



ELPF-10-500-10-R

Erbium Femtosecond Fiber Laser

NEW PRODUCT



Applications

- ▶ Ophthalmology
- ▶ Life Sciences
- ▶ Precision Micromachining



Features

- ▶ Eye-safe Wavelength 1.55 μm
- ▶ Output Power up to 10 W
- ▶ Peak Power up to 10 MW
- ▶ Pulse Width 500 fs
- ▶ Pulse Energy 10 μJ
- ▶ Repetition Rate 100-2000 kHz
- ▶ Beam Quality $M^2 < 1.4$
- ▶ Telecom Reliability
- ▶ Compact and Low Cost
- ▶ Industrial Performance

IPG Photonics' NEW ELPF erbium 1.56 μm femtosecond fiber laser provides high peak power with scalable average output power of 10 W, short pulse duration of 500 fs at full operational repetition rate range of 100-2000 kHz. Based on IPG's pioneering highly efficient and reliable fiber laser technology, ELPF lasers feature a super-compact lightweight optical head, connected with a fiber cable to a small air-cooled control module. The all fiber format allows for adjustment of peak power and/or pulse repetition rate without affecting output beam parameters. IPG's novel fiber laser is much more efficient and compact than conventional lasers now on the market. It addresses applications in ophthalmology, life sciences and micromachining.

ELPF-10-500-10-R

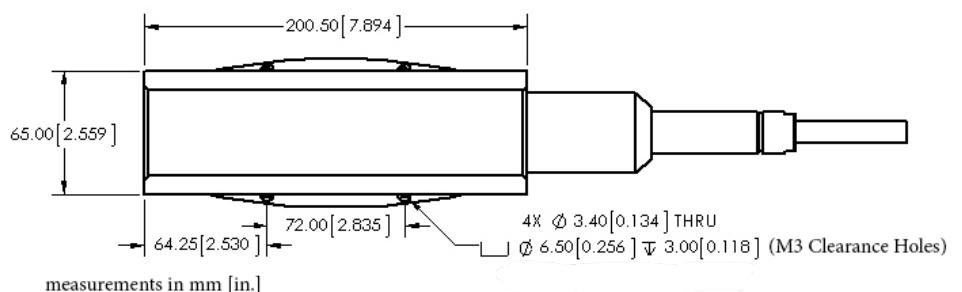
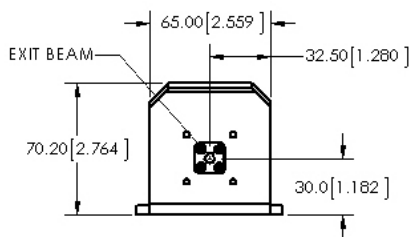
Erbium Femtosecond Fiber Laser

Optical Characteristics

Wavelength, nm	1560
Average Power, W	10
Pulse Energy, μJ	10
Pulse Duration, fs	500
Peak Power, MW	up to 10
Repetition Rate, kHz	100-2000
Beam Quality, M^2	<1.4

General Characteristics

Control Unit Dimensions (W x D x H), mm	448 x 580 x 133
Optical Head Dimensions (W x D x H), mm	65 x 201 x 70
Cooling	Water-cooled
Supply Voltage, VAC	100-240, 50-60 Hz
Power Consumption, W	300



+1 (508) 373-1100
 sales.us@ipgphotonics.com
www.ipgphotonics.com

Legal notices: All product information is believed to be accurate and is subject to change without notice. Information contained herein shall legally bind IPG only if it is specifically incorporated into the terms and conditions of a sales agreement. Some specific combinations of options may not be available. The user assumes all risks and liability whatsoever in connection with use of a product or its application. IPG, IPG Photonics, The Power to Transform and IPG Photonics' logo are trademarks of IPG Photonics Corporation. © 2014-18 IPG Photonics Corporation. All rights reserved.

MAX. AVERAGE OUTPUT POWER: 40 W
 MAX. PEAK OUTPUT POWER: 40 MW
 PULSE DURATION: 50 fs
 PULSE REPETITION RATE: 10-1500 kHz
 WAVELENGTH RANGE: 1520-1625 nm

WARNING
 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®