

XHTF1021 Compact Rb Atomic Clock

Features:

- Compact structure
- +12V low voltage, low power consumption
- RS-232C serial port communications
- 1PPS input synchronization, output standard second.

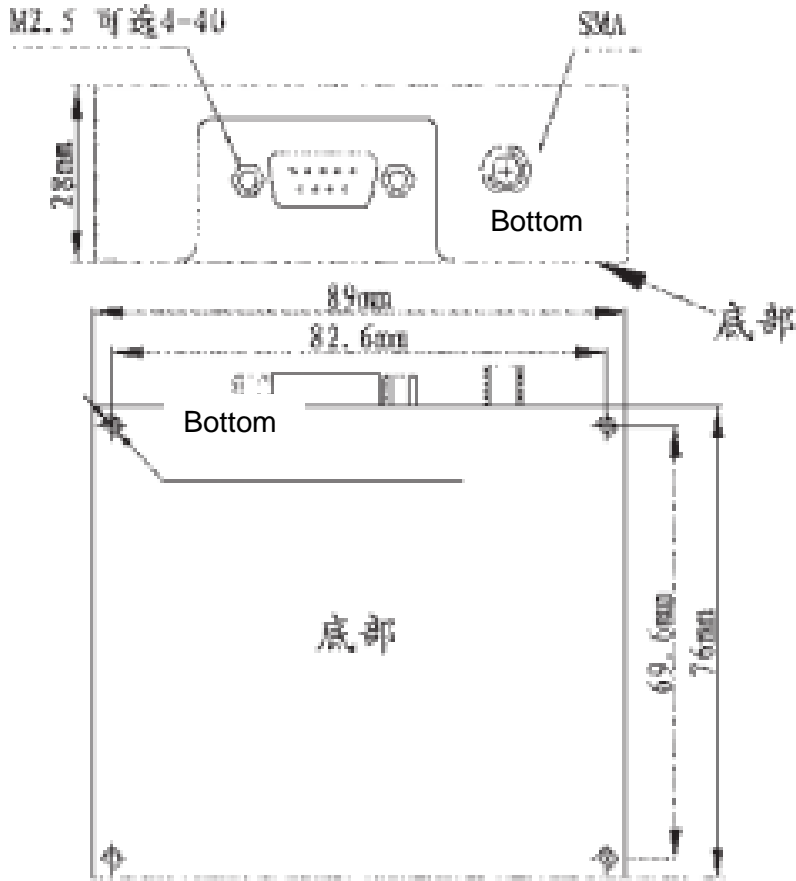


Main Specification:

		Basic	High Performance
Output signal		10MHz Sine Wave	
10MHz Output Level		CMOS level	
Accuracy		<5E-11	
Short term stability		<3E-11/1S <1E-11/10S <3E-12/100S	<1.5E-11/1S <5E-12/10S <1.5E-12/100S
Phase Noise (SSB)	@10Hz	<-100dBc / Hz	
	@100Hz	<-130dBc / Hz	
	@1KHz	<-140dBc / Hz	
Frequency drifting		<5E-12/day, <5E-12/month	
Steady state voltage (normal temp.)		≤7.8@12V, Max. Current 1.75A	
Power supply		+11.4 to +18Vdc	
Warm up time		≤7min lock	
Repeatability		≤2E-11	
Adjustment Range		≥2E-9 (internal adjustment) ≥2E-9 (external mechanical adjustment)	
1PPS input synchronisation (optional)		1pps synchronization: ≤±50ns Frequency accuracy: ≤1E-12/day (after one day discipline)	
Operating temperature		-20°C~+50°C	-40°C~+60°C
Temperature accuracy		<6E-10 ~ <2E-9	
Storage temperature		-40°C~+70°C	
MTBF		100,000 hours	
Connector		DB-9, SMA	
External size		89*76*28 mm	
Weight		≤0.3kg	



Dimension



Pin Definition

Pin NO.	Function	Pin NO.	Function
1	Lock	6	NC or 1pps input
2	GND	7	+12V
3	NC or RXD	8	NC or 1pps output
4	NC or TXD	9	Lock test
5	External power adjustment		