

Request for Proposal (RFP) for Intensity Stabilized Laser with Fiber Port Adapter

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1	Intensity Stabilized Laser with Fiber Port Adapter	2

Technical specifications of the component

1. Intensity Stabilized Laser

Laser Type	He-Ne Laser
Wavelength	632.991 nm
Beam Diameter (FWHM)	≤0.7mm
Beam Divergence (FWHM)	≤ 1.4mrad
Mode Structure	TEM ₀₀ >99%
Polarization	Linear >1000:1
Stabilized Power	>1.2mW
Unstabilized Power	1.2mW to 2.7mW
Beam Drift during warm up	<0.2mrad
Long term beam drift	<0.02mrad
Stabilization Time	~1 Hour post warm up
Noise (30Hz to 10MHz)	<1% rms (Max)
Intensity Stabilized Mode	
Intensity Stability	
1 Min	±0.1%
1 Hour	±0.2%
8 Hours	±0.3%
Frequency Stabilized Mode	
Frequency Stability	
1 Min	± 1 MHz
1 Hour	± 2 MHz
8 Hour	± 3 MHz
General	
Temperature Range to maintain lock operation	15 ⁰ C -30 ⁰ C
Time to lock	<15 min
Power Input	AC Universal
Lifetime	25000H
Fiber Port Adapter	
Diameter	1.74"

Bolt Pattern to attach to FiberPort	4 bolts on 1”cneter
Bolt Pattern to attach to Laser Body	4-40 and M3 cap screws

Should conform to IIIA/3R CDRH/CE Classification

Scope of the item:

The component mentioned in this RFP will be used for laboratory experiments related to VELC payload.

Eligibility criteria of vendor:

The vendor must have knowledge, experience and infrastructure for the design and fabrication of optical elements.

Expected deliverables:

As mentioned in "**Table of Contents**" along with conformance certificates for specifications mentioned in "**Technical specifications of the components**"

Expected Time Schedule

6 - 8 weeks

For any information/clarifications contact the following

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