



Saturation Absorption Frequency Stabilization Module

Based on the saturated absorption spectroscopy technology, a frequency stabilization module with excellent long-term stability can be achieved.

Features

- High Frequency Stability
- Portable
- All-fiber Frequency-Stabilized Optical Path

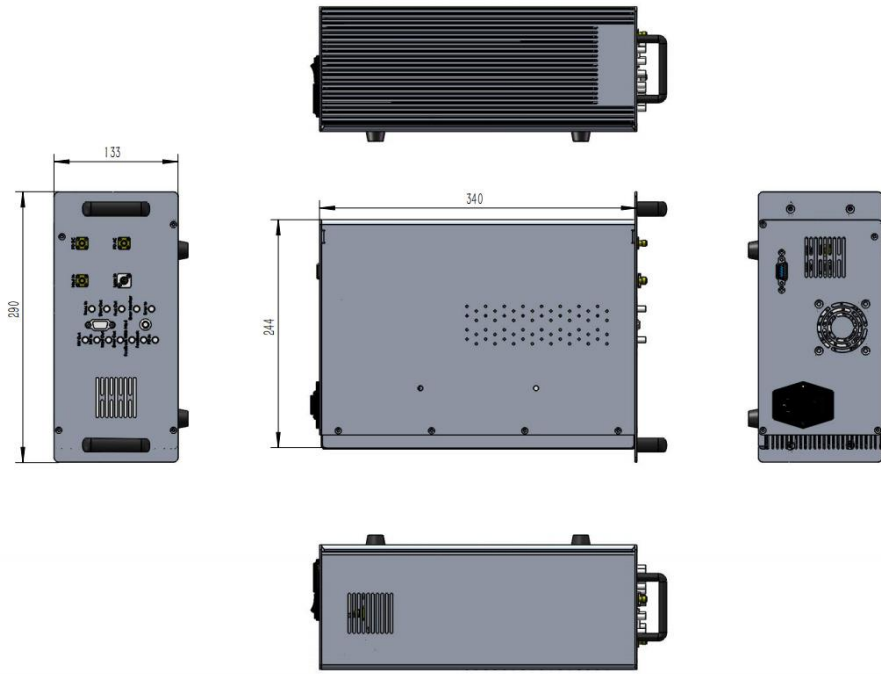
Applications

- Optical Precision Measurement
- Quantum Computing
- Quantum Precision Measurement

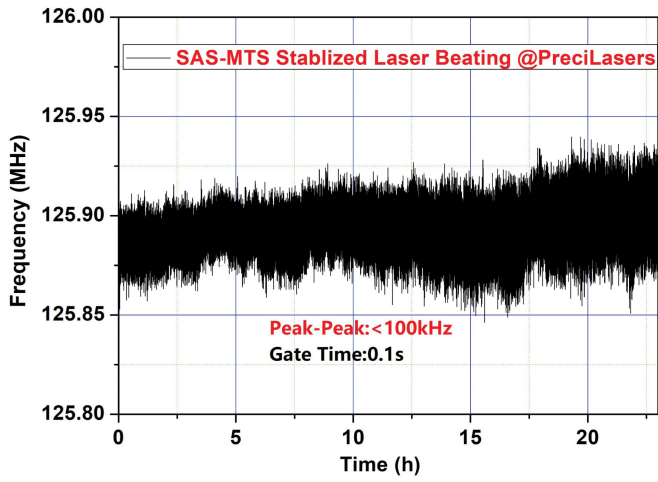


Specification		
Partnumber	Preci-SAS-Rb	Preci-SAS-Cs
Spectral Line Generation Method	Saturation absorption spectrum	
Modulation Frequency	10kHz-100kHz & 2-30MHz Digitally adjustable	
De-modulation Phase	0-360° Digitally adjustable	
Error Signal Amplitude	> 200mVpp	
Optical Packing	All-fiber structure	
Spectrum Generation	Built-in Rb Cell	Built-in Cs Cell
Input	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	
Locking Accuracy	< ±150kHz@24h	

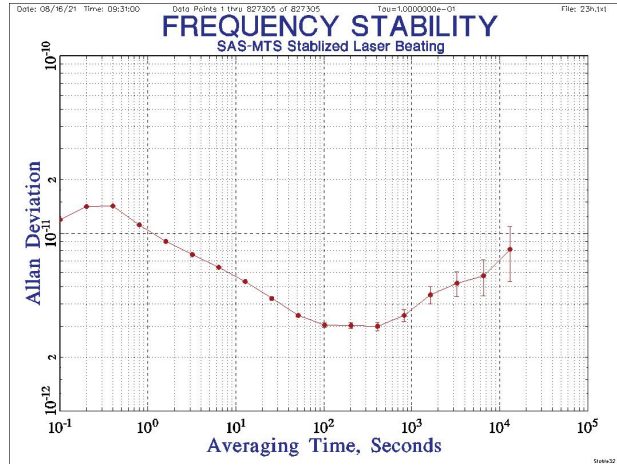
❖ Product Dimensions



❖ Performance(typical value)



Frequency stability test




Frequency stability test Frequency drift test



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⚠ Laser Hazard

Visible or invisible laser radiation, avoid eye or skin exposure to direct, reflected or filtered radiation.
CLASS 4 Laser Products

