New Ultra Small Low Noise PLL Module Solution

Hopkinton, MA – CTS Corporation (NYSE: CTS) has announced a new low noise PLL module. Market demand for high definition video streams and simultaneous connectivity amongst multiple applications/users require OEM telecom equipment to establish new means to transport high capacity multimedia traffic. As a result, system manufacturers focus their designs on increasing channel capacity and transport speed while keeping the jitter noise level to the lowest minimum possible. Technology protocols that involve connectivity to the cloud such as IoT (Internet of Things), mobile HD video and autonomous driving systems are expected to lead market demand for transport within 5G network systems. Various system’s timing stages and noise propagation within networks that operate at high frequencies/bit rate may introduce challenges specifically during signal synthesis or clock recovery stages. Any spurious noise generated while synthesizing or recovering a network clock can propagate through the system and may corrupt data packets. Traditionally, system design engineers have used multi-stage timing that locked at one end to a stable low frequency reference source and at the other end to a PLL circuitry that ultimately multiplied the frequency to higher frequency rates for transmission.

To eliminate potential parasitic noise generation and propagation, CTS has designed a new integrated miniaturize PLL module solution. This new device was added to our product offering as an expansion to the CTS current ASIC based PLL product family. The new PLL solution offers dual LVCMOS outputs, enable/disable and lock detect features. Its miniature size allows tape and reel packaging for pick and place assembly.

The new ultra-small PLL module VFJA9591C platform offers these benefits:

- Size 9.5x9.1x3.6mm;
- Output Frequency range 10MHz to 200MHz Dual ended
- Input Frequency range 10MHz to 160MHz
- +3.3V LVCMOS
- Phase noise at 100KHz < -160dBc/Hz

Market Applications

- Backhaul Timing
- Wireless Communication
- Broadband Access
- Microwave PTP & PTMP
- Military Communication
- Base Stations
- Autonomous Driving
- Digital Video
- Test and Measurement
- Radar systems

www.ctscorp.com
Product Summary

VFJA9591C @25MHz

Production volume and samples are available now. For more information, please call +1-800-982-5737 (North America), +65-6481-1466 (Asia) or +1-508-435-6831 (all other regions), email frequencysales@ctscorp.com. Visit our website at www.ctscorp.com for more information and to contact a supporting CTS Sales Representative or one of CTS many distribution partners.

About CTS
CTS (NYSE: CTS) is a leading designer and manufacturer of products that Sense, Connect and Move. The company manufactures sensors, actuators, and electronic components in North America, Europe, and Asia. CTS provides solutions to OEMs in the aerospace, communications, defense, industrial, information technology, medical, and transportation markets.

For more information on CTS Corporation, please visit www.ctscorp.com.

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