

# TLM-200

## Thulium CW Fiber Laser Module



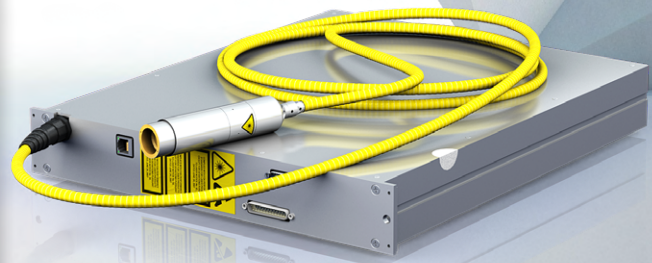
### FEATURES

- ▶ Compact Size
- ▶ High Wall-plug Efficiency
- ▶ Beam Quality  $M^2 < 1.1$
- ▶ Wide Selection of Wavelengths
- ▶ Advantage over  $\text{CO}_2$  and Ho:YAG
- ▶ Cost-effective, Compact OEM Solution



### APPLICATIONS

- ▶ Medical Treatment
- ▶ Medical Surgery
- ▶ Other Non-metal Materials Processing
- ▶ Plastic Materials Processing
- ▶ Solid State IR Laser Pumping
- ▶ Pollution Control



**Thulium Continuous Wave (CW) Fiber Laser Modules** are available in air-cooled units, 10-50 W or water-cooled modules, 50-200 W. These compact modules can be purchased for single-mode or multi-mode operation with wavelength range of 1900-2050 nm. IPG Thulium modules are attractively priced for OEM's and integrators and serve a wide range of medical, materials processing and laser pumping applications.

# TLM-200

## Thulium CW Fiber Laser Module

### Optical Characteristics

Central Wavelength Range*, nm	1900-2000, typ. 1940
Linewidth FWHM, nm	<1
Mode of Operation	CW/Modulated
Modulation Frequency, kHz	up to 1
Average Power, W	200
Power Tunability, %	10-100
Power Stability**, %	±1
Optical Noise***, % RMS	1
Beam Quality, M <sup>2</sup>	<1.1

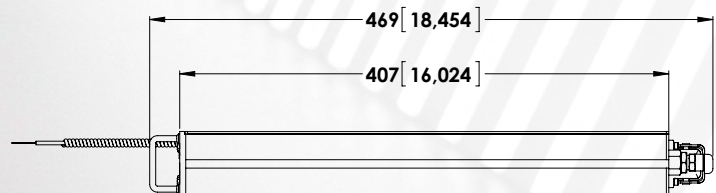
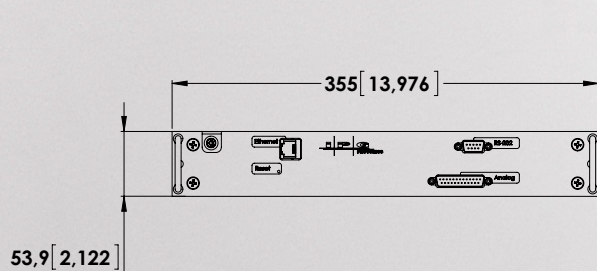
\* Custom central wavelengths are available upon request

\*\* Over 4 hours, T=const

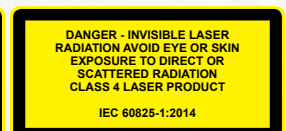
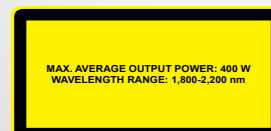
\*\*\* 10 kHz - 20 MHz

### General Characteristics

Module Dimensions (W × D × H), mm	355 × 407 × 54
Cooling	Water-cooled
Supply Voltage, VDC	48
Power Consumption, W	<1800



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