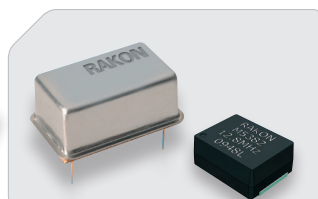
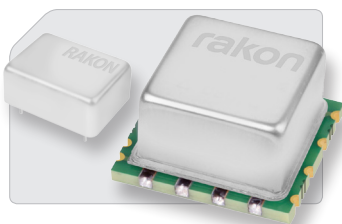


Frequency control solutions for base station applications

Rakon is the world leader of precision frequency control and offers a complete range of solutions for the base station and telecom infrastructure markets. Rakon is committed to providing leading edge technology solutions at competitive prices.



BASE STATION SOLUTIONS

Product range for base stations and telecom applications



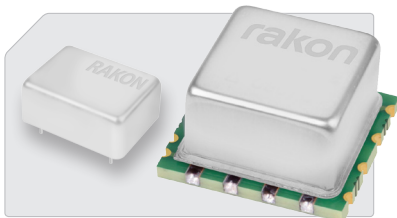
Self calibrating OCXOs

Rakon's range of self calibrating OCXOs can replace expensive rubidium clocks in Stratum 2 and other high precision applications. They compensate internally for crystal ageing effects, achieving free running lifetime stability better than ± 16 ppb ($\pm 1.6 \times 10^{-9}$) without the need for any recalibration of equipment.



Double oven replacements

Rakon's 'super single oven' OCXOs deliver performance as good or better than double oven OCXOs, but from a smaller, lower cost device. Offering stability of ± 0.1 ppb ($\pm 1.0 \times 10^{-10}$) over its operating temperature range, while superior stability under all operating conditions yields 24 hour holdover better than $7\mu\text{s}$. It is suitable as a frequency source and time keeping reference for all synchronization systems.



Versatile standard OCXOs

The ROX3827T3 and ROX2522S4 are cost effective OCXOs offering high performance. They are tailored for applications such as cellular base stations where space and price are paramount. The range includes state of the art SMD technology.



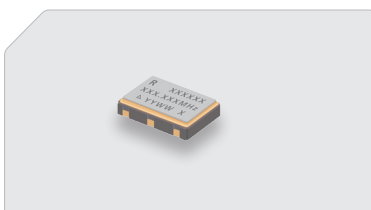
World's smallest OCXOs

Rakon's 'Mercury' series of low cost OCXOs bridges the gap between ultra-stable TCXOs and traditional high end OCXOs in terms of cost, stability, size, weight, and power consumption. Combining oven technology with Rakon's proprietary ultra-stable temperature compensation, Mercury delivers frequency stabilities better than ± 50 ppb in two reflowable surface mount packages: RFPO40 (9.0 x 7.0 mm) and RFPO50 (14.0 x 9.0 mm).



Ultra-stable TCXOs

Ultra-stable TCXOs based on Rakon's proprietary Pluto technology address high volume applications where very high stability is required. Pluto incorporates patented tilt compensation to eliminate the detrimental effects of adjusting a TCXO's control voltage to allow for long term drift. The Pluto-based 7.0 x 5.0 mm CFPT-9000 series and 5.0 x 3.0 mm CFPT-9300 series TCXOs offer stabilities of ± 140 ppb over industrial temperature ranges. The RTX-A range offers phase noise as low as -155 dBc/Hz and RMS jitter better than 0.4 ps from 12 kHz to 20 MHz.



Ultra low noise VCXOs

Rakon's high frequency, ultra low noise VCXOs enable high speed QAM and DAC architectures to deliver the lowest bit error rate (BER) and optimised data throughput in next-generation LTE designs. The range of footprints (14.0 x 9.0, 7.0 x 5.0 and 5.0 x 3.2 mm), frequencies (2.048 to 1500 MHz) and noise performance (0.1 to 1 ps jitter) configurations simplify price/performance design optimisation.

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