

PASSIVE HYDROGEN MASER

SHAO10M – Ground-Based 10 MHz Frequency Standard

Available in standard and high-performance versions



Front view

Key Specifications

Parameter	Value
Output frequency	10 MHz
RF outputs	2 channels (CH1, CH2)
Output connector	SMA
AC input	230 V AC / 50 Hz
Chassis	4U rack-mount
Dimensions (W × H × D)	483 × 177.5 × 500 mm
Net weight	20 kg
Versions	Standard / High-performance

Rear Panel



Rear view

Rear panel interfaces

Interface	Configuration
10 MHz output	CH1, CH2
Control	RS-232, LAN
AC input	230 V AC / 50 Hz

FREQUENCY STABILITY

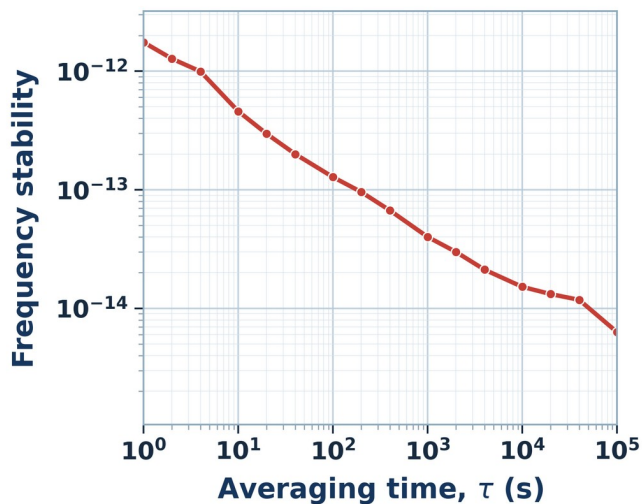
Selected metrics and representative curves for both versions

Stability at Selected Averaging Times

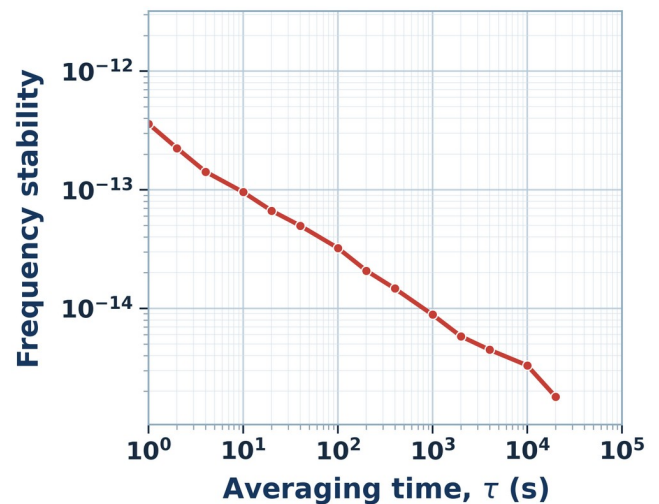
Averaging time	Standard version	High-performance version
1 s	1.75×10^{-12}	3.60×10^{-13}
10 s	4.59×10^{-13}	9.55×10^{-14}
100 s	1.28×10^{-13}	3.23×10^{-14}
1,000 s	4.01×10^{-14}	8.86×10^{-15}
10,000 s	1.52×10^{-14}	3.31×10^{-15}
Day-scale stability	6.33×10^{-15}	2.00×10^{-15}

Representative Stability Curves

Standard version



High-performance version



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