

XHTF1012LN Low Phase Rb Atomic Clock

Features:

- Ultra-low phase noise
- High short-term frequency stability
- RS-232C serial port communication
- 1PPS input synchronization, quick discipline

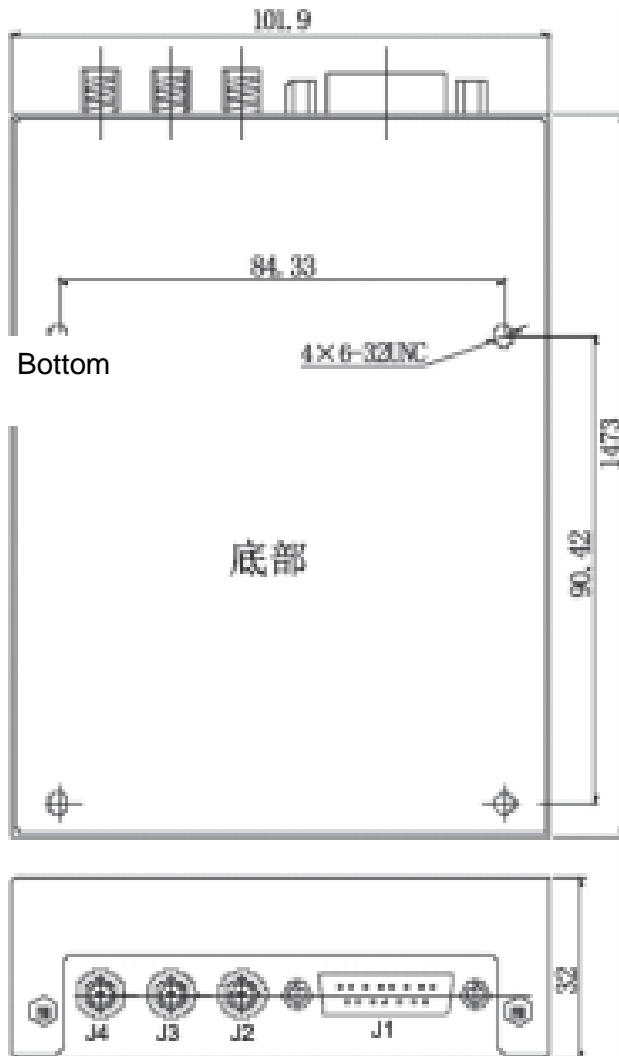


Main Specifications:

		Basic	High performance
Output signal		10MHz sine wave	
10MHz Output level		CMOS	
Accuracy		<3E-11	
Short term stability		<2E-11/1S <8E-12/10S <2E-12/100S	1E-11/1S 5E-12/10S 1E-12/100S
Phase Noise (SSB)	@1Hz	<-100dBc/Hz	<-105dBc/Hz
	@10Hz	<-130dBc/Hz	<-135dBc/Hz
	@100Hz	<-140dBc/Hz	<-150dBc/Hz
	@1KHz	<-150dBc/Hz	<-155dBc/Hz
	@10KHz	<-155dBc/Hz	<-160dBc/Hz
	@100KHz	<-157dBc/Hz	<-162dBc/Hz
Frequency drifting		<3E-12/day, <5E-11/month	
Power consumption (+24VDC)		Steady state consumption ≤17W@25°C, MAX. Consumption ≤50W in full temperature range	
Power supply		+24Vdc (+22~28V)	
Warm up time (normal temp.)		≤5min lock	
Repeatability		≤2E-11	
Frequency Adjustment range		≥2E-9 (mechanical adjustment) ≥2E-9 (digital adjustment)	
1PPS input synchronization precision		≤100ns	
1PPS input discipline accuracy		Average accuracy <1E-12/day	
Operating temperature		-20°C~+65°C	
Temperature accuracy		<5E-10	<3E-10
Storage temperature		-40°C~+70°C	
MTBF		200,000 hours	
Connector		DB-15, SMA	
External size		147.3*101.9*32(mm ³)	
Weight		≤0.9kg	



Dimensions:



Pin Definition

Pin NO.	Function	Pin NO.	Function
1	+24V	9	N/A
2	+24V	10	1PPS output
3	GND	11	N/A
4	GND	12	N/A
5	RXD	13	N/A
6	TXD	14	N/A
7	1PPS input	15	N/A
8	Lock		

J1: DB-15ZJ

J2: SMA 1PPS output

J3: SMA 1PPS input

J4: SMA 10MHz Sine wave output