

1560nm Femtosecond Pulse Fiber Laser Module

FEMTOSECOND FIBER LASERS



This femtosecond pulse laser module employs the latest all-polarization-maintaining fiber NALM (Nonlinear Amplifying Loop Mirror) passively mode-locked femtosecond laser technology, utilizing high-performance erbium-doped fibers as the laser medium to achieve stable output of femtosecond pulse lasers in the 1560nm wavelength band. The output laser pulse has the characteristics of narrow pulse widths, high pulse peak powers, broad and smooth spectra. Moreover, it is fully self-starting, maintenance-free in a long life, and operational under high and low temperature environments, making it an excellent entry-level femtosecond pulse laser product applicable in quantum optics, optical frequency combs, supercontinuum generation, terahertz research, and other scientific fields.

- Pulse duration 500 fs
- Optical frequency comb
- Compact and turnkey
- Supercontinuum generation
- Robust and reliable
- Terahertz research

Specifications

| Parameter | Specification |
|----------------------------------|---------------------|
| Center Wavelength (nm) | 1560±10 |
| Spectrum Width (nm) | ≥10 |
| Pulse Duration (fs) | ≤500 |
| Average Power (mW) | ≥5 |
| Power Instability | < ±1% |
| Repetition Rate (MHz) | 10/20/50/80 |
| Repetition Rate Instability (Hz) | < 1k |
| Pulse Energy (nJ) | ≥0.1 |
| Polarization | Linear polarization |
| Fiber Type | PM1550, FC/APC |
| Fiber connector (min) | < 1 |

* Pulse Duration: Customizable

* Fiber Type: Slow axis alignment

Source: WaveQuanta product database. For ordering, customization (wavelength, power, package) and quotation, contact sales@wavequanta.com.