

CoLID-HP 1550nm Short Pulse Fiber Laser for LiDAR



Product Description:

CoLID-HP 1550nm short pulse fiber laser for LiDAR is an eyesafe pulsed laser sources for LiDAR with high peak power and high pulse energy. The all-fiber design guarantees the robustness and the maintenance-free operation of the fiber laser module. This pulsed fiber laser is an ideal source for the applications in LiDAR, range finding, 3D scanning and fiber optic sensing, etc.

Connet CoLID-HP 1550nm short pulse fiber laser for LiDAR adopts the compact module package, integrates the internal trigger and the output monitor for synchronization. The external trigger mode is also available for use. It can be easily connected with the computer to adjust the pulse width and the repetition rate. All modules go through the strict environmental examinations to ensure the reliability and the stability. This laser is suitable for system integration.

Applications:

- ·LiDAR
- · Range Finding
- · Fiber Optic Sensing
- · 3D Airborne Laser Mapping
- · Atmosphere and Pollution Monitoring
- · Research & Development

Features:

- · High peak output: up to 30kW (typ.)
- · Adjustable Pulse duration: 1~250ns

Phone: 021-61270268

- · Diffraction-limited output beam
- · Maintenance-free operation
- · Compact and rugged design



Specifications:

| Parameter | Unit | Specification | | |
|--|-----------------|----------------------------------|-----------|------|
| | | Min | Тур. | Max |
| Part no. | | CoLID-HP-1550-M-PL | | |
| Operating wavelength | nm | 1530 | 1545/1550 | 1561 |
| Peak power | kW | - | - | 30 |
| Pulse width ¹ | ns | 1 | - | 250 |
| Repetition rate ² | kHz | 1 | - | 3000 |
| Average power | W | - | - | 5 |
| Beam quality | M ² | | - | 1.2 |
| Output power stability (15mins) ³ | % | - | ±0.5 | - |
| Output power stability (8hrs) ³ | % | - | ±1 | - |
| Output isolation | dB | 45 | - | - |
| Polarization | | Random | | |
| Output fiber length | m | >0.3 | | |
| Optical connector | | FC/APC or Collimator | | |
| Trigger mode | | Internal or External TTL Trigger | | |
| Output fiber type | | SM or LMA Fiber | | |
| Power supply | V _{DC} | 12-24 | | |
| Communication interface | | RS232 | | |
| Operating temperature | ℃ | -35 | - | +50 |
| Storage temperature | °C | -40 | - | +85 |
| Dimension | mm | 200(L)X135(W)x41(H) | | |

Specifications:

- · Pulse width is adjustable.
- · Repetition rate is adjustable.
- · The output power stability is measured under 25°C after 30 minutes' warm-up.

Ordering Information:

- · CoLID-HP-1550-M-XX-YY-ZZ-PL
- · XX: Pulse width in ns
- \cdot YY: Repetition rate in kHz
- · ZZ: Peak power in kW
- · Example: CoLID-HP-1550-M-10-50-10-PL

CoLID-HP 1550nm short pulse fiber laser, 10ns pulse width, 50kHz repetition rate, 10kW Peak power

Phone: 021-61270268