

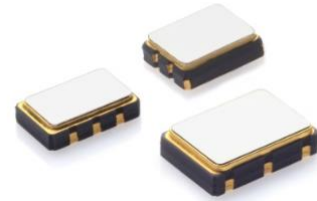


February 1, 2019

FOR IMMEDIATE RELEASE

Low Jitter HCSL Output Clock Oscillators

Lisle, IL – CTS Corporation (NYSE: CTS) announces three new low jitter clock oscillators added to its family of low noise differential devices offering High-Speed Current Steering Logic [HCSL] output. HCSL outputs are found in high-speed bus architectures like PCI Express [PCIe] interfaces and high definition video applications primarily supported by Intel and Nvidia chipsets.



CTS Models 643H, 645H and 647H offer stability options of ± 20 , ± 25 , ± 30 , ± 50 and ± 100 ppm, input voltages at +2.5V or +3.3V and typical phase jitter performance of <500fs. Along with standard commercial and industrial temperature range options, these new models also support the extended range of -40°C to +105°C for fan-less applications.

Standard product features, common market applications and new series platforms are summarized below. Please refer to individual data sheets on the CTS website to view more performance characteristics.

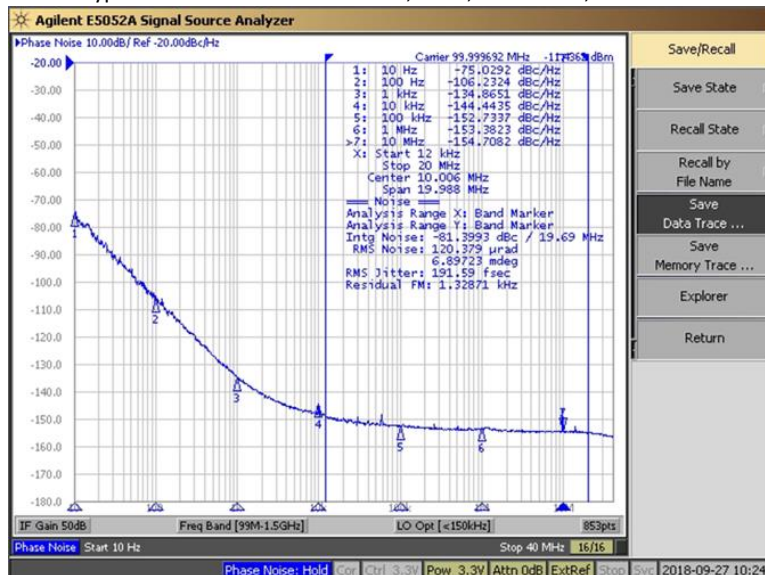
Product Features

- Fundamental or 3rd Overtone Crystal
- Low Phase Jitter Performance
- Small Ceramic Surface Mount Packages
 - 7.0mmx5.0mm - 5.0mmx3.2mm - 3.2mmx2.5mm
- Common Frequencies Available [Output and Package Dependent]

- 25.00MHz	- 27.00MHz	- 50.00MHz	- 100.00MHz
- 106.25MHz	- 125.00MHz	- 155.52MHz	- 156.25MHz

Contact factory for availability of frequencies not listed.
- +2.5V or +3.3V Operation
- Output Enable Standard
- Tape and Reel Packaging

Typical Phase Noise – 100.00MHz, HCSL, VCC = 3.3V, TA = +25°C



Market Applications

- PCI Express [PCIe]
- Data Storage Systems
- Ethernet Line Cards
- Serial ATA Express [SATAe]
- Intel and Nvidia Chipsets
- Network Servers
- Switches and Routers
- Set-Top Boxes/DVRs

Product Summary

[Selector Guide](#)

MODEL	PACKAGE SIZE [mm]	OUTPUT LOGIC	FREQUENCY [MHz]	PHASE JITTER [fs Typ]	STABILITY	SUPPLY VOLTAGE	TEMPERATURE RANGE
643H	3.2 x 2.5	HCSL	13.5 – 156.25	500	±25ppm	2.5V	-20°C to 70°C
645H	5.0 x 3.2				±30ppm	3.3V	-40°C to 85°C
647H	7.0 x 5.0				±50ppm		

http://www.ctscorp.com/connect_product_line/clock-oscillators/

Sales Contact

Production volume and samples are available now. For more information call +1-800-982-5737 (North America), +65-6481-1466 (Asia) or +1-508-435-6831 (all other regions), E-mail: frequencysales@ctscorp.com, see our website for more information as well as to contact a CTS Sales Representative or one of CTS’s 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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