

PRECISION TIMING

XHTF1003-C1 Rubidium Frequency Standard

The XHTF1003-C1 is a high-performance rubidium frequency standard featuring excellent phase noise characteristics, compatible with LPRO Rb atomic clock, and offering RS-232C communication capabilities.

Overview

The **XHTF1003C1 Rb Atomic Clock** is designed for demanding applications requiring high precision timing and frequency stability. For detailed information, please [contact us](#).

Features

- High performance Rb atomic clock
- Anti-vibration, shock prevention design
- RS-422 serial port communication
- Be suitable for air-borne, military truck environment application

Main Specifications

Core Specifications

Specification		Typical	High performance
Phase Noise (SSB)	@1Hz	<-75dBc/Hz	<-80dBc/Hz
	@10Hz	<-100dBc/Hz	<-105dBc/Hz
	@100Hz	<-120dBc/Hz	<-135dBc/Hz
	@1KHz	<-135dBc/Hz	<-140dBc/Hz
	@10KHz	<-145dBc/Hz	<-148dBc/Hz

Pin Connection Details

Pin Number	Function	Pin Number	Function
1	RX-	6	NC
2	RX+	7	NC
3	Lock status	8	+28.5V(±3V)
4	TX-	9	GND
5	TX+	—	

- J1: SMA, RF OUTPUT
- J2: J14A-9