

Atomic/Molecular frequency stabilization system

FREQUENCY-STABILIZED & ULTRA-STABLE LASERS



Single-mode polarization-maintaining fiber input, FC/APC connector

- High Frequency Stability Portable
- All
- Frequency
- Stabilized Optical Path
- Optical Precision Measurement Quantum
- Computing Quantum Precision Measurement

Specifications

Parameter	Preci-MTS-Rb	Preci-MTS-Cs
Spectral Line Generation Method	Modulation transfer spectroscopy	Modulation transfer spectroscopy
Modulation Frequency	2-30MHz digitally adjustable	2-30MHz digitally adjustable
De-modulation Phase	0-360° digitally adjustable	0-360° digitally adjustable
Error Signal Amplitude	>200mVpp	>200mVpp
Optical Packing	All-fiber structure	All-fiber structure
Spectrum Generation	Built-in Rb Cell	Built-in Cs Cell
Input	Single-mode polarization-maintaining fiber input, FC/APC connector	Single-mode polarization-maintaining fiber input, FC/APC connector
Operation Mode (feedback control signal output)	3mW 780nm input	3mW 852nm input,
Configuration	Include PD, Rb/Cs Cell, EOM, modulation and demodulation circuit	Include PD, Rb/Cs Cell, EOM, modulation and demodulation circuit
Locking Accuracy	<±100kHz@24h	<±100kHz@24h
Partnumber	Preci-SAS-Rb	Preci-SAS-Cs
Spectral Line Generation Method	Saturation absorption spectrum	Saturation absorption spectrum
Modulation Frequency	10kHz-100kHz & 2-30MHz Digitally adjustable	10kHz-100kHz & 2-30MHz Digitally adjustable
De-modulation Phase	0-360° Digitally adjustable	0-360° Digitally adjustable
Error Signal Amplitude	>200mVpp	>200mVpp
Optical Packing	All-fiber structure	All-fiber structure
Spectrum Generation	Built-in Rb Cell	Built-in Cs Cell
Input	Single-mode polarization-maintaining fiber input, FC/APC connector	Single-mode polarization-maintaining fiber input, FC/APC connector
Operation Mode	3mW 780nm Input, feedback control signal output	3mW 852nm input, feedback control signal output
Configuration	Include PD, Rb/Cs bulb, modulation and demodulation circuit	Include PD, Rb/Cs bulb, modulation and demodulation circuit
Locking Accuracy	<±150kHz@24h	<±150kHz@24h

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