New High Frequency Fundamental VCXOs

Hopkinton, MA – CTS Corporation (NYSE: CTS) announces a new family of high frequency fundamental VCXOs in 5.0x3.2mm and 7.0x5.0mm footprints, featuring clock rates up to 250MHz, phase jitter as low as 50fs typical; available in HCMOS, LVPECL and LVDS outputs, stability options of ±20, ±25 and ±50ppm, Absolute Pull Range [APR] at ±50ppm minimum and linear voltage tuning over a small range. Six new models in this series provide the design engineer a low cost, spacing saving, high performance solution for their complex electronic systems.

The new CTS VCXOs support multiple market segments covering telecommunications, computer processing, consumer and industrial electronics; delivering superior phase noise performance, a high level of frequency stability and economy of scale. For example, when coupled with a phase locked loop [PLL] device, it provides the tuning function that synchronizes a transceiver output to an input source; maintaining phase lock, cleaning unwanted jitter, yielding a signal that keeps data integrity intact.

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

Product Features
- Ultra-Low Phase Jitter Performance
- High Frequency Fundamental Crystal
- Small Ceramic Surface Mount Packages
  - 7.0mmx5.0mm
  - 5.0mmx3.2mm
- Standard Frequencies Available
  - 100.00MHz
  - 122.88MHz
  - 125.00MHz
  - 153.60MHz
  - 155.52MHz
  - 156.25MHz
  - 166.00MHz
  - 200.00MHz
  - 204.08MHz
  - 245.76MHz
- Output Enable Standard
- Tape and Reel Packaging
- Output Types Available
  - HCMOS
  - LVPECL
  - LVDS

Market Applications
- Small Cells
- Wireless Communication
- Broadband Access
- SONET/SDH/DWDM
- Base Stations
- Ethernet/GbE/SyncE
- Digital Video
- Test and Measurement

www.ctscorp.com
Product Summary

VCXO Selector Guide

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PACKAGE SIZE [mm]</th>
<th>OUTPUT LOGIC</th>
<th>FREQUENCY [MHz]</th>
<th>PHASE JITTER [fs Typ]</th>
<th>TOTAL STABILITY</th>
<th>ABSOLUTE PULL RANGE</th>
<th>SUPPLY VOLTAGE</th>
<th>TEMPERATURE RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>315</td>
<td>5.0 x 3.2</td>
<td>HCMOS</td>
<td>100 - 170</td>
<td>50</td>
<td>±20ppm</td>
<td>±50ppm</td>
<td>3.3V</td>
<td>-20°C to 70°C</td>
</tr>
<tr>
<td>317</td>
<td>7.0 x 5.0</td>
<td></td>
<td></td>
<td></td>
<td>±25ppm</td>
<td>±50ppm</td>
<td></td>
<td>-40°C to 85°C</td>
</tr>
<tr>
<td>345</td>
<td>5.0 x 3.2</td>
<td>LVPECL</td>
<td>100 - 250</td>
<td>90</td>
<td>±20ppm</td>
<td>±50ppm</td>
<td>3.3V</td>
<td>-20°C to 70°C</td>
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<tr>
<td>347</td>
<td>7.0 x 5.0</td>
<td></td>
<td></td>
<td></td>
<td>±25ppm</td>
<td>±50ppm</td>
<td></td>
<td>-40°C to 85°C</td>
</tr>
<tr>
<td>375</td>
<td>5.0 x 3.2</td>
<td>LVDS</td>
<td>100 - 250</td>
<td>70</td>
<td>±20ppm</td>
<td>±50ppm</td>
<td>2.5V</td>
<td>-20°C to 70°C</td>
</tr>
<tr>
<td>377</td>
<td>7.0 x 5.0</td>
<td></td>
<td></td>
<td></td>
<td>±25ppm</td>
<td>±50ppm</td>
<td>3.3V</td>
<td>-40°C to 85°C</td>
</tr>
</tbody>
</table>

http://www.ctscorp.com/connect_product_line/vcxo/

Production 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), email frequenciesales@ctscorp.com, see our website for more information as well as for 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 sensors, actuators and electronic components to OEMs in the aerospace, communications, defense, industrial, information technology, medical and transportation markets. CTS manufactures products in North America, Europe and Asia.

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