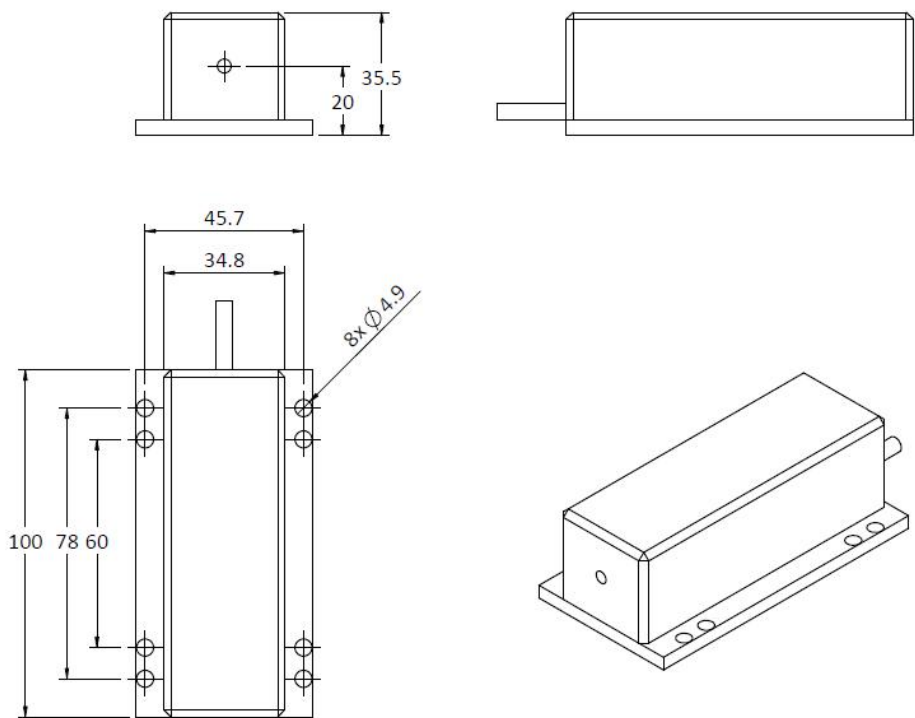
Transverse Mode and M2 (example):



**532nm Green
Single Frequency Laser**



Drawing



Dimensions in mm