

OCXO

Oven Controlled Crystal Oscillator

Description

OCXO is a crystal oscillator that utilizes a constant temperature bath to keep the temperature of the quartz crystal resonator in the crystal oscillator constant, minimizing the change in oscillator output frequency caused by changes in ambient temperature.

Product view



Key features

- Ultra-miniaturization
- Ultra-high stability
- Low phase noise
- Low power consumption
- Clock Module
- Ultra-High Short-Term Stability

Application Scenarios

- Wired and wireless Communication
- Radar and ECM
- Industrial Control
- Instruments and Apparatus
- Base Station

Ultra-High Stability

Series	Temp Stability(ppb)	Aging Pre Day (ppb)	Phase Noise (dBc/Hz@1 K)	Operating Temp (°C)	Supply Voltage (V)	Package size (mm)	Typ Frequency (MHz)
O5050	$\leq \pm 0.01$	$\leq \pm 0.05$	-150	-40~+70 -55~+85	5/12	DIP50.8*50.8*15	10
O3627	$\leq \pm 0.1$	$\leq \pm 0.1$	-150	-40~+85 -55~+85	3.3/5/12	DIP36.2*27.2*12.7	10
O2525 O2522	$\leq \pm 0.2$	$\leq \pm 0.2$	-155	-40~+85 -55~+85	3.3/5/12	DIP25.4*25.4*12.7 DIP25.4*22*12	10
O2020	$\leq \pm 0.5$	$\leq \pm 0.5$	-155	-40~+85 -55~+85	3.3/5/12	DIP20.2*20.2*12.0	10

Low Phase Noise、Ultra-High Short-Term Stability

Series	Temp Stability (ppb)	Allen@1s	Phase Noise (dBc/Hz)	Operating Temp (°C)	Supply Voltage (V)	Package size (mm)	Typ Frequency (MHz)
O5050 O3627	$\leq \pm 0.5$	$\leq \pm 1.5E-13$ $\leq \pm 8E-14$	-122@1HZ -147@10HZ -161@100HZ -165@1KHZ	-40~+70 -55~+85	12	DIP50.8*50.8*15 DIP36.2*27.2*12.7	5-20
O3627 O2525	$\leq \pm 5$	$\leq \pm 8E-12$	-80@1HZ -113@10HZ -146@100HZ -168@1KHZ	-40~+85 -55~+85	5/12	DIP36.2*27.2*12.7 DIP25.4*25.4*12.7	80-120
O1409	$\leq \pm 5$	$\leq \pm 2E-11$	-105@10HZ -135@100HZ -162@1KHZ -175@10KHZ	-40~+85 -55~+85	3.3/5	SMD14.4*9.5*6.5	80-120

Low Phase Noise、 Ultra-High Short-Term Stability

Series	Temp Stability (ppb)	Aging Pre Day (ppb)	Phase Noise (dBc/Hz@1K)	Operating Temp (°C)	Supply Voltage (V)	Package size (mm)	Typ Frequency (MHz)
O1409	$\leq \pm 2$	$\leq \pm 1$	-155	-40~+70 -55~+85	3.3/5	SMD14.4*9.5*6.5	5-100
O0907	$\leq \pm 10$	$\leq \pm 1$	-162	-40~+85 -55~+85	3.3/5	SMD9.7*7.5*3.9	10/20
O0705	$\leq \pm 10$	$\leq \pm 1$	-162	-40~+85 -55~+85	3.3/5	SMD7.7*7.5*3.3	10/20

Clock Module

Series	Holdover	Phase Noise (dBc/Hz@1K)	Operating Temp (°C)	Supply Voltage (V)	Package size (mm)	Typ Frequency (MHz)
D5050	$\leq \pm 1.5\mu\text{s}/24\text{h}$ $\Delta T = \pm 10^\circ \text{C}$	-155	-40~+70 -55~+85	5	DIP50.8*50.8*18	5-25
D3627	$\leq \pm 1.5\mu\text{s}/24\text{h}$ $\Delta T = \pm 2^\circ \text{C}$	-155	-40~+85 -55~+85	3.3/5	DIP36.2*27.2*15	5-10
D2020	$\leq \pm 50\mu\text{s}/24\text{h}$ $\Delta T = \pm 40^\circ \text{C}$	-155	-40~+85 -55~+85	3.3/5	DIP20*20*13	8.192-40