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MIR-Pac 2.94µm
1 Watt Laser Module

System Specifications		Units
WAVELENGTH	2.94	µm
CW OUTPUT POWER	1	W
SPATIAL MODE	TEM_{00}	
WAVELENGTH STABILITY	<1	cm^{-1}
FWHM (50%)	<2.0	mm
BEAM DIVERGENCE	<20	mrad
POINTING STABILITY	<±5	% of Beam Divergence
NOISE (10Hz to 100kHz)	<1.0	%(rms)
LONG-TERM POWER STABILITY	<±2.0	% over 8 hours
WARM UP TIME	<5	minutes
BANDWIDTH	<0.5	cm^{-1}
POLARIZATION RATIO	Random	
STATIC ALIGNMENT TOLERANCE		
BEAM POSITION	±0.5	mm
BEAM ANGLE	±5	mrad
Utility and Environmental Requirements		
AMBIENT OPERATING TEMP.RANGE	15-40	°C
POWER DISSIPATION FROM THE LASER HEAD	<100	W
LASER HEAD AND HEATSINK TEMP. FOR CONDUCTIVE COOLING	0-45	°C
NON-OPERATING STORAGE TEMP.	-10-65	°C
Dimensions		
LASER HEAD (L X W X H)	114 x 52 x 38 (4.5 x 2.05 x 1.5)	mm (inches)
WEIGHT OF LASER HEAD	0.82 (1.8)	kg (lb)

Sheaumann Laser, Inc., 45 Bartlett Street, Marlborough, MA 01752 USA 508-970-0600,

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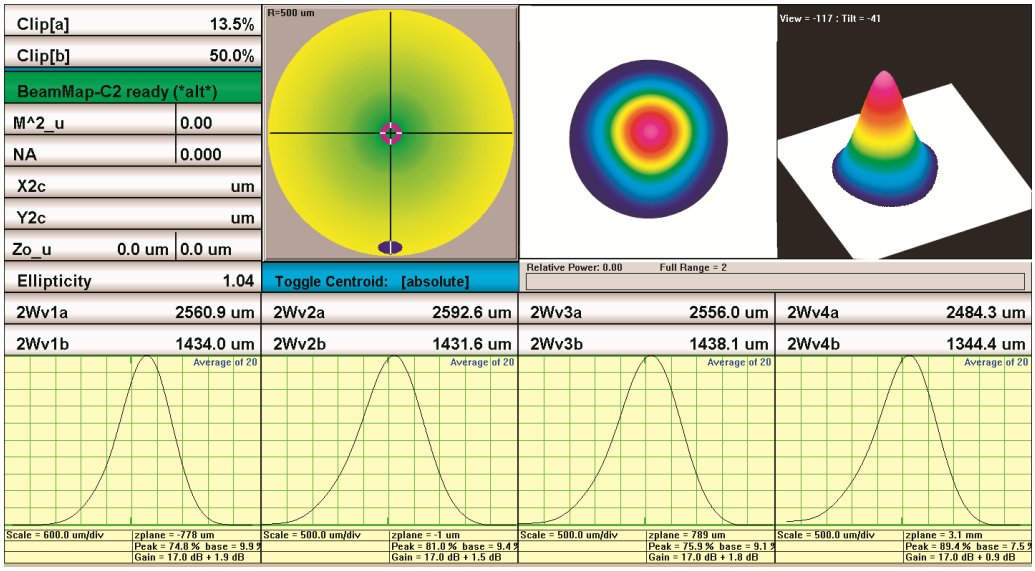

