

Taitien OO-U Differential Crystal Oscillator : Precision Meets Compact Design



Taitien's Low G-Sensitivity OCXO: The Timekeeping Solution for Aerospace Technology

Description



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Overview

The OO-U Crystal Oscillator series is a groundbreaking solution offering industry-leading specifications in a remarkably small form factor. Here, we delve into the technical prowess of the OO-U series, highlighting key features and applications.

Ultra-Compact Package (2.0 x 1.6mm)

The OO-U series boasts an impressively small package size of just 2.0 x 1.6 mm. This miniature footprint is ideal for modern electronic designs where board space is at a premium. Despite its compact size, the OO-U series does not compromise on performance, making it an excellent choice for space-constrained applications such as high-density circuit boards used in optical communication equipment and advanced computing systems.

Low Power Consumption (15mA typical @ LVDS)

Power efficiency is a critical factor in Data Centers, and the OO-U series excels in this regard. With typical power consumption as low as 15 mA for Low-Voltage Differential Signaling (LVDS) outputs, these oscillators are designed to operate efficiently without compromising performance.

Ultra-Low Jitter (as low as 50fs @ 156.25M(12Khz ~ 20MHz))

One of the standout features of the OO-U series is its ultra-low jitter performance, with typical jitter values as low as 50 femtoseconds (fs) over the 12 kHz to 20 MHz frequency range. Low jitter is crucial in applications where signal integrity and timing accuracy are paramount, such as in optical networks and PCI Express Gen 6 systems.

Wide Operating Temperature Range (Support up to 125°C)

The OO-U series is engineered to perform reliably in a wide range of operating temperatures, with specific support up to 125°C. This wide temperature tolerance ensures that the oscillators can be deployed in harsh and demanding environments, including industrial and automotive applications where thermal stability is essential.



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Category

1. Ewave
2. RF-Microwave
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Date Created

August 16, 2024

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