

**RUBIDIUM ATOMIC OSCILLATOR**  
(1PPS Synchronization Rubidium Frequency Standard)

**Rb-2110CB**

- Features : 19 inches rack type
- : Excellent frequency stability
- : 1PPS synchronization type

Product number (please contact us)  
**X1G0025400xxx**



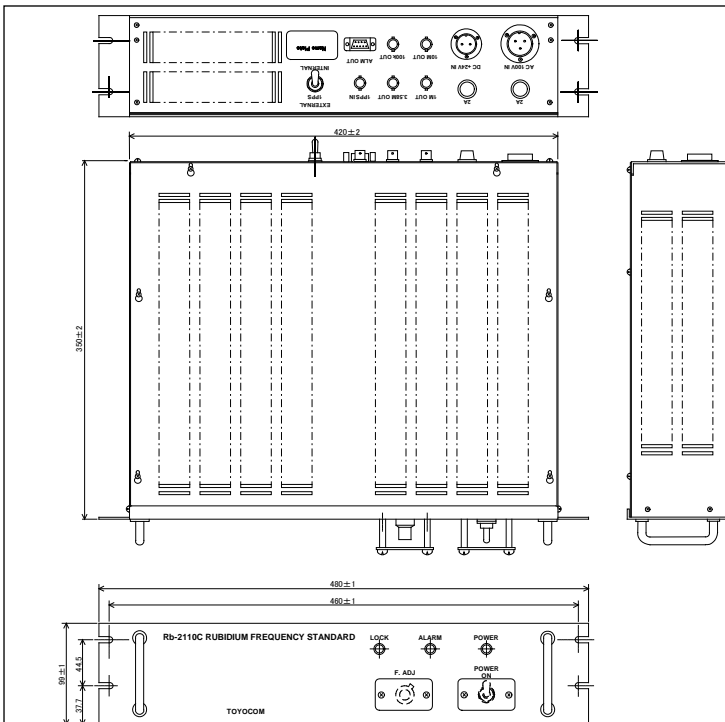
**Specifications (characteristics)**

Parameter	Standard	Condition
Frequency stability	Long term	$< 2 \times 10^{-11}$ / month
	Short term	$< 1 \times 10^{-11}$ / s
	vs Temperature (1)	$< \pm 1.5 \times 10^{-10}$ / 0 °C to +50 °C
	vs Temperature (2)	$< 1 \times 10^{-10}$ / -10 °C to 0 °C
	Voltage sensitivity	$< \pm 1 \times 10^{-11}$
Output	Frequency	10 MHz, 3.58 MHz, 1 MHz, 100 kHz
	Level	$> 1$ Vrms / 50 $\Omega$ (10 MHz, 1 MHz, 100 kHz) $2$ V pp $\pm 20$ % / 75 $\Omega$ (3.58 MHz)
	Alarm	Relay contact on back panel connector
Frequency adjustment	$> 2 \times 10^{-9}$	Front panel dial
Supply voltage	AC	AC 100 V $\pm 10$ % (50 or 60 Hz)
	DC	DC +24 V $\pm 1$ V
Battery operation	$> 20$ min	+25 °C after AC power off
Dimensions (mm)	99(H) x 480(W) x 350(D)(mm)	—
Weight	12 kg Typ.	—
1PPS Input	50 $\mu$ s Positive Pulse / 50 $\Omega$ TTL Level	External Synchronization Option
Frequency Synchronization Accuracy	$< \pm 1 \times 10^{-12}$ (24 h Average)	External Synchronization Option

- 1) The specification is subject to change without notice.
- 2) When alarm is generated, output frequency is swept about  $\pm 10 \times 10^{-6}$ .

**External dimensions**

(Unit:mm)



Pin map of each connector

	AC 100V IN	DC +24V IN
Connector code (Receptacle)	CN-2103RJ	CN-1602RJ
Connection		
Connector code (Plug)	CN-2103RP	CN-1602RP
<b>ALARM OUT</b>		
Connector code (Receptacle)	HDEB-9S	
Connection		
Connector code (Plug)	HDEB-9P	