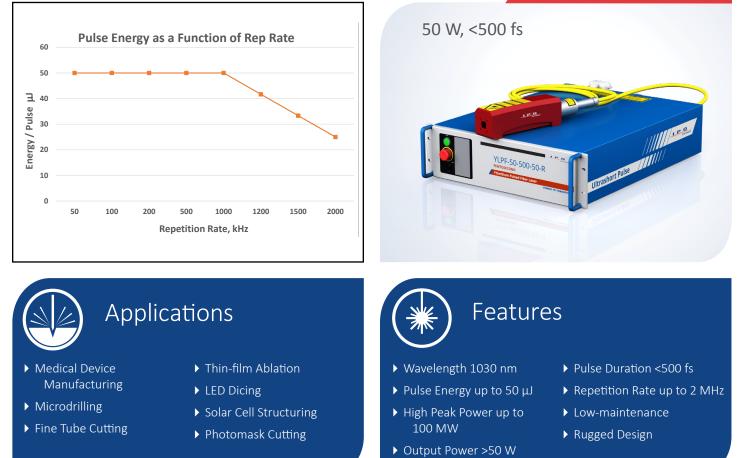




## YLPF-50-500-50-R Ytterbium Femtosecond Fiber Laser





**IPG Photonics' NEW YLPF Series** femtosecond fiber lasers provide high peak power with scalable average output power of 50 W, short pulse duration of 500 fs at full operational repetition rate range of 50-2000 kHz. The all fiber format allows for the adjustment of peak power and/or pulse repetition rate without affecting any of the output beam parameters. IPG's novel fiber laser is much more efficient and compact than conventional lasers now on the market. It is ideal for applications in precision micromachining.

The excellent beam quality, ultrashort pulse duration and high pulse energy combine to provide peak power densities suitable for micromachining virtually any material: metal, glass, ceramic, silicon, plastics. The ultrashort pulse duration results in a very small heat affected zone. Higher output powers are planned.



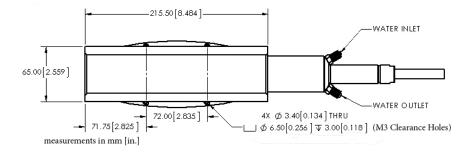
# YLPF-50-500-50-R

### **Ytterbium Femtosecond Fiber Laser**

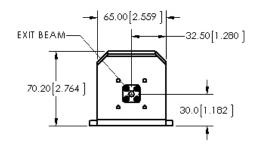
Optical Characteristics	
Wavelength, nm	1030
Max. Average Power, W	50
Pulse Energy, μJ	50
Pulse Duration, fs	<500
Peak Power, MW	up to 100
Repetition Rate, kHz	50-2000
Beam Quality, M <sup>2</sup>	<1.4 (1.2 Typ.)

#### **General Characteristics**

Control Unit Dimensions (W $\times$ D $\times$ H), mm	448 × 418 × 133
Optical Head Dimensions (W $\times$ D $\times$ H), mm	370 × 82 × 60
Cooling	Air-cooled
Supply Voltage, VAC	100-240, 50/60 Hz
Power Consumption, W	<300



Water-cooled Head



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DANGER - INVISIBLE LASER

RADIATION AVOID EYE OR SKIN

1:00 MW

E:100 MW

E:00 MW

E:00

The Power to Transform® 6.2 R12 7/18