

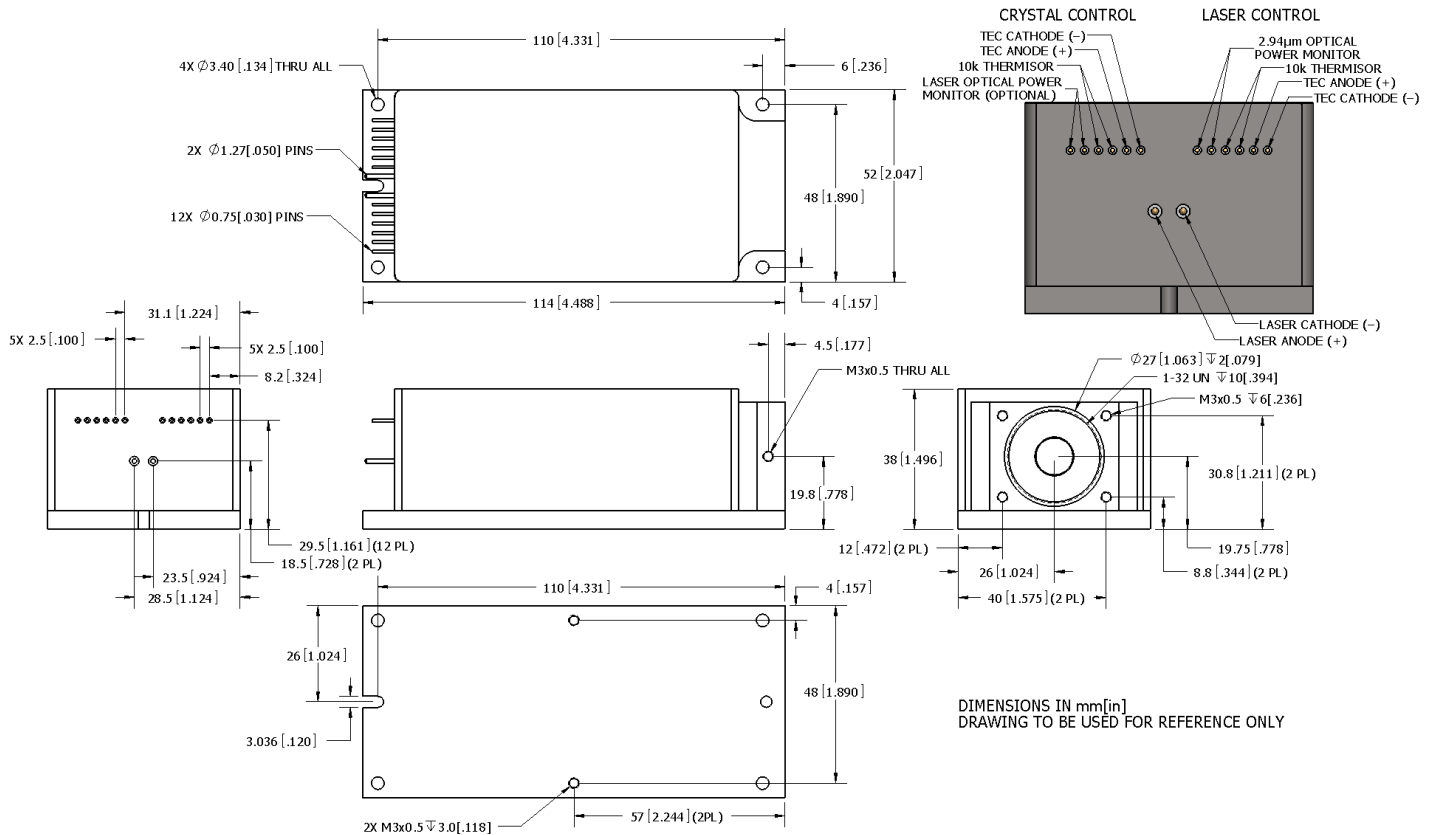
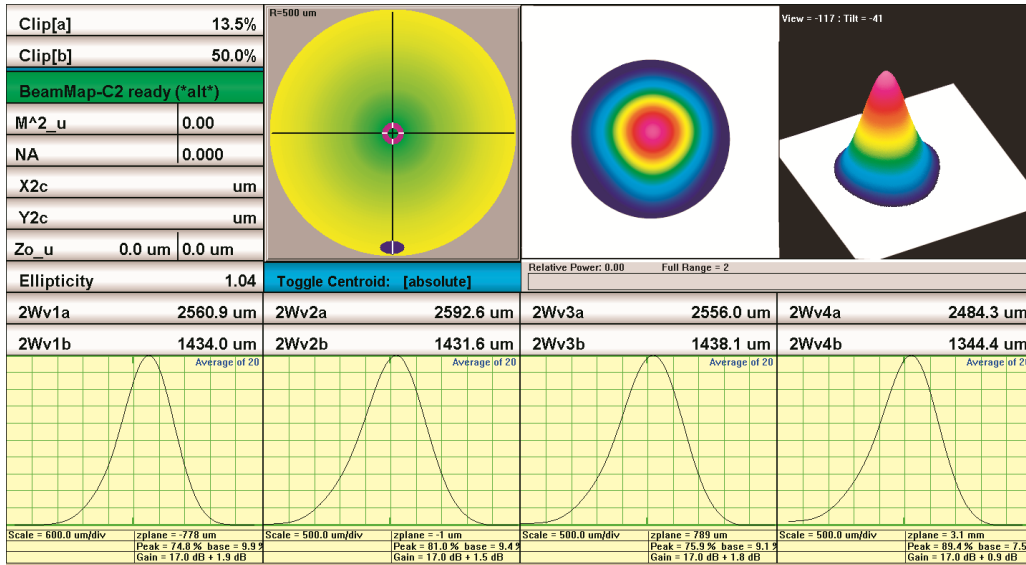
SHEAUMANN

MIR-Pac 2.94 μ m 1W Fiber Coupled Laser Module



System Specifications		Units
WAVELENGTH	2.94	μ m
CW OUTPUT POWER	1	W
SPATIAL MODE	TEM ₀₀	
WAVELENGTH STABILITY	<1	cm ⁻¹
Fiber Diameter		
Core	450 μ m \pm 5%	
Clad	500 μ m \pm 5%	
NOISE (10Hz to 100kHz)	<1.0	%(rms)
LONG-TERM POWER STABILITY	< \pm 2.0	% over 8 hours
WARM UP TIME	<5	minutes
BANDWIDTH	<0.5	cm ⁻¹
POLARIZATION RATIO	Random	
Bulk Trans.	0.5 kb/m or better @ 2.94 μ m	
NA of fiber core	.22-.32	
Max Acceptance Angle NA	0.25	NA
Min Bend Radius	75mm	mm
Utility and Environmental Requirements		
AMBIENT OPERATING TEMP.RANGE	15-40	$^{\circ}$ C
POWER DISSIPATION FROM THE LASER HEAD	<100	W
LASER HEAD AND HEATSINK TEMP. FOR CONDUCTIVE COOLING	0-45	$^{\circ}$ C
NON-OPERATING STORAGE TEMP.	10-65	$^{\circ}$ 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)

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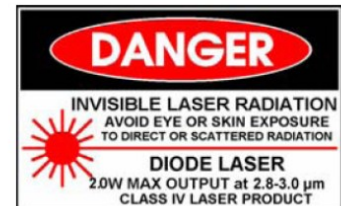


System Integration & Thermal Management

The Sheumann 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.



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