



nLIGHT's 1064 nm DPSS Microlaser M30 provides a high reliability laser module for a wide range of material processing applications. Designed to be pumped by nLIGHT's patented Pearl™ or element™ high-brightness diodes, the Microlaser M30 is engineered to provide a low-cost laser solution to system integrators while maintaining quality and reliability and delivering proven performance in a compact package.

The passively Q-switched Microlaser delivers industry leading high peak power and excellent beam quality in a design created for long-term performance within the rigors of industrial settings. The Microlaser has been specifically designed with low-cost marking systems in mind, providing integration simplicity and maintenance-free operation.

Features

- High peak power
- Compact package
- Easy integration
- High efficiency allows air cooling

Applications

- Marking
- Engraving

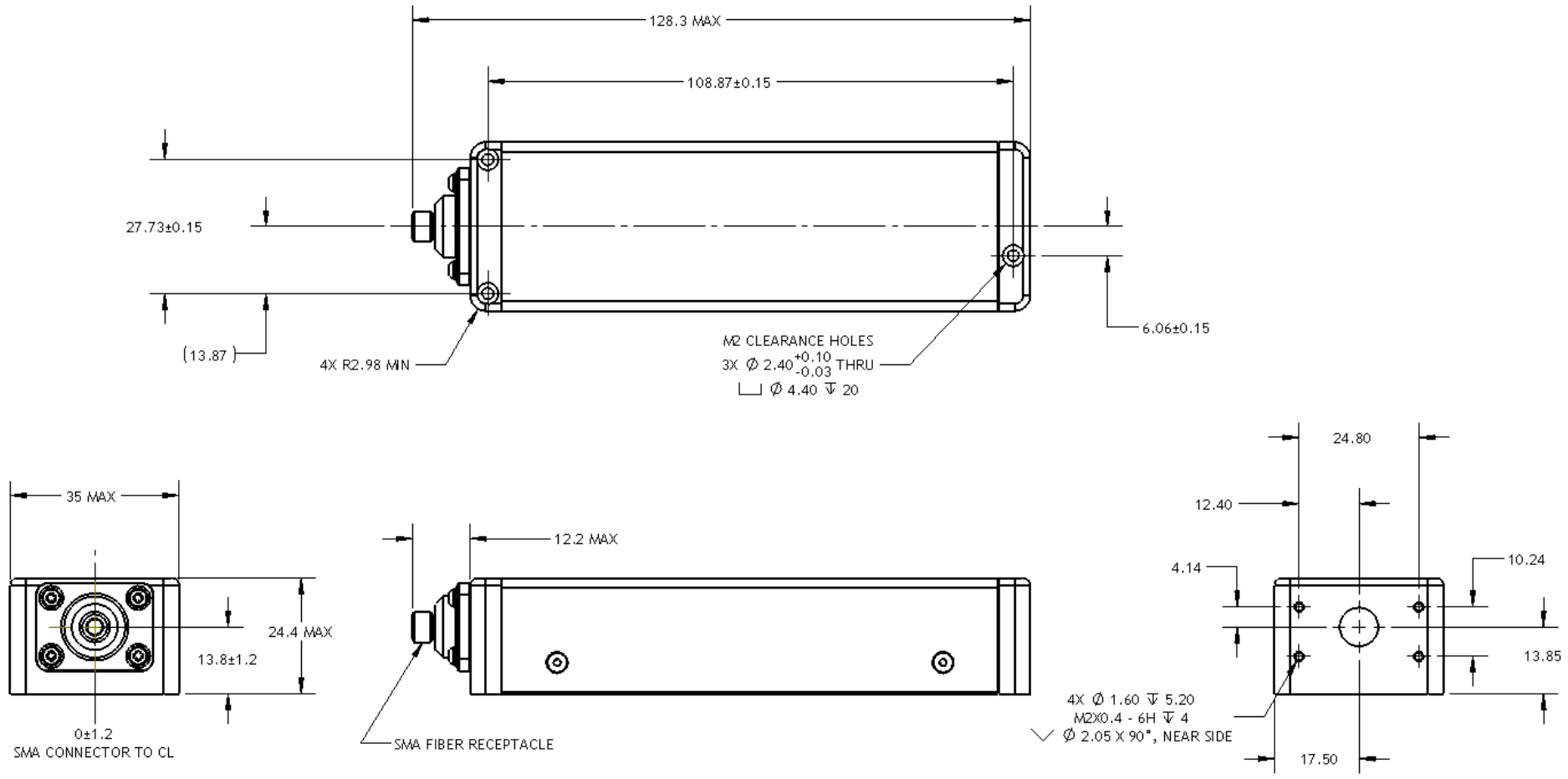
Proven Performance

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Laser Specifications

Optical ¹	Units	Lower Spec	Typical	Upper Spec
Wavelength	nm		1064	
M ²	x DL	1.0	1.6	2.3
Waist Radius (d4 σ)	μ m	180	260	340
Divergence (d4 σ half-angle)	mrad	6.7	7.7	8.7
Beam pointing	mrad			25
Laser Pulse¹				
Mode of operation			Pulsed	
Polarization			Random	
Average power, Max	W			5.5
Peak power	kW	25	35	53
Power stability, 8 hr	%			10
Conversion efficiency	%	19		
Pulse width (FWHM)	ns	4.5	5	5.5
Pulse Repetition Frequency	kHz	23	31	40
Timing jitter	μ s			10
Laser fire delay	μ s		110	
Environmental & Mechanical				
Operating temperature (Microlaser base) ²	°C	+10		+60
Storage temperature ²	°C	-20		+60
Weight	g		181	
Dimensions	mm	128 X 35 X 24		
¹ All parameters at 5.5W				
² Non-condensing environment				

Package Dimensions



Proven Performance