

# ELPP-1645-10-100-20

## Er:YAG Fiber Pumped Modelocked Laser

PRELIMINARY



### Applications

- ▶ Plastics Processing
- ▶ LIDAR/Remote Sensing
- ▶ Medical Applications
- ▶ OPO Pump Source



### Features

- ▶ Operating Wavelength  
1645 nm
- ▶ Output Power up to 20 W
- ▶ Pulse Duration 100- 500 ps
- ▶ Repetition Rate  
80 - 200 MHz

IPG Photonics' Er:YAG modelocked picosecond laser provides up to 20 W output power at 1645 nm and repetition rate 80 to 200 MHz. The modelocked laser head is pumped by IPG's efficient and reliable erbium fiber laser. The Er:YAG-1645 picosecond pulsed laser addresses non-metal materials processing, scientific and medical applications.

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## Er:YAG Fiber Pumped Modelocked Laser

### Optical Characteristics ELPP-1645-10-100-20

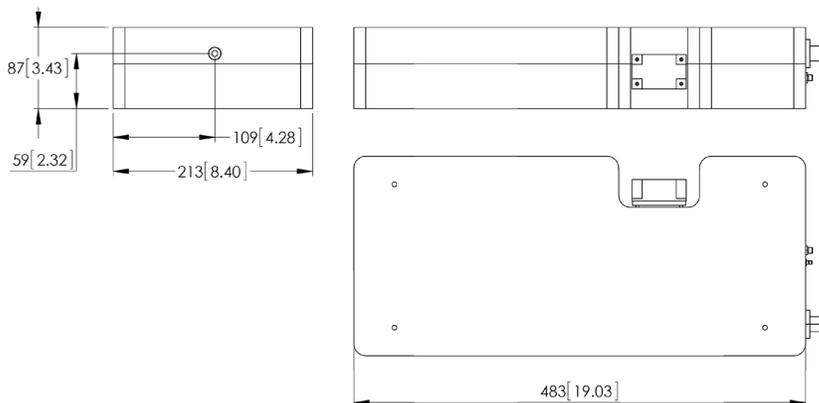
Wavelength, nm	1645
Maximum Average Power, W	20
Pulse Energy, nJ	10 typ.
Pulse Duration, ps	100 - 500
Repetition Rate, MHz	80 - 200
Polarization	Linear, > 100:1
Output Beam Mode, M <sup>2</sup>	TEM <sub>00</sub>
Warm up Time, min	5 from standby, 15 from cold start

Custom output powers, repetition rates and pulse durations are available upon request.

### General Characteristics

Integrated Pump Laser*	IPG's CW Erbium Fiber Laser
Pump Laser Dimensions (WxDxH), mm	448 x 403 x 132
Optical Head Dimensions (WxDxH), mm	213 x 483 x 87
Supply Voltage 50-60 Hz, VAC	110 - 240

\* Pump laser model depends on combination of parameters.



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