



Frequency stability

Tester







Product profile

FT91S is a cost-effective frequency comparator, with a measurement range of 1-30MHz, and an additional frequency stability of 5×10^{-13} at 10MHz, which is suitable for the integration of large-scale frequency test systems, and together with BDSTAR TIME's automatic control board and test software, it can be used to form an automated frequency test system with several hundred channels. The module adopts BDSTAR TIME's standard package, and the interface and commands are completely compatible with FT19.

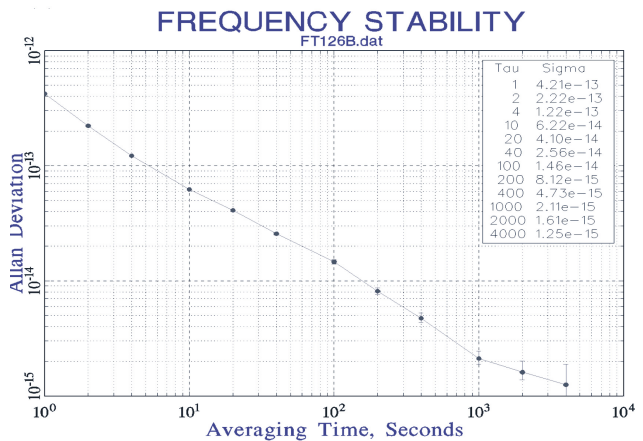
Product feature

- Background as low as $5 \times 10^{-13}/1S$, $3 \times 10^{-15}/1000S$
- Measured Input Frequency 1- 30MHz, Standard Input Frequency 10MHz
- Quickly determine the measured frequency, and start the measurement automatically
- Batch test systems can be formed with specific hardware and software.

Application scenarios

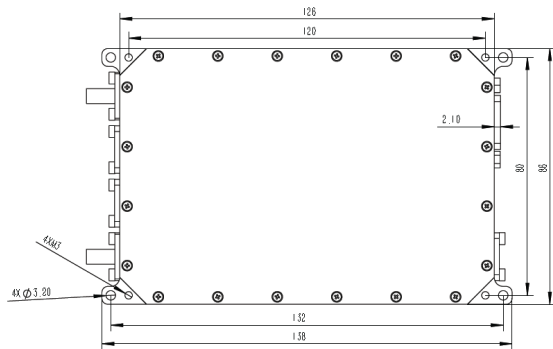
 Test measuring equipment	 Radio navigation system	 Radio control system
 Research institutes	 Measurement Sector	 Crystal Oscillator Manufacturing

Typical curve

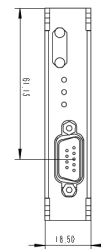


Test Item		Technical Indicators
Standard input frequency		1-way, 10 MHz
Standard input power range		5dBm~15dBm
Standard input accuracy		$\pm 5 \times 10^{-7}$
Measured Input Frequency		1-way, 1MHz~30MHz
Measured input power range		5dBm~15dBm
Automatic lock time		< 5s
Additional frequency stability (At 10 MHz input)	1s	$\leq 7 \times 10^{-13}$
	1000s	$\leq 7 \times 10^{-15}$
Working temperature		-20°C ~+70°C
Power supply		+12V~+15V
Current		$\leq 0.5A$
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