

# TLPN-1-1-20-M

## Pulsed Thulium Nanosecond Fiber Laser

NEW PRODUCT



### Applications

- ▶ Plastics
- ▶ Materials Processing
- ▶ Medical Therapy, Surgery
- ▶ Spectroscopy
- ▶ Crystal Pumping



### Features

- ▶ Wavelength 1.9-2  $\mu\text{m}$
- ▶ Output Power up to 20 W
- ▶ Pulse Energy 1 mJ
- ▶ Repetition Rate 20-50 kHz
- ▶ Pulse Width 1-100 ns
- ▶ Beam Quality  $M^2 < 1.1$
- ▶ Optional Guide Laser
- ▶ Telecom Reliability
- ▶ Compact & Low Cost
- ▶ Industrial Performance

**IPG Photonics' New TLPN** thulium fiber laser provides nanosecond pulses with central wavelength in the 1900-2000 nm range and output powers up to 20 W. Based on IPG's pioneering efficient and reliable fiber laser technology, the TLPN features a super-compact lightweight optical head connected with a fiber cable to a small air-cooled control module. The all fiber construction allows for full range of output power without changes in power stability and beam mode parameters. IPG's TLPN 2  $\mu\text{m}$  pulsed laser addresses a variety of materials processing, scientific and medical applications.



# TLPN-1-1-20-M

## Pulsed Thulium Nanosecond Fiber Laser

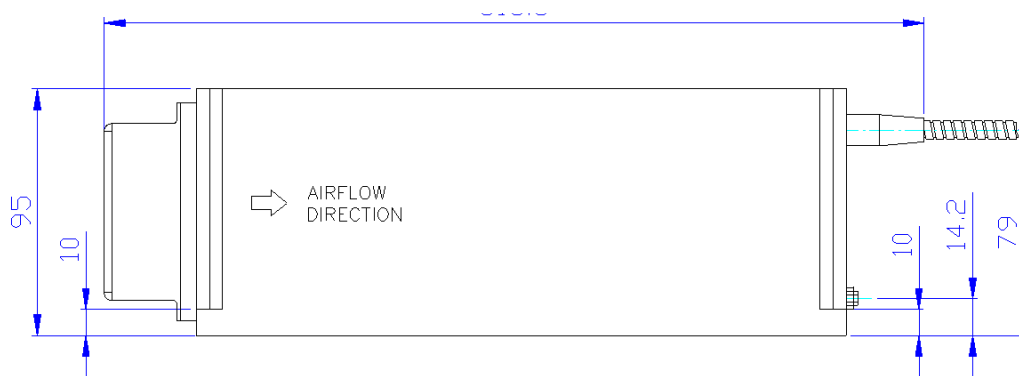
### Optical Characteristics

Central Wavelength Range <sup>1</sup> , nm	1900-2000
Average Power, W	20
Power Tunability, %	10-100
Pulse Energy, mJ	1
Pulse Duration, ns	1
Peak Power, MW	up to 1
Repetition Rate, kHz	20-50
Beam Quality, M <sup>2</sup>	TEM <sub>00</sub> , 1.1

<sup>1</sup>Custom central wavelengths available upon request

### General Characteristics

Module Dimensions, mm	448 x 418 x 133
Optical Head Dimensions, mm	242 x 82 x 60
Cooling	Air-cooled
Supply Voltage, VDC	24
Power Consumption, W	300



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