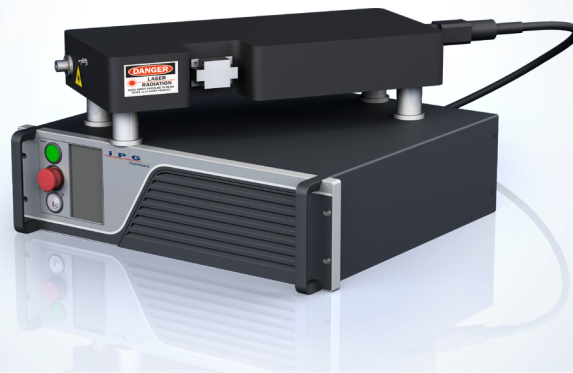




HLPP-2090-10-100-20

Ho:YAG Fiber Pumped Modelocked Laser

PRELIMINARY



Applications

- ▶ Plastics Marking
- ▶ Spectroscopy
- ▶ Plastics Cutting and Welding
- ▶ LIDAR
- ▶ Medical Therapy, Surgery
- ▶ OPO Pump Source



Features

- ▶ Operating Wavelength 2090 nm
- ▶ Pulse Duration 100-500 ps
- ▶ Output Power up to 20 W
- ▶ Repetition Rate 80-200 MHz

IPG Photonics' Ho:YAG modelocked picosecond laser provides up to 20 W output power at 2090 nm and repetition rate 80 to 200 MHz. The modelocked Ho:YAG head is pumped by IPG's efficient and reliable thulium fiber laser. The Ho:YAG-2090 pulsed laser addresses non-metal materials processing, scientific and medical applications.

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Ho:YAG Fiber Pumped Modelocked Laser

Optical Characteristics

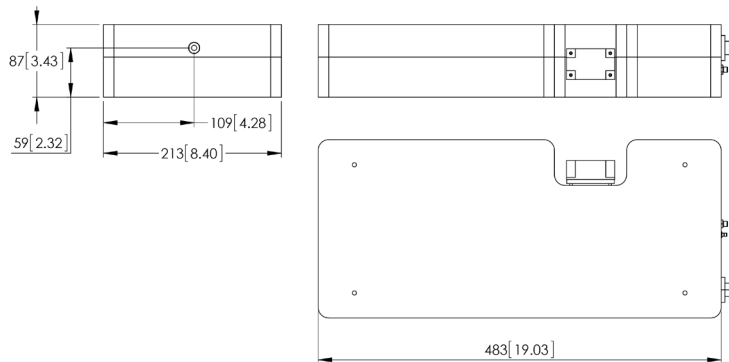
| | |
|----------------------------------|-------------------------------------|
| Wavelength, nm | 2090 |
| Maximum Average Power*, W | 20 |
| Pulse Energy, μ J | 10 Typ. |
| Pulse Duration, ps | 100-500 |
| Repetition Rate, MHz | 80-200 |
| Polarization | Linear, >100:1 |
| Output Beam Mode, M ² | 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 Thulium 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 |
| Power Consumption, W | <200 |

*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: 2000-2200 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®