

Stabilized, Gratingless Tuned, Medium Power CO₂ Laser

Model L20S Specifications

Model	L20S	L20SP
Wavelength (µm)	10.55 - 10.63	10.55 - 10.63
CW Power (W)	20	12 (average)
Peak Power (W)	20	50
Power Stabilty	±2%	±2%
Mode Quality (M ²)	< 1.1	< 1.1
Beam Waist Diameter	2.4 mm	2.4 mm
Waist Location	Output Coupler	Output Coupler
Full Div. Angle	5.5 mrad	5.5 mrad
Polarization	Horizontal	Horizontal
Rise Time (µs)	200	100
Fall Time (µs)	200	100
Supply Voltage (DC)	28V 500W	48V 500W
Electronic PWM Parameters	Any frequency up to 100 kHz, duty cycle 0-100%	Any frequency up to 100 kHz, duty cycle 0-25%, pulse length to 0.4 ms
Cooling Requirement ¹	Water Cooled	Water Cooled
Working Temperature	5-40° C	5-40°
Dimensions (LxWxH, inch)	30x3x3.8	30x3x3.8



L20SD
L20D has features of both L20S and
L20SP when the appropriate DC power

¹500W Chiller Stability ±0.1° C Flow Rate 0.5 GPM

supply is used.

Factory warranty: One year for parts and labor due to manufacturing quality, regardless of laser usage

Options available:

- 5.5um with CO gas fill (L20CO)
- Stabilization to ±1% with Line Tracker

• Isotope gas fill

* Includes RF driver & laser controller

- * Specifications subject to change without notice.
- We strive to satisfy custom requirements. Please contact us if you have other special needs.

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