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 µm
- 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 µm pulsed laser addresses a variety of materials processing, scientific and medical applications.

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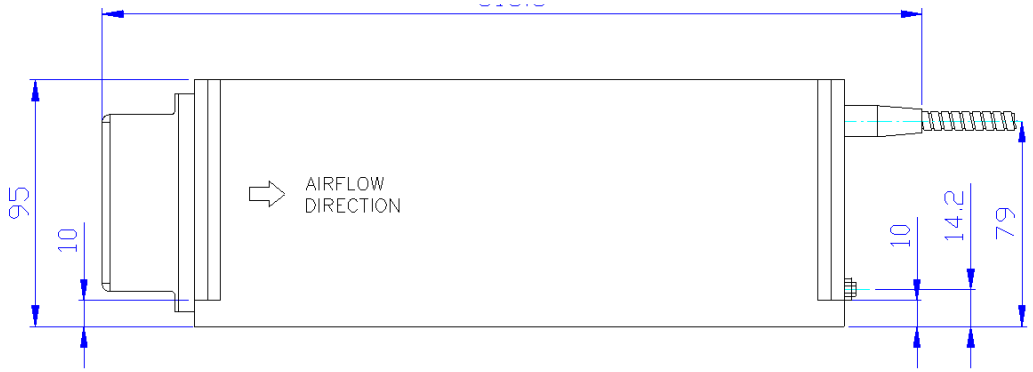
Optical Characteristics

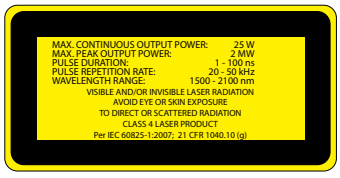
Central Wavelength Range[1], nm	1900-2000
Average Power, W	20
Power Tunability, %	10-100
Pulse Energy, mJ	1
Pulse Duration, ns	1
Peak Power, MW	up to 1
Repetition Rate, kHz	20-50
Beam Quality, M^2	TEM_{00}, 1.1

[1]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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