

Differential Oscillator in AI Server



Overview

Differential clock crystal oscillators play an important role in enabling high-speed, large-capacity data communication in areas such as AI servers, offering enhanced noise resistance compared to standard clock crystal oscillators. Kyocera Corporation announced the launch of the "X Series" differential clock oscillators, which achieve industry-leading ± 1.30 fs (femtosecond) low phase jitter and low noise. Mass production began in January 2026. They combine industry-leading 30 femtosecond phase jitter with reduced power consumption, making them attractive for. Differential oscillators can generate high-quality differential clock signals, have excellent resistance to common-mode interference and noise, and can provide large-amplitude and high-frequency clock signals, especially suitable for driving long lines.

Article Content

Kyocera starts mass production of low-jitter differential clock ...

Kyocera has begun mass production of its X Series differential clock crystal oscillators with 30-fs phase jitter, targeting AI servers, optical modules and high-speed data infrastructure.

Kyocera Releases 30fs Jitter Differential Clock Oscillator

Kyocera's X Series differential clock oscillators deliver 30 fs jitter and lower power for AI servers, optical links, storage, and ADAS designs.

Saisi | Time Server, Crystal Oscillator, Atomic clock,

New Release | Saisi's ultra-low jitter differential crystal oscillator empowers high-speed interconnection of AI servers and optical modules. The exponential growth of AI computing power is

Tai-Saw Technology Enters AI Server Supply Chain with 400 Gbps ...

Tai-Saw Technology's Differential Oscillators Enter AI Server and GPU Module Supply Chains, Aiming for 800 Gbps Production by Late 2026 Tai-Saw Technology has just unlocked a new chapter in AI ...

How Crystal Oscillators Enable AI Servers

GlobalSpec Product Announcement for How Crystal Oscillators Enable AI Servers - High-stability crystal oscillators provide precise clock signals for AI servers and optical modules, ensuring computational

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