



The Powerhouse of Precision – Exploring the New VCXO VM-K & VN-K Series

Description

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Taitien introduced the new VM-K and VN-K Voltage-Controlled Crystal Oscillator (VCXO) series, a marvel of engineering that's making waves in the industry.

Smaller Size, Bigger Impact (as small as 2.5 x 2.0 x 1 mm)

A most striking feature of its remarkably compact form factor. Measuring just 2.5x2.0x1.0mm for VN-K, this miniature marvel packs an impressive punch. Its diminutive size opens up a world of possibilities for applications where space is at a premium, allowing for seamless integration into even the most confined electronic environments.

High Frequency, Unrivaled Performance (upto 2.1GHz)

The new VCXO series stands tall with an astonishing frequency range that spans from 15MHz to an eye-watering 2.1GHz. This unprecedented capability means it can generate stable and precise clock signals at speeds and is ideal for high-speed data transmission to advanced modulation techniques.

Ultra Low Phase Noise: Precision Perfected (Typical RMS Jitter: 0.15ps)

The VN-K & VM-K series VCXO delivers with its ultra-low phase noise, typically hovering at a mere 0.15 ps. This remarkable feat ensures that the output signal remains steadfast and unwavering. Whether in telecommunications, radar systems, or high-speed digital communication, the new VCXO's low phase noise keeps signals on track and data flowing smoothly.

A Protocol Playground: Versatility at its Core (LVDS/LVPECL/ HCSL/CML support)

VN-K and VM-K VCXO support multiple differential output protocols including LVDS, LVPECL, HCSL, and CML. This adaptability ensures that the VCXO plays well with high-frequency electronic components, offering engineers a flexible tool for a multitude of applications.

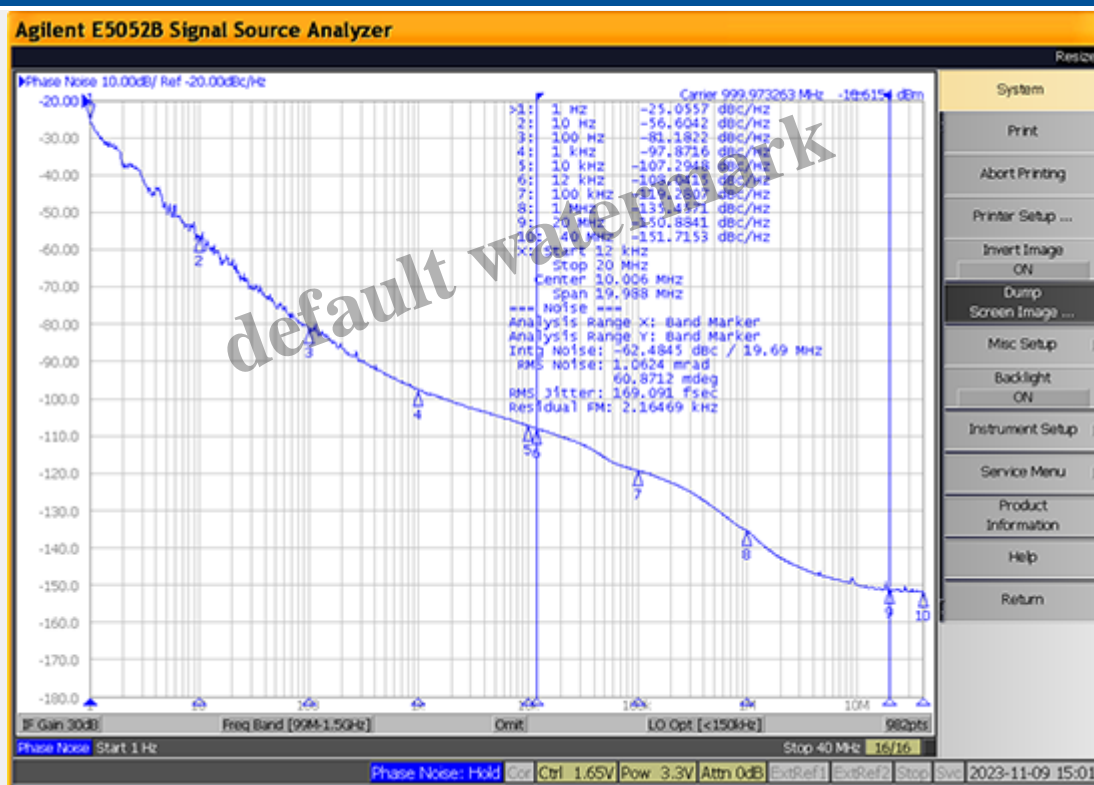
Features

- Tiny Size: VN-K (2.5 x 2.0mm), VM-K (3.2 x 2.5mm)
- Good Jitter Performance: 0.15ps Typ
- High Frequency Range: 15MHz~2.1GHz
- Pulling Range: $\pm 50 \sim \pm 250$ ppm
- MSL?Level 1

Applications

- Defense Systems
- Mobile Radar Station
- Gigabit Ethernet, SONET/SDH
- Server & Storage, Data Center
- SD/HD Video, FPGA Clock Generation

Phase Noise



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About Taitien

CDI is an authorized distributor for **Taitien**. Taitien offers OCXO, TCXO, VCXO, Crystal, and Crystal Oscillators. Taitien frequency products support various fields including automotive, consumer electronics, information technology and telecommunications. Taitien focuses on innovation and invests heavily in research & development.

About Component Distributors, Inc. (CDI)

Component Distributors, Inc. (CDI) is a value-added distributor of high-performance LED, Power, RF & Microwave, Wireless and Sensor component technologies. CDI distributes globally and provides local application support and customer service across the Americas.

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