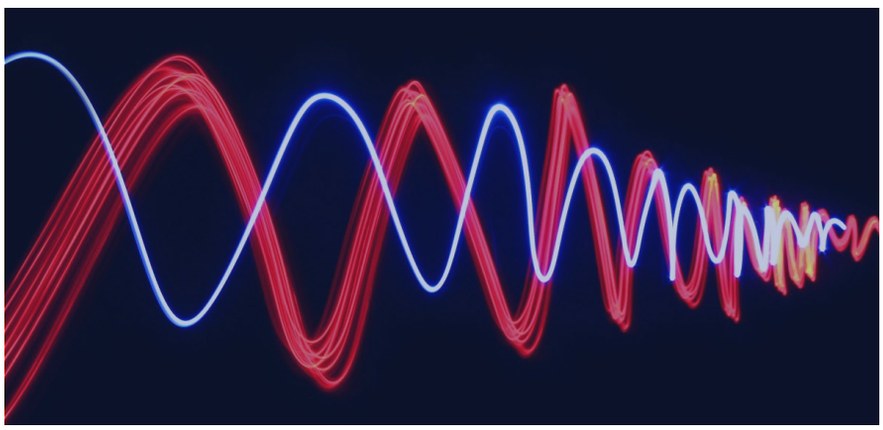
北斗邦泰
BDSTAR TIME

-FT91



High-performance frequency stabilization

Tester

Product profile

FT91 is a high-performance frequency comparator specially designed for high-performance atomic clock testing, which can realize any frequency point measurement of 1-30 MHz, and the additional stability can reach 1.2×10^{-13} at 10MHz, and this module integrates a high-performance special clock internally, which does not affect the performance of the actual measurement in case of any frequency difference between the measured and standard signals.

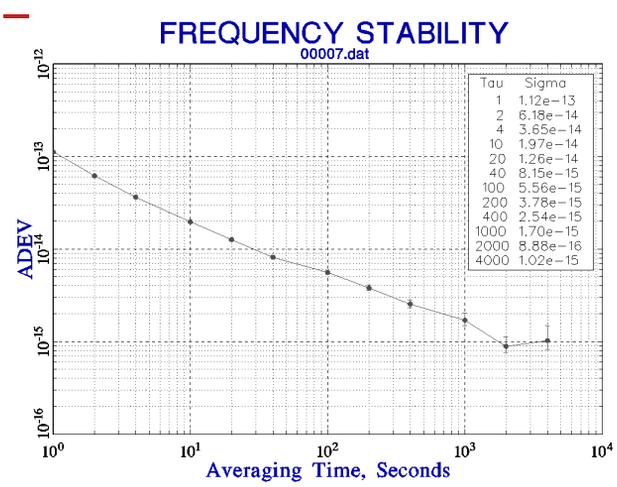
Application scenarios

- Test measuring equipment
- Radio navigation system
- Radio control system
- Research institutes
- Measurement Sector
- Crystal Oscillator Manufacturing

Product feature

- Background as low as 1.2×10^{-13}/1S，2×10^{-15}/1000S
- Measured Input Frequency 1-30MHz, Standard Input Frequency 10MHz
- Fast determination of the measured frequency, automatic start of the measurement
- Batch test systems can be formed with specific hardware and software.

Typical curve



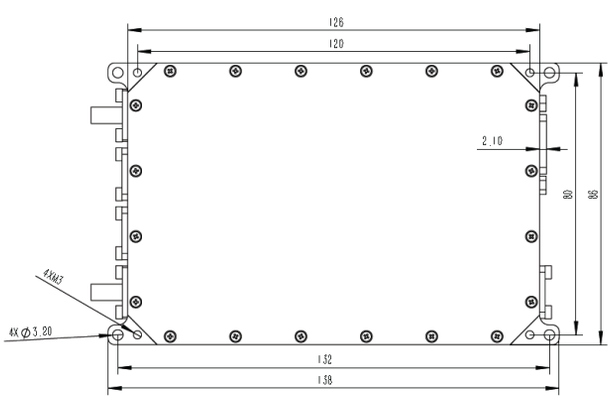
Typical value of the frequency stability: 1s: 1.2×10^{-13} 10s: 2.0×10^{-14} 100s: 5.6×10^{-15} 1000s: 1.7×10^{-15}

Technical Parameters

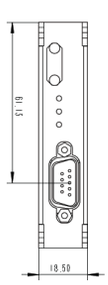
-FT91

Test Item		Technical Indicators
Standard input frequency		1-way, 10 MHz
Standard input power range		5dBm~15dBm
Standard input accuracy		$\pm 5\times10^{-7}$
Measured Input Frequency		1-way, 1MHz~30MHz
Measured input power range		5dBm~7dBm
Automatic lock time		＜ 5s
Storage temperature power supply	1s	$\leqslant 2\times10^{-13}$
	1000s	$\leqslant 3\times10^{-15}$
Working temperature		-20°C ~+70°C
Power supply		+12V~+15V
Current		≤ 0.5A
Body size		126mm×86mm×18.5mm

External Dimension



Unit：mm



DSUB9 Pin Definition：

1：The Ground
2：N/C
3：RS232-TX
4：RS232-RX
5：Locking Indication
6：Power supply: +12~+15V
7：N/C
8：The Ground
9：N/C