

OX-502/OX-601

Ultra-small Oven Controlled Oscillators (OCXO) With Superior Stability Under Airflow
 Vectron Brand Oven Controlled Oscillator

Summary

Vectron's OX-502/OX-601 LVCMOS OXCOs are leading the advancement in today's timing market by offering the best combination of small size, low power, fast warm-up time and stability under airflow. The OX-502/OX-601 are based on proprietary ASIC development, thermal management and performance proven crystal stability.



Key Features

- Tight stability
 - ± 10 ppb over temperature
 - ± 3 ppm over 10 years aging
 - ± 2 ppb/C frequency slope
- Small footprint
 - 7.4×9.6 mm, 9.4×14.3 mm
- Fast warm-up time
 - 3 minutes
- Extended temperature range
 - -40°C to $+95^{\circ}\text{C}$ option

Applications



Communications: 5G, IEEE 1588, SyncE, GR1244, base stations, small cell, microwave stability under airflow



Data centers



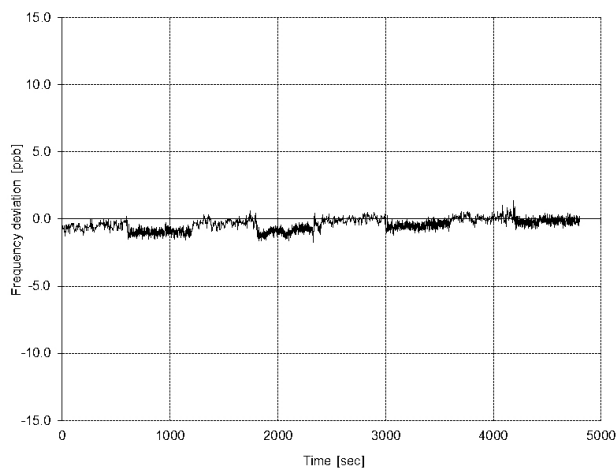
Optical Networking



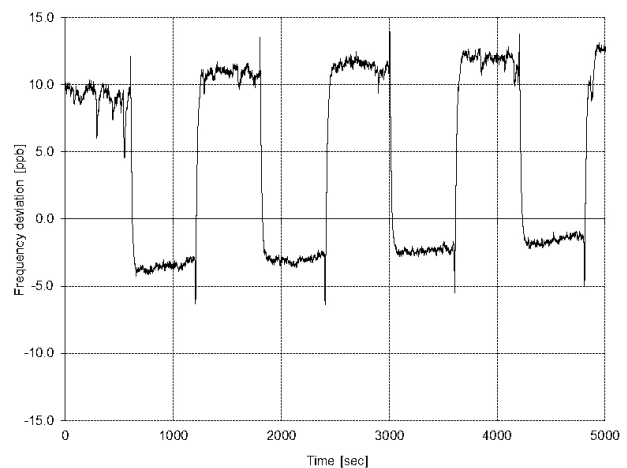
Military

Stability Under Airflow

Vectron



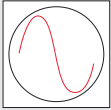
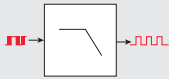
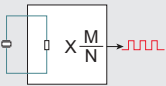
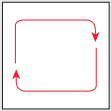
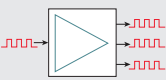
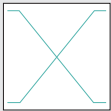
Competition



OX-502/OX-601 Product Comparison

Product	Package	Cycle Airflow Performance	Frequency Range	Stability -40°C to 85°C	Supply	Power Consumption 25°C
OX-502	14.3 × 9.4 × 6.1	0.75 ppb	10 MHz–40 MHz	±10 ppb	3.3V	0.5W
OX-601	9.6 × 7.4 × 4.1	2.5 ppb	10 MHz–40 MHz	±10 ppb	3.3V	0.5W

More Timing Products From The Broadest Line in The Market Place

 <h3>Oscillators</h3> <p>MEMS Crystal OCXO EMXO TCXO MCXO VCXO VCXO</p>	<h3>Jitter Attenuation</h3> <p>Jitter filtering Clock translation Any in/any out Internal EEPROM Advanced DPLL</p> 
 <h3>Clock Generation</h3> <p>Low jitter Low power Any in/any out Clock tree on a chip Integrated MEMS/Xtal resonator</p>	<h3>Synchronization</h3> <p>Synchronous Ethernet IEEE1588 Servo algorithm OTN/GPS PLLS Firmware and software support</p> 
 <h3>Clock Distribution</h3> <p>Low additive Jitter Any In/Any Out Fanout buffers Zero-delay buffers Dividers Multiplexers</p>	<h3>Complimentary</h3> <p>Logic translators Cross point switches Backplane and cable Skew management Flip-flop/logic gates</p> 

Product Links

OX-601 Product page: www.vectron.com/OX601

OX-502 Product page: www.vectron.com/OX502



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