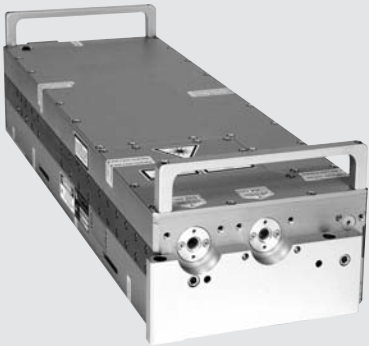


PLECTER

Quasi-CW Industrial Picosecond Laser (80 MHz)

Features

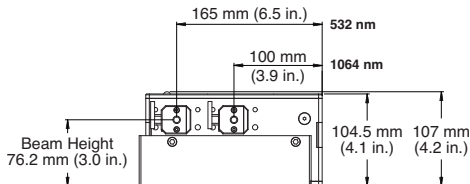
- Compact, long life 80 MHz oscillator and power amplifier
- Custom configurations to choose from:
 - 10W at 1064 nm
 - 5W at 532 nm
- Very high beam quality $M^2 < 1.2$
- Excellent pulse energy and beam pointing stability
- Actively stabilized SHG output power
- Field replaceable pump diodes in laser head
- Compact form factor
- Ideally suited for pumping in non-linear optics applications and Raman spectroscopy



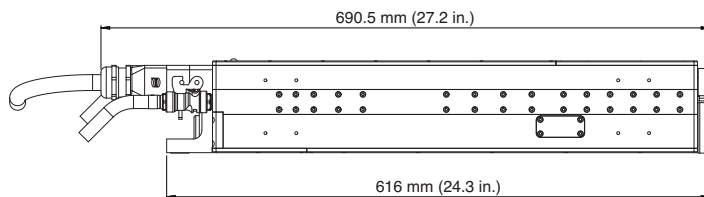
Mechanical Specifications

Laser Head

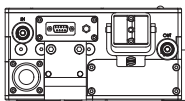
Front View



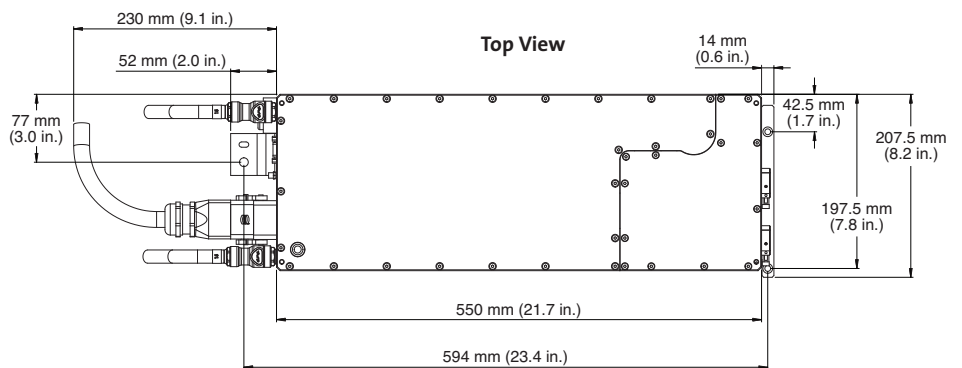
Side View



Rear View (without cables and tubes)



Top View



Superior Reliability & Performance

PLECTER

Quasi-CW Industrial Picosecond Laser (80 MHz)

System Specifications

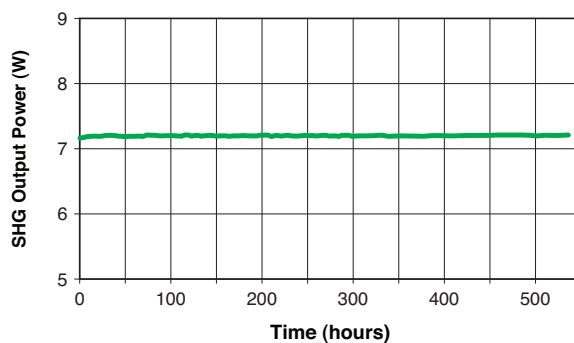
	PLECTER 1064	PLECTER 532
Max. Average Power (W)	10	5
Wavelength (nm)	1064	532
Repetition Rate (MHz)	80	
Spatial Mode	TEM ₀₀ (M ² <1.2)	
Pulse Duration (ps)	8	7
Pulse-to-Pulse Energy Stability (% rms)	<0.5	<1
Average Power Stability over 8 hours (% rms)	<0.5	<1
Polarization Ratio	>>100:1	
Beam Divergence, Full Angle (mrad)	<2	
Beam Circularity (%)	>85	
Beam-Pointing Stability (μrad/°C)	<50	
Beam Diameter (at bezel)(mm)	1.5 ±0.2	1.2 ±0.2
Bore-Sight Accuracy	±0.5 mm and <5 mrad	
Umbilical Length (m)	2.8	
Electric Supply, 19" Rack	10 to 230 VAC/50 to 60 Hz/400W	
Warm-Up Time (minutes)	20; 45 from cold start	
Dimensions (W x L x H)		
Laser Head	208 x 657 x 108 mm (8.2 x 25.9 x 4.25 in.)	
Control Unit ¹	485 x 470 x 89 mm (19.1 x 18.5 x 3.5 in.)	
Chiller ²	485 x 500 x 134 mm (19.1 x 19.7 x 5.3 in.)	
Weight		
Laser Head	20 kg (44 lbs.)	
Control Unit	10 kg (23 lbs.)	
Chiller	22 kg (49 lbs.)	
Power Consumption (W)		
Control Unit	Max. 400	
Chiller ³	Powered internally	

¹ The control unit matches the size of a 2U 19" slot and can be integrated into customer systems.

² The chiller matches the size of a 3U 19" slot and can be integrated into customer systems.

³ The chiller generates 600W of warm air (heat load).

Activeley Stabilized SHG Output over 500 hours



Coherent follows a policy of continuous product improvement. Specifications are subject to change without notice.

Coherent offers a limited warranty for all PLECTER lasers. For full details of this warranty coverage, please refer to the Service section at www.Coherent.com or contact your local Sales or Service Representative.



www.Coherent.com

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