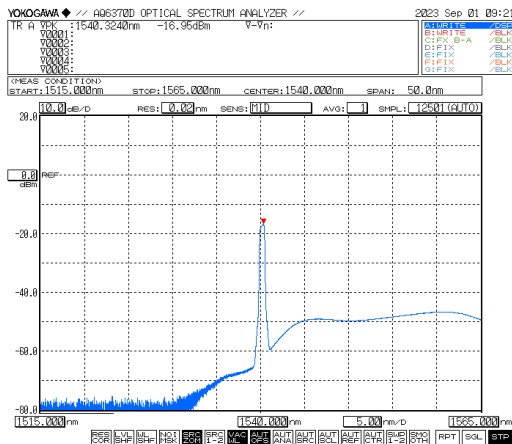


C-band fiber energy-transmitting laser (1~10W optical power)

CW & PUMP LASERS



Due to the limitations of fiber losses and light source power, single-mode optical fibers used for communications are usually less efficient in transmitting fiber power and energy. This laser is a fiber laser specially used for single-mode fiber energy transmission, with a maximum output power of 10 watts. In single-mode fibers such as G652 and G657 used for optical fiber communication, it can transmit more than 1km with almost no power loss. It is suitable for use in long-distance optical fiber power supply occasions, and has the advantages of being passive and resistant to electromagnetic interference. The professionally designed drive and temperature control circuit control ensures the safe and stable operation of the laser, and the spectrum and power remain stable for a long time. Available in both desktop and modular formats.

Specifications

| Parameter | Specification |
|--|---------------|
| Operating wavelength (nm) | 1540~ 1560 |
| Spectrum width (nm) | ≤1 |
| Working mode | CW |
| Single-mode fiber transmission distance (km) | ≥1 |
| Transmission loss (dB/km) | ≤0.3 |
| Light Power (W) | 1/2/5/10 |
| Short-term stability (15 minutes) (dB) | ≤ ±0.02 |
| Long-term stability (8 hours) (dB) | ≤ ±0.05 |
| Pigtail type | SMF-28 |
| Fiber pigtail joint type | FC/APC |

- * operating wavelength: customizable
- * working mode: continuous light
- * short-term stability (15 minutes): equivalent $\leq \pm 0.5\%$
- * long-term stability (8 hours): equivalent $\leq \pm 1.2\%$

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