

HLPN-10-50-20-R

Holmium Nanosecond Hybrid Fiber Laser

NEW PRODUCT



Applications

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



Features

- ▶ Wavelength: 2.09 μm
- ▶ Output Power up to 20 W
- ▶ Pulse Energy up to 10 mJ
- ▶ Pulse Duration 30-100 ns
- ▶ TEM₀₀ Beam Mode
- ▶ Linear Polarization
- ▶ Repetition Rate 1-5 kHz

IPG Photonics' HLPN Holmium:YAG laser provides 30-100 nanosecond pulses at 2.09 μm with pulse energies up to 10 mJ and output powers up to 20 W. The acousto-optically Q-switched Ho:YAG head is pumped by IPG's efficient and reliable thulium fiber laser. The HLPN 2.09 μm laser addresses non-metal materials processing, scientific and medical applications.

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Holmium Nanosecond Hybrid Fiber Laser

Optical Characteristics

Mode of Operation	Acousto-optically Q-switched
Wavelength, nm	2090
Max. Average Power, W	20
Peak Power, kW	<300
Max. Pulse Energy, mJ	10 @ 1 kHz, 6 @ 3 kHz, 4 @ 5 kHz
Pulse Duration, ns	30-100
Repetition Rate, kHz	1-5
Polarization	Linear, >100:1
Output Beam Mode, M ²	1.3

General Characteristics

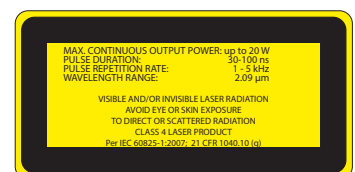
Pump Laser	IPG Photonics CW Thulium Fiber Laser
Pump Wavelength, nm	1908
Control Unit Dimensions, mm	448 x 702 x 176
Optical Head Dimensions, mm	240 x 65 x 70
Cooling	Water-cooled
Optical Head Cooling	Passively Air-cooled
Supply Voltage, 50-60 Hz, VAC	110-220
Power Consumption, kW	<1.0

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