

## XHTF1031H Miniature Rb Atomic Clock

### Features:

- +5V low power supply
- UART serial port communication
- Pin compatible with SA.3x

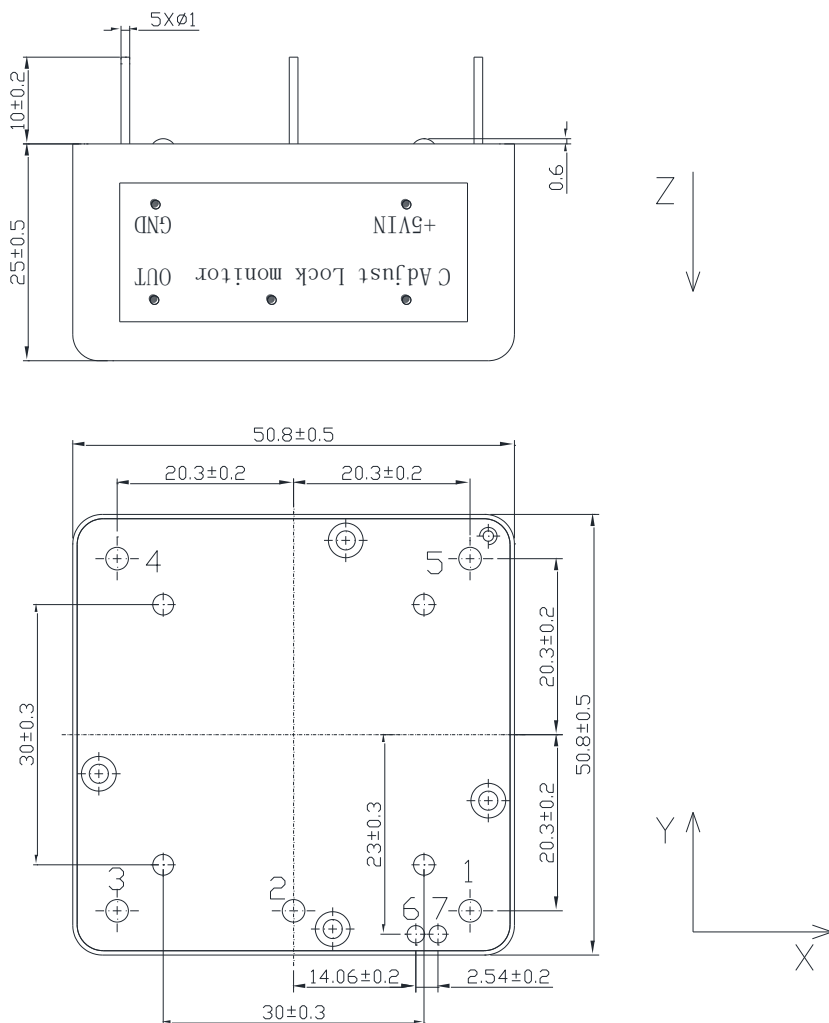


### Main Specification:

Output signal	10MHz	
10 MHz Output level	3.3V TTL	
Accuracy	$\leq 5E-11$	
Short term stability	$\leq 5.0E-11/1S$ $\leq 1.8E-11/10S$ $\leq 7.0E-12/100S$ $\leq 3.0E-12/1000S$	
Phase Noise (SSB)	@10Hz	< -95dBc/Hz
	@100Hz	< -125dBc/Hz
	@1KHz	< -135dBc/Hz
	@10KHz	< -140dBc/Hz
Frequency Drifting	$\leq 5E-12/day$	
Temperature Accuracy	$-5^{\circ}C \sim +60^{\circ}C \leq 8E-10$ $+20^{\circ}C \sim +40^{\circ}C \leq 2E-10$	
Steady State Power Consumption (normal temperature)	$\leq 6W @ 5V$ , maximum current 3.6A	
Power Supply	$+5V \pm 0.1V$	
Warm Up Time	$\leq 7min$ locked ( $+25^{\circ}C$ ) $\leq 15min$ locked ( $-5^{\circ}C$ )	
Repeatability	$\leq 2E-11$	
Frequency Adjustment range	$\geq \pm 1.5E-9$ (0V~5V, external electric level adjustment)	
Storage temperature	$-55^{\circ}C \sim +85^{\circ}C$	
External size	50.8*50.8*25(mm <sup>3</sup> ), about 65cc	
Weight	$\leq 0.2kg$	



### Dimensions



### Pin Definition

Pin NO.	Function	Description
1	Adjust Freq.	Used for frequency adjustment, input 0V~5V
2	Lock	Locked 0V, unlocked 5V
3	10MHz Output	10MHz output port
4	GND	Power ground, signal ground
5	+12V	Power port, +
6	RXD	RXD TTL level serial communication
7	TXD	TXD TTL level serial communication