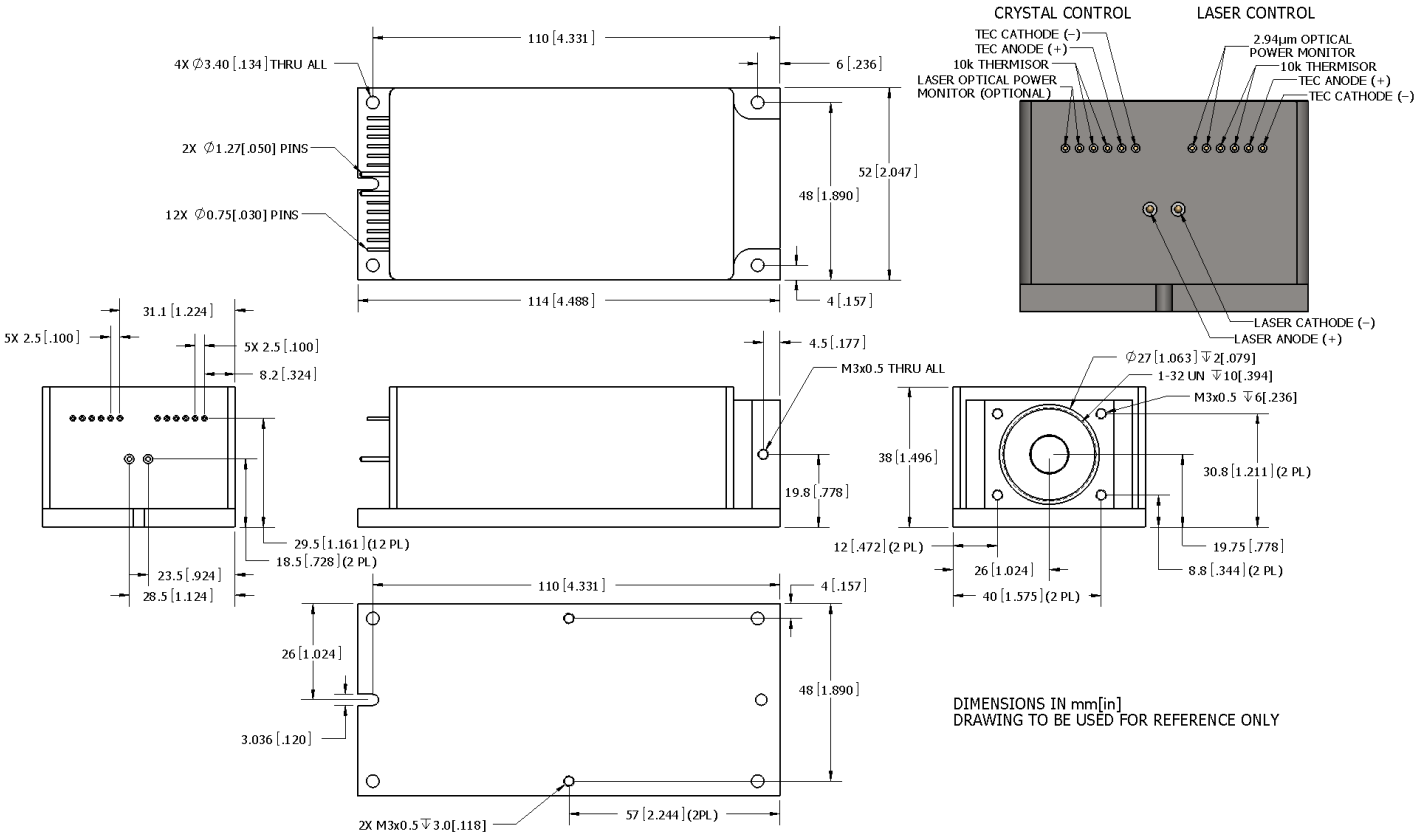

DIMENSIONS IN mm[in]
DRAWING TO BE USED FOR REFERENCE ONLY

System Integration & Thermal Management

The Sheaumann MIR-Pac 2.94µm laser is a modular component sold for use in OEM equipment. The OEM is responsible for compliance with all applicable regulations.

Thermal management of the MIR-Pac 2.94µm must be included in the OEM design. There is no warranty on failures caused by inadequate thermal management. To assure proper cooling, the base plate of the MIR-Pac 2.94µm laser head must be attached to a heat sink.

For assistance in thermal management and other system integration issues, please contact our sales department at 1-508-970-0600.

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Sheaumann follows a policy of continuous product improvement. Specifications are subject to change without notice.

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