

1122 nm Single Longitudinal Mode All-Solid-State Infrared Laser MSL-FN-1122



Model #: MSL-FM-1122 (1 – 100 mW)

Description: Single longitudinal mode 1122 nm LD Pumped All-Solid-State infrared Laser. The laser features ultra-compact, long lifetime, easy operating and affordability.

Application: Test and measurement, scientific experiment, spectral analysis, communications, and optical sensor etc.

Specifications

Model	MSL-FN-1122
Wavelength (nm)	1122±3
Output Power (mW)	>1, 5, 10, 50, ...100
Transverse Mode	TEM ₀₀
Operating Mode	CW
Longitudinal Mode	Single
Power Stability (rms, over 4 hours)	<1%, <2%, <3%
M ² Factor	<1.2
Amplitude Noise (rms, 1Hz – 20MHz)	<1%
Beam Divergence, Full Angle (mrad)	<1.2
Polarization Extinction Ratio	>100:1, vertical+/-5 degree (horizontal optional)
Beam Diameter at the Aperture (1/e ² , mm)	~2.0
Beam Height from Base Plate (mm)	24.8
Warm-up Time (minutes)	<10
Pointing Stability after Warm-up (mrad)	<0.05
Operating Temperature (C°)	10 ~ 35
Power Supply (90-264VAC)	PSU-III-FDA
Expected Lifetime (hours)	10,000
Warranty Period	1 year

Note: The laser head needs to be placed on a heat sink with good heat dissipation

Ordering Information: MSL-FN-1122-A-B-C

A: maximum output power	B: optical power stability	C: power supply
30 – 30 mW	1 – 1%	1 - PSU-H-FDA
50 - 50 mW	2 – 2%	
100 – 100 mW	3 – 3%	
X - other		

