

Connet released CoSF-FC series single frequency fiber lasers for quantum applications

Connet has recently launched CoSF-FC series frequency conversion laser which is a range of single frequency, mode-hop free and narrow linewidth fiber laser, covering 500~900nm, output power up to 2W. Typical wavelengths are 509nm,532nm,689nm,780nm,813nm and 852nm.

CoSF-FC series single frequency fiber lasers are pumped by CoSF-D series single frequency fiber lasers through the nonlinear frequency conversion technology. They perfectly inherited all the advantages of CoSF-D series fiber lasers and allowing the lasers to be locked to frequency references at either their fundamental or converted wavelengths. Compared with traditional single frequency Diode lasers, CoSF-FC series single frequency fiber lasers have narrower linewidth, lower phase and frequency noise, and better beam quality.

Key Features

- Narrow linewidth, <20KHz
- Ultra-low frequency and intensity noise
- High OSNR>55dB
- Excellent beam quality, $M^2 < 1.1$
- Wide wavelength tuning

CoSF-FC series single frequency fiber lasers are the ideal light source for cold atomic physics and can be widely used in the fields of quantum computing and simulation, quantum communication, and quantum precision measurement, etc.

532 nm for Barium
509nm,510nm and 852nm for Cesium
780 nm, 795nm and 1064 nm for Rubidium
638 nm, 770 nm and 1064 nm for Ytterbium
679nm,689nm,707nm, 813 nm and 1064 nm for Strontium

The launch of CoSF-FC series single frequency fiber lasers further expands the product line of single frequency fiber lasers of Connet, which can realize a wide range wavelength through the frequency conversion technology to meet the requirements of quantum applications.

CoSF-FC series VIS Single Frequency Fiber Laser (500~900nm)

CoSF-D series 1.0 μ m Single Frequency Fiber Laser

CoSF-D series 1.5 μ m Single Frequency Fiber Laser

CoSF-D series 2.0 μ m Single Frequency Fiber Laser

For more information, please feel free to contact Connet.