

# L15D FC



### Laser Power

Wavelength	10.6 $\mu\text{m}$
CW Power	15 W
Power Stability	$\pm 15\%$
Duty Cycle	0 - 100 % (SP*): 0 - 30 %
Pulse Repetition Frequency	0 - 100 kHz
Rise and Fall Time	$\leq 200 \mu\text{s}$ (SP: 100 $\mu\text{s}$ )
Peak Power	15 W (SP: 40 W)

Typical performance in Super Pulse (SP) mode:



### Dimensions & Weight

Laser Weight	15 lbs
Dimensions L x W x H	20 x 5 x 4 in
RF Driver Weight	2.5 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	Random, Linear

### Heat & Cooling

Heat Dissipation	$\leq 300 \text{ W}$
Cooling Requirement	Fan Cooled
Working Temperature	5 - 40 $^{\circ}\text{C}$ (non-condensing)
Storage Temp. Range	5 - 50 $^{\circ}\text{C}$ (non-condensing)

### DC Power Requirements

Laser RF Driver (U   I)	36 V (SP: 48 V)   8.5 A (SP: 6 A)
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### Notes

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

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

\* SP: Super pulse mode. 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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