

TCXO

Description

TCXO is a technology that utilizes an algorithm to compensate for temperature variations to maintain frequency accuracy, and is characterized by miniaturization and low cost. CT through independent research and development, we have made TCXOs with lower phase noise, and reached a level close to that of OC with the TC solution. For example, the phase noise of this series reaches $-143\text{dBc}/\text{Hz}@1\text{KHz}$ (100MHz), which can be widely used in various industries.

Product view



TCXO View

Key features

- Low Phase Noise
- Temp Stability $\leq \pm 0.5\text{ppm}(-40-85^\circ\text{C})$
- Supports Wide Temperature Range
- Miniaturization $14.4*9.2*5.8\text{mm}$

Application Scenarios

- Wired and wireless Communication
- Power Grid Network
- Instruments and Apparatus
- Industrial control
- Microwave Radio Frequency

Key Performance Indicators

	Item	Parameters
Basic Performance Indicators	Frequency	100MHz
	Supply Voltage	3.3V
	Waveform	Sine Wave
	Frequency Tolerance vs. OperatingnTemperature Range	$\pm 0.5\text{ppm}(-40\sim+85^{\circ}\text{C})$ $\pm 2\text{ppm}(-55\sim+105^{\circ}\text{C})$
Phase Noise @25°C (@10M)	10Hz	-75dBc/Hz
	100Hz	-115dBc/Hz
	1kHz	-143dBc/Hz
	10kHz	-163dBc/Hz
	100kHz	-165dBc/Hz
Environment al Conditions	Operating Temperature	$-40^{\circ}\text{C}\sim 85^{\circ}\text{C}$ $-55\sim+125^{\circ}\text{C}$
	Storage Temperature	$-55^{\circ}\text{C}\sim 105\text{C}$
Vibration	Test Condition: 0.75mm ;acceleration:10g;10Hz ~ 500Hz, one cycle per 30 min, test 2 hour. (3 times for each 3 directions X ,Y , Z), IEC 68-2-06 Test Fc.	
Shock	50g; 11ms; half sine wave (3 times for each 3 directions X ,Y , Z),IEC 68-2-27 Test Ea/Severity 50A.	
Package size	14.4*9.2*5.8mm	