

NPL-1550-37-M



1550 nm Nanosecond Pulsed Laser, MOPA, 37 dBm CW Output

The Optilab NPL-1550-37-M is a nanosecond pulsed, high power optical light source ideal for LIDAR system development and applications. Housed in a fully integrated unit, which contains pulsed DFB laser, 37 dBm amplifier and power supply. It provides up to 37 dBm (5 W) CW optical power in the 1543 – 1570 nm wavelength region. The unit integrates a high-performance 1550 nm directly modulated fiber optic laser and high power optical amplifier. Laser output pulse width and repetition rate can be adjusted with internal setting. Alternatively, pulse width and repetition rate can be controlled via an external electrical trigger. Output can be via bare fiber or high power collimator. Contact Optilab for more information.

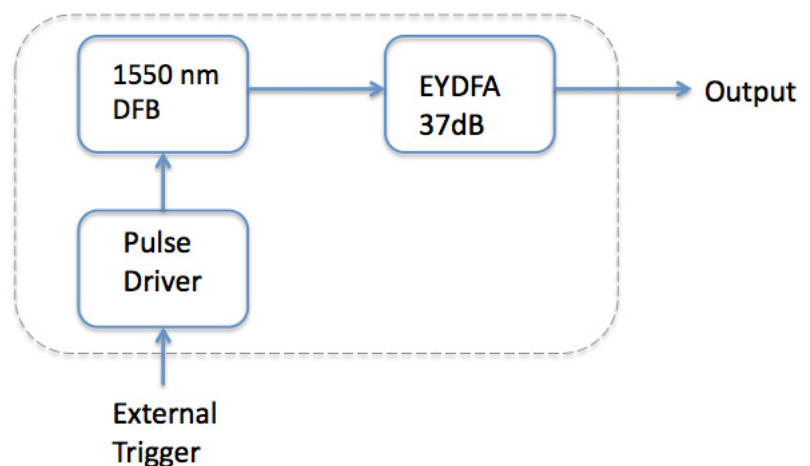
Features

- MOPA configuration
- Laser wavelength: 1543 nm to 1570 nm
- CW output power: 37 dBm
- Pulse energy: up to 100 μ J
- Pulse width: 4 ns to 100 ns
- Integrated 37 dBm EYDFA
- Pulse repetition rate: 100 Hz to 300 kHz
- RS-232 monitor and control interface
- Collimator Output (optional)

Applications

- Pulsed laser source for LiDar
- Free space optical communication
- High power optical instrumentation
- Research & Development

Functional Diagram



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OPTIONS

NPL-1550-37-M

x Benchtop or Rackmount

TECHNICAL INFO

For technical info and support:

sales@optilab.com

www.optilab.com

WEB ORDER

To order, please visit OEQuest.com.



Optilab Advantage

- Innovation
- Performance
- Quality
- Customization
- Warranty

| Optical Specifications | |
|----------------------------------|---|
| Center Wavelength | 1543 nm to 1570 nm |
| Optical Pulse Width | 4 ns to 100 ns |
| Pulse Repitition Rate | 100 Hz to 300 kHz |
| Energy per Pulse | up to 100 μ J |
| Pulse Contrast | 50 dB |
| CW Output Power | 37 dBm |
| Peak Power Optical Output | up to 2 KW |
| Wavelength Adjustment Resolution | 0.05 nm (optional) |
| Output Waveform | Pulsed |
| Input Trigger Level TTL | > 3.5 V |
| Electrical Connector | SMA |
| Mechanical Specifications | |
| Operating Temperature | 0° C to +50° C |
| Storage Temperature | -40° to +70° C |
| Humidity | 10% to 90% |
| Power Supply | 110 V AC and 220 V AC, 50 or 60 Hz |
| Display | Temperature, Current, Voltage |
| Communication Interface | RS-232 interface cabling from PC to units |
| Output | SMF-28 or fiber collimator |