

OCXO-7X



APPLICATIONS

- Time base
- Measuring equipment synthesizer
- Reference timing system

FEATURE

- SC-Cut based OCXO designs
- Supply voltage 5V/12V
- Short warm-up time

- High precision and stability
- Low phase noise

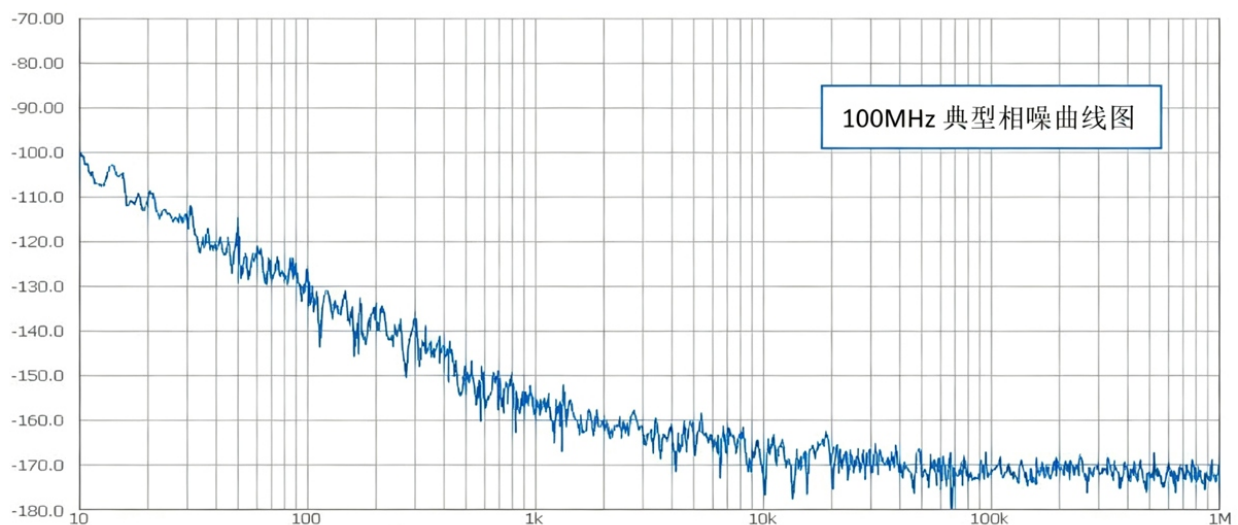


Electrical Specifications

Item/Type		Electrical Specifications
Frequency Range		40MHz~120MHz
Frequency Stability	Initial Frequency Accuracy	$\pm 100\text{ppb}$ (TA=25°C)
	vs. Voltage	$\pm 5\text{ppb}$ (VDD $\pm 5\%$)
	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	50 Ω
	Signal Power	9dBm 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	0~5V/0~9V
Power Supply	Supply Voltage	5V/12V
	Warm-up Consumption	2.5W max.
	Steady-state Consumption	1.0W max.
Storage Temperature		-55°C ~ +125°C

Phase Noise@100MHz

-103dBc/Hz	Offset 10Hz	@25°C
-135dBc/Hz	Offset 100Hz	
-163dBc/Hz	Offset 1KHz	
-170dBc/Hz	Offset 10KHz	
-175dBc/Hz	Offset 100KHz	

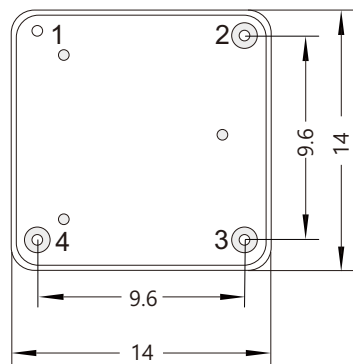


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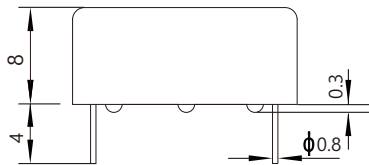
Frequency Stability vs Operating Temperature Range					
Temp. Range	-10°C~+60°C	-20°C~+70°C	-40°C~+70°C	-40°C~+85°C	-55°C~+85°C
Frequency Stability					
±20ppb	★	✖	★	✖	✖
±50ppb	★	★	★	✖	✖
±100ppb	★	★	★	★	✖
±200ppb	★	★	★	★	★
Note: ★:Available; ✖:Not available					

Mechanical Dimensions

Units:mm



Bottom View



Side View

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