

AL20-G-WC



Laser Power

Wavelength	9.2 - 10.8 μm
CW Power	8 W
Peak Power	8 W
Power Stability	$\pm 5\%$

Pulse Width Modulation Parameters

Duty Cycle	0-100 %
Pulse Repetition Frequency	0-100 kHz

Dimensions & Weight

Laser Weight	20.5 lbs
Dimensions L x W x H	25.1 x 3.9 x 4.8 inch
RF Driver Weight	7.0 lbs

Water Cooling

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	$\pm 0.1^\circ\text{C}$
Storage Temp Range	5-50 $^\circ\text{C}$

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
Rise and Fall time	200 μs
Polarization	$\geq 100:1$ Linear Vertical

DC Power Requirements

RF Driver	28 V
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Heat & Cooling

Heat Dissipation	$\leq 600\text{W}$
Cooling Requirement	Water Cooled
Working Temperature	5 $^\circ\text{C}$ to 40 $^\circ\text{C}$

Notes

Power Stability calculated in CW at thermal equilibrium

$$+ \frac{P_{max} - P_{min}}{P_{max} + P_{min}}$$

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

Average power may exceed listed value. All specifications are measured at the strongest line and are subject to change without notice. Guarantee for minimum of 50 lines over the 9R, 9P, 10R, 10P bands. All specifications are measured at the strongest line and are subject to change without notice.



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