

TLPN-1-1-20-M

Thulium Nanosecond Fiber Laser

NEW PRODUCT



Applications

- ▶ Plastics Marking
- ▶ Plastics Cutting & Welding
- ▶ Medical Therapy, Surgery
- ▶ Spectroscopy
- ▶ Crystal Pumping

Features

- ▶ Wavelength 1.9-2.05 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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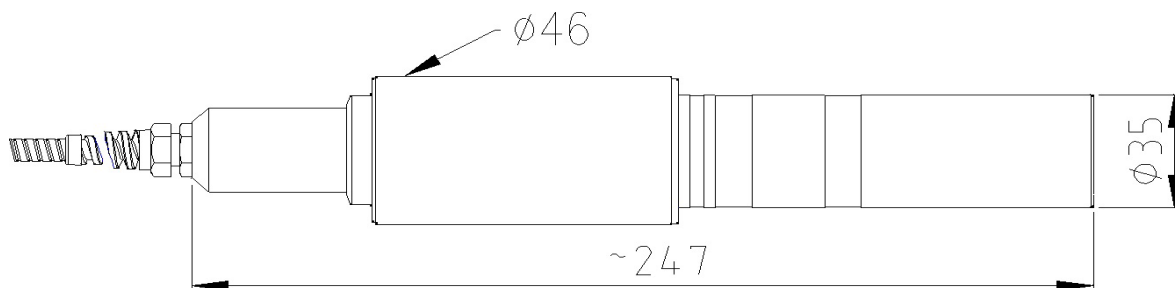
Optical Characteristics

Central Wavelength Range ¹ , nm	1900-2050
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	1.1

¹Custom central wavelengths available upon request

General Characteristics

Module Dimensions, mm	215 x 286 x 95
Optical Head Dimensions, L x Ø, mm	247 x 46
Cooling	Air-cooled
Supply Voltage, VDC	24
Power Consumption, W	300



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