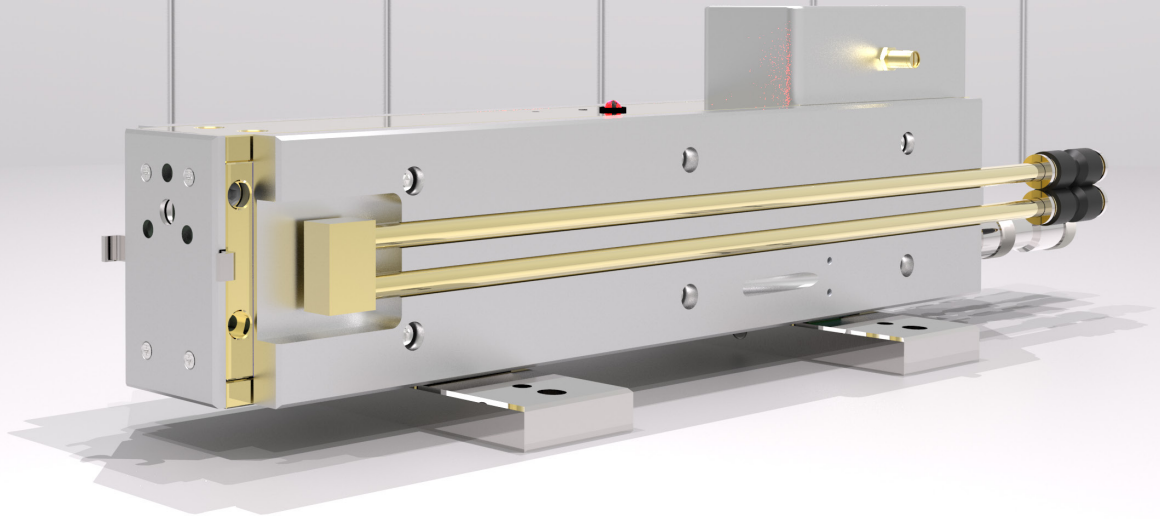


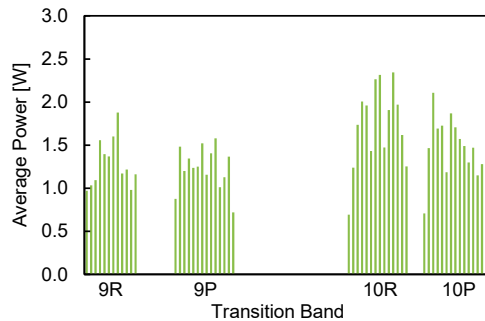
L5-GS-WCCL



Laser Power

Wavelength	9.2 - 10.8 μm
CW Power	1 W
Power Stability	$\pm 3\%$
Duty Cycle	0 - 100 %
Pulse Repetition Frequency	0 - 100 kHz
Rise and Fall Time	200 μs
Peak Power	1 W

Typical performance:



Dimensions & Weight

Laser Weight	9.5 lbs
Dimensions L x W x H	15.4 x 2.5 x 3.7 in
RF Driver Weight	1 lbs

Beam Characteristics

Beam Waist Diameter	2.4 mm
Waist Location	Output Coupler
Mode Quality	$M^2 \leq 1.2$
Full Divergence Angle	5.5 mrad
Polarization	$\geq 50:1$ Linear Vertical

Heat & Cooling

Heat Dissipation	≤ 150 W
Cooling Requirement	Water Cooled Closed Loop
Working Temperature	5 - 40 $^{\circ}\text{C}$
Min Flow Rate	1.0 LPM (0.26 GPM)
Recommended Flow Rate	2.0 LPM (0.53 GPM)
Max Pressure	2.8 bar (40 psi)
Required Chiller Stability	± 0.1 $^{\circ}\text{C}$
Storage Temp Range	5 - 50 $^{\circ}\text{C}$

DC Power Requirements

Laser RF Driver	28 V
Temperature Controller	12 V

Notes

Power Stability calculated by: $\pm \frac{P_{max} - P_{min}}{P_{max} + P_{min}}$

Beam specifications measured at: $\frac{1}{e^2}$

Average or pulsed power may exceed listed value. All specifications are measured at the strongest line and are subject to change without notice. Stability measured after 45 minute warm-up to allow laser head to reach thermal equilibrium.



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