


The Rakon logo consists of the word "rakon" in a bold, lowercase, sans-serif font. The letter "a" is green, while the remaining letters "r", "k", "o", "n" are black. To the right of the text is a large, light green arrow pointing to the left.A photograph of a car's interior dashboard. A hand is visible on the steering wheel. The center console features a navigation screen displaying a map, two circular air vents, and a control knob. The text "GPS SOLUTIONS" is overlaid in white at the bottom right of the image.

GPS SOLUTIONS

World leading GPS frequency control solutions

Rakon is the world leader of GPS crystals and Temperature Compensated Crystal Oscillators (TCXOs), with over 50% share of the world market.

Innovative technology

Rakon was the first in the world to develop the miniature 0.5 ppm TCXO for high volume consumer applications and continues at the forefront of leading technology. Rakon has excelled in taking high precision, niche technology and transforming this into high volume cost effective solutions, while still maintaining the highest performance and quality.

The Rakon level of performance

Rakon leads the way for GPS solutions requiring the highest level of performance. Rakon is the solutions provider. Rakon GPS TCXOs have no frequency perturbations and enable weak signal detection - at no extra cost.

The preferred choice

The preferred supplier in leading GPS chipset reference designs, Rakon products are the default standard for consumer GPS applications. Rakon has GPS TCXOs for a wide range of applications including automotive, agriculture, surveying and mining.



Consumer GPS

IT2100 series
2.0 x 1.6 mm



IT2200 series
2.5 x 2.0 mm



IT3200 series
3.2 x 2.5 mm



IT5300 series
5.0 x 3.2 mm



Designed for high volume GPS applications offering the 'Rakon level' of performance and quality.

- 0.5 ppm TCXO stability
- Available down to 2.0 mm x 1.6 mm size
- Frequency ranges available: 10.0 MHz – 52.0 MHz
- No frequency perturbations
- Excellent phase noise
- Weak signal detection and fast acquisition
- Wide operating temperatures available

GPS applications: smartphones, PNDs, mobile phones, netbooks, recreational GPS, automotive and wireless applications.

GRM8652

A front end radio module designed for GPS and Galileo applications. Rakon's GRM8652 (8.0 mm x 6.2 mm) is an easy to use, single package GPS radio front-end solution that simplifies product design.

- No receiver RF design time or specialist expertise needed
- Receives L1 C/A code signal at 1575.42 MHz
- Down converts GPS signals to an IF signal for a range of base band configurations
- Entirely self contained with LNA, RF ASIC, SAW filter, IF filter and 0.5 ppm TCXO
- The data output is a 2-bit (SGN, MAG) digital signal available in parallel or serial format, ready for subsequent digital processing by either a hardware or software base band

GPS applications: cameras, laptops, personal locators and many other GPS applications.

GRM8652
8.0 x 6.2 mm



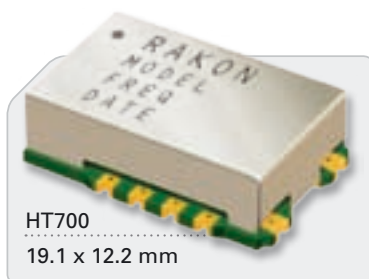
High Precision GPS

HT700 and HT7500

Hybrid technology designed for applications requiring excellent phase noise and temperature stability, including high frequencies. Using 5th order compensation, Rakon's HT700 and HT7500 combine Rakon's precision IT technology with superior discrete oscillator performance.

GPS applications: agriculture, surveying, mining and other high precision applications.

HT700
19.1 x 12.2 mm



HT7500
7.0 x 5.0 mm



Rakon Limited
(Corporate Head Office)
Phone: +64 (9) 573 5554
Fax: +64 (9) 573 5559
Email: sales@rakon.co.nz

Rakon UK Limited
(Europe, Middle East, Africa)
Phone: +44 (1522) 883500
Fax: +44 (1522) 883524
Email: info@rakon.co.uk

Rakon Taiwan
Representative Office (Asia)
Phone: +886 (2) 2759 0259
Fax: +886 (2) 2759 2668
Email: sales@rakon.com

Rakon Limited Shenzhen
Representative Office (China)
Phone: +86 (755) 8283 5991
Fax: +86 (755) 8283 5990
Email: sales@rakon.com

Rakon America LLC
(Americas)
Phone: +1 (847) 930 5100
Fax: +1 (847) 844 3236
Email: sales@rakon.com