



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

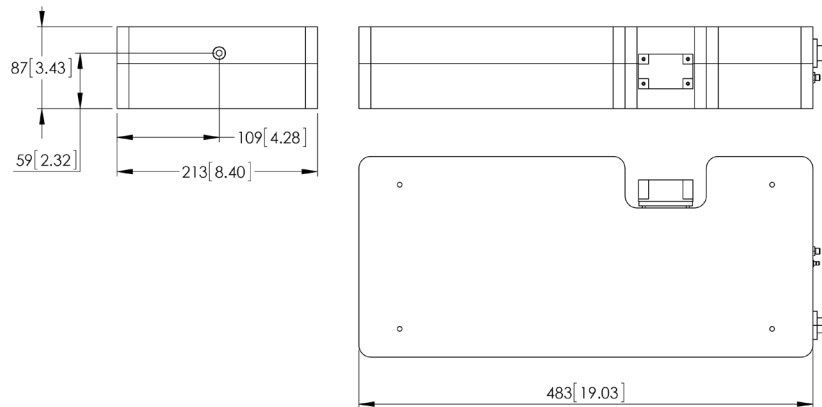
Wavelength, nm	1645
Maximum Average Power*, W	20
Pulse Energy, μ J	10 Typ.
Pulse Duration, ps	100-500
Repetition Rate, MHz	80-200
Polarization	Linear, >100:1
Output Beam Mode, M^2	TEM ₀₀
Warm up Time, min	5 from Standby, 15 from Cold Start

* 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 (W x D x H), mm	448 x 403 x 132
Optical Head Dimensions (W x D x H), 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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MAX. AVERAGE OUTPUT POWER: 40 W
 MAX. PEAK OUTPUT POWER: 1 MW
 PULSE DURATION: 100-500 ps
 PULSE REPETITION RATE: 80 - 200 MHz
 WAVELENGTH RANGE: 1600-1700 nm

DANGER - INVISIBLE LASER
 RADIATION AVOID EYE OR SKIN
 EXPOSURE TO DIRECT OR
 SCATTERED RADIATION
 CLASS 4 LASER PRODUCT
 IEC 60825-1:2014

The Power to Transform®