

MIR-Pac 2.94 μ m 1W Laser Module

- Made in the USA
- Hermetically sealed
- Free-space output of 1W
- Compact and lightweight
- Typical TEM₀₀ M² value of 1.12
- Wall plug efficiency of 10%
- Laser/TEC driver available separately (see below)
- Applications include sensing, ranging, and medical
- Fiber-coupled version available soon

The world's first **commercially available, hermetically sealed** 2.94 μ m DPSS laser module.



- Required for use with MIR-Pac 2.94 μ m 1W Laser Module
- Can drive one diode and up to two TECs simultaneously
- Constant power and constant current modes
- Laser diode current up to 10A
- TEC drive current up to ± 4 A
- Compact and lightweight (130 x 115 x 70 mm)
- Overheating protection for laser diode
- Easy to use LED screen and buttons
- Computer interface via USB (software included)

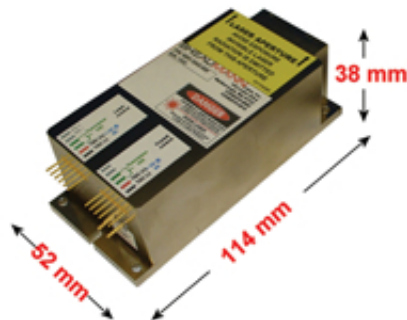
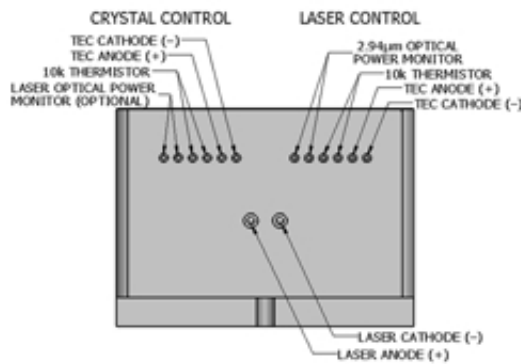


DRV-002
High Power Laser Diode /
TEC Driver

SHEAUMANN

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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 ensure proper cooling, the base plate of the **MIR-Pac 2.94µm** must be attached to a heat sink.

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

SPECIFICATIONS

- | | | | |
|--|---------------------|---|---------------------------------------|
| • WAVELENGTH | 2.94 µm | • MIR-PAC DIMENSIONS (L x W x H) | 114 x 52 x 38 mm (4.5 x 2.1 x 1.5 in) |
| • CW OUTPUT POWER | 1 W | • MIR-PAC WEIGHT | 0.82 kg (1.8 lbs) |
| • LASER DRIVE CURRENT | <6 A | | |
| • SPATIAL MODE | TEM ₀₀ | | |
| • WAVELENGTH STABILITY | <1 cm ⁻¹ | | |
| • BEAM DIAMETER @FWHM | <2.0 mm | | |
| • BEAM DIVERGENCE | <20 mrad | | |
| • POWER STABILITY | <±2.0% over 8 hours | | |
| • WARM UP TIME | <5 min | | |
| • POLARIZATION RATIO | Random | | |
| • STATIC ALIGNMENT TOLERANCE | | | |
| BEAM POSITION | ±0.5 mm | | |
| BEAM ANGLE | ±5 mrad | | |
| • AMBIENT OPERATING TEMP. RANGE | 15 to 40°C | | |
| • POWER DISSIPATION FROM MIR-PAC | <100 W | | |
| • HEATSINK TEMP. FOR CONDUCTIVE COOLING | 0 to 45°C | | |
| • NON-OPERATING STORAGE TEMP. | -10 to 65°C | | |

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

