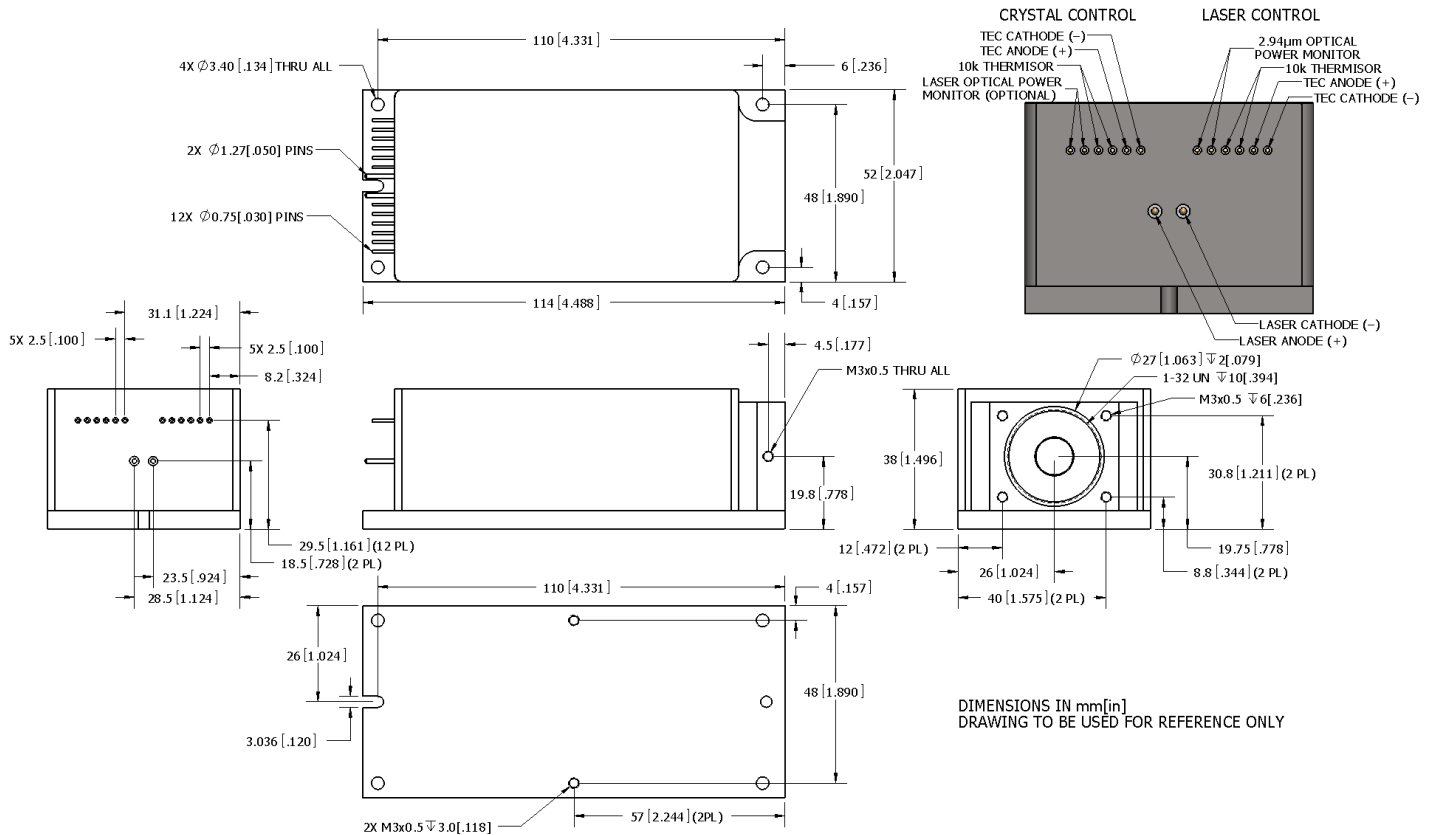
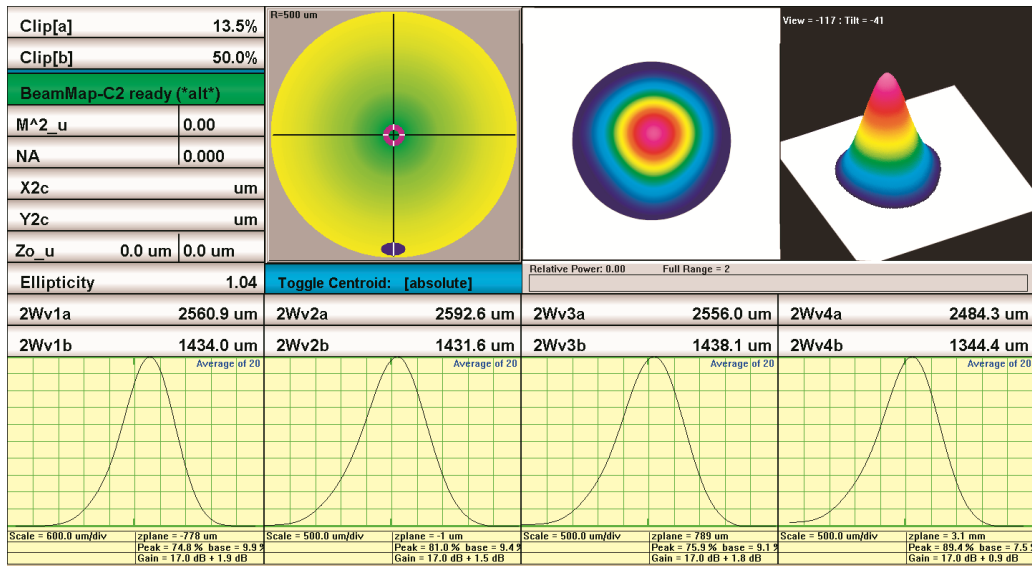


MIR-Pac 2.94 μ m 1 Watt Laser Module



| System Specifications | | Units |
|--|----------------------------------|----------------------|
| WAVELENGTH | 2.94 | μ m |
| 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 | < \pm 5 | % of Beam Divergence |
| 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 | |
| STATIC ALIGNMENT TOLERANCE | | |
| BEAM POSITION | \pm 0.5 | mm |
| BEAM ANGLE | \pm 5 | mrad |
| | | |
| 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) |



System Integration & Thermal Management

The Sheamann 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.

