

L3-S-FCCL

Access Laser's L3-S is the power stabilized variant of our 400mW product offerings with a guaranteed power stability starting at $\pm 2\%$. This RF excited sealed tube CO2 laser is well suited for various high performance applications such as spectroscopy. Providing a reliable and cost effective platform for OEM's and researchers alike.

Dimensions & Weight

Laser Weight ³	2.1 lbs
Dimensions (L x W x H, inch)	7.5 x 2 x 2.5
RF Driver Weight	1 lbs



Specifications

Laser Power

Wavelength (μm)	10.3 to 10.7	Supply Voltage	12VDC 20W Regulated
CW Power (W)	0.4	Electronic PWM Parameters	Frequency up to 100KHz, Duty Cycle 0-100%
Peak Power (W)⁴	0.4		
Power Stability¹	$\pm 2\%$		

DC Power Requirements

Beam Characteristics

Beam Waist Diameter (mm)	2.4	Heat Dissipation	< 100W
Waist Location	Output Coupler	Cooling Requirement²	Fan Cooled Closed Loop
Mode Quality (M^2)⁴	<1.1	Working Temperature ($^{\circ}\text{C}$)	5 to 40
Full Div. Angle (mrad)	5.5		

Heat & Cooling

Optical Parameters

Polarization	Randomly Oriented Linear
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<p>Notes</p> <p>¹Power Stability is based on $\pm (P_{\text{max}} - P_{\text{min}}) / (2 * P_{\text{max}})$ at constant duty cycle after thermal equilibrium</p> <p>²Water Cooled Closed Loop available for $\pm 2\%$ stability</p> <p>³Laser weight is for water cooled model</p> <p>⁴Beam specifications measured at $1/e^2$</p> <p>Average power may exceed listed value. All measured specs are at $10.59\mu\text{m} / 10P20$.</p>	<p>Water Cooling</p> <p>Min Flow Rate: 3.8 LPM (1 GPM)</p> <p>Recommended Flow Rate: 9.5 LPM (2.5 GPM)</p> <p>Max Pressure: 10 BAR (150 PSI)</p> <p>Storage Temperature Range: 5-50$^{\circ}$ C</p>	<p>Options Available</p> <p>Real Time Power Monitoring</p> <p>Stabilization to $\pm 1\%$ with Line Tracker</p> <p>Isotope Gas Fills</p> <p>10.6μm standard 9.3μm available</p>
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All are specifications are subject to change without notice.