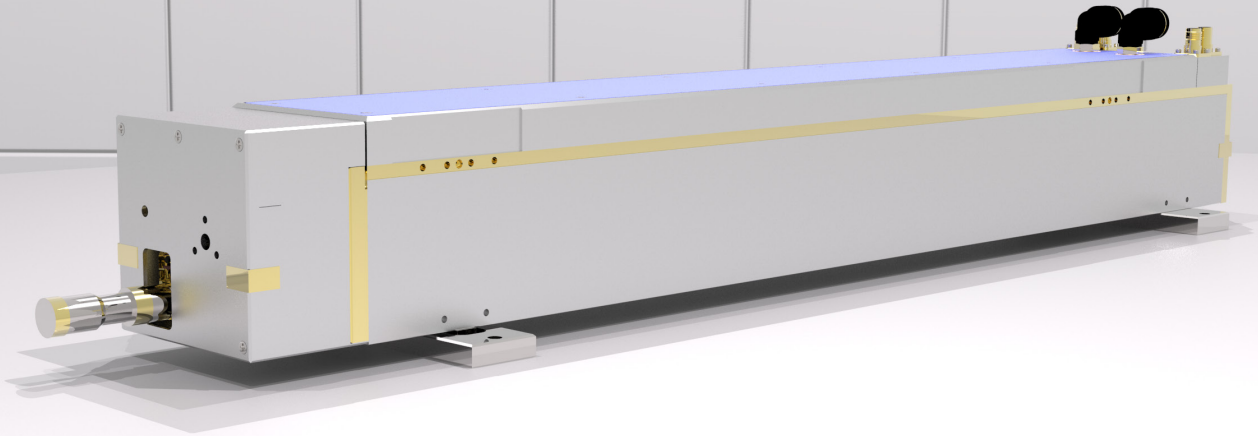


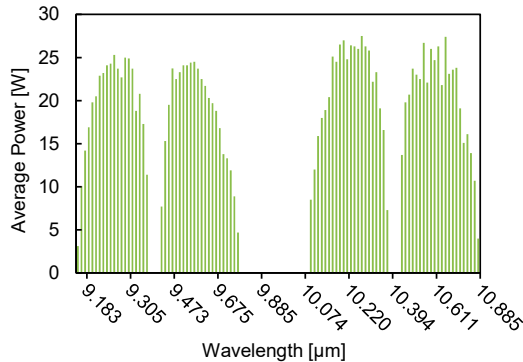
AL50-GS-WCCL



Laser Power

Wavelength	9.2 - 10.8 μm
CW Power	25 W
Power Stability	$\pm 2\%$
Duty Cycle	0 - 100 %
Pulse Repetition Frequency	0 - 100 kHz
Rise and Fall Time	200 μs
Peak Power	25 W

Typical performance:



Dimensions & Weight

Laser Weight	33.8 lbs
Dimensions L x W x H	28.8 x 3.9 x 5.0 in
RF Driver Weight	11.5 lbs

Beam Characteristics

Beam Waist Diameter	2.4 mm
Waist Location	Output Coupler
Mode Quality	$M^2 \leq 1.1$
Full Divergence Angle	5.5 mrad
Polarization	$\geq 50:1$ Linear Vertical

Heat & Cooling

Heat Dissipation	≤ 600 W
Cooling Requirement	Water Cooled Closed Loop
Working Temperature	5 - 40 $^{\circ}\text{C}$
Min Flow Rate	3.8 LPM (1 GPM)
Recommended Flow Rate	9.5 LPM (2.5 GPM)
Max Pressure	10 bar (150 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
-----------------	------

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. Guaranteed minimum of 60 lines over the 9R, 9P, 10R, 10P bands. Stability measured after 45 minute warm-up to allow laser head to reach thermal equilibrium.

