# 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

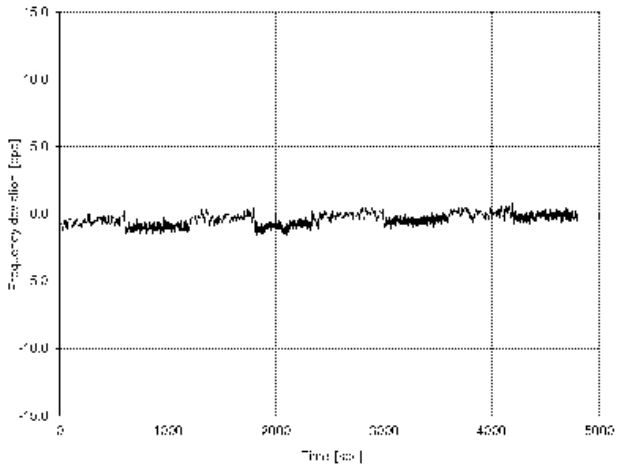
- Tight stability
  - ±10 ppb over temperature
  - ±3 ppm over 10 years aging
  - ±2 ppb/C frequency slope
- Small footprint
  - 7.4 × 9.6 mm, 9.4 × 14.3 mm
- Fast warm-up time
  - 3 minutes
- Extended temperature range
  - –40°C to +95°C option

## Applications

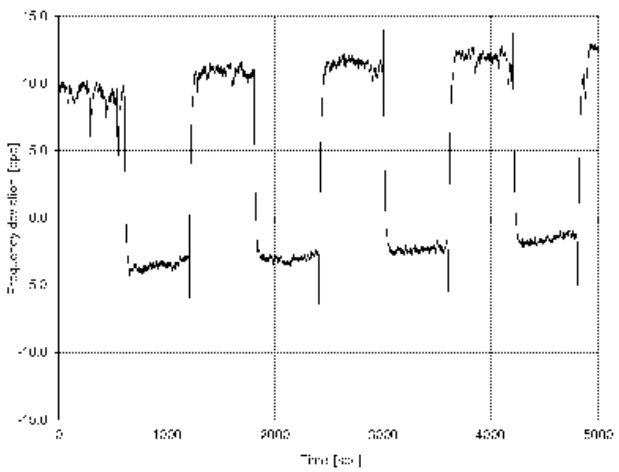
- Communications: 5G, IEEE 1588, SyncE, GR1244, base stations, small cell, microwave stability under airflow
- Data centers
- Optical Networking
- Military

## Stability Under Airflow

### Vectron



### Competition



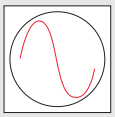


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## OX-502/OX-601 Product Comparison

| 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

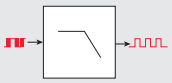


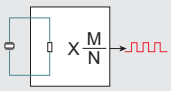
### Oscillators

MEMS | Crystal | OCXO | EMXO
TCXO | MCXO | VCXO | VCSO

### Jitter Attenuation

Jitter filtering | Clock translation
Any in/any out | Internal EEPROM
Advanced DPLL



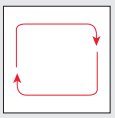


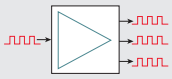

### Clock Generation

Low jitter | Low power
Any in/any out | Clock tree on a chip
Integrated MEMS/Xtal resonator

### Synchronization

Synchronous Ethernet | IEEE1588
Servo algorithm OTN/GPS PLLS
Firmware and software support





### Clock Distribution

Low additive Jitter | Any In/Any Out
Fanout buffers | Zero-delay buffers
Dividers | Multiplexers

### Complimentary

Logic translators | Cross point switches
Backplane and cable | Skew management
Flip-flop/logic gates



## Product Links

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

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

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