

PRECISION TIMING

XHTF1031R Miniature Rb Atomic Clock

The XHTF1031R is a miniature rubidium atomic clock featuring low power consumption, compact structure, and compatibility with SA.3 series atomic clock, ideal for aviation and aerospace applications.

Overview

The **XHTF1031R Miniature Rb Atomic Clock** combines compact design with high precision timing capabilities. For detailed information, please [contact us](#).

Features

- Miniature structure
- +12V low power supply, low consumption
- Compatible with SA.3 series atomic clock
- Widely assembled on the time frequency system for aviation, aerospace, communication, network etc.

Main Specifications

Core Specifications

Specification		Typical	High performance
Phase Noise (SSB)	@10Hz	<-100dBc/Hz	<-105dBc/Hz
	@100Hz	<-120dBc/Hz	<-135dBc/Hz
	@1KHz	<-135dBc/Hz	<-140dBc/Hz

Specification		Typical	High performance
Operating temperature	-J	+15°C~+65°C ≤2E-10	-30°C~+65°C ≤8E-10
	-C	-20°C~+15°C ≤6E-10	
	-H	+40°C~+70°C ≤2E-10	-30°C~+70°C ≤8E-10

Pin Connection Details

Pin Number	Function	Description
1	Freq. adjust	For freq. adjust, input 0~5V
2	EL lock	CMOS lock 0V unlock 5V
3	10MHz output	10MHz output terminal
4	GND	For power & signal
5	+12V	Power port, +