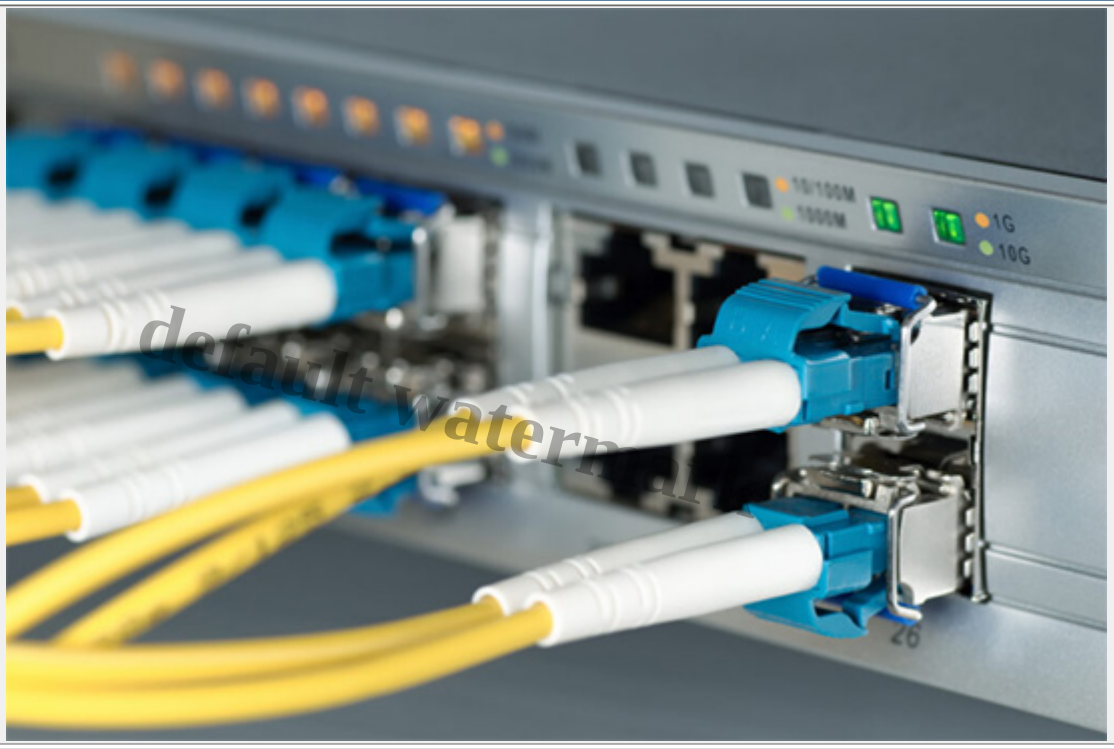


Taitien Electronics Introduces Ultra Low Jitter Crystal Oscillator for High Speed Optical Modules

Description

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Taitien Electronics Introduces Ultra Low Jitter Crystal Oscillator for High Speed Optical Modules



Rapid adoption of 5G technology and IoT devices has driven the demand for high data rate optical modules, especially from data centers for inter- and intra-communication purposes. Increasing the optical module data rate from the current 100Gbps to 400Gbps/800Gbps is an efficient way to upgrade the network infrastructure.

PAM4 signal modulation and coherent technology are key for the new high data rate optical module design. To fulfill the tight design requirements of the new PAM4 type optical module, a high frequency, tight stability, low jitter, low power consumption, and small size differential crystal oscillator is very critical.

As a leading company in Frequency Control Products, Taitienâ€™s crystal oscillators are being used at the forefront of optical module industry. Recently, we released a new series of crystal oscillators (OB-U series). Its ultra-low jitter performance (50fs typical, 100fs max), low current consumption, and smaller size (2.5 x 2.0 mm) make it the best fit for PAM4 type optical module designs for data centers, servers, and networking applications.

Features

- Various packages: 7.0 x 5.0 mm, 5.0 x 3.2 mm, 3.2 x 2.5 mm, 2.5 x 2.0 mm, to support flexibility and miniaturizati of PCB design
- Ultra low integrated phase jitter 50fs, 12kHz to 20MHz
- Operation supply voltage: 1.8V, 2.5V and 3.3V
- Wide operation temperature range, -45Â°C to 85Â°C, 105Â°C or 125Â°C
- Multiple options for differential signal output: LVPECL /LVDS/HCSL
- Operation supply voltage: 1.8V, 2.5V and 3.3V
- Pb-free/RoHS compliant

Applications

- Optical transceiver modules for data center, switch and router
- High Speed A/D, D/A Converters
- Testing and Instrument
- Silicon photonics

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Click here to learn more about the product series offered.

Request a Quote

CDI works continuously with our vendor partners to connect our customers to products and solutions that accelerate their time to market. CDI will leverage its product knowledge, technical expertise, and evaluation tools to find the right solution for your design. For more information, or to learn how we can help drive your success, please visit **rf.cdiweb.co** or email us at **sales@cdiweb.com**.

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 custo service across the Americas.

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Category

1. Ewave
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