

OCXO-4X



APPLICATIONS

- Time base
- Measuring equipment synthesizer
- Reference timing system

FEATURE

- SC-Cut based OCXO designs
- Supply voltage 5V
- Short warm-up time

- High precision and stability
- Low phase noise

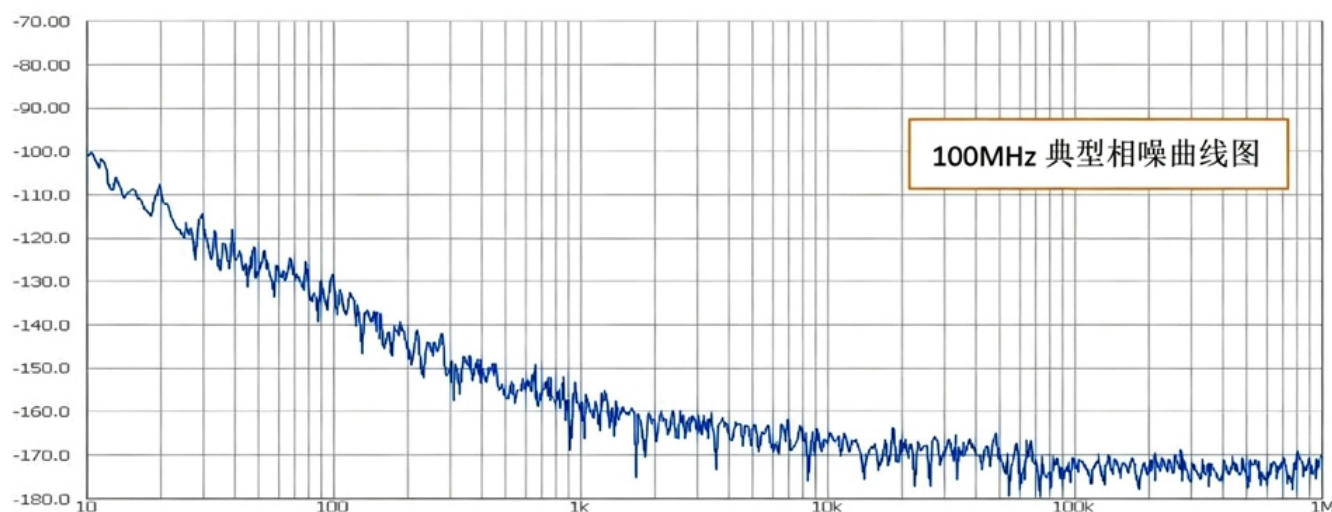


Electrical Specifications

Item/Type		Electrical Specifications
Nominal Frequency		100MHz
Frequency Stability	Initial Frequency Accuracy	$\pm 100\text{ppb}$ ($T_A=25^\circ\text{C}$)
	vs. Voltage	$\pm 5\text{ppb}$ ($V_{DD}\pm 5\%$)
	vs. Load	$\pm 5\text{ppb}$ ($CL\pm 5\%$)
	vs. Aging	$\pm 2\text{ppb}$ /after 30 days, $\pm 30\text{ppb}$ /first year
	Warm-up Time	≤ 3 minutes ($\pm 100\text{ppb}$, 25°C)
Output Type	Waveform	Sine Wave
	Load	50Ω
	Signal Power	8dBm max.
	Harmonic	-30dBc max.
	Spurious	-70dBc max.
Frequency Control	Pulling Range	$\pm 0.5\text{ppm}$ min.
	Slope	Positive
	Linearity	10% max.
	Control Voltage Range	0~VDD
Power Supply	Supply Voltage	5V
	Warm-up Consumption	1.5W max.
	Steady-state Consumption	0.4W max.
Storage Temperature		$-55^\circ\text{C} \sim +125^\circ\text{C}$

Phase Noise

-100dBc/Hz	Offset 10Hz	@25°C
-132dBc/Hz	Offset 100Hz	
-160dBc/Hz	Offset 1KHz	
-168dBc/Hz	Offset 10KHz	
-170dBc/Hz	Offset 100KHz	



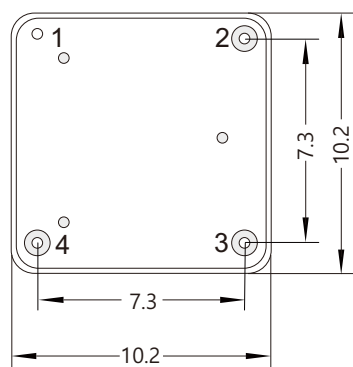
OCXO-4X

Frequency Stability vs Operating Temperature Range					
Temp. Range	-10°C ~ +60°C	-20°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +85°C	-55°C ~ +85°C
Frequency Stability					
±20ppb	★	✖	✖	✖	✖
±50ppb	★	★	★	✖	✖
±100ppb	★	★	★	★	✖
±200ppb	★	★	★	★	★

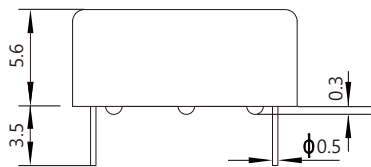
Note: ★:Available; ✖:Not available

Mechanical Dimensions

Units:mm



Bottom View



Side View

Pin	Function
# 1	GND
#2	Output
#3	VDD
#4	Control Voltage