

Fixed-frequency

PureWave Photonic Microwave Oscillator with extremely low phase-noise



OSCILLATOR WITH ULTRA-LOW PHASE-NOISE

The QuSinus PureWave Photonic Microwave Oscillator product family has been designed to deliver signal purity and frequency stability for a fixed frequency. The Photonic Microwave Oscillator (PMO) product family offers frequencies from 3 GHz to 60 GHz.

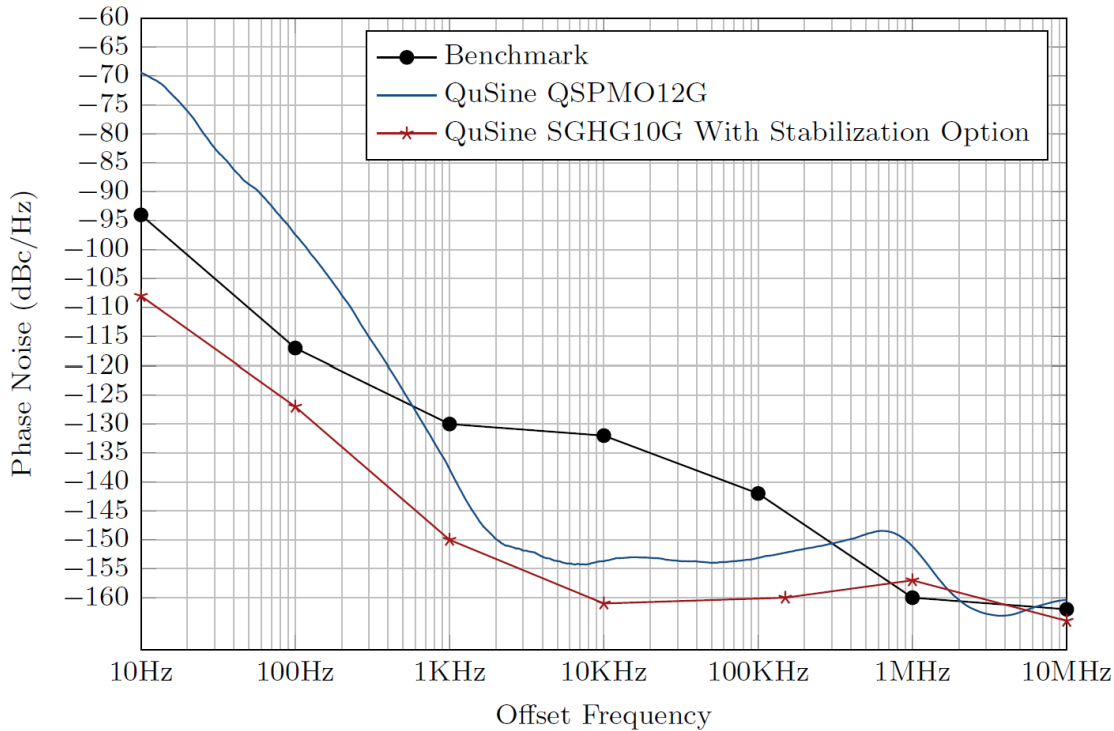
Powered by state-of-the-art technology, our opto-electronic oscillator achieves a precision in time interval measurement that surpasses conventional quartz-based oscillators by orders of magnitude. The QuSinus PureWave ultra-low noise RF/microwave oscillator offers exceptional overall utility and long-term value for a broad range of applications like test and measurement, quantum computing, communications, radar systems, particle accelerators and more.

KEY FACTS & BENEFITS

- Ultra-low phase-noise: at 10 GHz, we achieve -154 dBc/Hz (meas.) at 100 kHz offset
- Very low jitter of 6.3 fs from 1 kHz to 100 MHz
- Available frequencies: 3 GHz to 60 GHz in 250 MHz intervals
- Operating Temperature Range: 18°C to 26°C
- Output power range: -20 dBm to +13 dBm
- Optical source (MLL) provided at request
- Option with integrated optical source available upon request

OSCILLATOR PERFORMANCE

Phase-noise at 10 GHz



PERFORMANCE OF PMO PRODUCT FAMILY

Exemplary frequencies and performance:

Article number	Frequency	Phase-noise @ 100 kHz offset	Phase-noise @ 3 MHz offset
QSPMO03G	3 GHz	-154 dBc/Hz	-154 dBc/Hz
QSPMO06G	6 GHz	-154 dBc/Hz	-154 dBc/Hz
QSPMO08G	8 GHz	-154 dBc/Hz	-154 dBc/Hz
QSPMO10G	10 GHz	-154 dBc/Hz	-154 dBc/Hz
QSPMO20G	20 GHz	-148 dBc/Hz	-148 dBc/Hz
QSPMO30G	30 GHz	-144 dBc/Hz	-144 dBc/Hz
QSPMO40G	40 GHz	-142 dBc/Hz	-142 dBc/Hz
QSPMO50G	50 GHz	-140 dBc/Hz	-140 dBc/Hz
QSPMO60G	60 GHz	-138 dBc/Hz	-138 dBc/Hz

www.qusine.com

QuSinus GmbH
 Am Neuen Markt 9 C
 14467 Potsdam
 Germany

Contact us
 Email: info@qusine.com
 Phone: +49 331 5811 6380

